



Portfolio holdings are as of 09/30/2024

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Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLAB Sustainable Global Thematic Fund	Cash			Cash Equivalent	1,556	1,556	0.007%
JNLAB Sustainable Global Thematic Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	782,768	785,827	3.531%
JNLAB Sustainable Global Thematic Fund	Apollo Hospitals Enterprise Limited			Equity	4,845	417,187	1.874%
JNLAB Sustainable Global Thematic Fund	On Holding AG			Equity	7,174	359,776	1.616%
JNLAB Sustainable Global Thematic Fund	NU Holdings Ltd.			Equity	31,941	435,995	1.959%
JNLAB Sustainable Global Thematic Fund	TOMRA Systems ASA			Equity	14,375	211,698	0.951%
JNLAB Sustainable Global Thematic Fund	GE HealthCare Technologies Inc.			Equity	5,375	504,444	2.266%
JNLAB Sustainable Global Thematic Fund	AFLAC Incorporated			Equity	4,888	546,478	2.455%
JNLAB Sustainable Global Thematic Fund	Adobe Inc.			Equity	897	464,449	2.087%
JNLAB Sustainable Global Thematic Fund	Becton, Dickinson and Company			Equity	1,597	395,037	1.730%
JNLAB Sustainable Global Thematic Fund	Hologic, Inc.			Equity	3,892	317,042	1.424%
JNLAB Sustainable Global Thematic Fund	Fair Isaac Corporation			Equity	187	363,438	1.633%
JNLAB Sustainable Global Thematic Fund	Hexcel Corporation			Equity	5,101	315,395	1.417%
JNLAB Sustainable Global Thematic Fund	Flex Ltd.			Equity	17,518	565,427	2.531%
JNLAB Sustainable Global Thematic Fund	NVIDIA Corporation			Equity	4,930	598,749	2.690%
JNLAB Sustainable Global Thematic Fund	Intuit Inc.			Equity	689	427,869	1.922%
JNLAB Sustainable Global Thematic Fund	NexEra Energy, Inc.			Equity	7,710	651,726	2.928%
JNLAB Sustainable Global Thematic Fund	Cadence Design Systems, Inc.			Equity	1,436	389,199	1.719%
JNLAB Sustainable Global Thematic Fund	Brüker Corporation			Equity	4,878	336,875	1.514%
JNLAB Sustainable Global Thematic Fund	Procter & Gamble Company, The			Equity	2,309	399,919	1.797%
JNLAB Sustainable Global Thematic Fund	Microsoft Corporation			Equity	1,561	671,698	3.018%
JNLAB Sustainable Global Thematic Fund	Tetra Tech, Inc.			Equity	11,380	536,661	2.411%
JNLAB Sustainable Global Thematic Fund	Waste Management, Inc.			Equity	2,889	599,756	2.695%
JNLAB Sustainable Global Thematic Fund	Keyence Corporation			Equity	950	454,641	2.043%
JNLAB Sustainable Global Thematic Fund	Terumo Corporation			Equity	20,337	386,085	1.735%
JNLAB Sustainable Global Thematic Fund	Monolithic Power Systems, Inc.			Equity	391	351,663	1.595%
JNLAB Sustainable Global Thematic Fund	Experian PLC			Equity	10,007	527,380	2.369%
JNLAB Sustainable Global Thematic Fund	PT Bank Mandiri (Persero) Tbk.			Equity	899,500	411,692	1.850%
JNLAB Sustainable Global Thematic Fund	Mercadolibre, Inc.			Equity	164	336,521	1.512%
JNLAB Sustainable Global Thematic Fund	Unilever PLC			Equity	7,689	498,762	2.243%
JNLAB Sustainable Global Thematic Fund	ACCION			Equity	4,003	413,390	1.857%
JNLAB Sustainable Global Thematic Fund	Cia De Saneamento Basico Do Estado De Sao Paulo SABESP			Equity	1,185	19,634	0.088%
JNLAB Sustainable Global Thematic Fund	Partners Group Holding AG			Equity	222	333,498	1.498%
JNLAB Sustainable Global Thematic Fund	London Stock Exchange Group PLC			Equity	4,011	547,742	2.461%
JNLAB Sustainable Global Thematic Fund	Relx PLC			Equity	7,064	334,192	1.505%
JNLAB Sustainable Global Thematic Fund	Nestle Oyj			Equity	7,328	141,555	0.636%
JNLAB Sustainable Global Thematic Fund	NXP Semiconductors N.V.			Equity	1,761	424,443	1.907%
JNLAB Sustainable Global Thematic Fund	AAA Group Limited			Equity	39,400	342,815	1.540%
JNLAB Sustainable Global Thematic Fund	Accenture Public Limited Company			Equity	1,413	699,461	3.140%
JNLAB Sustainable Global Thematic Fund	Aptiv PLC			Equity	5,336	384,245	1.726%
JNLAB Sustainable Global Thematic Fund	Calix, Inc.			Equity	7,298	283,089	1.272%
JNLAB Sustainable Global Thematic Fund	Visa Inc.			Equity	2,276	625,786	2.812%
JNLAB Sustainable Global Thematic Fund	ASML Holding N.V.			Equity	367	306,568	1.377%
JNLAB Sustainable Global Thematic Fund	Palo Alto Networks, Inc.			Equity	770	263,186	1.182%
JNLAB Sustainable Global Thematic Fund	Icon Public Limited Company			Equity	1,547	444,469	1.997%
JNLAB Sustainable Global Thematic Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	3,536	616,311	2.769%
JNLAB Sustainable Global Thematic Fund	Groupe WSP Global Inc.			Equity	1,920	341,845	1.535%
JNLAB Sustainable Global Thematic Fund	Arista Networks, Inc.			Equity	1,082	415,293	1.866%
JNLAB Sustainable Global Thematic Fund	TopBuild Corp.			Equity	447	181,844	0.817%
JNLAB Sustainable Global Thematic Fund	Steris Public Limited Company			Equity	1,697	411,590	1.849%
JNLAB Sustainable Global Thematic Fund	Alcon AG			Equity	4,527	455,790	2.048%
JNLAB Sustainable Global Thematic Fund	Halma Public Limited Company			Equity	10,578	369,847	1.652%
JNLAB Sustainable Global Thematic Fund	Bentley Systems, Incorporated			Equity	4,316	219,296	0.985%
JNLAB Sustainable Global Thematic Fund	Verato Corporation			Equity	5,064	566,915	2.547%
Total Non Derivatives						22,226,295	
Derivatives							
JNLAB Sustainable Global Thematic Fund	Bought AUD / Sold USD			Derivative	8,241		0.037%
JNLAB Sustainable Global Thematic Fund	Bought BRL / Sold USD			Derivative	1,939		0.009%
JNLAB Sustainable Global Thematic Fund	Bought BRL / Sold USD			Derivative	(107)		-0.000%
JNLAB Sustainable Global Thematic Fund	Bought CAD / Sold USD			Derivative	1,091		0.005%
JNLAB Sustainable Global Thematic Fund	Bought CNY / Sold USD			Derivative	(121)		-0.001%
JNLAB Sustainable Global Thematic Fund	Bought CNY / Sold USD			Derivative	(287)		-0.001%
JNLAB Sustainable Global Thematic Fund	Bought EUR / Sold USD			Derivative	13,791		0.062%
JNLAB Sustainable Global Thematic Fund	Bought EUR / Sold USD			Derivative	(111)		-0.001%
JNLAB Sustainable Global Thematic Fund	Bought EUR / Sold USD			Derivative	1,487		0.007%
JNLAB Sustainable Global Thematic Fund	Bought EUR / Sold USD			Derivative	390		0.002%
JNLAB Sustainable Global Thematic Fund	Bought INR / Sold USD			Derivative	98		0.000%
JNLAB Sustainable Global Thematic Fund	Bought JPY / Sold USD			Derivative	11,322		0.051%
JNLAB Sustainable Global Thematic Fund	Bought JPY / Sold USD			Derivative	2,051		0.009%
JNLAB Sustainable Global Thematic Fund	Bought KRW / Sold USD			Derivative	12,348		0.055%
JNLAB Sustainable Global Thematic Fund	Bought MXN / Sold USD			Derivative	(696)		-0.003%
JNLAB Sustainable Global Thematic Fund	Bought SEK / Sold USD			Derivative	171		0.001%
JNLAB Sustainable Global Thematic Fund	Bought SEK / Sold USD			Derivative	(636)		-0.003%
JNLAB Sustainable Global Thematic Fund	Bought SGD / Sold USD			Derivative	2,377		0.011%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold HKD			Derivative	(352)		-0.002%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold CHF			Derivative	(31)		-0.000%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold TWD			Derivative	(585)		-0.003%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold TWD			Derivative	(316)		-0.001%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold TWD			Derivative	(1,042)		-0.005%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold CHF			Derivative	(924)		-0.004%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold CHF			Derivative	561		0.003%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold GBP			Derivative	(14,168)		-0.064%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold CHF			Derivative	1,145		0.005%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	(79)		-0.000%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold BRL			Derivative	(6,697)		-0.030%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	(34)		-0.000%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold BRL			Derivative	(2,315)		-0.010%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	(538)		-0.002%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	(346)		-0.002%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	113		0.001%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	255		0.001%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	658		0.003%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold GBP			Derivative	(1,091)		-0.005%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	1,484		0.007%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold NOK			Derivative	(506)		-0.002%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold JPY			Derivative	839		0.004%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold CHF			Derivative	(97)		-0.000%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold BRL			Derivative	243		0.001%
JNLAB Sustainable Global Thematic Fund	Bought USD / Sold HKD			Derivative	36		0.000%
JNLAB Sustainable Global Thematic Fund	Bought ZAR / Sold USD			Derivative	1,868		0.008%
Total Derivatives						31,378	
Total All Investments						22,257,583	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Aggressive Growth Allocation Fund	JNL/Baillie Gifford U.S. Equity Growth Fund			Fund	792,754	5,398,654	0.357%
JNL Aggressive Growth Allocation Fund	JNL/WWC Equity Income Fund			Fund	3,095,331	61,720,901	4.085%
JNL Aggressive Growth Allocation Fund	JNL/Newton Equity Income Fund			Fund	1,835,277	63,500,587	4.203%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager U.S. Select Equity Fund			Fund	8,958,761	138,144,094	9.142%
JNL Aggressive Growth Allocation Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	2,793,403	40,839,547	2.703%
JNL Aggressive Growth Allocation Fund	JNL/Causeway International Value Select Fund			Fund	4,679,880	105,990,900	6.975%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	4,236,031	39,945,776	2.644%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager Small Cap Value Fund			Fund	2,220,288	49,201,591	3.256%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	1,099,057	49,567,488	3.280%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager Mid Cap Fund			Fund	4,000,107	84,282,250	5.578%
JNL Aggressive Growth Allocation Fund	JNL/T. Rowe Price Established Growth Fund			Fund	952,516	87,317,122	5.779%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager Alternative Fund			Fund	911,826	11,716,968	0.775%
JNL Aggressive Growth Allocation Fund	JNL/Harris Oakmark Global Equity Fund			Fund	4,160,357	60,574,801	4.009%
JNL Aggressive Growth Allocation Fund	JNL/GQG Emerging Markets Equity Fund			Fund	4,504,568	73,965,001	4.895%
JNL Aggressive Growth Allocation Fund	JNL/JPMorgan U.S. Value Fund			Fund	3,190,262	61,731,578	4.085%
JNL Aggressive Growth Allocation Fund	JNL/DoubleLine Shiller Enhanced CAPE Fund			Fund	1,475,697	39,002,675	2.581%
JNL Aggressive Growth Allocation Fund	JNL/T. Rowe Price Value Fund			Fund	3,231,725	99,731,044	6.600%
JNL Aggressive Growth Allocation Fund	JNL/WCM Focused International Equity Fund			Fund	6,550,773	106,384,561	7.041%
JNL Aggressive Growth Allocation Fund	JNL/Morningstar Wide Moat Index Fund			Fund	8,712,304	126,154,161	8.349%
JNL Aggressive Growth Allocation Fund	JNL/Loomis Sayles Global Growth Fund			Fund	4,282,979	80,691,321	5.340%
JNL Aggressive Growth Allocation Fund	JNL Multi-Manager International Small Cap Fund			Fund	5,710,097	69,777,386	4.618%
JNL Aggressive Growth Allocation Fund	JNL/Morningstar SMID Most Focus Index Fund			Fund	3,766,711	40,719,142	2.695%
JNL Aggressive Growth Allocation Fund	Jackson Real Assets Fund			Fund	1,425,000	15,256,428	1.010%
Total Non Derivatives						1,511,012,976	
Derivatives							
Total Derivatives						0	
Total All Investments						1,511,012,976	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Bond Fund of America Fund	American Funds Insurance Series - The Bond Fund of America			Fund	47,344,028	469,652,761	100.000%
Total Non Derivatives						469,652,761	
Derivatives							
Total Derivatives						0	
Total All Investments						469,652,761	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Capital Income Builder Fund	American Funds Insurance Series - Capital Income Builder Fund			Fund	34,678,945	449,785,916	100.000%
Total Non Derivatives						449,785,916	
Derivatives							
Total Derivatives						0	
Total All Investments						449,785,916	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Capital World Bond Fund	American Funds Insurance Series - Capital World Bond Fund			Fund	31,678,131	331,670,037	100.000%
Total Non Derivatives						331,670,037	
Derivatives							
Total Derivatives						0	
Total All Investments						331,670,037	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Global Growth Fund	American Funds Insurance Series - Global Growth Fund			Fund	27,888,325	1,071,748,332	100.000%
Total Non Derivatives						1,071,748,332	
Derivatives							
Total Derivatives						0	
Total All Investments						1,071,748,332	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Global Small Capitalization Fund	American Funds Insurance Series - Global Small Capitalization Fund			Fund	35,324,009	666,917,288	100.000%
Total Non Derivatives						666,917,288	
Derivatives							
Total Derivatives						0	
Total All Investments						666,917,288	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Growth Allocation Fund	American Funds Strategic Bond Fund			Fund	11,376.017	107,503.361	2.697%
JNL/American Funds Growth Allocation Fund	American Funds Insurance Series - The Bond Fund of America			Fund	29,489.437	292,535.212	7.340%
JNL/American Funds Growth Allocation Fund	American Funds EuroPacific Growth Fund			Fund	3,615.818	218,250.795	5.476%
JNL/American Funds Growth Allocation Fund	American Funds Insurance Series - American High-Income Trust			Fund	8,130.737	78,705.539	1.975%
JNL/American Funds Growth Allocation Fund	American Funds Investment Company of America Fund			Fund	10,669.716	648,825.453	16.279%
JNL/American Funds Growth Allocation Fund	American Funds International Growth and Income Fund			Fund	5,559.280	217,145.489	5.448%
JNL/American Funds Growth Allocation Fund	American Funds SMALLCAP World Fund			Fund	3,781.695	278,937.790	6.998%
JNL/American Funds Growth Allocation Fund	American Funds Insurance Series - Washington Mutual Investors Fund			Fund	8,032.626	517,461.787	12.983%
JNL/American Funds Growth Allocation Fund	American Funds Insurance Series - Growth Fund			Fund	4,366.569	520,718.202	13.065%
JNL/American Funds Growth Allocation Fund	American Funds Insurance Series - Global Growth Fund			Fund	8,965.261	344,573.417	8.645%
JNL/American Funds Growth Allocation Fund	American Funds Emerging Markets Bond Fund			Fund	4,874.831	39,670.078	0.995%
JNL/American Funds Growth Allocation Fund	American Funds New World Fund			Fund	2,119.753	181,768.847	4.561%
JNL/American Funds Growth Allocation Fund	American Funds Inflation Linked Bond Fund			Fund	6,096.358	58,788.894	1.474%
JNL/American Funds Growth Allocation Fund	American Funds Mortgage Fund			Fund	17,191.519	155,684.198	3.906%
JNL/American Funds Growth Allocation Fund	American Funds American Mutual Fund			Fund	5,206.116	308,774.718	7.747%
JNL/American Funds Growth Allocation Fund	American Funds Insurance Series - American Funds Mortgage Fund			Fund	1,674.104	16,372.737	0.411%
Total Non Derivatives						3,985,696.518	
Derivatives							
Total Derivatives						0	
Total All Investments						3,985,696.518	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Growth Fund	American Funds Insurance Series - Growth Fund			Fund	53,008,241	6,332,894,511	100.000%
Total Non Derivatives						6,332,894,511	
Derivatives							
Total Derivatives						0	
Total All Investments						6,332,894,511	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL American Funds Growth-Income Fund	American Funds Insurance Series - Growth-Income Fund			Fund	170,628,254	11,705,098,255	100.000%
Total Non Derivatives						11,705,098,255	
Derivatives							
Total Derivatives						0	
Total All Investments						11,705,098,255	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL American Funds International Fund	American Funds Insurance Series - International Fund			Fund	75,354,406	1,483,728,262	100.000%
Total Non Derivatives						1,483,728,262	
Derivatives							
Total Derivatives						0	
Total All Investments						1,483,728,262	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Moderate Growth Allocation Fund	American Funds Strategic Bond Fund			Fund	18,695,009	176,667,828	6.942%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Insurance Series - The Bond Fund of America			Fund	44,413,669	440,583,600	17.313%
JNL/American Funds Moderate Growth Allocation Fund	American Funds EuroPacific Growth Fund			Fund	1,795,161	108,355,945	4.258%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Insurance Series - American High-Income Trust			Fund	7,880,608	76,284,289	2.998%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Investment Company of America Fund			Fund	5,294,280	320,120,869	12.579%
JNL/American Funds Moderate Growth Allocation Fund	American Funds International Growth and Income Fund			Fund	2,770,154	108,502,216	4.252%
JNL/American Funds Moderate Growth Allocation Fund	American Funds SMALLCAP World Fund			Fund	2,081,669	153,543,920	6.034%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Insurance Series - Washington Mutual Investors Fund			Fund	4,368,023	281,388,058	11.057%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Insurance Series - Growth Fund			Fund	1,825,496	218,091,970	8.570%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Insurance Series - Global Growth Fund			Fund	3,786,327	145,508,552	5.718%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Emerging Markets Bond Fund			Fund	6,286,045	51,154,961	2.010%
JNL/American Funds Moderate Growth Allocation Fund	American Funds New World Fund			Fund	903,402	77,466,764	3.044%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Inflation Linked Bond Fund			Fund	4,891,169	48,114,865	1.891%
JNL/American Funds Moderate Growth Allocation Fund	American Funds Mortgage Fund			Fund	19,085,387	172,864,437	6.793%
JNL/American Funds Moderate Growth Allocation Fund	American Funds American Mutual Fund			Fund	2,807,351	166,503,973	6.543%
Total Non Derivatives						2,544,852,307	
Derivatives							
Total Derivatives						0	
Total All Investments						2,544,852,307	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds New World Fund	American Funds Insurance Series - New World Fund			Fund	50,673,254	1,464,457,047	100.000%
Total Non Derivatives						1,464,457,047	
Derivatives							
Total Derivatives						0	
Total All Investments						1,464,457,047	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds Washington Mutual Investors Fund	American Funds Insurance Series - Washington Mutual Investors Fund			Fund	240,995,895	4,113,799,932	100.000%
Total Non Derivatives						4,113,799,932	
Derivatives							
Total Derivatives						0	
Total All Investments						4,113,799,932	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/American Funds® Balanced Fund	American Funds Insurance Series - Asset Allocation Fund			Fund	125,030.629	3,277,052,776	100.000%
Total Non Derivatives						3,277,052,776	
Derivatives							
Total Derivatives						0	
Total All Investments						3,277,052,776	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLIAQR Large Cap Defensive Style Fund	Cash			Cash Equivalent	378,328	378,328	0.009%
JNLIAQR Large Cap Defensive Style Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	10,494,732	10,494,273	2.489%
JNLIAQR Large Cap Defensive Style Fund	Texas Pacific Land Corporation			Equity	1,995	1,765,056	0.419%
JNLIAQR Large Cap Defensive Style Fund	DT Midstream, Inc.			Equity	17,818	1,414,660	0.335%
JNLIAQR Large Cap Defensive Style Fund	General Electric Company			Equity	30,471	5,754,753	1.365%
JNLIAQR Large Cap Defensive Style Fund	Constellation Energy Group, Inc.			Equity	3,787	984,686	0.234%
JNLIAQR Large Cap Defensive Style Fund	Verizon Communications Inc.			Equity	134,683	6,048,614	1.434%
JNLIAQR Large Cap Defensive Style Fund	Valero Energy Corporation			Equity	1,968	265,739	0.063%
JNLIAQR Large Cap Defensive Style Fund	AFLAC Incorporated			Equity	9,261	1,035,380	0.246%
JNLIAQR Large Cap Defensive Style Fund	International Business Machines Corporation			Equity	13,575	3,001,161	0.712%
JNLIAQR Large Cap Defensive Style Fund	Adobe Inc.			Equity	5,139	2,660,871	0.631%
JNLIAQR Large Cap Defensive Style Fund	W. R. Berkley Corporation			Equity	12,282	696,758	0.165%
JNLIAQR Large Cap Defensive Style Fund	Automatic Data Processing, Inc.			Equity	20,261	5,635,192	1.368%
JNLIAQR Large Cap Defensive Style Fund	AutoZone, Inc.			Equity	1,904	5,987,678	1.422%
JNLIAQR Large Cap Defensive Style Fund	Honeywell International Inc.			Equity	944	195,134	0.046%
JNLIAQR Large Cap Defensive Style Fund	Allstate Corporation, The			Equity	7,274	1,386,206	0.329%
JNLIAQR Large Cap Defensive Style Fund	Boston Scientific Corporation			Equity	7,532	631,182	0.150%
JNLIAQR Large Cap Defensive Style Fund	Abbott Laboratories			Equity	43,421	4,950,428	1.174%
JNLIAQR Large Cap Defensive Style Fund	AMETEK, Inc.			Equity	1,357	233,010	0.055%
JNLIAQR Large Cap Defensive Style Fund	Becton, Dickinson and Company			Equity	4,033	972,356	0.231%
JNLIAQR Large Cap Defensive Style Fund	Apple Inc.			Equity	26,751	6,232,983	1.478%
JNLIAQR Large Cap Defensive Style Fund	Consolidated Edison, Inc.			Equity	5,689	592,396	0.140%
JNLIAQR Large Cap Defensive Style Fund	Hologic, Inc.			Equity	2,883	234,849	0.056%
JNLIAQR Large Cap Defensive Style Fund	Cisco Systems, Inc.			Equity	113,520	6,041,534	1.433%
JNLIAQR Large Cap Defensive Style Fund	Caci International Inc.			Equity	11,458	5,781,248	1.371%
JNLIAQR Large Cap Defensive Style Fund	Cospart, Inc.			Equity	51,640	1,705,938	0.429%
JNLIAQR Large Cap Defensive Style Fund	EOG Resources, Inc.			Equity	26,536	3,262,070	0.774%
JNLIAQR Large Cap Defensive Style Fund	Deere & Company			Equity	1,626	680,969	0.161%
JNLIAQR Large Cap Defensive Style Fund	Deckers Outdoor Corporation			Equity	28,272	4,507,970	1.069%
JNLIAQR Large Cap Defensive Style Fund	Hormel Foods Corporation			Equity	47,058	1,481,710	0.364%
JNLIAQR Large Cap Defensive Style Fund	Assurant, Inc.			Equity	3,678	531,407	0.127%
JNLIAQR Large Cap Defensive Style Fund	JPMorgan Chase & Co.			Equity	7,466	1,574,281	0.373%
JNLIAQR Large Cap Defensive Style Fund	White Mountains Insurance Group Ltd			Equity	1,145	1,942,149	0.461%
JNLIAQR Large Cap Defensive Style Fund	Campbell Soup Company			Equity	5,326	650,548	0.062%
JNLIAQR Large Cap Defensive Style Fund	Caterpillar Inc.			Equity	4,897	1,915,315	0.454%
JNLIAQR Large Cap Defensive Style Fund	NVIDIA Corporation			Equity	26,135	3,174,096	0.753%
JNLIAQR Large Cap Defensive Style Fund	Casady's General Stores, Inc.			Equity	3,598	1,351,805	0.321%
JNLIAQR Large Cap Defensive Style Fund	General Dynamics Corporation			Equity	7,930	2,396,446	0.568%
JNLIAQR Large Cap Defensive Style Fund	Androsco Limited			Equity	2,409	220,923	0.052%
JNLIAQR Large Cap Defensive Style Fund	FTI Consulting, Inc.			Equity	15,596	3,549,026	0.842%
JNLIAQR Large Cap Defensive Style Fund	General Mills, Inc.			Equity	29,676	2,191,573	0.520%
JNLIAQR Large Cap Defensive Style Fund	Church & Dwight Co., Inc.			Equity	29,408	3,079,606	0.730%
JNLIAQR Large Cap Defensive Style Fund	McKesson Corporation			Equity	9,644	4,755,438	1.132%
JNLIAQR Large Cap Defensive Style Fund	Danaher Corporation			Equity	16,436	4,573,974	1.085%
JNLIAQR Large Cap Defensive Style Fund	Illinois Tool Works Inc.			Equity	5,500	1,449,635	0.344%
JNLIAQR Large Cap Defensive Style Fund	Chemed Corporation			Equity	3,176	1,908,681	0.453%
JNLIAQR Large Cap Defensive Style Fund	The Hershey Company			Equity	19,669	4,980,341	0.849%
JNLIAQR Large Cap Defensive Style Fund	Exxon Mobil Corporation			Equity	22,824	2,675,429	0.635%
JNLIAQR Large Cap Defensive Style Fund	Electronic Arts Inc.			Equity	36,783	5,276,154	1.251%
JNLIAQR Large Cap Defensive Style Fund	Cardinal Health, Inc.			Equity	16,074	1,776,489	0.421%
JNLIAQR Large Cap Defensive Style Fund	Cadence Design Systems, Inc.			Equity	4,551	4,735,458	1.092%
JNLIAQR Large Cap Defensive Style Fund	Republic Services, Inc.			Equity	30,330	6,091,477	1.445%
JNLIAQR Large Cap Defensive Style Fund	Colgate-Palmolive Company			Equity	57,807	6,000,945	1.423%
JNLIAQR Large Cap Defensive Style Fund	Coca-Cola Company, The			Equity	87,368	6,320,638	1.499%
JNLIAQR Large Cap Defensive Style Fund	United Therapeutics Corporation			Equity	6,310	2,877,889	0.706%
JNLIAQR Large Cap Defensive Style Fund	Cincinnati Financial Corporation			Equity	2,074	2,246,399	0.057%
JNLIAQR Large Cap Defensive Style Fund	Cintas Corporation			Equity	12,244	2,520,795	0.598%
JNLIAQR Large Cap Defensive Style Fund	Roper Technologies, Inc.			Equity	9,349	5,202,158	1.234%
JNLIAQR Large Cap Defensive Style Fund	Neurocrine Biosciences, Inc.			Equity	12,430	1,432,185	0.340%
JNLIAQR Large Cap Defensive Style Fund	Packaging Corporation of America			Equity	3,669	1,994,868	0.472%
JNLIAQR Large Cap Defensive Style Fund	Costco Wholesale Corporation			Equity	7,159	6,346,597	1.505%
JNLIAQR Large Cap Defensive Style Fund	Travelers Companies, Inc., The			Equity	21,685	5,076,892	1.204%
JNLIAQR Large Cap Defensive Style Fund	Johnson & Johnson			Equity	33,866	5,488,324	1.302%
JNLIAQR Large Cap Defensive Style Fund	Reliance, Inc.			Equity	2,099	895,973	0.212%
JNLIAQR Large Cap Defensive Style Fund	Landstar System, Inc.			Equity	2,093	395,305	0.094%
JNLIAQR Large Cap Defensive Style Fund	Lockheed Martin Corporation			Equity	11,071	6,471,664	1.535%
JNLIAQR Large Cap Defensive Style Fund	NEAgo, Inc.			Equity	11,582	1,430,493	0.339%
JNLIAQR Large Cap Defensive Style Fund	Arch Capital Group Ltd.			Equity	38,448	4,971,562	1.099%
JNLIAQR Large Cap Defensive Style Fund	Merck & Co., Inc.			Equity	45,255	5,174,004	1.227%
JNLIAQR Large Cap Defensive Style Fund	EMCOR Group, Inc.			Equity	1,703	733,193	0.174%
JNLIAQR Large Cap Defensive Style Fund	McDonald's Corporation			Equity	19,511	5,941,295	1.409%
JNLIAQR Large Cap Defensive Style Fund	Loews Corporation			Equity	8,309	4,854,678	1.091%
JNLIAQR Large Cap Defensive Style Fund	The New York Times Company			Equity	8,132	452,708	0.107%
JNLIAQR Large Cap Defensive Style Fund	Marsh & McLennan Companies, Inc.			Equity	1,868	416,732	0.099%
JNLIAQR Large Cap Defensive Style Fund	Kellanova			Equity	16,304	1,315,896	0.312%
JNLIAQR Large Cap Defensive Style Fund	Hartford Financial Services Group, Inc., The			Equity	9,221	1,089,406	0.259%
JNLIAQR Large Cap Defensive Style Fund	Flowers Foods, Inc.			Equity	56,465	1,302,648	0.309%
JNLIAQR Large Cap Defensive Style Fund	PepsiCo, Inc.			Equity	30,761	5,230,908	1.241%
JNLIAQR Large Cap Defensive Style Fund	Altria Group, Inc.			Equity	30,327	1,578,824	0.374%
JNLIAQR Large Cap Defensive Style Fund	Kroger Co., The			Equity	78,266	4,484,642	1.044%
JNLIAQR Large Cap Defensive Style Fund	ConocoPhillips			Equity	21,317	2,246,399	0.533%
JNLIAQR Large Cap Defensive Style Fund	Regeneron Pharmaceuticals, Inc.			Equity	4,916	5,167,896	1.226%
JNLIAQR Large Cap Defensive Style Fund	Seaboard Corporation			Equity	102	319,974	0.076%
JNLIAQR Large Cap Defensive Style Fund	Kimberly-Clark Corporation			Equity	1,408	202,048	0.048%
JNLIAQR Large Cap Defensive Style Fund	Reinsurance Group of America, Incorporated			Equity	1,406	678,076	0.157%
JNLIAQR Large Cap Defensive Style Fund	ELI Lilly and Company			Equity	7,240	6,414,206	1.521%
JNLIAQR Large Cap Defensive Style Fund	Procter & Gamble Company, The			Equity	34,339	5,947,515	1.411%
JNLIAQR Large Cap Defensive Style Fund	RenaissanceRe Holdings Ltd			Equity	1,791	487,868	0.116%
JNLIAQR Large Cap Defensive Style Fund	Microsoft Corporation			Equity	7,462	3,210,516	0.751%
JNLIAQR Large Cap Defensive Style Fund	Everest Group Ltd.			Equity	6,904	2,705,194	0.642%
JNLIAQR Large Cap Defensive Style Fund	The Progressive Corporation			Equity	22,288	5,655,803	1.341%
JNLIAQR Large Cap Defensive Style Fund	Telefonos Tecnologias Incorporated			Equity	961	420,591	0.100%
JNLIAQR Large Cap Defensive Style Fund	Northrop Grumman Corporation			Equity	5,634	4,975,146	1.092%
JNLIAQR Large Cap Defensive Style Fund	Rollins, Inc.			Equity	8,341	421,888	0.100%
JNLIAQR Large Cap Defensive Style Fund	Market Group Inc.			Equity	236	370,185	0.088%
JNLIAQR Large Cap Defensive Style Fund	Slraker Corporation			Equity	1,539	557,210	0.132%
JNLIAQR Large Cap Defensive Style Fund	Vetivex Pharmaceuticals Incorporated			Equity	11,729	5,454,923	1.246%
JNLIAQR Large Cap Defensive Style Fund	Union Pacific Corporation			Equity	8,733	2,152,510	0.510%
JNLIAQR Large Cap Defensive Style Fund	Thermo Fisher Scientific Inc.			Equity	2,267	1,403,182	0.333%
JNLIAQR Large Cap Defensive Style Fund	Walmart Inc.			Equity	84,112	6,792,044	1.611%
JNLIAQR Large Cap Defensive Style Fund	Chevron Corporation			Equity	17,449	2,669,714	0.609%
JNLIAQR Large Cap Defensive Style Fund	Westindhouse Air Brake Technologies Corporation			Equity	756	137,413	0.033%
JNLIAQR Large Cap Defensive Style Fund	Cencora, Inc.			Equity	10,526	2,369,192	0.562%
JNLIAQR Large Cap Defensive Style Fund	UnitedHealth Group Incorporated			Equity	9,984	5,837,445	1.384%
JNLIAQR Large Cap Defensive Style Fund	AT&T Inc.			Equity	269,550	5,930,100	1.406%
JNLIAQR Large Cap Defensive Style Fund	The J. M. Smucker Company			Equity	2,480	524,528	0.123%
JNLIAQR Large Cap Defensive Style Fund	Waste Management, Inc.			Equity	27,462	570,111	1.352%
JNLIAQR Large Cap Defensive Style Fund	Synovus, Inc.			Equity	1,852	937,834	0.222%
JNLIAQR Large Cap Defensive Style Fund	Williams-Sonoma, Inc.			Equity	10,296	1,595,056	0.378%
JNLIAQR Large Cap Defensive Style Fund	CME Group Inc.			Equity	27,364	6,037,867	1.432%
JNLIAQR Large Cap Defensive Style Fund	TXJ Companies, Inc., The			Equity	22,361	2,628,312	0.623%
JNLIAQR Large Cap Defensive Style Fund	Amylin Pharmaceuticals, Inc.			Equity	1,377	378,716	0.090%
JNLIAQR Large Cap Defensive Style Fund	Dolby Laboratories, Inc.			Equity	24,953	1,909,653	0.453%
JNLIAQR Large Cap Defensive Style Fund	MasterCard Incorporated			Equity	13,201	6,520,135	1.546%
JNLIAQR Large Cap Defensive Style Fund	Chipotle Mexican Grill, Inc.			Equity	44,050	2,538,161	0.602%
JNLIAQR Large Cap Defensive Style Fund	Ulta Beauty, Inc.			Equity	321	124,908	0.030%
JNLIAQR Large Cap Defensive Style Fund	Marathon Petroleum Corporation			Equity	3,349	1,523,046	0.361%
JNLIAQR Large Cap Defensive Style Fund	CRIC Global Markets, Inc.			Equity	30,170	6,180,928	1.468%
JNLIAQR Large Cap Defensive Style Fund	Accenture Public Limited Company			Equity	10,639	3,760,674	0.892%
JNLIAQR Large Cap Defensive Style Fund	O'Reilly Automotive, Inc.			Equity	5,236	6,029,778	1.430%
JNLIAQR Large Cap Defensive Style Fund	Motorola Solutions, Inc.			Equity	814	366,797	0.087%
JNLIAQR Large Cap Defensive Style Fund	Fortinet, Inc.			Equity	8,132	430,637	0.106%
JNLIAQR Large Cap Defensive Style Fund	Phillips 66			Equity	8,872	1,166,224	0.277%
JNLIAQR Large Cap Defensive Style Fund	Grand Canyon Education, Inc.			Equity	2,113	299,729	0.071%
JNLIAQR Large Cap Defensive Style Fund	Via Inc.			Equity	22,281	6,126,161	1.453%
JNLIAQR Large Cap Defensive Style Fund	Versis Analytics, Inc.			Equity	5,395	1,455,444	0.343%
JNLIAQR Large Cap Defensive Style Fund	Garmin Ltd.			Equity	18,800	3,309,364	0.785%
JNLIAQR Large Cap Defensive Style Fund	Chubb Limited			Equity	21,505	6,221,397	1.475%
JNLIAQR Large Cap Defensive Style Fund	Philip Morris International Inc.			Equity	49,121	6,029,603	1.430%
JNLIAQR Large Cap Defensive Style Fund	Mesa Platforms, Inc.			Equity	11,843	6,779,407	1.608%
JNLIAQR Large Cap Defensive Style Fund	Kinsale Capital Group, Inc.			Equity	706	528,626	0.078%
JNLIAQR Large Cap Defensive Style Fund	Duke Energy Corporation			Equity	16,471	1,899,106	0.450%
JNLIAQR Large Cap Defensive Style Fund	Medpace Holdings, Inc.			Equity	2,724	909,271	0.216%
JNLIAQR Large Cap Defensive Style Fund	T-Mobile US, Inc.			Equity	15,581	3,215,295	0.763%
JNLIAQR Large Cap Defensive Style Fund	Mondelez International, Inc.			Equity	68,992	5,115,967	1.213%
JNLIAQR Large Cap Defensive Style Fund	AbbVie Inc.			Equity	12,962	2,559,736	0.607%
JNLIAQR Large Cap Defensive Style Fund	Palo Alto Networks, Inc.			Equity	854	291,897	0.069%
JNLIAQR Large Cap Defensive Style Fund	Exxon Corporation Public Limited Company			Equity	800	265,152	0.063%
JNLIAQR Large Cap Defensive Style Fund	The Cigna Group			Equity	3,362	1,354,731	0.276%
JNLIAQR Large Cap Defensive Style Fund	Leidos Holdings, Inc.			Equity	6,593	1,074,659	0.255%
JNLIAQR Large Cap Defensive Style Fund	Booking Holdings Inc.			Equity	902	3,799,332	0.901%
JNLIAQR Large Cap Defensive Style Fund	Veeva Systems Inc.			Equity	3,109	652,485	0.155%
JNLIAQR Large Cap Defensive Style Fund	Intercontinental Exchange, Inc.			Equity	1,543	1,047,868	0.249%
JNLIAQR Large Cap Defensive Style Fund	Arista Networks, Inc.			Equity	6,541	2,510,567	0.595%
JNLIAQR Large Cap Defensive Style Fund	Spotify Technology S.A.			Equity	1,377	507,466	0.120%
JNLIAQR Large Cap Defensive Style Fund	Kraft Heinz Company, The			Equity	57,499	2,018,790	0.479%
JNLIAQR Large Cap Defensive Style Fund	Elevance Health, Inc.			Equity	6,461	3,370,120	0.799%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/AQR Large Cap Defensive Style Fund	Alphabet Inc.			Equity	34,455	5,714,362	1.355%
JNL/AQR Large Cap Defensive Style Fund	Monster Beverage 1990 Corporation			Equity	80,579	4,203,805	0.997%
JNL/AQR Large Cap Defensive Style Fund	Nutrisia, Inc.			Equity	1,890	287,955	0.068%
JNL/AQR Large Cap Defensive Style Fund	Medtronic, Inc.			Equity	12,507	1,134,760	0.269%
JNL/AQR Large Cap Defensive Style Fund	Pinterest, Inc.			Equity	7,357	238,146	0.056%
JNL/AQR Large Cap Defensive Style Fund	CrowdStrike Holdings, Inc.			Equity	4,941	1,985,802	0.320%
JNL/AQR Large Cap Defensive Style Fund	Linde Public Limited Company			Equity	7,810	3,724,277	0.883%
JNL/AQR Large Cap Defensive Style Fund	Crane Company			Equity	1,089	172,367	0.041%
Total Non Derivatives						421,472,069	
Derivatives							
JNL/AQR Large Cap Defensive Style Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	25	187,238	0.044%
Total Derivatives						187,238	
Total All Investments						421,659,307	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Bailie Gifford International Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	14,251,820	14,278,295	1.872%
JNL/Bailie Gifford International Growth Fund	WuXi Biologics (Cayman) Inc.			Equity	1,673,500	3,683,527	0.483%
JNL/Bailie Gifford International Growth Fund	Couang, Inc.			Equity	1,101,761	27,048,233	3.546%
JNL/Bailie Gifford International Growth Fund	Jumia Technologies AG			Equity	161,368	861,705	0.113%
JNL/Bailie Gifford International Growth Fund	Vestas Wind Systems A/S			Equity	510,016	11,236,420	1.473%
JNL/Bailie Gifford International Growth Fund	Full Truck Alliance Co. Ltd.			Equity	314,627	2,834,740	0.372%
JNL/Bailie Gifford International Growth Fund	Meituan			Equity	1,382,240	29,427,464	3.858%
JNL/Bailie Gifford International Growth Fund	Autostore Holdings Ltd			Equity	2,067,241	2,109,649	0.277%
JNL/Bailie Gifford International Growth Fund	NU Holdings Ltd.			Equity	1,533,512	20,932,439	2.744%
JNL/Bailie Gifford International Growth Fund	Wise PLC			Equity	1,069,508	9,600,139	1.259%
JNL/Bailie Gifford International Growth Fund	Atlas Copco Aktiebolag			Equity	1,397,312	27,059,896	3.548%
JNL/Bailie Gifford International Growth Fund	Atlasian Corporation			Equity	24,346	3,866,388	0.507%
JNL/Bailie Gifford International Growth Fund	Mobileye Global Inc.			Equity	126,711	1,735,941	0.228%
JNL/Bailie Gifford International Growth Fund	Elastic N.V.			Equity	137,564	10,559,413	1.384%
JNL/Bailie Gifford International Growth Fund	NVIDIA Corporation			Equity	180,031	21,864,786	2.867%
JNL/Bailie Gifford International Growth Fund	Ilumina, Inc.			Equity	37,040	4,830,386	0.633%
JNL/Bailie Gifford International Growth Fund	Microsoft Corporation			Equity	33,135	14,257,991	1.869%
JNL/Bailie Gifford International Growth Fund	L'Oréal			Equity	31,197	13,966,301	1.831%
JNL/Bailie Gifford International Growth Fund	Gemrab A/S			Equity	44,103	10,706,803	1.404%
JNL/Bailie Gifford International Growth Fund	Kering			Equity	12,177	3,485,190	0.457%
JNL/Bailie Gifford International Growth Fund	Hermes International			Equity	4,558	11,197,909	1.468%
JNL/Bailie Gifford International Growth Fund	BYD Company Limited			Equity	612,000	22,039,590	2.889%
JNL/Bailie Gifford International Growth Fund	SBI Holdings, Inc.			Equity	105,500	2,460,129	0.323%
JNL/Bailie Gifford International Growth Fund	Moderna, Inc.			Equity	188,342	12,586,896	1.650%
JNL/Bailie Gifford International Growth Fund	Temenos AG			Equity	48,271	3,383,387	0.444%
JNL/Bailie Gifford International Growth Fund	Nidec Corporation			Equity	181,800	3,849,080	0.504%
JNL/Bailie Gifford International Growth Fund	SMC Corporation			Equity	9,000	4,030,048	0.528%
JNL/Bailie Gifford International Growth Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	1,130,000	34,431,823	4.514%
JNL/Bailie Gifford International Growth Fund	MercadoLibre, Inc.			Equity	25,312	51,939,212	6.809%
JNL/Bailie Gifford International Growth Fund	Physian S.p.A.			Equity	78,183	5,664,678	0.743%
JNL/Bailie Gifford International Growth Fund	DSV A/S			Equity	23,669	4,883,088	0.640%
JNL/Bailie Gifford International Growth Fund	AIA Group Limited			Equity	1,657,800	14,424,321	1.891%
JNL/Bailie Gifford International Growth Fund	Tesla Inc.			Equity	20,784	5,437,718	0.713%
JNL/Bailie Gifford International Growth Fund	Ocado Group PLC			Equity	881,493	4,541,192	0.595%
JNL/Bailie Gifford International Growth Fund	Ferrari N.V.			Equity	15,488	26,000,883	3.409%
JNL/Bailie Gifford International Growth Fund	ASML Holding N.V.			Equity	35,768	29,880,455	3.917%
JNL/Bailie Gifford International Growth Fund	Sea Limited			Equity	179,812	16,952,675	2.223%
JNL/Bailie Gifford International Growth Fund	Wix Com Ltd			Equity	71,901	12,019,690	1.576%
JNL/Bailie Gifford International Growth Fund	Delkey Hero SE			Equity	223,625	9,041,500	1.185%
JNL/Bailie Gifford International Growth Fund	Tencent Holdings Limited			Equity	281,600	15,833,199	2.050%
JNL/Bailie Gifford International Growth Fund	Umicore			Equity	239,879	3,118,159	0.409%
JNL/Bailie Gifford International Growth Fund	WiseTech Global Limited			Equity	220,517	21,048,230	2.759%
JNL/Bailie Gifford International Growth Fund	Spotify Technology S.A.			Equity	110,493	40,719,885	5.338%
JNL/Bailie Gifford International Growth Fund	Exor Nederland N.V.			Equity	144,203	15,484,047	2.030%
JNL/Bailie Gifford International Growth Fund	Shopify Inc.			Equity	179,183	14,359,726	1.883%
JNL/Bailie Gifford International Growth Fund	SolarEdge Technologies Ltd.			Equity	26,006	595,797	0.078%
JNL/Bailie Gifford International Growth Fund	Adyen N.V.			Equity	24,078	37,729,886	4.946%
JNL/Bailie Gifford International Growth Fund	Santorus Aktiengesellschaft			Equity	32,440	9,120,190	1.196%
JNL/Bailie Gifford International Growth Fund	Advantest Corporation			Equity	155,200	7,332,962	0.961%
JNL/Bailie Gifford International Growth Fund	Zealand Pharma A/S			Equity	31,528	3,842,614	0.504%
JNL/Bailie Gifford International Growth Fund	Sotek			Equity	24,794	2,468,868	0.324%
JNL/Bailie Gifford International Growth Fund	HDFC Bank Limited			Equity	494,036	10,160,063	1.332%
JNL/Bailie Gifford International Growth Fund	MakeMyTrip Limited			Equity	43,255	4,020,552	0.527%
JNL/Bailie Gifford International Growth Fund	argenx SE			Equity	39,977	21,595,141	2.831%
JNL/Bailie Gifford International Growth Fund	Ambo A/S			Equity	386,452	7,583,823	0.994%
JNL/Bailie Gifford International Growth Fund	Pinduoduo (Shanghai) Network Technology Co., Ltd.			Equity	179,963	24,260,812	3.181%
JNL/Bailie Gifford International Growth Fund	VAT Group AG			Equity	15,503	7,906,251	1.037%
JNL/Bailie Gifford International Growth Fund	Ganfeng Lithium Group Co., Ltd			Equity	483,600	1,375,538	0.180%
JNL/Bailie Gifford International Growth Fund	Novo Nordisk A/S			Equity	19,206	2,275,925	0.298%
JNL/Bailie Gifford International Growth Fund	Kinnevik AB			Equity	372,431	3,025,771	0.397%
Total Non Derivatives						762,764,670	
Derivatives							
Total Derivatives						0	
Total All Investments						762,764,670	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Baillie Gifford U.S. Equity Growth Fund	Cash			Cash Equivalent	10	10	0.000%
JNL/Baillie Gifford U.S. Equity Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	128,006	126,465	0.859%
JNL/Baillie Gifford U.S. Equity Growth Fund	DoorDash, Inc.			Equity	6,557	935,881	4.875%
JNL/Baillie Gifford U.S. Equity Growth Fund	Affirm Holdings, Inc.			Equity	7,823	319,335	1.664%
JNL/Baillie Gifford U.S. Equity Growth Fund	Roblox Corporation			Equity	9,741	386,877	2.015%
JNL/Baillie Gifford U.S. Equity Growth Fund	Coursera, Inc.			Equity	12,441	98,782	0.515%
JNL/Baillie Gifford U.S. Equity Growth Fund	Sana Biotechnology, Inc.			Equity	5,344	22,231	0.116%
JNL/Baillie Gifford U.S. Equity Growth Fund	Recursion Pharmaceuticals, Inc.			Equity	7,894	52,021	0.271%
JNL/Baillie Gifford U.S. Equity Growth Fund	Doximity, Inc.			Equity	4,804	209,310	1.090%
JNL/Baillie Gifford U.S. Equity Growth Fund	Doubling, Inc.			Equity	2,177	613,968	3.138%
JNL/Baillie Gifford U.S. Equity Growth Fund	Aurora Innovations Inc.			Equity	50,341	298,019	1.553%
JNL/Baillie Gifford U.S. Equity Growth Fund	Rivian Automotive, Inc.			Equity	6,842	76,767	0.400%
JNL/Baillie Gifford U.S. Equity Growth Fund	Sweetgreen, Inc.			Equity	12,398	439,509	2.290%
JNL/Baillie Gifford U.S. Equity Growth Fund	Samsara Inc.			Equity	6,011	288,248	1.507%
JNL/Baillie Gifford U.S. Equity Growth Fund	ABKMED, Inc.	1/7/2031		Equity	7,980	13,965	0.073%
JNL/Baillie Gifford U.S. Equity Growth Fund	YETI Holdings, Inc.			Equity	3,394	139,256	0.725%
JNL/Baillie Gifford U.S. Equity Growth Fund	Amazon.com, Inc.			Equity	7,847	1,462,132	7.617%
JNL/Baillie Gifford U.S. Equity Growth Fund	CoStar Group, Inc.			Equity	5,075	382,858	1.994%
JNL/Baillie Gifford U.S. Equity Growth Fund	NVIDIA Corporation			Equity	7,902	959,703	5.000%
JNL/Baillie Gifford U.S. Equity Growth Fund	Inspire Medical Systems, Inc.			Equity	1,459	307,922	1.604%
JNL/Baillie Gifford U.S. Equity Growth Fund	Watco, Inc.			Equity	963	473,680	2.468%
JNL/Baillie Gifford U.S. Equity Growth Fund	Nvidia, Inc.			Equity	1,373	973,928	5.073%
JNL/Baillie Gifford U.S. Equity Growth Fund	Moderna, Inc.			Equity	6,458	431,588	2.248%
JNL/Baillie Gifford U.S. Equity Growth Fund	Amylam Pharmaceuticals, Inc.			Equity	1,423	391,368	2.039%
JNL/Baillie Gifford U.S. Equity Growth Fund	Inuslet Corporation			Equity	1,195	278,136	1.449%
JNL/Baillie Gifford U.S. Equity Growth Fund	The Ensign Group, Inc.			Equity	1,239	178,267	0.929%
JNL/Baillie Gifford U.S. Equity Growth Fund	Tesla Inc.			Equity	3,561	931,664	4.854%
JNL/Baillie Gifford U.S. Equity Growth Fund	Meta Platforms, Inc.			Equity	2,039	1,167,205	6.081%
JNL/Baillie Gifford U.S. Equity Growth Fund	Trade Desk, Inc., The			Equity	14,645	1,605,824	8.366%
JNL/Baillie Gifford U.S. Equity Growth Fund	Dendri Therapeutics Inc.			Equity	7,211	210,956	1.094%
JNL/Baillie Gifford U.S. Equity Growth Fund	Workday, Inc.			Equity	2,127	519,860	2.708%
JNL/Baillie Gifford U.S. Equity Growth Fund	Shopify Inc.			Equity	13,828	1,108,176	5.773%
JNL/Baillie Gifford U.S. Equity Growth Fund	Penumbra, Inc.			Equity	678	131,742	0.686%
JNL/Baillie Gifford U.S. Equity Growth Fund	Block, Inc.			Equity	4,146	278,321	1.450%
JNL/Baillie Gifford U.S. Equity Growth Fund	Wayfair Inc.			Equity	4,618	259,438	1.352%
JNL/Baillie Gifford U.S. Equity Growth Fund	Roku Inc.			Equity	3,286	245,333	1.278%
JNL/Baillie Gifford U.S. Equity Growth Fund	Pinterest, Inc.			Equity	10,890	352,509	1.836%
JNL/Baillie Gifford U.S. Equity Growth Fund	Guardant Health, Inc.			Equity	6,485	148,766	0.775%
JNL/Baillie Gifford U.S. Equity Growth Fund	Chewy, Inc.			Equity	7,780	227,876	1.187%
JNL/Baillie Gifford U.S. Equity Growth Fund	Cloudflare, Inc.			Equity	7,672	620,588	3.233%
JNL/Baillie Gifford U.S. Equity Growth Fund	Sprout Social, Inc.			Equity	3,128	90,931	0.474%
JNL/Baillie Gifford U.S. Equity Growth Fund	Datadog, Inc.			Equity	3,362	386,832	2.019%
JNL/Baillie Gifford U.S. Equity Growth Fund	Lemonade, Inc.			Equity	4,367	72,012	0.375%
JNL/Baillie Gifford U.S. Equity Growth Fund	Snowflake Inc.			Equity	1,773	203,647	1.061%
JNL/Baillie Gifford U.S. Equity Growth Fund	Oddity Tech Ltd			Equity	2,779	112,216	0.585%
JNL/Baillie Gifford U.S. Equity Growth Fund	SharkNinja, Inc.			Equity	2,011	218,616	1.139%
JNL/Baillie Gifford U.S. Equity Growth Fund	Tempus AI, Inc.			Equity	5,945	285,547	1.488%
JNL/Baillie Gifford U.S. Equity Growth Fund	Lineage, Inc.			Equity	1,875	147,675	0.769%
JNL/Baillie Gifford U.S. Equity Growth Fund	Ginkgo Bioworks Holdings, Inc.			Equity	1,195	9,739	0.051%
Total Non Derivatives						19,195,691	
Derivatives						0	
Total All Investments						19,195,691	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLBlackRock Global Allocation Fund	Cash			Cash Equivalent	73,187.876	73,187.876	2.500%
JNLBlackRock Global Allocation Fund	Lamar Media Corp.	1/15/2029	4.88	Fixed Income	370,000	366,386	0.013%
JNLBlackRock Global Allocation Fund	Henkel AG & Co. KGaA			Equity	9,395	883,685	0.031%
JNLBlackRock Global Allocation Fund	REI Agro Limited	1/1/2200	5.50	Fixed Income	628,000	3,140	0.000%
JNLBlackRock Global Allocation Fund	REI Agro Limited	1/1/2200	5.50	Fixed Income	185,000	925	0.000%
JNLBlackRock Global Allocation Fund	Petroleo Mexicanos	1/28/2031	5.35	Fixed Income	104,000	91,351	0.003%
JNLBlackRock Global Allocation Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	278,420.196	279,611.386	9.780%
JNLBlackRock Global Allocation Fund	Petrobras S/A Petrobras			Equity	117,085	801,488	0.028%
JNLBlackRock Global Allocation Fund	Morgan Stanley	10/21/2025	0.86	Fixed Income	190,000	180,196	0.007%
JNLBlackRock Global Allocation Fund	United Wholesale Mortgage, LLC	11/15/2025	5.30	Fixed Income	100,000	102,150	0.004%
JNLBlackRock Global Allocation Fund	MGM Resorts International	10/15/2028	4.75	Fixed Income	100,000	100,190	0.004%
JNLBlackRock Global Allocation Fund	Las Vegas Sands Corp.	8/8/2029	3.90	Fixed Income	100,000	95,609	0.003%
JNLBlackRock Global Allocation Fund	The Chemours Company	11/15/2028	5.75	Fixed Income	100,000	97,081	0.003%
JNLBlackRock Global Allocation Fund	GFL Environmental Inc.	8/1/2028	4.00	Fixed Income	486,000	451,329	0.017%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/24/2031	2.66	Fixed Income	200,000	173,797	0.006%
JNLBlackRock Global Allocation Fund	NRG Energy, Inc.	2/15/2029	3.38	Fixed Income	100,000	93,675	0.003%
JNLBlackRock Global Allocation Fund	NRG Energy, Inc.	2/15/2031	3.63	Fixed Income	100,000	91,133	0.003%
JNLBlackRock Global Allocation Fund	Frontier Communications Parent, Inc.	5/1/2028	5.33	Fixed Income	100,000	202,425	0.007%
JNLBlackRock Global Allocation Fund	Frontier Communications Parent, Inc.	5/1/2029	6.75	Fixed Income	340,000	352,008	0.012%
JNLBlackRock Global Allocation Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	12/1/2032	1.86	Fixed Income	163,000	131,945	0.005%
JNLBlackRock Global Allocation Fund	Service Properties Trust	2/15/2030	4.38	Fixed Income	273,000	208,461	0.007%
JNLBlackRock Global Allocation Fund	Bancolombia SA			Equity	1,660	53,494	0.002%
JNLBlackRock Global Allocation Fund	H&E Equipment Services, Inc.	12/15/2028	3.88	Fixed Income	336,000	319,144	0.011%
JNLBlackRock Global Allocation Fund	AngloGold Ashanti Holdings PLC	10/1/2030	3.75	Fixed Income	292,000	276,863	0.010%
JNLBlackRock Global Allocation Fund	Big River Steel LLC	1/31/2029	6.63	Fixed Income	420,000	430,194	0.015%
JNLBlackRock Global Allocation Fund	Verrillone Systems, Inc.	9/8/2025	9.33	Fixed Income	708,823	652,616	0.023%
JNLBlackRock Global Allocation Fund	Service Properties Trust	1/15/2028	3.95	Fixed Income	100,000	87,315	0.003%
JNLBlackRock Global Allocation Fund	Wells Fargo Commercial Mortgage Trust 2020-C58	7/1/2053	1.92	Fixed Income	4,850,288	396,408	0.014%
JNLBlackRock Global Allocation Fund	BAMLL Commercial Mortgage Securities Trust 2015-200P	4/16/2025	3.72	Fixed Income	130,000	126,921	0.004%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2020-VKNG	9/8/2025	6.63	Fixed Income	147,000	144,677	0.005%
JNLBlackRock Global Allocation Fund	Community Loan Servicing, LLC	11/25/2031	6.88	Fixed Income	41,498	41,980	0.001%
JNLBlackRock Global Allocation Fund	Bayview Commercial Asset Trust 2006-3	10/27/2036	5.48	Fixed Income	42,503	40,901	0.001%
JNLBlackRock Global Allocation Fund	Bank of Ireland Group Public Limited Company	1/1/2200	6.00	Fixed Income	429,000	483,349	0.017%
JNLBlackRock Global Allocation Fund	Departamento Administrativo De La Presidencia De La Republica	1/28/2026	4.50	Fixed Income	279,000	278,190	0.010%
JNLBlackRock Global Allocation Fund	Dorcoash, Inc.			Equity	7,839	1,119,218	0.039%
JNLBlackRock Global Allocation Fund	Presidencia de la Republica Dominicana	1/25/2027	5.95	Fixed Income	324,000	332,422	0.012%
JNLBlackRock Global Allocation Fund	Enlink Midstream, LLC	1/15/2028	5.63	Fixed Income	100,000	103,637	0.004%
JNLBlackRock Global Allocation Fund	Asciant Resources - Utica, LLC	12/31/2028	8.25	Fixed Income	100,000	103,773	0.004%
JNLBlackRock Global Allocation Fund	Affinity Interactive	12/15/2027	6.88	Fixed Income	285,000	285,000	0.010%
JNLBlackRock Global Allocation Fund	GS Mortgage Securities Trust 2020-GSA2	12/12/2053	1.82	Fixed Income	976,233	73,444	0.003%
JNLBlackRock Global Allocation Fund	Yang Ming Marine Transport Corporation			Equity	183,000	401,360	0.014%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	12/25/2029	1.47	Fixed Income	1,350,354	69,011	0.002%
JNLBlackRock Global Allocation Fund	SBA Communications Corporation	2/15/2027	3.88	Fixed Income	100,000	97,924	0.003%
JNLBlackRock Global Allocation Fund	Home Depot, Inc., The	3/15/2051	2.38	Fixed Income	1,135,000	714,456	0.025%
JNLBlackRock Global Allocation Fund	Studio City Finance Limited	1/15/2029	5.00	Fixed Income	400,000	371,825	0.013%
JNLBlackRock Global Allocation Fund	BX Trust 2021-MFM1	1/15/2034	7.46	Fixed Income	357,000	352,386	0.012%
JNLBlackRock Global Allocation Fund	BX Trust 2021-MFM1	1/15/2034	8.23	Fixed Income	546,000	542,307	0.019%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	5/25/2029	0.94	Fixed Income	9,086,289	257,020	0.009%
JNLBlackRock Global Allocation Fund	Morgan Stanley Capital I Trust 2018-MP	7/13/2028	4.42	Fixed Income	338,000	309,856	0.011%
JNLBlackRock Global Allocation Fund	BlueMountain CLO XXI Ltd	7/15/2031	7.06	Fixed Income	251,740	255,781	0.009%
JNLBlackRock Global Allocation Fund	Outfront Media Capital Corporation	1/15/2029	4.25	Fixed Income	100,000	96,145	0.003%
JNLBlackRock Global Allocation Fund	Home Point Capital Inc.	2/1/2026	5.00	Fixed Income	141,000	141,494	0.005%
JNLBlackRock Global Allocation Fund	Dryden 50 Senior Loan Fund	7/15/2030	7.21	Fixed Income	250,000	254,234	0.009%
JNLBlackRock Global Allocation Fund	Lumen Technologies Inc.			Equity	110,230	782,633	0.027%
JNLBlackRock Global Allocation Fund	Murphy Oil USA, Inc.	2/15/2031	3.75	Fixed Income	100,000	90,581	0.003%
JNLBlackRock Global Allocation Fund	U.S. Foods Inc.	2/15/2029	4.75	Fixed Income	200,000	196,370	0.007%
JNLBlackRock Global Allocation Fund	AMC Networks, Inc.	2/15/2029	4.25	Fixed Income	827,000	602,365	0.021%
JNLBlackRock Global Allocation Fund	CIFC Funding 2014-III, Ltd.	10/22/2031	7.34	Fixed Income	350,000	355,551	0.012%
JNLBlackRock Global Allocation Fund	GCT Commercial Mortgage Trust 2021-GCT	2/15/2038	7.56	Fixed Income	120,000	6,959	0.000%
JNLBlackRock Global Allocation Fund	Benchmark 2021-B23 Mortgage Trust	2/18/2054	1.37	Fixed Income	8,309,407	253,927	0.009%
JNLBlackRock Global Allocation Fund	Full House Resorts, Inc.	2/15/2028	8.25	Fixed Income	46,000	46,533	0.002%
JNLBlackRock Global Allocation Fund	SMB Private Education Loan Trust 2021-A	1/15/2053	2.99	Fixed Income	1,403,143	1,182,687	0.041%
JNLBlackRock Global Allocation Fund	AMS-Oreum AG	11/3/2027	2.13	Fixed Income	1,100,000	993,064	0.035%
JNLBlackRock Global Allocation Fund	TCP CLO V 2016-2, Ltd.	1/1/2034	6.68	Fixed Income	250,000	253,927	0.009%
JNLBlackRock Global Allocation Fund	Tesco PLC			Equity	109,431	525,251	0.018%
JNLBlackRock Global Allocation Fund	Recette CLO, Ltd.	4/20/2034	6.94	Fixed Income	250,000	253,520	0.009%
JNLBlackRock Global Allocation Fund	Teva Pharmaceutical Finance Netherlands II B.V.	3/31/2027	1.88	Fixed Income	328,000	349,202	0.012%
JNLBlackRock Global Allocation Fund	Inturon AB	9/15/2029	3.00	Fixed Income	541,000	553,489	0.019%
JNLBlackRock Global Allocation Fund	TK Elevator Holdco GmbH	7/15/2028	6.63	Fixed Income	553,500	622,242	0.022%
JNLBlackRock Global Allocation Fund	Avis Budget Car Rental, LLC	3/1/2029	5.38	Fixed Income	100,000	93,937	0.003%
JNLBlackRock Global Allocation Fund	Mobico Group PLC	1/1/2200	4.25	Fixed Income	107,000	132,906	0.005%
JNLBlackRock Global Allocation Fund	Loxama	7/15/2027	5.75	Fixed Income	841,000	722,810	0.026%
JNLBlackRock Global Allocation Fund	Virgin Media Vendor Financing Notes II Designated Activity Company	7/15/2028	4.88	Fixed Income	1,528,000	1,906,689	0.067%
JNLBlackRock Global Allocation Fund	Comstock Resources, Inc.	3/1/2029	6.75	Fixed Income	200,000	196,622	0.007%
JNLBlackRock Global Allocation Fund	The Arab Republic of Egypt	2/16/2061	7.50	Fixed Income	200,000	146,375	0.005%
JNLBlackRock Global Allocation Fund	Battalion CLO X Ltd	1/25/2035	7.09	Fixed Income	250,000	253,285	0.009%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	1/25/2030	1.64	Fixed Income	1,723,401	115,289	0.004%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2020-VIV4	3/11/2030	2.84	Fixed Income	236,696	215,000	0.008%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	7/25/2030	1.52	Fixed Income	1,204,980	79,560	0.003%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	10/25/2030	1.63	Fixed Income	7,675,391	387,374	0.014%
JNLBlackRock Global Allocation Fund	OCF CLO 2014-S, Ltd.	4/28/2031	6.94	Fixed Income	200,000	202,649	0.007%
JNLBlackRock Global Allocation Fund	Charles River Laboratories International, Inc.	3/15/2029	3.75	Fixed Income	100,000	94,267	0.003%
JNLBlackRock Global Allocation Fund	Signal Peak CLO 8 Ltd	4/20/2033	7.19	Fixed Income	250,000	253,894	0.009%
JNLBlackRock Global Allocation Fund	American Airlines, Inc.	4/20/2026	5.50	Fixed Income	87,500	88,196	0.003%
JNLBlackRock Global Allocation Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	100,000	94,011	0.004%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	4/25/2030	1.81	Fixed Income	1,382,211	104,328	0.004%
JNLBlackRock Global Allocation Fund	Deutsche Bank Aktiengesellschaft	1/1/2200	4.79	Fixed Income	400,000	396,082	0.014%
JNLBlackRock Global Allocation Fund	Federal Home Loan Mortgage Corporation	4/25/2030	1.89	Fixed Income	2,365,377	169,567	0.006%
JNLBlackRock Global Allocation Fund	AL-ET 2021-ACEN Mortgage Trust	8/1/2026	8.31	Fixed Income	87,000	552,046	0.020%
JNLBlackRock Global Allocation Fund	Tempur Sealy International, Inc.	4/15/2029	4.00	Fixed Income	100,000	95,031	0.003%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc.	3/15/2027	6.88	Fixed Income	1,527,000	1,522,079	0.053%
JNLBlackRock Global Allocation Fund	TEGNA Inc.	3/15/2028	4.63	Fixed Income	100,000	96,126	0.003%
JNLBlackRock Global Allocation Fund	Invesco S&P 500 Equal Weight ETF			Fund	22,201	3,956,285	0.149%
JNLBlackRock Global Allocation Fund	Arbor Multifamily Mortgage Securities Trust 2020-MF1	4/15/2030	1.75	Fixed Income	257,012	196,186	0.007%
JNLBlackRock Global Allocation Fund	Yum! Brands, Inc.	1/31/2032	4.63	Fixed Income	200,000	196,226	0.007%
JNLBlackRock Global Allocation Fund	Yuma CLO 2017-3 Ltd	4/20/2034	6.58	Fixed Income	150,000	151,974	0.005%
JNLBlackRock Global Allocation Fund	Hikma Pharmaceuticals Public Limited Company			Equity	19,383	119,454	0.004%
JNLBlackRock Global Allocation Fund	Rakus Co., Ltd.			Equity	76,302	1,188,402	0.042%
JNLBlackRock Global Allocation Fund	MGM China Holdings Limited	2/1/2027	4.75	Fixed Income	200,000	196,008	0.007%
JNLBlackRock Global Allocation Fund	Elmwood CLO I Ltd	4/20/2034	7.19	Fixed Income	350,000	355,559	0.012%
JNLBlackRock Global Allocation Fund	Shares Broad USD High Yield Corporate Bond ETF			Fund	274,773	10,345,429	0.382%
JNLBlackRock Global Allocation Fund	Parkland Corporation	10/1/2029	4.50	Fixed Income	100,000	96,889	0.003%
JNLBlackRock Global Allocation Fund	National Bank of Greece SA			Equity	14,783	126,551	0.004%
JNLBlackRock Global Allocation Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-MHC	4/15/2026	7.66	Fixed Income	1,190,000	1,188,114	0.042%
JNLBlackRock Global Allocation Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2021-MHC	4/15/2026	6.16	Fixed Income	520,000	517,020	0.018%
JNLBlackRock Global Allocation Fund	CIFC Funding Ltd 2015-1	12/22/2031	6.94	Fixed Income	250,000	253,583	0.009%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	6.31	Fixed Income	698,060	682,936	0.024%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	6.56	Fixed Income	1,075,051	1,041,816	0.036%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	6.81	Fixed Income	799,334	769,107	0.027%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	7.31	Fixed Income	691,311	667,248	0.023%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	8.11	Fixed Income	661,422	638,980	0.022%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	9.01	Fixed Income	756,874	735,860	0.026%
JNLBlackRock Global Allocation Fund	BSS1 2021-SSCP Mortgage Trust	4/15/2036	10.11	Fixed Income	530,294	516,611	0.018%
JNLBlackRock Global Allocation Fund	News Corporation	9/15/2029	3.88	Fixed Income	100,000	96,040	0.003%
JNLBlackRock Global Allocation Fund	Organon & Co.	4/30/2031	5.13	Fixed Income	500,000	481,321	0.017%
JNLBlackRock Global Allocation Fund	MHC Commercial Mortgage Trust 2021-MHC	4/15/2026	7.31	Fixed Income	1,280,965	1,277,976	0.045%
JNLBlackRock Global Allocation Fund	MHC Commercial Mortgage Trust 2021-MHC	4/15/2026	7.81	Fixed Income	143,448	143,051	0.005%
JNLBlackRock Global Allocation Fund	CrownRock LP	5/1/2029	5.00	Fixed Income	100,000	103,260	0.004%
JNLBlackRock Global Allocation Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2026	4.38	Fixed Income	100,000	100,514	0.004%
JNLBlackRock Global Allocation Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	4.63	Fixed Income	100,000	98,754	0.003%
JNLBlackRock Global Allocation Fund	Colby Inc.	4/15/2026	5.00	Fixed Income	100,000	101,885	0.004%
JNLBlackRock Global Allocation Fund	Marvell Technology, Inc.			Equity	53,117	8,835,125	0.314%
JNLBlackRock Global Allocation Fund	Genius Sports Limited			Equity	107,095	839,625	0.029%
JNLBlackRock Global Allocation Fund	Kenbourne Invest S.A.	11/26/2024	6.88	Fixed Income	278,000	168,690	0.006%
JNLBlackRock Global Allocation Fund	Jazz Securities Designated Activity Company	1/15/2029	4.38	Fixed Income	200,000	195,331	0.007%
JNLBlackRock Global Allocation Fund	Ven Hai Lines Ltd			Equity	185,000	176,591	0.006%
JNLBlackRock Global Allocation Fund	Vestas Wind Systems A/S			Equity	69,601	1,533,415	0.054%
JNLBlackRock Global Allocation Fund	DBGS 2018-BIOD Mortgage Trust	5/15/2035	6.69	Fixed Income	236,623	234,665	0.008%
JNLBlackRock Global Allocation Fund	Wells Fargo Commercial Mortgage Trust 2021-C59	4/17/2054	1.64	Fixed Income	2,830,863	196,254	0.007%
JNLBlackRock Global Allocation Fund	Accellis Institute	5/25/2036	6.63	Fixed Income	158,554	156,028	0.006%
JNLBlackRock Global Allocation Fund	3&3 Ventures Gaming, LLC	4/7/2029	9.38	Fixed Income	632,065	630,140	0.022%
JNLBlackRock Global Allocation Fund	Battalion CLO XX Ltd.	7/17/2034	6.74	Fixed Income	285,165	289,807	0.010%
JNLBlackRock Global Allocation Fund	Dana Incorporated	9/1/2030	4.25	Fixed Income	100,000	90,020	0.003%
JNLBlackRock Global Allocation Fund	Frontier North Inc.	2/15/2028	6.73	Fixed Income	100,000	182,788</	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Navient Private Education Loan Trust 2021-D	4/15/2060	3.48	Fixed Income	1,150,000	1,071,903	0.037%
JNLBlackRock Global Allocation Fund	Navient Private Education Loan Trust 2021-D	4/15/2060	4.13	Fixed Income	370,000	341,546	0.012%
JNLBlackRock Global Allocation Fund	Cambridge Trust Company	12/15/2037	7.54	Fixed Income	129,656	129,929	0.009%
JNLBlackRock Global Allocation Fund	Paayya AI Debt Selection Trust	1/25/2029	3.00	Fixed Income	195,192	194,976	0.007%
JNLBlackRock Global Allocation Fund	Neinet Student Loan Trust 2021-A	4/20/2062	4.93	Fixed Income	930,000	810,835	0.028%
JNLBlackRock Global Allocation Fund	Sageate Technology Holdings Public Limited Company			Equity	9,244	1,018,966	0.036%
JNLBlackRock Global Allocation Fund	Allied Universal Holdings LLC	5/4/2028	9.10	Fixed Income	427,897	423,632	0.015%
JNLBlackRock Global Allocation Fund	Lithia Motors, Inc.	6/1/2029	3.88	Fixed Income	100,000	94,646	0.003%
JNLBlackRock Global Allocation Fund	Progress Residential 2021-SFR3 Trust	5/19/2026	3.44	Fixed Income	419,248	397,671	0.014%
JNLBlackRock Global Allocation Fund	Marcom S.S.A.	11/15/2026	6.13	Fixed Income	926,000	1,054,252	0.037%
JNLBlackRock Global Allocation Fund	BeGene, Ltd.			Equity	18,700	339,397	0.012%
JNLBlackRock Global Allocation Fund	Hilton Grand Vacations Borrower LLC	12/31/2049		Fixed Income	292,306	290,298	0.010%
JNLBlackRock Global Allocation Fund	Hilton Grand Vacations Borrower LLC	6/1/2029	5.00	Fixed Income	200,000	193,342	0.007%
JNLBlackRock Global Allocation Fund	Genius Electronic Optical Co., Ltd.			Equity	63,580	980,245	0.034%
JNLBlackRock Global Allocation Fund	Intesa Sanpaolo SPA	6/1/2032	4.20	Fixed Income	200,000	181,240	0.006%
JNLBlackRock Global Allocation Fund	SMB Private Education Loan Trust 2021-C	1/15/2053	2.30	Fixed Income	204,741	195,830	0.007%
JNLBlackRock Global Allocation Fund	SMB Private Education Loan Trust 2021-C	1/15/2053	3.00	Fixed Income	121,104	109,375	0.004%
JNLBlackRock Global Allocation Fund	SMB Private Education Loan Trust 2021-C	1/15/2053	3.93	Fixed Income	42,888	39,431	0.001%
JNLBlackRock Global Allocation Fund	OT Midstream, Inc.	6/15/2029	4.13	Fixed Income	100,000	98,973	0.003%
JNLBlackRock Global Allocation Fund	Boyd Gaming Corporation	6/15/2031	4.75	Fixed Income	261,000	249,629	0.009%
JNLBlackRock Global Allocation Fund	OHA Credit Funding 3 Ltd.	7/2/2035	7.19	Fixed Income	255,812	259,985	0.009%
JNLBlackRock Global Allocation Fund	Bip-V Chinnok	6/15/2031	5.50	Fixed Income	300,000	298,942	0.010%
JNLBlackRock Global Allocation Fund	GFL Environmental Inc.	6/15/2029	4.75	Fixed Income	100,000	99,863	0.003%
JNLBlackRock Global Allocation Fund	Deuce Finco PLC	6/15/2027	5.50	Fixed Income	971,000	1,293,662	0.045%
JNLBlackRock Global Allocation Fund	Lutch, Inc.	6/4/2026		Equity	52,569	0	0.000%
JNLBlackRock Global Allocation Fund	Constellation SE			Equity	56,211	913,991	0.032%
JNLBlackRock Global Allocation Fund	Money Forward, Inc.	7/15/2036	4.13	Fixed Income	4,000	453,228	0.009%
JNLBlackRock Global Allocation Fund	Goodleaf Sustainable Home Solutions Trust 2021-3	3/20/2036	2.10	Fixed Income	480,668	385,992	0.014%
JNLBlackRock Global Allocation Fund	Joint Stock Company Kaspi.KZ			Equity	1,751	185,588	0.006%
JNLBlackRock Global Allocation Fund	AGL CLO 5 Ltd	7/20/2034	7.24	Fixed Income	267,388	271,621	0.010%
JNLBlackRock Global Allocation Fund	MFJ 2021-FL6 Ltd	7/18/2036	6.23	Fixed Income	336,517	334,958	0.012%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2021-SOAR	6/15/2039	8.11	Fixed Income	1,231,153	1,226,349	0.043%
JNLBlackRock Global Allocation Fund	Comstock Resources, Inc.	1/15/2030	5.88	Fixed Income	200,000	189,530	0.007%
JNLBlackRock Global Allocation Fund	Hilton Grand Vacations Borrower LLC	7/1/2031	4.88	Fixed Income	116,000	106,792	0.004%
JNLBlackRock Global Allocation Fund	AGL CLO 5 Ltd	7/20/2034	6.94	Fixed Income	250,000	253,523	0.009%
JNLBlackRock Global Allocation Fund	PT Bank Syariah Indonesia TBK			Equity	1,751,700	1,751,700	0.012%
JNLBlackRock Global Allocation Fund	PCF GmbH	4/15/2026	4.75	Fixed Income	210,090	205,503	0.007%
JNLBlackRock Global Allocation Fund	Extended Stay America Trust 2021-ESH	7/15/2038	7.46	Fixed Income	1,939,784	1,946,217	0.068%
JNLBlackRock Global Allocation Fund	Extended Stay America Trust 2021-ESH	7/15/2038	8.06	Fixed Income	1,354,374	1,359,227	0.048%
JNLBlackRock Global Allocation Fund	Confluent, Inc.			Equity	433,934	8,843,576	0.309%
JNLBlackRock Global Allocation Fund	Neinet Student Loan Trust 2021-B	4/20/2062	3.57	Fixed Income	980,000	853,389	0.030%
JNLBlackRock Global Allocation Fund	Ares LV CLO Ltd	7/17/2034	7.26	Fixed Income	424,000	431,062	0.015%
JNLBlackRock Global Allocation Fund	Voya Euro CLO II Designated Activity Company	7/15/2035	5.36	Fixed Income	250,000	281,542	0.010%
JNLBlackRock Global Allocation Fund	DNB Bank ASA			Equity	8,850	181,307	0.006%
JNLBlackRock Global Allocation Fund	Evgo Inc.	7/1/2026		Equity	22,830	7,360	0.000%
JNLBlackRock Global Allocation Fund	Dassault Systemes			Equity	30,052	1,192,652	0.042%
JNLBlackRock Global Allocation Fund	Mercer International Inc.	9/1/2029	5.13	Fixed Income	237,000	204,043	0.007%
JNLBlackRock Global Allocation Fund	The Goodyear Tire & Rubber Company	4/30/2031	5.25	Fixed Income	162,000	149,656	0.005%
JNLBlackRock Global Allocation Fund	PKHL Commercial Mortgage Trust 2021-MF	7/15/2038	8.56	Fixed Income	141,000	89,869	0.003%
JNLBlackRock Global Allocation Fund	Performance Food Group, Inc.	8/1/2029	4.25	Fixed Income	100,000	95,763	0.003%
JNLBlackRock Global Allocation Fund	Benefit Street Partners CLO Ltd	7/20/2034	6.73	Fixed Income	250,000	253,440	0.009%
JNLBlackRock Global Allocation Fund	SREIT 2021-FLWR	7/15/2036	7.13	Fixed Income	501,000	497,197	0.017%
JNLBlackRock Global Allocation Fund	Prodigy Finance CM2021-1 Designated Activity Company	7/25/2051	7.47	Fixed Income	71,407	71,612	0.003%
JNLBlackRock Global Allocation Fund	Prodigy Finance CM2021-1 Designated Activity Company	7/25/2051	8.72	Fixed Income	62,218	62,339	0.002%
JNLBlackRock Global Allocation Fund	Axax Mortgage Loan Trust 2021-E	12/25/2060	1.74	Fixed Income	3,049,614	2,683,084	0.094%
JNLBlackRock Global Allocation Fund	Axax Mortgage Loan Trust 2021-E	12/25/2060	2.69	Fixed Income	502,444	401,205	0.014%
JNLBlackRock Global Allocation Fund	Axax Mortgage Loan Trust 2021-E	12/25/2060	2.94	Fixed Income	202,563	151,265	0.005%
JNLBlackRock Global Allocation Fund	Axax Mortgage Loan Trust 2021-E	12/25/2060	3.31	Fixed Income	332,081	231,281	0.008%
JNLBlackRock Global Allocation Fund	APCOA Parking Holdings GmbH	1/15/2027	8.69	Fixed Income	1,441,000	1,631,714	0.057%
JNLBlackRock Global Allocation Fund	MHP Commercial Mortgage Trust 2021-STOR	7/15/2038	7.96	Fixed Income	602,000	599,242	0.021%
JNLBlackRock Global Allocation Fund	Kakabank Corp			Equity	38,146	619,488	0.022%
JNLBlackRock Global Allocation Fund	DIRECTV Financing, LLC	8/15/2027	5.88	Fixed Income	200,000	197,609	0.007%
JNLBlackRock Global Allocation Fund	Air Canada	8/15/2026	3.88	Fixed Income	121,000	118,460	0.004%
JNLBlackRock Global Allocation Fund	Krafton, Inc.			Equity	1,491	392,472	0.014%
JNLBlackRock Global Allocation Fund	Crescent CRE Notes 2021-FL3, Ltd.	7/15/2039	6.23	Fixed Income	637,166	8,846,541	0.309%
JNLBlackRock Global Allocation Fund	General Electric Company			Equity	2,388	450,998	0.016%
JNLBlackRock Global Allocation Fund	Sirius XM Radio Inc.	9/1/2031	3.88	Fixed Income	100,000	87,424	0.003%
JNLBlackRock Global Allocation Fund	Hippo Holdings Inc.	8/2/2026		Equity	20,169	80,241	0.003%
JNLBlackRock Global Allocation Fund	Vodafone Group Public Limited Company	5/4/2081		Equity	88,000	88,000	0.003%
JNLBlackRock Global Allocation Fund	DirectV Financing, LLC	7/22/2027	10.36	Fixed Income	353,712	353,545	0.012%
JNLBlackRock Global Allocation Fund	Barclays PLC	1/1/2200	4.38	Fixed Income	214,000	191,139	0.007%
JNLBlackRock Global Allocation Fund	TICP CLO XII Ltd.	7/17/2034	7.21	Fixed Income	250,000	254,087	0.009%
JNLBlackRock Global Allocation Fund	Aeroveo Interamericano de Tocumen, S.A.	9/1/2061	5.13	Fixed Income	200,000	159,868	0.005%
JNLBlackRock Global Allocation Fund	Premier Entertainment Sub, LLC	9/1/2029	5.63	Fixed Income	100,000	75,550	0.003%
JNLBlackRock Global Allocation Fund	Premier Entertainment Sub, LLC	9/1/2031	5.88	Fixed Income	100,000	68,751	0.002%
JNLBlackRock Global Allocation Fund	OCF CLO 2020-19, Ltd.	10/20/2034	7.24	Fixed Income	250,000	253,927	0.009%
JNLBlackRock Global Allocation Fund	Neinet Student Loan Trust 2021-C	4/20/2062	3.36	Fixed Income	180,000	111,434	0.004%
JNLBlackRock Global Allocation Fund	American Axle & Manufacturing, Inc.	10/1/2029	5.00	Fixed Income	337,000	316,961	0.011%
JNLBlackRock Global Allocation Fund	AT&T Inc.	9/15/2055	3.55	Fixed Income	698,000	510,114	0.018%
JNLBlackRock Global Allocation Fund	ING Groep N.V.	1/1/2200	3.88	Fixed Income	400,000	366,322	0.013%
JNLBlackRock Global Allocation Fund	Kohls Corporation	4/3/2031	4.63	Fixed Income	100,000	86,175	0.003%
JNLBlackRock Global Allocation Fund	Sunrise Finco B.V.	7/15/2031	4.88	Fixed Income	550,000	526,263	0.018%
JNLBlackRock Global Allocation Fund	Nordstrom, Inc.	8/1/2031	4.25	Fixed Income	100,000	88,967	0.003%
JNLBlackRock Global Allocation Fund	Virgin Media Secured Finance PLC	1/15/2030	4.25	Fixed Income	782,000	941,692	0.033%
JNLBlackRock Global Allocation Fund	Offspring Solutions Inc.	9/1/2026		Equity	34,553	104	0.000%
JNLBlackRock Global Allocation Fund	Pacti Evergreen Group Issuer LLC	10/1/2028	4.38	Fixed Income	268,000	263,191	0.009%
JNLBlackRock Global Allocation Fund	Universal Music Group N.V.			Equity	8,626	226,221	0.008%
JNLBlackRock Global Allocation Fund	Olympus Water US Holding Corporation	10/1/2028	4.25	Fixed Income	357,000	348,330	0.012%
JNLBlackRock Global Allocation Fund	Rocket Mortgage, LLC	10/1/2026	2.88	Fixed Income	100,000	97,357	0.003%
JNLBlackRock Global Allocation Fund	Palladium AI Corp.	9/24/2026		Equity	120,859	3,120	0.000%
JNLBlackRock Global Allocation Fund	J.P. Morgan Mortgage Trust 2021-INV5	7/25/2043	2.50	Fixed Income	2,495,506	2,104,056	0.074%
JNLBlackRock Global Allocation Fund	GS Mortgage Securities Corporation Trust 2021-IP	10/15/2026	6.16	Fixed Income	239,381	237,346	0.008%
JNLBlackRock Global Allocation Fund	Mozart Debt Merger Sub Inc.	4/1/2029	3.88	Fixed Income	200,000	193,217	0.007%
JNLBlackRock Global Allocation Fund	Mozart Debt Merger Sub Inc.	10/1/2029	5.26	Fixed Income	100,000	100,746	0.004%
JNLBlackRock Global Allocation Fund	LUXE Trust 2021-TRIP	10/15/2038	7.97	Fixed Income	190,704	191,159	0.007%
JNLBlackRock Global Allocation Fund	Mitsubishi UFJ Financial Group Inc	10/11/2025	0.96	Fixed Income	200,000	200,677	0.007%
JNLBlackRock Global Allocation Fund	HD Hyundai Infracore Co., Ltd.			Equity	32,845	188,937	0.007%
JNLBlackRock Global Allocation Fund	BPCF	3/15/2025	4.50	Fixed Income	636,000	635,130	0.023%
JNLBlackRock Global Allocation Fund	ConnectWise, LLC	9/23/2028	9.10	Fixed Income	612,000	610,612	0.021%
JNLBlackRock Global Allocation Fund	BCP V Modular Services Finance II PLC	11/30/2028	6.13	Fixed Income	1,497,000	1,932,666	0.068%
JNLBlackRock Global Allocation Fund	BCP V Modular Services Finance PLC	11/30/2029	6.75	Fixed Income	1,486,000	1,485,508	0.052%
JNLBlackRock Global Allocation Fund	Noparan Finance P.L.C.	11/30/2028	7.69	Fixed Income	1,736,000	2,337,000	0.082%
JNLBlackRock Global Allocation Fund	Shiba Bidco S.P.A.	10/31/2028	4.50	Fixed Income	1,589,000	1,737,596	0.061%
JNLBlackRock Global Allocation Fund	Braskem Idesa, S.A.P.I.	2/20/2032	6.99	Fixed Income	200,000	159,137	0.006%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2021-XL2	10/15/2038	5.90	Fixed Income	310,192	308,551	0.011%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2021-XL2	10/15/2038	7.46	Fixed Income	1,757,000	1,143,841	0.041%
JNLBlackRock Global Allocation Fund	Bally's Corporation	8/5/2028	8.79	Fixed Income	665,000	640,215	0.022%
JNLBlackRock Global Allocation Fund	Citigroup Inc.	1/1/2200	4.15	Fixed Income	127,000	122,397	0.004%
JNLBlackRock Global Allocation Fund	Jack Oho Finance LLC	10/4/2028	10.11	Fixed Income	317,448	317,403	0.011%
JNLBlackRock Global Allocation Fund	Berry Global, Inc.	1/15/2026	1.57	Fixed Income	976,000	942,398	0.033%
JNLBlackRock Global Allocation Fund	Gray Television, Inc.	11/15/2031	5.38	Fixed Income	100,000	64,473	0.002%
JNLBlackRock Global Allocation Fund	Citigroup Inc.	11/3/2025	1.28	Fixed Income	913,000	914,262	0.032%
JNLBlackRock Global Allocation Fund	J.P. Morgan Mortgage Trust 2021-INV7	7/25/2043	2.50	Fixed Income	1,619,510	1,152,115	0.040%
JNLBlackRock Global Allocation Fund	J.P. Morgan Mortgage Trust 2021-INV7	2/25/2028	2.50	Fixed Income	3,613,229	3,263,544	0.114%
JNLBlackRock Global Allocation Fund	Whitebox CLO II Ltd	10/24/2034	6.76	Fixed Income	213,000	215,879	0.008%
JNLBlackRock Global Allocation Fund	Nationalist Mortgage Holdings Inc.	11/15/2031	5.75	Fixed Income	226,000	226,351	0.008%
JNLBlackRock Global Allocation Fund	ELP Commercial Mortgage Trust 2021-ELP	11/15/2038	7.88	Fixed Income	1,008,826	1,006,061	0.035%
JNLBlackRock Global Allocation Fund	Asbury Automotive Group, Inc.	2/15/2032	5.00	Fixed Income	100,000	96,862	0.003%
JNLBlackRock Global Allocation Fund	DP World Salalah	1/1/2200	6.00	Fixed Income	260,000	269,360	0.009%
JNLBlackRock Global Allocation Fund	Hydrotam Holdings Group, Inc.	10/21/2028	10.86	Fixed Income	395,249	316,319	0.011%
JNLBlackRock Global Allocation Fund	Marks and Spencer Group P.L.C.	5/19/2026	3.75	Fixed Income	1,163,000	1,550,550	0.054%
JNLBlackRock Global Allocation Fund	Versure Holding AB	2/15/2027	3.25	Fixed Income	485,000	530,755	0.019%
JNLBlackRock Global Allocation Fund	Rolls Royce PLC	10/14/2025	3.63	Fixed Income	200,000	200,849	0.007%
JNLBlackRock Global Allocation Fund	SREIT Commercial Mortgage Trust 2021-MFP	11/15/2038	5.94	Fixed Income	246,756	246,195	0.009%
JNLBlackRock Global Allocation Fund	SREIT Commercial Mortgage Trust 2021-MFP	11/15/2038	7.84	Fixed Income	1,438,165	1,432,398	0.050%
JNLBlackRock Global Allocation Fund	Hertz Vehicle Financing II LP	2/1/2029	5.00	Fixed Income	200,000	135,606	0.005%
JNLBlackRock Global Allocation Fund	Item, Inc.	11/1/2028		Equity	115,000	337,119	0.012%
JNLBlackRock Global Allocation Fund	SREIT Commercial Mortgage Trust 2021-MFP2	11/16/2026	7.83	Fixed Income	700,000	696,315	0.024%
JNLBlackRock Global Allocation Fund	Innovit Corporation	11/30/2026		Equity	7,765	312	0.000%
JNLBlackRock Global Allocation Fund	Open Text Corporation	12/1/2031	4.13	Fixed Income	100,000	93,262	0.003%
JNLBlackRock Global Allocation Fund	International Game Technology PLC	11/15/2027	6.25	Fixed Income	300,000	310,284	0.011%
JNLBlackRock Global Allocation Fund	Southwestern Energy Company	2/1/2032	4.75	Fixed Income	100,000	96,453	0.003%
JNLBlackRock Global Allocation Fund	Iliad Holding	10/15/2028	5.63	Fixed Income	1,893,000	2,192,435	0.077%
JNLBlackRock Global Allocation Fund	BCP V Modular Services Finance II PLC	11/30/2028	6.13	Fixed Income	263,000	339,536	0.012%
JNLBlackRock Global Allocation Fund	GS Mortgage Securities Corporation Trust 2021-DM	11/15/2036	8.15	Fixed Income	1,843,500	1,940,826	0.068%
JNLBlackRock Global Allocation Fund	MFJ Multiturn Housing Mortgage Loan Trust	12/16/2026	8.47	Fixed Income	1,316,243	1,269,360	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Avantor, Inc.	11/1/2020	3.88	Fixed Income	100.000	96.240	0.003%
JNLBlackRock Global Allocation Fund	Vico Holdings, LLC	7/1/2029	10.00	Fixed Income	658.125	81.734	0.029%
JNLBlackRock Global Allocation Fund	Infelast Jackson Holdings S.A.	31/1/2030	6.50	Fixed Income	492.000	474.172	0.017%
JNLBlackRock Global Allocation Fund	Shell PLC			Equity	513.458	16,923.283	0.592%
JNLBlackRock Global Allocation Fund	Shell PLC			Equity	39.628	2,547.517	0.089%
JNLBlackRock Global Allocation Fund	Kane Bidco Limited	21/5/2027	6.50	Fixed Income	991.000	1,314.228	0.046%
JNLBlackRock Global Allocation Fund	Feritta Entertainment, LLC	11/3/2029	8.85	Fixed Income	980.398	980.815	0.034%
JNLBlackRock Global Allocation Fund	Sirius XM Radio Inc.	9/1/2026	3.13	Fixed Income	100.000	96.923	0.003%
JNLBlackRock Global Allocation Fund	TransDigm Inc.	1/15/2029	4.63	Fixed Income	200.000	195.289	0.007%
JNLBlackRock Global Allocation Fund	Fernitas Escrow, LLC	4/1/2029	5.88	Fixed Income	418.000	403.394	0.014%
JNLBlackRock Global Allocation Fund	NCL Corporation Ltd	1/15/2027	5.88	Fixed Income	100.000	179.152	0.004%
JNLBlackRock Global Allocation Fund	American Auto Auction Group, LLC	1/31/2028	10.48	Fixed Income	265.151	266.058	0.009%
JNLBlackRock Global Allocation Fund	iShares MSCI China ETF			Fund	84.298	4,291.611	0.150%
JNLBlackRock Global Allocation Fund	Minion Technologies (US), Inc.			Equity	24.073	266.488	0.009%
JNLBlackRock Global Allocation Fund	Saeed Financing USA LLC	9/27/2028	6.50	Fixed Income	200.000	198.407	0.007%
JNLBlackRock Global Allocation Fund	Emerald Technologies (U.S.) AcquisitionCo Inc.	2/3/2029	11.60	Fixed Income	642.694	514.362	0.018%
JNLBlackRock Global Allocation Fund	Macys Retail Holdings	3/15/2032	6.13	Fixed Income	100.000	97.239	0.003%
JNLBlackRock Global Allocation Fund	Presidencia de la Republica de Chile	3/7/2042	4.34	Fixed Income	354.000	324.869	0.011%
JNLBlackRock Global Allocation Fund	DISH Network Corporation	12/15/2025	5.00	Fixed Income	689.000	684.852	0.020%
JNLBlackRock Global Allocation Fund	CBB International Sukuk Company S.P.C	9/16/2032	5.45	Fixed Income	219.000	211.008	0.007%
JNLBlackRock Global Allocation Fund	Grand Round, Inc.			Equity	644.263	476.755	0.017%
JNLBlackRock Global Allocation Fund	Paramount Global	3/30/2062	6.38	Fixed Income	937.000	862.068	0.030%
JNLBlackRock Global Allocation Fund	Petroleos Mexicanos	2/16/2032	6.70	Fixed Income	27.000	24.392	0.001%
JNLBlackRock Global Allocation Fund	Cydesdale Acquisition Holdings, Inc.	4/15/2030	8.75	Fixed Income	383.000	404.758	0.014%
JNLBlackRock Global Allocation Fund	Inveco Quality Municipal Income Trust			Fund	2.998	31.299	0.001%
JNLBlackRock Global Allocation Fund	Inveco Value Municipal Income Trust			Fund	4.443	18.586	0.001%
JNLBlackRock Global Allocation Fund	FMG Resources (August 2006) Pty Ltd	4/15/2030	5.88	Fixed Income	100.000	103.000	0.004%
JNLBlackRock Global Allocation Fund	Earthstone Energy Holdings, LLC	4/15/2027	8.00	Fixed Income	331.000	353.011	0.012%
JNLBlackRock Global Allocation Fund	Warner Bros. Discovery, Inc.			Equity	37.358	308.204	0.011%
JNLBlackRock Global Allocation Fund	South Africa, Parliament of	4/20/2032	5.88	Fixed Income	273.000	279.163	0.010%
JNLBlackRock Global Allocation Fund	Cydesdale Acquisition Holdings Inc	3/30/2029	8.50	Fixed Income	857.320	852.650	0.030%
JNLBlackRock Global Allocation Fund	Vitalis Mella Finance P.L.C.	5/1/2027	7.88	Fixed Income	100.000	101.919	0.004%
JNLBlackRock Global Allocation Fund	Mineral Resources Limited	11/1/2027	8.00	Fixed Income	100.000	105.927	0.004%
JNLBlackRock Global Allocation Fund	The Goodyear Tire & Rubber Company	7/15/2029	5.00	Fixed Income	100.000	92.919	0.003%
JNLBlackRock Global Allocation Fund	Bank of America Alternative Loan Trust 2006-3	11/9/2037	7.59	Fixed Income	549.500	550.548	0.019%
JNLBlackRock Global Allocation Fund	VZ Secured Finance S.V.	1/15/2033	5.00	Fixed Income	300.000	300.000	0.010%
JNLBlackRock Global Allocation Fund	VICI Properties Inc.	9/1/2026	4.50	Fixed Income	152.000	151.768	0.005%
JNLBlackRock Global Allocation Fund	VICI Properties Inc.	6/15/2025	4.63	Fixed Income	188.000	189.434	0.007%
JNLBlackRock Global Allocation Fund	UBS Group AG	5/12/2026	4.49	Fixed Income	200.000	202.878	0.007%
JNLBlackRock Global Allocation Fund	Vertical Midco GmbH	7/15/2027	4.25	Fixed Income	1,621.000	1,611.119	0.045%
JNLBlackRock Global Allocation Fund	VMEI O2 UK Financing PLC	7/15/2031	4.50	Fixed Income	654.000	761.028	0.027%
JNLBlackRock Global Allocation Fund	Frontier Communications Holdings, LLC	5/15/2030	8.75	Fixed Income	1,777.000	1,947.901	0.068%
JNLBlackRock Global Allocation Fund	iShares MSCI Emerging Markets ETF			Fund	8.453	387.655	0.014%
JNLBlackRock Global Allocation Fund	Bausch & Lomb Corporation	5/5/2027	8.27	Fixed Income	710.732	708.010	0.025%
JNLBlackRock Global Allocation Fund	EQM Midstream Partners, LP	6/1/2027	7.50	Fixed Income	130.000	137.092	0.005%
JNLBlackRock Global Allocation Fund	EQM Midstream Partners, LP	6/1/2030	7.50	Fixed Income	135.000	151.310	0.005%
JNLBlackRock Global Allocation Fund	Builders FirstSource, Inc.	6/15/2032	6.38	Fixed Income	100.000	105.564	0.004%
JNLBlackRock Global Allocation Fund	Sandoz Patata	6/16/2029	5.25	Fixed Income	344.000	353.918	0.012%
JNLBlackRock Global Allocation Fund	Elm Company			Equity	425	131.913	0.005%
JNLBlackRock Global Allocation Fund	Entegris Escrow Corporation	4/15/2029	4.75	Fixed Income	302.000	302.179	0.011%
JNLBlackRock Global Allocation Fund	GSK PLC			Equity	60.520	1,250.123	0.044%
JNLBlackRock Global Allocation Fund	Block, Inc.	6/1/2036	2.75	Fixed Income	200.000	1,095.678	0.076%
JNLBlackRock Global Allocation Fund	GS Mortgage Securities Corp.	8/15/2039	7.29	Fixed Income	117.318	117.735	0.004%
JNLBlackRock Global Allocation Fund	Sieracal Energy Andina, LLC	6/15/2028	6.00	Fixed Income	204.000	190.679	0.007%
JNLBlackRock Global Allocation Fund	Bellis Finco PLC	2/16/2027	4.00	Fixed Income	998.000	1,256.548	0.044%
JNLBlackRock Global Allocation Fund	Allegiant Travel Company	9/1/2027	7.25	Fixed Income	372.000	371.336	0.013%
JNLBlackRock Global Allocation Fund	Frontier Florida LLC	2/1/2028	6.88	Fixed Income	1,259.000	1,329.763	0.047%
JNLBlackRock Global Allocation Fund	CCO Holdings, LLC	9/1/2029	6.38	Fixed Income	300.000	302.002	0.011%
JNLBlackRock Global Allocation Fund	NaftWest Group PLC			Equity	211.025	970.061	0.034%
JNLBlackRock Global Allocation Fund	Magnum Management Corporation	4/15/2027	5.38	Fixed Income	100.000	102.118	0.004%
JNLBlackRock Global Allocation Fund	Alimentation Couche-Tard Inc.			Equity	4.824	272.023	0.010%
JNLBlackRock Global Allocation Fund	Low's Companies, Inc.	4/15/2053	5.63	Fixed Income	680.000	725.041	0.025%
JNLBlackRock Global Allocation Fund	BG Energy Capital PLC	12/1/2025	5.13	Fixed Income	267.000	372.682	0.013%
JNLBlackRock Global Allocation Fund	Anheuser-Busch Inbev	9/24/2025	4.00	Fixed Income	100.000	132.769	0.005%
JNLBlackRock Global Allocation Fund	Volkswagen International Finance N.V.	10/9/2025	3.63	Fixed Income	100.000	134.863	0.005%
JNLBlackRock Global Allocation Fund	Santander UK Group Holdings PLC	1/14/2026	3.63	Fixed Income	100.000	132.786	0.005%
JNLBlackRock Global Allocation Fund	BNP Paribas	1/23/2026	3.38	Fixed Income	100.000	134.161	0.005%
JNLBlackRock Global Allocation Fund	Telefonos Emisiones SA	2/2/2026	5.38	Fixed Income	267.000	371.540	0.013%
JNLBlackRock Global Allocation Fund	FMG Group N.V.	2/18/2026	3.00	Fixed Income	100.000	132.918	0.005%
JNLBlackRock Global Allocation Fund	Informa Jersey Limited	7/5/2026	3.13	Fixed Income	100.000	130.359	0.005%
JNLBlackRock Global Allocation Fund	TotalEnergies Capital International	7/22/2026	1.66	Fixed Income	100.000	127.882	0.004%
JNLBlackRock Global Allocation Fund	JP Morgan Chase & Co.	4/28/2026	0.99	Fixed Income	345.000	452.159	0.016%
JNLBlackRock Global Allocation Fund	Banco Santander, S.A.	10/6/2026	2.13	Fixed Income	600.000	600.000	0.021%
JNLBlackRock Global Allocation Fund	Angen Inc.	12/7/2026	5.50	Fixed Income	100.000	142.158	0.005%
JNLBlackRock Global Allocation Fund	NaftWest Group PLC	9/19/2026	2.88	Fixed Income	100.000	130.935	0.005%
JNLBlackRock Global Allocation Fund	AT&T Inc.	1/24/2026	2.90	Fixed Income	245.000	323.645	0.011%
JNLBlackRock Global Allocation Fund	Citigroup Inc.	10/3/2026	1.75	Fixed Income	200.000	256.986	0.009%
JNLBlackRock Global Allocation Fund	NaftWest Group PLC	3/28/2027	3.13	Fixed Income	100.000	132.191	0.005%
JNLBlackRock Global Allocation Fund	AT&T Inc.	3/15/2027	5.50	Fixed Income	150.000	209.623	0.007%
JNLBlackRock Global Allocation Fund	Sweetbank AB	12/8/2027	1.38	Fixed Income	100.000	126.056	0.004%
JNLBlackRock Global Allocation Fund	KBC Group	9/21/2027	1.52	Fixed Income	100.000	124.625	0.004%
JNLBlackRock Global Allocation Fund	BNP Paribas	12/14/2027	1.88	Fixed Income	100.000	123.846	0.004%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The	4/10/2028	7.25	Fixed Income	137.000	204.071	0.007%
JNLBlackRock Global Allocation Fund	Verizon Communications Inc.	11/3/2028	1.13	Fixed Income	100.000	118.444	0.004%
JNLBlackRock Global Allocation Fund	Societe Generale	10/3/2024	1.88	Fixed Income	100.000	136.175	0.005%
JNLBlackRock Global Allocation Fund	Volkswagen International Finance N.V.	3/30/2024	1.88	Fixed Income	100.000	134.863	0.005%
JNLBlackRock Global Allocation Fund	Newell Brands Inc.	9/15/2027	6.38	Fixed Income	100.000	101.663	0.004%
JNLBlackRock Global Allocation Fund	Gig Digital Inc.	9/30/2027	6.75	Fixed Income	100.000	102.809	0.004%
JNLBlackRock Global Allocation Fund	Barclays PLC	5/8/2026	3.00	Fixed Income	100.000	131.473	0.005%
JNLBlackRock Global Allocation Fund	Cooperative Rabobank U.A.	7/12/2028	1.98	Fixed Income	100.000	124.625	0.004%
JNLBlackRock Global Allocation Fund	CNX Resources Corporation	1/15/2031	7.38	Fixed Income	100.000	106.134	0.004%
JNLBlackRock Global Allocation Fund	HSBC Holdings PLC	7/24/2027	1.75	Fixed Income	100.000	126.819	0.004%
JNLBlackRock Global Allocation Fund	PT Freeport Indonesia	4/14/2027	4.76	Fixed Income	347.000	356.338	0.012%
JNLBlackRock Global Allocation Fund	Cloud Software Group, Inc.	3/13/2029	6.50	Fixed Income	980.000	1,075.310	0.034%
JNLBlackRock Global Allocation Fund	Market Bidco Limited	11/4/2027	8.29	Fixed Income	477.500	533.243	0.019%
JNLBlackRock Global Allocation Fund	HM Treasury	10/22/2026	0.50	Fixed Income	16,501.750	6,788.772	0.237%
JNLBlackRock Global Allocation Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	9/15/2039	7.28	Fixed Income	287.000	287.927	0.010%
JNLBlackRock Global Allocation Fund	Versure Holding AB	10/15/2027	9.25	Fixed Income	680.000	625.260	0.023%
JNLBlackRock Global Allocation Fund	Versure Midholding AB	2/15/2029	5.25	Fixed Income	853.000	949.922	0.033%
JNLBlackRock Global Allocation Fund	Arbor Realty Commercial Real Estate Notes 2022-FI2, LLC	5/15/2037	6.95	Fixed Income	275.225	275.989	0.010%
JNLBlackRock Global Allocation Fund	Altegris Corporation			Equity	8.951	1,421.508	0.050%
JNLBlackRock Global Allocation Fund	Independence Plaza Trust 2018-INOP	7/11/2025	3.91	Fixed Income	354.000	344.624	0.012%
JNLBlackRock Global Allocation Fund	Ready Capital Mortgage Financing 2022-FL10, LLC	10/25/2039	7.35	Fixed Income	1,598.934	1,606.882	0.056%
JNLBlackRock Global Allocation Fund	DBGS 2018-BIOD Mortgage Trust	5/15/2035	6.20	Fixed Income	65.975	65.849	0.002%
JNLBlackRock Global Allocation Fund	FS Rialto 2022-FL6 Issuer, LLC	5/19/2027	7.54	Fixed Income	1,327.387	1,335.825	0.047%
JNLBlackRock Global Allocation Fund	BBSIT 2021-SSCP Mortgage Trust	4/15/2036	5.96	Fixed Income	302.750	300.716	0.010%
JNLBlackRock Global Allocation Fund	Avient Corporation	6/1/2030	7.13	Fixed Income	100.000	105.498	0.004%
JNLBlackRock Global Allocation Fund	RXO Inc.			Equity	8.214	229.992	0.008%
JNLBlackRock Global Allocation Fund	Government of the Republic of Panama	2/14/2035	6.40	Fixed Income	359.000	370.972	0.013%
JNLBlackRock Global Allocation Fund	Salvo GBL, Inc.	12/15/2027	11.25	Fixed Income	1,028.000	1,102.125	0.039%
JNLBlackRock Global Allocation Fund	SSAB AB			Equity	54.901	281.373	0.010%
JNLBlackRock Global Allocation Fund	Departamento Administrativo De La Presidencia De La Republica	4/20/2033	8.00	Fixed Income	329.000	365.610	0.013%
JNLBlackRock Global Allocation Fund	Gobierno De La Republica Oriental Del Uruguay	10/28/2034	5.75	Fixed Income	94.654	105.142	0.004%
JNLBlackRock Global Allocation Fund	Romania, Government of	2/8/2030	2.50	Fixed Income	100.000	101.991	0.004%
JNLBlackRock Global Allocation Fund	Senegal, Government of	5/23/2033	6.25	Fixed Income	204.000	179.979	0.006%
JNLBlackRock Global Allocation Fund	Majid Al Futtaim Holding LLC	1/1/2200	6.38	Fixed Income	200.000	201.232	0.007%
JNLBlackRock Global Allocation Fund	Banco Mercantil Del Norte, S.A., Institucion De Banca Multiple, Grupo Financiero Banorte	1/1/2020	5.88	Fixed Income	200.000	198.102	0.007%
JNLBlackRock Global Allocation Fund	Corporacion Financiera de Desarrollo S.A.	7/15/2025	4.75	Fixed Income	344.000	346.596	0.012%
JNLBlackRock Global Allocation Fund	Presidencia de la Republique de Cote d'Ivoire	3/3/2028	6.38	Fixed Income	200.000	200.736	0.007%
JNLBlackRock Global Allocation Fund	Nigeria, Federal Government of	3/24/2029	8.38	Fixed Income	209.000	202.546	0.007%
JNLBlackRock Global Allocation Fund	Petroleos Mexicanos	6/2/2029	8.75	Fixed Income	52.824	55.112	0.002%
JNLBlackRock Global Allocation Fund	Treasury, United States Department of	12/15/2025	4.00	Fixed Income	20,893.000	21,188.986	0.740%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/8/2035	6.25	Fixed Income	407.000	431.182	0.015%
JNLBlackRock Global Allocation Fund	POSCO Holdings Inc.	1/17/2028	5.75	Fixed Income	200.000	209.880	0.007%
JNLBlackRock Global Allocation Fund	VanEck J.P. Morgan EM Local Currency Bond ETF			Fund	169.305	4,300.347	0.150%
JNLBlackRock Global Allocation Fund	Government of Saudi Arabia	1/18/2053	5.00	Fixed Income	316.000	295.158	0.010%
JNLBlackRock Global Allocation Fund	Venture Global Calcasieu Pass, LLC	11/15/2030	6.25	Fixed Income	100.000	106.137	0.004%
JNLBlackRock Global Allocation Fund	Ecopetrol S.A.	11/3/2033	8.88	Fixed Income	53.000	57.831	0.002%
JNLBlackRock Global Allocation Fund	Coty Inc.	4/15/2026	3.88	Fixed Income	1,611.000	1,821.820	0.064%
JNLBlackRock Global Allocation Fund	Urad Vesty Ceske Republiky	9/30/2030	5.00	Fixed Income	51,090.000	2,441.609	0.085%
JNLBlackRock Global Allocation Fund	Liberty Costa Rica Secured Finance	1/15/2031	10.88	Fixed Income	329.000	325.955	0.011%
JNLBlackRock Global Allocation Fund	The Republic of Indonesia, The Government of	6/15/2038	7.13	Fixed Income	62,554.000.000	4,379.026	0.153%
JNLBlackRock Global Allocation Fund	Altair Bidco, Inc.	11/9/2028	10.40	Fixed Income	2,318.255	2,275.377	0.080%
JNLBlackRock Global Allocation Fund	Clean Harbors, Inc.	2/1/2031	6.38	Fixed Income	100.000	103.476	0.004%
JNLBlackRock Global Allocation Fund	Tenet Healthcare Corporation			Equity	96.821	96.821	0.003%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	8/20/2033	7.13	Fixed Income	80,477.501	3,760.521	0.132%
JNLBlackRock Global Allocation Fund	Banca Monted dei Paschi di Siena S.p.A.						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Boyd Gaming Corporation			Equity	1,207	78,238	0.003%
JNLBlackRock Global Allocation Fund	Verizon Communications Inc.			Equity	57,444	2,579,444	0.009%
JNLBlackRock Global Allocation Fund	Mettler-Toledo International Inc.			Equity	220	329,934	0.012%
JNLBlackRock Global Allocation Fund	Valero Energy Corporation			Equity	49,653	6,704,645	0.235%
JNLBlackRock Global Allocation Fund	Ball Corporation			Equity	2,756	187,160	0.007%
JNLBlackRock Global Allocation Fund	Pearson PLC			Equity	53,300	724,851	0.025%
JNLBlackRock Global Allocation Fund	BAE Systems PLC			Equity	1,031,455	17,102,923	0.598%
JNLBlackRock Global Allocation Fund	Adobe Inc.			Equity	38,775	20,076,920	0.702%
JNLBlackRock Global Allocation Fund	BP P.L.C.			Equity	191,433	1,000,874	0.035%
JNLBlackRock Global Allocation Fund	Berkshire Hathaway Inc.			Equity	6,387	2,939,681	0.103%
JNLBlackRock Global Allocation Fund	Autodesk, Inc.			Equity	33,348	9,198,707	0.321%
JNLBlackRock Global Allocation Fund	The AES Corporation			Equity	90,947	1,824,397	0.064%
JNLBlackRock Global Allocation Fund	CRH Public Limited Company			Equity	2,231	205,617	0.007%
JNLBlackRock Global Allocation Fund	CRH Public Limited Company			Equity	129,359	11,996,754	0.420%
JNLBlackRock Global Allocation Fund	Brask-Meyers South Company			Equity	64,295	3,326,868	0.117%
JNLBlackRock Global Allocation Fund	Advanced Micro Devices, Inc.			Equity	9,358	1,535,461	0.054%
JNLBlackRock Global Allocation Fund	Canadian Natural Resources Limited			Equity	31,745	1,060,597	0.037%
JNLBlackRock Global Allocation Fund	Tec Resources Limited			Equity	5,625	293,800	0.010%
JNLBlackRock Global Allocation Fund	American Express Company			Equity	1,837	498,194	0.017%
JNLBlackRock Global Allocation Fund	Coles Group Limited			Equity	105,489	1,317,521	0.046%
JNLBlackRock Global Allocation Fund	Standard Chartered PLC			Equity	69,909	747,822	0.026%
JNLBlackRock Global Allocation Fund	AstraZeneca PLC			Equity	7,605	1,186,340	0.041%
JNLBlackRock Global Allocation Fund	Honeywell International Inc.			Equity	19,441	3,811,339	0.133%
JNLBlackRock Global Allocation Fund	ANSYS, Inc.			Equity	2,701	860,620	0.030%
JNLBlackRock Global Allocation Fund	Applied Materials, Inc.			Equity	34,704	7,011,943	0.245%
JNLBlackRock Global Allocation Fund	British American Tobacco P.L.C.			Equity	15,660	584,700	0.020%
JNLBlackRock Global Allocation Fund	Barick Gold Corporation			Equity	72,523	1,242,470	0.045%
JNLBlackRock Global Allocation Fund	Boston Scientific Corporation			Equity	212,805	17,833,059	0.624%
JNLBlackRock Global Allocation Fund	Sempra			Equity	94,501	7,961,709	0.278%
JNLBlackRock Global Allocation Fund	Amgen Inc.			Equity	6,045	1,947,759	0.068%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc.			Equity	246,082	46,225,119	1.617%
JNLBlackRock Global Allocation Fund	Hess Corporation			Equity	29,882	3,923,534	0.137%
JNLBlackRock Global Allocation Fund	Amphenol Corporation			Equity	13,799	901,420	0.032%
JNLBlackRock Global Allocation Fund	Apple Inc.			Equity	189,189	44,081,037	1.542%
JNLBlackRock Global Allocation Fund	Home Depot, Inc., The			Equity	12,677	5,136,720	0.180%
JNLBlackRock Global Allocation Fund	DEX Corporation			Equity	3,024	1,157,365	0.040%
JNLBlackRock Global Allocation Fund	Crown Holdings, Inc.			Equity	4,206	403,271	0.014%
JNLBlackRock Global Allocation Fund	Cameco Corporation			Equity	188,888	9,021,291	0.316%
JNLBlackRock Global Allocation Fund	Cisco Systems, Inc.			Equity	4,048	215,435	0.008%
JNLBlackRock Global Allocation Fund	Halliburton Company			Equity	16,381	413,868	0.017%
JNLBlackRock Global Allocation Fund	Biogen Inc.			Equity	4,501	872,474	0.031%
JNLBlackRock Global Allocation Fund	EOG Resources, Inc.			Equity	24,339	2,991,993	0.105%
JNLBlackRock Global Allocation Fund	First Horizon Corporation			Equity	21,094	530,754	0.012%
JNLBlackRock Global Allocation Fund	Freight-McMaster Inc.			Equity	243,752	12,168,100	0.426%
JNLBlackRock Global Allocation Fund	Deckers Outdoor Corporation			Equity	21,828	3,480,475	0.122%
JNLBlackRock Global Allocation Fund	Hormel Foods Corporation			Equity	17,175	544,448	0.019%
JNLBlackRock Global Allocation Fund	Cummins Inc.			Equity	4,744	1,536,060	0.054%
JNLBlackRock Global Allocation Fund	NRG Energy, Inc.			Equity	29,589	2,894,458	0.091%
JNLBlackRock Global Allocation Fund	Hasbro, Inc.			Equity	10,345	748,150	0.026%
JNLBlackRock Global Allocation Fund	D.R. Horton, Inc.			Equity	19,115	3,646,569	0.128%
JNLBlackRock Global Allocation Fund	The Estee Lauder Companies Inc.			Equity	16,182	1,613,184	0.056%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co.			Equity	81,705	17,228,216	0.602%
JNLBlackRock Global Allocation Fund	First Quantum Minerals Ltd			Equity	3,263	44,489	0.002%
JNLBlackRock Global Allocation Fund	NVIDIA Corporation			Equity	493,046	59,880,527	2.094%
JNLBlackRock Global Allocation Fund	Canadian National Railway Company			Equity	3,796	444,506	0.016%
JNLBlackRock Global Allocation Fund	Expeditors International of Washington, Inc.			Equity	8,857	1,853,810	0.064%
JNLBlackRock Global Allocation Fund	Intel Inc.			Equity	4,951	3,074,571	0.108%
JNLBlackRock Global Allocation Fund	Gilead Sciences, Inc.			Equity	24,116	2,021,885	0.071%
JNLBlackRock Global Allocation Fund	Walt Disney Company, The			Equity	117,702	11,321,755	0.396%
JNLBlackRock Global Allocation Fund	Credentia Ltd.			Equity	6,522	1,199,212	0.042%
JNLBlackRock Global Allocation Fund	McKesson Corporation			Equity	2,337	1,157,365	0.040%
JNLBlackRock Global Allocation Fund	Danaher Corporation			Equity	40,578	11,292,452	0.395%
JNLBlackRock Global Allocation Fund	Salesforce, Inc.			Equity	11,060	3,033,608	0.106%
JNLBlackRock Global Allocation Fund	Entbridge Inc.			Equity	235,475	9,565,601	0.335%
JNLBlackRock Global Allocation Fund	Fomento Economico Mexicano, S.A.B. De C.V.			Equity	13,543	1,142,153	0.040%
JNLBlackRock Global Allocation Fund	Franklin Resources, Inc.			Equity	105,251	2,153,435	0.075%
JNLBlackRock Global Allocation Fund	Banco Do Brasil SA			Equity	163,767	820,083	0.029%
JNLBlackRock Global Allocation Fund	Humana Inc.			Equity	5,304	1,084,683	0.039%
JNLBlackRock Global Allocation Fund	Nextera Energy, Inc.			Equity	163,180	13,793,605	0.482%
JNLBlackRock Global Allocation Fund	First Citizens BancShares, Inc.			Equity	472	868,928	0.030%
JNLBlackRock Global Allocation Fund	Cardinal Health, Inc.			Equity	4,082	451,143	0.016%
JNLBlackRock Global Allocation Fund	Enterprise Products Partners L.P.			Equity	28,095	817,845	0.029%
JNLBlackRock Global Allocation Fund	Cadence Design Systems, Inc.			Equity	16,210	4,393,398	0.154%
JNLBlackRock Global Allocation Fund	Jabil Inc.			Equity	9,772	1,170,979	0.041%
JNLBlackRock Global Allocation Fund	Grupo Financiero Banorte, S.A.B. de C.V.			Equity	119,211	848,463	0.030%
JNLBlackRock Global Allocation Fund	CEMEX S.A.B. de C.V.			Equity	1,499,783	917,846	0.032%
JNLBlackRock Global Allocation Fund	Convenia Incorporated			Equity	1,881	1,114,026	0.040%
JNLBlackRock Global Allocation Fund	Citigroup Inc.			Equity	39,790	2,490,854	0.087%
JNLBlackRock Global Allocation Fund	Bank of America Corporation			Equity	477,154	18,933,471	0.662%
JNLBlackRock Global Allocation Fund	Roper Technologies, Inc.			Equity	1,467	816,297	0.029%
JNLBlackRock Global Allocation Fund	Carnival Corporation			Equity	99,222	1,833,623	0.064%
JNLBlackRock Global Allocation Fund	Entegris, Inc.			Equity	6,341	713,553	0.025%
JNLBlackRock Global Allocation Fund	Nucor Corporation			Equity	5,941	896,378	0.031%
JNLBlackRock Global Allocation Fund	Royal Caribbean Cruises Ltd.			Equity	8,476	1,506,694	0.053%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation			Equity	17,684	15,677,220	0.548%
JNLBlackRock Global Allocation Fund	Power Corporation of Canada			Equity	106,132	3,988,641	0.138%
JNLBlackRock Global Allocation Fund	T. Rowe Price Group, Inc.			Equity	29,567	3,220,733	0.113%
JNLBlackRock Global Allocation Fund	Johnson & Johnson			Equity	27,692	4,487,766	0.157%
JNLBlackRock Global Allocation Fund	Lam Research Corporation			Equity	6,407	5,243,517	0.183%
JNLBlackRock Global Allocation Fund	RLA Corporation			Equity	2,493	1,592,153	0.056%
JNLBlackRock Global Allocation Fund	Lockheed Martin Corporation			Equity	6,390	3,735,338	0.131%
JNLBlackRock Global Allocation Fund	NetApp, Inc.			Equity	14,442	1,783,731	0.062%
JNLBlackRock Global Allocation Fund	Bank of Co., Inc.			Equity	137,253	15,688,739	0.549%
JNLBlackRock Global Allocation Fund	Crack Corporation			Equity	197,357	18,793,633	0.662%
JNLBlackRock Global Allocation Fund	Qualcomm Incorporated			Equity	19,483	3,313,084	0.116%
JNLBlackRock Global Allocation Fund	Marsh & McLennan Companies, Inc.			Equity	81,224	18,120,262	0.634%
JNLBlackRock Global Allocation Fund	The PNC Financial Services Group, Inc.			Equity	11,435	2,113,760	0.074%
JNLBlackRock Global Allocation Fund	Atrius Group, Inc.			Equity	54,441	2,831,813	0.099%
JNLBlackRock Global Allocation Fund	Grupo Aeroportuario del Sureste, S.A.B. de C.V.			Equity	10,590	299,258	0.010%
JNLBlackRock Global Allocation Fund	Kroger Co., The			Equity	10,631	609,156	0.021%
JNLBlackRock Global Allocation Fund	ConocoPhillips			Equity	35,852	3,774,499	0.132%
JNLBlackRock Global Allocation Fund	Regeneron Pharmaceuticals, Inc.			Equity	442	2,864,648	0.096%
JNLBlackRock Global Allocation Fund	Rockwell Automation, Inc.			Equity	9,555	2,565,135	0.090%
JNLBlackRock Global Allocation Fund	Kimberly-Clark Corporation			Equity	14,712	2,103,697	0.074%
JNLBlackRock Global Allocation Fund	El Lilly and Company			Equity	16,336	14,472,716	0.506%
JNLBlackRock Global Allocation Fund	Edwards Lifesciences Corporation			Equity	66,487	1,887,477	0.068%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The			Equity	32,143	15,914,323	0.557%
JNLBlackRock Global Allocation Fund	Pfizer Inc.			Equity	12,512	362,097	0.013%
JNLBlackRock Global Allocation Fund	Procter & Gamble Company, The			Equity	8,958	1,551,526	0.054%
JNLBlackRock Global Allocation Fund	Charles Schwab Corporation, The			Equity	136,866	8,870,285	0.310%
JNLBlackRock Global Allocation Fund	Old Dominion Freight Line, Inc.			Equity	2,233	443,463	0.016%
JNLBlackRock Global Allocation Fund	Microsoft Corporation			Equity	177,846	76,527,134	2.677%
JNLBlackRock Global Allocation Fund	Micron Technology, Inc.			Equity	63,980	6,635,366	0.232%
JNLBlackRock Global Allocation Fund	Farfaro Financial Holdings Limited			Equity	1,462	1,845,993	0.065%
JNLBlackRock Global Allocation Fund	Devon Energy Corporation			Equity	26,589	1,116,402	0.039%
JNLBlackRock Global Allocation Fund	The Progressive Corporation			Equity	88,743	22,519,424	0.788%
JNLBlackRock Global Allocation Fund	Kingspan Group Public Limited Company			Equity	15,234	1,435,393	0.050%
JNLBlackRock Global Allocation Fund	Northrop Grumman Corporation			Equity	7,765	4,100,464	0.143%
JNLBlackRock Global Allocation Fund	Alliant SE			Equity	3,529	1,162,369	0.041%
JNLBlackRock Global Allocation Fund	Wells Fargo & Company			Equity	253,280	14,307,787	0.500%
JNLBlackRock Global Allocation Fund	Rollins, Inc.			Equity	14,873	752,276	0.026%
JNLBlackRock Global Allocation Fund	Chemiere Energy, Inc.			Equity	8,477	1,524,504	0.053%
JNLBlackRock Global Allocation Fund	Mediobanca Banca di Credito Finanziario Societa' Per Azioni			Equity	85,083	1,451,151	0.051%
JNLBlackRock Global Allocation Fund	Accor			Equity	115,674	5,034,395	0.176%
JNLBlackRock Global Allocation Fund	West Pharmaceutical Services, Inc.			Equity	1,098	329,576	0.012%
JNLBlackRock Global Allocation Fund	LKQ Corporation			Equity	151,136	6,033,349	0.211%
JNLBlackRock Global Allocation Fund	Acer Inc.			Equity	42,758	2,448,023	0.086%
JNLBlackRock Global Allocation Fund	Stryker Corporation			Equity	33,491	12,125,751	0.424%
JNLBlackRock Global Allocation Fund	L'Oreal			Equity	632	282,934	0.010%
JNLBlackRock Global Allocation Fund	Freemium Medical Care AG			Equity	16,407	697,231	0.024%
JNLBlackRock Global Allocation Fund	Banslys PLC			Equity	355,693	1,067,298	0.037%
JNLBlackRock Global Allocation Fund	Koninklijke Vopak N.V.			Equity	17,172	1,797,981	0.062%
JNLBlackRock Global Allocation Fund	State Street Corporation			Equity	37,748	3,339,566	0.117%
JNLBlackRock Global Allocation Fund	Toll Brothers, Inc.			Equity	43,227	6,678,139	0.234%
JNLBlackRock Global Allocation Fund	Gemini AIS			Equity	1,509	366,337	0.013%
JNLBlackRock Global Allocation Fund	Vetter Pharmaceuticals Incorporated			Equity	1,899	693,187	0.025%
JNLBlackRock Global Allocation Fund	Sanofi			Equity	79,146	9,107,147	0.319%
JNLBlackRock Global Allocation Fund	Telia Company AB			Equity	488,784	1,581,282	0.055%
JNLBlackRock Global Allocation Fund	BASF SE			Equity	6,739	587,286	0.021%
JNLBlackRock Global Allocation Fund	RATONAL Altempsenschaft			Equity	487	496,197	0.017%
JNLBlackRock Global Allocation Fund	Banco Santander, S.A.			Equity	29,236	149,592	0.005%
JNLBlackRock Global Allocation Fund	Wolters Kluwer N.V.			Equity	9,073	1,529,583	0.053%
JNLBlackRock Global Allocation Fund	Toronto-Dominion Bank, The			Equity	9,965	630,121	0.022%
JNLBlackRock Global Allocation Fund	Principal Financial Group, Inc.			Equity	20,768	1,783,971	0.062%
JNLBlackRock Global Allocation Fund	Carrefour			Equity	81,683	1,393,166	0.049%
JNLBlackRock Global Allocation Fund	Mercedes-Benz Group AG			Equity	37,778	2,447,550	0.086%
JNLBlackRock Global Allocation Fund	Orange			Equity	49,035	562,153	0.020%
JNLBlackRock Global Allocation Fund	Komerční banka, a.s.			Equity	2,452	86,585	0.003%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Union Pacific Corporation			Equity	22,228	5,478,757	0.192%
JNLBlackRock Global Allocation Fund	Thermo Fisher Scientific Inc.			Equity	20,717	12,932,878	0.449%
JNLBlackRock Global Allocation Fund	Walmart Inc.			Equity	261,146	21,087,540	0.738%
JNLBlackRock Global Allocation Fund	Chevron Corporation			Equity	62,336	9,180,223	0.321%
JNLBlackRock Global Allocation Fund	Hermes International			Equity	1,190	2,923,544	0.102%
JNLBlackRock Global Allocation Fund	Elisa Oy			Equity	22,168	1,175,292	0.041%
JNLBlackRock Global Allocation Fund	Skyworks Solutions, Inc.			Equity	1,681	166,035	0.006%
JNLBlackRock Global Allocation Fund	A.P. Moller - Maersk A/S			Equity	359	603,801	0.021%
JNLBlackRock Global Allocation Fund	Realtek Semiconductor Corporation			Equity	79,642	1,225,998	0.043%
JNLBlackRock Global Allocation Fund	Centene Corporation			Equity	5,482	538,525	0.022%
JNLBlackRock Global Allocation Fund	UnitedHealth Group Incorporated			Equity	42,947	25,117,292	0.878%
JNLBlackRock Global Allocation Fund	Intuitive Surgical, Inc.			Equity	26,137	12,840,324	0.449%
JNLBlackRock Global Allocation Fund	Intesa Sanpaolo SPA			Equity	3,878,995	16,617,900	0.581%
JNLBlackRock Global Allocation Fund	ST Microelectronics N.V.			Equity	6,012	178,876	0.006%
JNLBlackRock Global Allocation Fund	Hedberg Materials AG			Equity	6,758	750,961	0.026%
JNLBlackRock Global Allocation Fund	Bankinter Sociedad Anonima			Equity	27,989	246,623	0.009%
JNLBlackRock Global Allocation Fund	Universal Health Services, Inc.			Equity	5,084	1,164,287	0.041%
JNLBlackRock Global Allocation Fund	Wynn Resorts, Limited			Equity	33,856	3,246,113	0.114%
JNLBlackRock Global Allocation Fund	Schneider Electric SE			Equity	2,685	707,828	0.025%
JNLBlackRock Global Allocation Fund	ASUSTek Computer Inc.			Equity	23,000	400,779	0.014%
JNLBlackRock Global Allocation Fund	Banco Bilbao Vizcaya Argentaria, S.A.			Equity	347,103	3,741,864	0.131%
JNLBlackRock Global Allocation Fund	Carlsberg A/S			Equity	8,086	963,269	0.034%
JNLBlackRock Global Allocation Fund	Avaya Land Inc.			Equity	287,700	174,873	0.006%
JNLBlackRock Global Allocation Fund	LVMH Moet Hennessy Louis Vuitton			Equity	23,945	18,355,621	0.642%
JNLBlackRock Global Allocation Fund	RWE Aktiengesellschaft			Equity	82,051	2,987,790	0.105%
JNLBlackRock Global Allocation Fund	Texas Capital Bancshares, Inc.			Equity	2,756	196,944	0.007%
JNLBlackRock Global Allocation Fund	United States Steel Corporation			Equity	77,708	2,145,424	0.076%
JNLBlackRock Global Allocation Fund	SSAB AB			Equity	32,070	168,131	0.006%
JNLBlackRock Global Allocation Fund	Marks and Spencer Group P.L.C.			Equity	161,050	804,132	0.028%
JNLBlackRock Global Allocation Fund	CME Group Inc.			Equity	830	183,140	0.006%
JNLBlackRock Global Allocation Fund	Kingsfisher PLC			Equity	92,480	386,921	0.014%
JNLBlackRock Global Allocation Fund	Southern Copper Corporation			Equity	3,385	301,658	0.011%
JNLBlackRock Global Allocation Fund	Netflix, Inc.			Equity	6,179	4,382,579	0.153%
JNLBlackRock Global Allocation Fund	TJX Companies, Inc., The			Equity	160,477	18,862,467	0.660%
JNLBlackRock Global Allocation Fund	Repsol SA			Equity	36,659	482,317	0.017%
JNLBlackRock Global Allocation Fund	Bharat Petroleum Corporation Limited			Equity	30,844	78,166	0.003%
JNLBlackRock Global Allocation Fund	Aldias AG			Equity	35,998	9,533,623	0.333%
JNLBlackRock Global Allocation Fund	Koninklijke KPN N.V.			Equity	612,361	2,502,009	0.088%
JNLBlackRock Global Allocation Fund	Trend Micro Incorporated			Equity	21,332	1,264,288	0.044%
JNLBlackRock Global Allocation Fund	ITO EN, LTD.			Equity	30,741	1,340,492	0.047%
JNLBlackRock Global Allocation Fund	GS Engineering & Construction Corp.			Equity	13,865	194,468	0.007%
JNLBlackRock Global Allocation Fund	NAVER Corporation			Equity	4,697	610,530	0.021%
JNLBlackRock Global Allocation Fund	CSPC Pharmaceutical Group Limited			Equity	554,000	426,299	0.015%
JNLBlackRock Global Allocation Fund	Compal Electronics, Inc.			Equity	944,244	993,020	0.035%
JNLBlackRock Global Allocation Fund	Kansai Paint Co., Ltd.			Equity	34,644	621,922	0.022%
JNLBlackRock Global Allocation Fund	GAIL (India) Limited			Equity	79,965	230,687	0.008%
JNLBlackRock Global Allocation Fund	Keyence Corporation			Equity	25,222	12,070,470	0.422%
JNLBlackRock Global Allocation Fund	SK Hynix Inc.			Equity	50,084	6,145,243	0.216%
JNLBlackRock Global Allocation Fund	BHP Group Limited			Equity	69,566	2,251,092	0.079%
JNLBlackRock Global Allocation Fund	Mitsubishi Electric Corporation			Equity	110,600	1,807,333	0.063%
JNLBlackRock Global Allocation Fund	Chicony Electronics Co., Ltd.			Equity	178,470	927,283	0.032%
JNLBlackRock Global Allocation Fund	CMR Group Holdings Berhad			Equity	40,000	78,166	0.003%
JNLBlackRock Global Allocation Fund	Abu Dhabi Commercial Bank PJSC			Equity	28,050	64,356	0.002%
JNLBlackRock Global Allocation Fund	Mitsubishi UFJ Financial Group Inc			Equity	1,095,800	11,355,682	0.397%
JNLBlackRock Global Allocation Fund	Hero MotoCorp Limited			Equity	2,528	172,934	0.006%
JNLBlackRock Global Allocation Fund	Panasonic Holdings Corporation			Equity	211,900	1,879,127	0.066%
JNLBlackRock Global Allocation Fund	Canon Inc.			Equity	6,700	618,643	0.021%
JNLBlackRock Global Allocation Fund	Hoya Corporation			Equity	85,122	11,784,875	0.412%
JNLBlackRock Global Allocation Fund	Bridgestone Corporation			Equity	7,200	276,550	0.010%
JNLBlackRock Global Allocation Fund	IndusInd Bank Ltd.			Equity	12,045	208,580	0.007%
JNLBlackRock Global Allocation Fund	Kuraray Co., Ltd.			Equity	15,810	277,018	0.009%
JNLBlackRock Global Allocation Fund	Fast Retailing Co., Ltd.			Equity	1,800	601,735	0.021%
JNLBlackRock Global Allocation Fund	MediaTek Inc.			Equity	56,760	2,119,574	0.074%
JNLBlackRock Global Allocation Fund	Advanced Info Service PLC.			Equity	20,800	168,044	0.006%
JNLBlackRock Global Allocation Fund	Dalmeida Industries, Ltd.			Equity	24,427	600,286	0.021%
JNLBlackRock Global Allocation Fund	Quanta Computer Inc.			Equity	253,639	2,119,520	0.074%
JNLBlackRock Global Allocation Fund	Inventec Corporation			Equity	216,000	295,669	0.010%
JNLBlackRock Global Allocation Fund	Mitsui O.S.K. Lines, Ltd.			Equity	46,200	1,651,933	0.058%
JNLBlackRock Global Allocation Fund	Hitachi, Ltd.			Equity	50,200	1,360,669	0.048%
JNLBlackRock Global Allocation Fund	Evergreen Marine Corporation (Taiwan) Ltd.			Equity	169,000	1,079,763	0.038%
JNLBlackRock Global Allocation Fund	Makita Corporation			Equity	6,209	210,721	0.007%
JNLBlackRock Global Allocation Fund	Captec Bank Holdings			Equity	600	105,346	0.004%
JNLBlackRock Global Allocation Fund	Lenovo Group Limited			Equity	220,000	256,286	0.009%
JNLBlackRock Global Allocation Fund	BYD Company Limited			Equity	347,000	12,495,736	0.437%
JNLBlackRock Global Allocation Fund	Metropolitan Bank & Trust Company			Equity	74,250	104,250	0.004%
JNLBlackRock Global Allocation Fund	Rio Tinto Limited			Equity	7,967	710,187	0.025%
JNLBlackRock Global Allocation Fund	CSL Limited			Equity	4,149	829,488	0.029%
JNLBlackRock Global Allocation Fund	International Container Terminal Services, Inc.			Equity	12,360	89,127	0.003%
JNLBlackRock Global Allocation Fund	Mizuho Financial Group, Inc.			Equity	26,600	559,889	0.020%
JNLBlackRock Global Allocation Fund	Reliance Industries Limited			Equity	7,329	258,703	0.009%
JNLBlackRock Global Allocation Fund	Koara Mahindra Bank Limited			Equity	68,952	1,579,197	0.053%
JNLBlackRock Global Allocation Fund	FANUC Corporation			Equity	26,291	770,383	0.027%
JNLBlackRock Global Allocation Fund	Hyundai Mipo Dockyard Co., Ltd.			Equity	1,704	130,390	0.005%
JNLBlackRock Global Allocation Fund	Hyundai Motor Company			Equity	2,848	533,862	0.019%
JNLBlackRock Global Allocation Fund	FirstRand Limited			Equity	68,517	329,331	0.012%
JNLBlackRock Global Allocation Fund	Moderna, Inc.			Equity	2,404	1,660,628	0.058%
JNLBlackRock Global Allocation Fund	Mitsui & Co., Ltd.			Equity	424,900	5,593,218	0.336%
JNLBlackRock Global Allocation Fund	FUJIFILM Holdings Corporation			Equity	98,951	2,570,506	0.090%
JNLBlackRock Global Allocation Fund	Sojitz Corporation			Equity	33,300	802,991	0.028%
JNLBlackRock Global Allocation Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	2,600	208,404	0.007%
JNLBlackRock Global Allocation Fund	PT. Ciputra Development			Equity	1,618,100	142,608	0.005%
JNLBlackRock Global Allocation Fund	Doosan Enerbility Co Ltd			Equity	93,271	1,284,050	0.045%
JNLBlackRock Global Allocation Fund	Nomura Research Institute, Ltd.			Equity	50,741	1,883,007	0.066%
JNLBlackRock Global Allocation Fund	Vestlammers Limited			Equity	4,540	178,321	0.006%
JNLBlackRock Global Allocation Fund	Nippon Paint Holdings Co., Ltd.			Equity	240,495	1,832,368	0.064%
JNLBlackRock Global Allocation Fund	Santen Pharmaceutical Co., Ltd.			Equity	26,717	326,025	0.011%
JNLBlackRock Global Allocation Fund	Mazda Motor Corporation			Equity	97,400	757,942	0.027%
JNLBlackRock Global Allocation Fund	ABB Ltd			Equity	26,931	1,562,590	0.055%
JNLBlackRock Global Allocation Fund	Kakaku.com, Inc.			Equity	6,500	114,078	0.004%
JNLBlackRock Global Allocation Fund	Nippon Yusen Kabushiki Kaisha			Equity	27,300	1,023,456	0.036%
JNLBlackRock Global Allocation Fund	Tokyo Electron Limited			Equity	6,700	1,201,672	0.042%
JNLBlackRock Global Allocation Fund	Takeda Pharmaceutical Co. Ltd.			Equity	3,400	99,741	0.003%
JNLBlackRock Global Allocation Fund	Ono Pharmaceutical Co., Ltd.			Equity	17,100	233,506	0.008%
JNLBlackRock Global Allocation Fund	Nestle S.A.			Equity	17,990	1,806,194	0.063%
JNLBlackRock Global Allocation Fund	Nider, Corporation			Equity	59,600	1,261,527	0.044%
JNLBlackRock Global Allocation Fund	Proszednia Kasa Oszczednosci Bank Polski Spolka Akcyjna			Equity	2,348	1,340,004	0.046%
JNLBlackRock Global Allocation Fund	Emar Properties (P.J.S.C)			Equity	93,749	222,578	0.008%
JNLBlackRock Global Allocation Fund	Astellas Pharma Inc.			Equity	10,200	119,454	0.004%
JNLBlackRock Global Allocation Fund	Turkiye Is Bankasi Anonim Sirketi			Equity	341,554	140,992	0.005%
JNLBlackRock Global Allocation Fund	Woodwards Group Limited			Equity	60,299	1,390,749	0.049%
JNLBlackRock Global Allocation Fund	Equinor ASA			Equity	60,272	1,555,144	0.053%
JNLBlackRock Global Allocation Fund	OTP Bank Nyrt.			Equity	2,344	122,493	0.004%
JNLBlackRock Global Allocation Fund	PT. Bank Central Asia Tbk			Equity	1,584,700	1,080,608	0.038%
JNLBlackRock Global Allocation Fund	Larsen and Toubro Limited			Equity	3,342	147,018	0.005%
JNLBlackRock Global Allocation Fund	Yamaha Motor Co., Ltd.			Equity	105,120	943,565	0.033%
JNLBlackRock Global Allocation Fund	Snam S.P.A.			Equity	71,024	361,681	0.013%
JNLBlackRock Global Allocation Fund	Toyota Tsusho Corporation			Equity	42,900	789,683	0.028%
JNLBlackRock Global Allocation Fund	Greek Organisation of Football Prognostics S.A.			Equity	4,209	74,835	0.003%
JNLBlackRock Global Allocation Fund	Samsung Electronics Co., Ltd.			Equity	33,542	1,578,838	0.055%
JNLBlackRock Global Allocation Fund	AXA			Equity	58,222	2,246,849	0.079%
JNLBlackRock Global Allocation Fund	PT Bank Negara Indonesia (Persero), Tbk.			Equity	1,670,900	591,121	0.021%
JNLBlackRock Global Allocation Fund	Wistron Corporation			Equity	157,000	505,222	0.018%
JNLBlackRock Global Allocation Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	617,000	1,786,658	0.063%
JNLBlackRock Global Allocation Fund	Holcim AG			Equity	16,018	1,566,132	0.055%
JNLBlackRock Global Allocation Fund	Cipla Limited			Equity	14,175	280,727	0.010%
JNLBlackRock Global Allocation Fund	Shiseido Company, Limited			Equity	9,100	245,869	0.009%
JNLBlackRock Global Allocation Fund	LPP Spolka Akcyjna			Equity	76	116	0.000%
JNLBlackRock Global Allocation Fund	Weichai Power Co., Ltd.			Equity	459,000	863,355	0.030%
JNLBlackRock Global Allocation Fund	UltraTech Cement Limited			Equity	1,951	275,784	0.010%
JNLBlackRock Global Allocation Fund	Great Wall Motor Company Limited			Equity	346,500	636,927	0.022%
JNLBlackRock Global Allocation Fund	J Sainsbury PLC			Equity	404,813	1,601,714	0.056%
JNLBlackRock Global Allocation Fund	Sekisui House, Ltd.			Equity	19,700	847,578	0.031%
JNLBlackRock Global Allocation Fund	Maruti Suzuki India Limited			Equity	1,038	164,402	0.006%
JNLBlackRock Global Allocation Fund	UOL Group Limited			Equity	37,593	162,528	0.006%
JNLBlackRock Global Allocation Fund	EssilorLuxoft			Equity	28,469	6,728,919	0.235%
JNLBlackRock Global Allocation Fund	BNP Paribas			Equity	4,855	78,166	0.003%
JNLBlackRock Global Allocation Fund	MGM Resorts International	6/15/2025	5.75	Fixed Income	100,000	102,169	0.004%
JNLBlackRock Global Allocation Fund	Compagnie De Saint-Gobain			Equity	127,533	11,604,418	0.406%
JNLBlackRock Global Allocation Fund	TDK Corporation			Equity	26,500	643,263	0.021%
JNLBlackRock Global Allocation Fund	Capaxion PLC			Equity	48,799	2,571,763	0.090%
JNLBlackRock Global Allocation Fund	Novartis AG			Equity	6,061	698,666	0.024%
JNLBlackRock Global Allocation Fund	Nintendo Co., Ltd.			Equity	5,700	305,599	0.011%
JNLBlackRock Global Allocation Fund	Delta Air Lines, Inc.			Equity	191,096	9,705,766	0.339%
JNLBlackRock Global Allocation Fund	MasterCard Incorporated			Equity	47,291	23,282,096	0.812%
JNLBlackRock Global Allocation Fund	Kumba Iron Ore Ltd			Equity	12,593	292,762	0.010%
JNLBlackRock Global Allocation Fund	Aldar Properties - P.J.S.C			Equity	35,873	73,494	0.003%
JNLBlackRock Global Allocation Fund	Masimo Corporation			Equity	31,404	4,187,095	0.146%
JNLBlackRock Global Allocation Fund	Banco de Sabadell, S.A.			Equity	144,333	319,191	0.011%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNU/BlackRock Global Allocation Fund	Franco-Nevada Corporation			Equity	21,548	2,676,353	0.094%
JNU/BlackRock Global Allocation Fund	Chiquette Mexican Grill, Inc.			Equity	119,035	6,980,177	0.238%
JNU/BlackRock Global Allocation Fund	Live Nation Entertainment, Inc.			Equity	42,921	4,699,420	0.164%
JNU/BlackRock Global Allocation Fund	DexCom, Inc.			Equity	41,697	2,795,367	0.089%
JNU/BlackRock Global Allocation Fund	MTU Aero Engines AG			Equity	5,944	1,854,982	0.065%
JNU/BlackRock Global Allocation Fund	Brambles Limited			Equity	69,487	630,669	0.023%
JNU/BlackRock Global Allocation Fund	Macquarie Group Limited			Equity	9,918	1,434,204	0.050%
JNU/BlackRock Global Allocation Fund	Symrise AG			Equity	7,361	1,016,878	0.036%
JNU/BlackRock Global Allocation Fund	Aditeobagel Volvo			Equity	127,002	3,358,618	0.117%
JNU/BlackRock Global Allocation Fund	Kühne & Nagel International AG			Equity	5,542	1,514,732	0.053%
JNU/BlackRock Global Allocation Fund	Invesco Ltd			Equity	86,686	1,522,206	0.053%
JNU/BlackRock Global Allocation Fund	London Stock Exchange Group PLC			Equity	25,601	3,496,071	0.122%
JNU/BlackRock Global Allocation Fund	SCOR SE			Equity	6,629	148,349	0.005%
JNU/BlackRock Global Allocation Fund	Relx PLC			Equity	195,323	9,216,504	0.322%
JNU/BlackRock Global Allocation Fund	Godrej Consumer Products Limited			Equity	13,899	231,378	0.008%
JNU/BlackRock Global Allocation Fund	Embraer S.A.			Equity	28,016	247,931	0.009%
JNU/BlackRock Global Allocation Fund	Green Plains Inc.			Equity	23,068	312,341	0.011%
JNU/BlackRock Global Allocation Fund	Samsung Life Insurance Co., Ltd.			Equity	4,095	292,518	0.010%
JNU/BlackRock Global Allocation Fund	MSCI Inc.			Equity	5,212	3,038,231	0.106%
JNU/BlackRock Global Allocation Fund	Lululemon Athletica Inc.			Equity	4,442	1,205,337	0.042%
JNU/BlackRock Global Allocation Fund	Daichi Sankyo Company, Limited			Equity	75,731	2,504,002	0.088%
JNU/BlackRock Global Allocation Fund	Anglo American PLC			Equity	12,406	403,696	0.014%
JNU/BlackRock Global Allocation Fund	CF Industries Holdings, Inc.			Equity	103,590	8,889,022	0.311%
JNU/BlackRock Global Allocation Fund	CP ALL Public Company Limited			Equity	34,600	70,380	0.002%
JNU/BlackRock Global Allocation Fund	TransDigm Group Incorporated			Equity	2,812	4,013,090	0.140%
JNU/BlackRock Global Allocation Fund	TotalEnergies SE			Equity	51,016	3,388,506	0.119%
JNU/BlackRock Global Allocation Fund	NEXON Co., Ltd.			Equity	13,600	1,369,240	0.049%
JNU/BlackRock Global Allocation Fund	Isetan Mitsubishi Holdings Ltd.			Equity	32,800	519,128	0.018%
JNU/BlackRock Global Allocation Fund	Jerónimo Martins, SGPS, S.A.			Equity	6,645	130,547	0.005%
JNU/BlackRock Global Allocation Fund	Wynn Macau, Limited			Equity	946,475	816,062	0.029%
JNU/BlackRock Global Allocation Fund	Powozedny Zakład Ubezpieczeń Spółka Akcyjna			Equity	73,256	884,853	0.031%
JNU/BlackRock Global Allocation Fund	Evoink Industries AG			Equity	84,663	1,515,465	0.053%
JNU/BlackRock Global Allocation Fund	Sompo Holdings, Inc.			Equity	73,700	1,685,387	0.059%
JNU/BlackRock Global Allocation Fund	AIA Group Limited			Equity	652,005	5,673,018	0.198%
JNU/BlackRock Global Allocation Fund	Meiji Holdings Co., Ltd.			Equity	10,058	254,864	0.009%
JNU/BlackRock Global Allocation Fund	Da-ichi Life Holdings, Inc.			Equity	29,800	295,800	0.010%
JNU/BlackRock Global Allocation Fund	Glencore PLC			Equity	1,420,340	8,105,145	0.283%
JNU/BlackRock Global Allocation Fund	Tesla Inc.			Equity	28,150	7,364,885	0.258%
JNU/BlackRock Global Allocation Fund	Fortinet, Inc.			Equity	69,029	5,422,994	0.190%
JNU/BlackRock Global Allocation Fund	Amadeus IT Holding, S.A.			Equity	1,954	2,116,391	0.076%
JNU/BlackRock Global Allocation Fund	Transocean Ltd.			Equity	180,669	767,843	0.027%
JNU/BlackRock Global Allocation Fund	American Water Works Company, Inc.			Equity	12,581	1,839,845	0.064%
JNU/BlackRock Global Allocation Fund	Dollar General Corporation			Equity	5,889	481,119	0.017%
JNU/BlackRock Global Allocation Fund	Edment			Equity	17,850	1,075,545	0.038%
JNU/BlackRock Global Allocation Fund	ASMedia Technology Inc.			Equity	21,000	1,075,900	0.038%
JNU/BlackRock Global Allocation Fund	Magazine Luiza S.A.			Equity	95,867	169,994	0.006%
JNU/BlackRock Global Allocation Fund	AMC Networks, Inc.			Equity	14,525	126,222	0.004%
JNU/BlackRock Global Allocation Fund	Visa Inc.			Equity	36,291	10,095,705	0.350%
JNU/BlackRock Global Allocation Fund	MSAD Insurance Group Holdings, Inc.			Equity	100,100	2,387,350	0.084%
JNU/BlackRock Global Allocation Fund	NMC Health PLC			Equity	161,633	0	0.000%
JNU/BlackRock Global Allocation Fund	Julius Baer Gruppe AG			Equity	15,680	944,239	0.033%
JNU/BlackRock Global Allocation Fund	SPAM Systems, Inc.			Equity	607	120,811	0.004%
JNU/BlackRock Global Allocation Fund	Seegene, Inc.			Equity	5,049	95,709	0.003%
JNU/BlackRock Global Allocation Fund	Kinder Morgan, Inc.			Equity	12,866	284,210	0.010%
JNU/BlackRock Global Allocation Fund	Suncor Energy Inc.			Equity	170,298	6,285,834	0.220%
JNU/BlackRock Global Allocation Fund	Philip Morris International Inc.			Equity	3,751	560,455	0.019%
JNU/BlackRock Global Allocation Fund	Rolls-Royce Holdings PLC			Equity	234,152	1,658,141	0.058%
JNU/BlackRock Global Allocation Fund	Cenovus Energy Inc.			Equity	20,399	341,177	0.012%
JNU/BlackRock Global Allocation Fund	Nutrien Ltd.			Equity	6,479	314,831	0.011%
JNU/BlackRock Global Allocation Fund	REC Limited			Equity	11,606	77,355	0.003%
JNU/BlackRock Global Allocation Fund	Meta Platforms, Inc.			Equity	42,260	24,251,983	0.848%
JNU/BlackRock Global Allocation Fund	ServiceNow, Inc.			Equity	11,872	10,618,198	0.371%
JNU/BlackRock Global Allocation Fund	Valero			Equity	21,600	260,074	0.009%
JNU/BlackRock Global Allocation Fund	B3 Seguridade Participações S.A.			Equity	36,612	240,061	0.008%
JNU/BlackRock Global Allocation Fund	Zetec Inc.			Equity	11,344	2,116,391	0.076%
JNU/BlackRock Global Allocation Fund	Ferrari N.V.			Equity	9,627	4,511,075	0.158%
JNU/BlackRock Global Allocation Fund	Kyushu Railway Company			Equity	36,700	1,068,976	0.037%
JNU/BlackRock Global Allocation Fund	Novus Corporation			Equity	9,400	251,403	0.009%
JNU/BlackRock Global Allocation Fund	Koninklijke Abn-Amro Deilheze N.V.			Equity	70,505	2,430,278	0.085%
JNU/BlackRock Global Allocation Fund	MONETA Money Bank, a.s.			Equity	9,929	48,737	0.002%
JNU/BlackRock Global Allocation Fund	National Grid PLC			Equity	690,433	9,516,320	0.333%
JNU/BlackRock Global Allocation Fund	PT Astra International Tbk			Equity	341,400	114,072	0.004%
JNU/BlackRock Global Allocation Fund	ASML Holding N.V.			Equity	24,759	20,882,742	0.728%
JNU/BlackRock Global Allocation Fund	GoDaddy Inc.			Equity	7,240	1,135,087	0.040%
JNU/BlackRock Global Allocation Fund	Lions Gate Entertainment Corp.			Equity	4,164	28,815	0.001%
JNU/BlackRock Global Allocation Fund	Lions Gate Entertainment Corp.			Equity	63,819	499,703	0.017%
JNU/BlackRock Global Allocation Fund	Abbvie Inc.			Equity	6,077	1,200,086	0.042%
JNU/BlackRock Global Allocation Fund	Apeas SA/NV			Equity	2,711	144,753	0.005%
JNU/BlackRock Global Allocation Fund	Palo Alto Networks, Inc.			Equity	16,905	5,778,129	0.202%
JNU/BlackRock Global Allocation Fund	Weichai Power Co., Ltd.			Equity	869,400	1,957,455	0.068%
JNU/BlackRock Global Allocation Fund	MOL Hungarian Oil and Gas Public Limited Company			Equity	19,070	142,722	0.005%
JNU/BlackRock Global Allocation Fund	Coca-Cola HBC AG			Equity	6,592	625,215	0.008%
JNU/BlackRock Global Allocation Fund	Norwegian Cruise Line Holdings Ltd.			Equity	42,706	875,900	0.031%
JNU/BlackRock Global Allocation Fund	Eaton Corporation Public Limited Company			Equity	16,556	5,487,321	0.192%
JNU/BlackRock Global Allocation Fund	Compass Group PLC			Equity	231,245	7,417,817	0.259%
JNU/BlackRock Global Allocation Fund	Workday, Inc.			Equity	19,971	4,891,112	0.171%
JNU/BlackRock Global Allocation Fund	SPDR Gold Shares			Fund	12,000	2,916,720	0.102%
JNU/BlackRock Global Allocation Fund	Alice USA, Inc.			Equity	56,939	140,070	0.005%
JNU/BlackRock Global Allocation Fund	Sea Limited			Equity	919	86,843	0.003%
JNU/BlackRock Global Allocation Fund	Wistris Corp.			Equity	93,581	11,093,082	0.388%
JNU/BlackRock Global Allocation Fund	Astrazeneca PLC			Equity	17,042	1,327,742	0.046%
JNU/BlackRock Global Allocation Fund	Ambev S.A.			Equity	341,875	823,984	0.029%
JNU/BlackRock Global Allocation Fund	Floor & Decor Holdings, Inc.			Equity	32,595	4,047,321	0.142%
JNU/BlackRock Global Allocation Fund	Lookout, Inc.			Equity	283,784	2,530,678	0.089%
JNU/BlackRock Global Allocation Fund	B3 S.A. - Brasil, Bolsa, Balcão			Equity	906,199	1,802,461	0.063%
JNU/BlackRock Global Allocation Fund	ING Groep N.V.			Equity	206,868	3,764,325	0.132%
JNU/BlackRock Global Allocation Fund	ABN AMRO Bank N.V.			Equity	23,314	421,942	0.015%
JNU/BlackRock Global Allocation Fund	Tencent Holdings Limited			Equity	119,184	6,394,511	0.224%
JNU/BlackRock Global Allocation Fund	Bank Of Georgia Group PLC			Equity	1,256	63,330	0.002%
JNU/BlackRock Global Allocation Fund	iShares Box \$ High Yield Corporate Bond ETF			Fund	30,282	(2,431,645)	-0.085%
JNU/BlackRock Global Allocation Fund	Sika AG			Equity	3,830	1,270,925	0.044%
JNU/BlackRock Global Allocation Fund	Broadcom Inc.			Equity	107,065	18,468,713	0.646%
JNU/BlackRock Global Allocation Fund	James Hardie Industries Public Limited Company			Equity	21,577	862,108	0.030%
JNU/BlackRock Global Allocation Fund	Booking Holdings Inc.			Equity	550	2,316,666	0.081%
JNU/BlackRock Global Allocation Fund	Veeva Systems Inc.			Equity	3,435	720,903	0.025%
JNU/BlackRock Global Allocation Fund	Lookout, Inc.			Equity	20,710	19,875	0.001%
JNU/BlackRock Global Allocation Fund	iShares Core S&P Small Cap ETF			Fund	12,351	1,444,573	0.051%
JNU/BlackRock Global Allocation Fund	ASE Technology Holding Co., Ltd.			Equity	84,000	397,224	0.014%
JNU/BlackRock Global Allocation Fund	Jawbone Inc.			Equity	97,846	0	0.000%
JNU/BlackRock Global Allocation Fund	Oren Incorporation			Equity	3,209	240,078	0.008%
JNU/BlackRock Global Allocation Fund	Axis Bank Limited			Equity	13,919	4,951,001	0.097%
JNU/BlackRock Global Allocation Fund	S&P Global Inc.			Equity	8,956	4,626,849	0.162%
JNU/BlackRock Global Allocation Fund	Equity Residential			Equity	1,954	145,943	0.005%
JNU/BlackRock Global Allocation Fund	Elevance Health, Inc.			Equity	2,844	2,050,880	0.072%
JNU/BlackRock Global Allocation Fund	Zilando SE			Equity	12,760	421,425	0.015%
JNU/BlackRock Global Allocation Fund	Interlobe Aviation Limited			Equity	2,333	133,776	0.005%
JNU/BlackRock Global Allocation Fund	Plutur Entertainment Public Limited Company			Equity	2,171	510,890	0.018%
JNU/BlackRock Global Allocation Fund	Eversource Energy			Equity	29,708	2,021,629	0.071%
JNU/BlackRock Global Allocation Fund	Golden Entertainment, Inc.			Equity	2,118	67,861	0.002%
JNU/BlackRock Global Allocation Fund	ETSY, Inc.			Equity	18,583	1,031,914	0.036%
JNU/BlackRock Global Allocation Fund	Wal - Mart de Mexico, S.A.B. de C.V.			Equity	229,267	691,760	0.024%
JNU/BlackRock Global Allocation Fund	Celnex Telecom, S.A.			Equity	338,828	13,730,725	0.480%
JNU/BlackRock Global Allocation Fund	Synchrony Financial			Equity	21,818	1,088,262	0.038%
JNU/BlackRock Global Allocation Fund	Block, Inc.			Equity	17,936	1,183,905	0.041%
JNU/BlackRock Global Allocation Fund	Alphabet Inc.			Equity	226,512	37,870,541	1.325%
JNU/BlackRock Global Allocation Fund	Dell Technologies Inc.			Equity	14,546	1,724,283	0.060%
JNU/BlackRock Global Allocation Fund	Yum China Holdings, Inc.			Equity	3,780	3,701,789	0.096%
JNU/BlackRock Global Allocation Fund	Medibank Private Limited			Equity	127,379	322,599	0.011%
JNU/BlackRock Global Allocation Fund	Auto Trader Group PLC			Equity	115,734	1,346,427	0.047%
JNU/BlackRock Global Allocation Fund	Zscaler, Inc.			Equity	10,144	1,734,015	0.061%
JNU/BlackRock Global Allocation Fund	Industria de Diseño Textil, S.A.			Equity	17,605	1,042,389	0.038%
JNU/BlackRock Global Allocation Fund	UBS Group AG			Equity	33,625	1,041,288	0.038%
JNU/BlackRock Global Allocation Fund	Unicredit, Società Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	285,350	12,549,352	0.439%
JNU/BlackRock Global Allocation Fund	Capri Holdings Limited			Equity	11,136	472,612	0.017%
JNU/BlackRock Global Allocation Fund	Equinix, Inc.			Equity	1,438	1,276,412	0.045%
JNU/BlackRock Global Allocation Fund	Prologis Inc.			Equity	10,767	1,359,657	0.048%
JNU/BlackRock Global Allocation Fund	Gerdau S.A.			Equity	67,841	238,353	0.008%
JNU/BlackRock Global Allocation Fund	American Tower Corporation			Equity	40,601	9,442,169	0.330%
JNU/BlackRock Global Allocation Fund	Companhia Energetica de Minas Gerais-CEMIG			Equity	461,760	1,024,093	0.036%
JNU/BlackRock Global Allocation Fund	Ventis, Inc.			Equity	14,865	653,292	0.023%
JNU/BlackRock Global Allocation Fund	iShares JP Morgan USD Emerging Markets Bond ETF			Fund	18,775	1,756,965	0.061%
JNU/BlackRock Global Allocation Fund	CitiGroup Capital XII	10/30/2040	11.89	Equity	70,097	2,093,797	0.073%
JNU/BlackRock Global Allocation Fund	Park Hotels & Resorts Inc.			Equity	12,574	180,437	0.006%
JNU/BlackRock Global Allocation Fund	Wells Fargo & Company	7/50		Equity	893	1,451,616	0.049%
JNU/BlackRock Global Allocation Fund	iShares 0-5 Year TIPS Bond ETF			Fund	30,606	3,101,000	0.108%
JNU/BlackRock Global Allocation Fund	USB Capital IX	1/1/2200	6.58	Fixed Income	594,000	508,461	0.018%
JNU/BlackRock Global Allocation Fund	Paramount Global	7/30/2030	7.88	Fixed Income	803,000	889,400	0.031%
JNU/BlackRock Global Allocation Fund	Altair Engineering Inc.			Equity	34,448	3,290,128	0.115%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Telenet Finance Luxembourg Notes S.A.R.L.	3/1/2028	5.50	Fixed Income	200,000	197,832	0.007%
JNLBlackRock Global Allocation Fund	CyberArk Software Ltd.			Equity	1,971	574,763	0.020%
JNLBlackRock Global Allocation Fund	SPDR S&P Homebuilders ETF			Fund	12,289	1,530,718	0.054%
JNLBlackRock Global Allocation Fund	DISH DBS Corporation	11/15/2024	5.88	Fixed Income	938,000	952,602	0.033%
JNLBlackRock Global Allocation Fund	BNP Paribas	1/23/2027	2.13	Fixed Income	600,000	668,478	0.023%
JNLBlackRock Global Allocation Fund	Presidencia da Republica	1/1/2025	10.00	Fixed Income	9,881,000	1,872,842	0.069%
JNLBlackRock Global Allocation Fund	Crown America, LLC	2/1/2026	4.75	Fixed Income	100,000	100,448	0.004%
JNLBlackRock Global Allocation Fund	Vistra Operations Company LLC	2/15/2027	5.63	Fixed Income	1,715,000	1,725,114	0.060%
JNLBlackRock Global Allocation Fund	Sprint Spectrum Co LLC	3/20/2025	4.74	Fixed Income	78,750	78,712	0.003%
JNLBlackRock Global Allocation Fund	Commscope Holding Company, Inc.	6/15/2025	6.00	Fixed Income	400,000	384,614	0.014%
JNLBlackRock Global Allocation Fund	Bank of America Corporation	1/23/2026	3.37	Fixed Income	828,000	859,611	0.029%
JNLBlackRock Global Allocation Fund	Western Digital Corporation	2/15/2026	4.75	Fixed Income	200,000	200,018	0.007%
JNLBlackRock Global Allocation Fund	ADLER Real Estate Service GmbH	4/27/2026	3.00	Fixed Income	300,000	320,959	0.011%
JNLBlackRock Global Allocation Fund	Calpine Corporation	6/1/2026	5.25	Fixed Income	100,000	101,456	0.004%
JNLBlackRock Global Allocation Fund	H2O Venwelligs GmbH	9/15/2026	3.75	Fixed Income	640,000	718,189	0.025%
JNLBlackRock Global Allocation Fund	The Goodyear Tire & Rubber Company	5/31/2026	5.00	Fixed Income	100,000	100,128	0.004%
JNLBlackRock Global Allocation Fund	HCA Inc.	6/15/2026	5.25	Fixed Income	441,000	451,106	0.016%
JNLBlackRock Global Allocation Fund	United Rentals (North America), Inc.	5/15/2027	5.50	Fixed Income	100,000	100,822	0.004%
JNLBlackRock Global Allocation Fund	CSC Holdings, LLC	4/15/2027	5.50	Fixed Income	856,000	772,999	0.027%
JNLBlackRock Global Allocation Fund	The Chemours Company	5/15/2027	5.38	Fixed Income	100,000	99,910	0.003%
JNLBlackRock Global Allocation Fund	Barclays PLC	2/12/2027	3.25	Fixed Income	100,000	131,469	0.005%
JNLBlackRock Global Allocation Fund	Presidencia da Republica	1/1/2027	10.00	Fixed Income	32,197,000	5,807,888	0.203%
JNLBlackRock Global Allocation Fund	Wynn Las Vegas, LLC	5/15/2027	5.25	Fixed Income	100,000	102,011	0.004%
JNLBlackRock Global Allocation Fund	Kraft Heinz Foods Company	7/1/2027	4.13	Fixed Income	100,000	133,529	0.005%
JNLBlackRock Global Allocation Fund	FirstEnergy Corp.	7/15/2027	3.90	Fixed Income	100,000	99,782	0.003%
JNLBlackRock Global Allocation Fund	Netflix, Inc.	5/15/2027	3.63	Fixed Income	1,048,000	1,205,162	0.042%
JNLBlackRock Global Allocation Fund	The Republic of Indonesia, The Government of	5/15/2027	7.00	Fixed Income	28,215,000,000	1,947,257	0.069%
JNLBlackRock Global Allocation Fund	United Rentals (North America), Inc.	11/15/2028	4.88	Fixed Income	100,000	100,386	0.004%
JNLBlackRock Global Allocation Fund	Standard Building Solutions Inc.	1/15/2028	4.75	Fixed Income	100,000	98,956	0.003%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	1/11/2028	3.75	Fixed Income	280,000	275,442	0.010%
JNLBlackRock Global Allocation Fund	Aramark Services, Inc.	2/1/2028	5.00	Fixed Income	100,000	100,494	0.004%
JNLBlackRock Global Allocation Fund	Departamento Administrativo De La Presidencia De La Republica	4/28/2028	6.63	Fixed Income	24,874,200,000	5,535,856	0.194%
JNLBlackRock Global Allocation Fund	Saudi Arabia, Kingdom of	4/1/2030	4.50	Fixed Income	399,000	408,923	0.014%
JNLBlackRock Global Allocation Fund	South Africa, Parliament of	1/31/2030	8.00	Fixed Income	83,503,574	4,730,683	0.165%
JNLBlackRock Global Allocation Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.	6/19/2032	5.86	Fixed Income	200,000	204,589	0.007%
JNLBlackRock Global Allocation Fund	The Unique Pub Finance Company PLC	6/30/2032	6.63	Fixed Income	327,000	282,903	0.010%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/23/2034	7.75	Fixed Income	15,135,300	709,608	0.025%
JNLBlackRock Global Allocation Fund	EnLink Midstream Partners, LP	7/15/2026	4.85	Fixed Income	200,000	202,554	0.007%
JNLBlackRock Global Allocation Fund	South Africa, Parliament of	1/31/2040	9.00	Fixed Income	29,496,096	1,520,319	0.053%
JNLBlackRock Global Allocation Fund	Amkor Technology, Inc.	9/15/2027	6.63	Fixed Income	280,000	282,903	0.010%
JNLBlackRock Global Allocation Fund	South Africa, Parliament of	1/31/2044	8.75	Fixed Income	40,608,579	2,003,272	0.070%
JNLBlackRock Global Allocation Fund	Clarios Global LP	5/15/2026	6.25	Fixed Income	200,000	204,746	0.007%
JNLBlackRock Global Allocation Fund	Prime Security Services Borrower, LLC	4/15/2026	5.75	Fixed Income	100,000	100,759	0.004%
JNLBlackRock Global Allocation Fund	Shares Biotechnology C1F			Fund	20,000	2,902,000	0.102%
JNLBlackRock Global Allocation Fund	VanEck Semiconductor ETF			Fund	33,502	8,223,066	0.288%
JNLBlackRock Global Allocation Fund	Darling Ingredients Inc.	4/15/2027	5.25	Fixed Income	100,000	101,901	0.004%
JNLBlackRock Global Allocation Fund	Alcon AG			Equity	4,276	430,518	0.015%
JNLBlackRock Global Allocation Fund	Electrolite de France	1/1/2020	6.00	Fixed Income	200,000	238,549	0.009%
JNLBlackRock Global Allocation Fund	KQVIA Inc.	5/15/2027	5.00	Fixed Income	200,000	202,540	0.007%
JNLBlackRock Global Allocation Fund	Fidelity National Information Services, Inc.	5/21/2027	1.50	Fixed Income	579,000	627,096	0.022%
JNLBlackRock Global Allocation Fund	BHMS 2018-ATLS	7/16/2035	6.64	Fixed Income	1,034,262	1,036,670	0.036%
JNLBlackRock Global Allocation Fund	BHMS 2018-ATLS	7/16/2035	7.29	Fixed Income	458,928	458,928	0.016%
JNLBlackRock Global Allocation Fund	Rockies Express Pipeline LLC	7/15/2029	4.95	Fixed Income	96,448	96,448	0.003%
JNLBlackRock Global Allocation Fund	DuPont de Nemours, Inc.			Equity	21,381	1,905,261	0.067%
JNLBlackRock Global Allocation Fund	Contemporary Amperex Technology Co., Limited			Equity	148,371	5,240,010	0.183%
JNLBlackRock Global Allocation Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2031	6.95	Fixed Income	11,869,000	3,455,388	0.121%
JNLBlackRock Global Allocation Fund	Saudi Basic Industries Corporation			Equity	4,826	98,497	0.003%
JNLBlackRock Global Allocation Fund	Saudi National Bank, The			Equity	28,409	260,189	0.009%
JNLBlackRock Global Allocation Fund	Crown/Slrike Holdings, Inc.			Equity	13,603	3,815,233	0.133%
JNLBlackRock Global Allocation Fund	Outfront Media Capital Corporation	8/15/2027	5.00	Fixed Income	100,000	99,994	0.003%
JNLBlackRock Global Allocation Fund	Nexstar Escrow Inc.	7/15/2027	5.00	Fixed Income	100,000	100,292	0.004%
JNLBlackRock Global Allocation Fund	Calentel Pharma Solutions, Inc.	7/15/2027	5.00	Fixed Income	436,000	438,511	0.015%
JNLBlackRock Global Allocation Fund	EBARA Corporation			Equity	44,100	717,661	0.025%
JNLBlackRock Global Allocation Fund	Toyo Tire Corporation			Equity	5,503	124,784	0.004%
JNLBlackRock Global Allocation Fund	Blackwell Group Ltd.			Equity	42,460	267,943	0.009%
JNLBlackRock Global Allocation Fund	Kawasaki Kisen Kaisha, Ltd.			Equity	69,900	1,108,774	0.039%
JNLBlackRock Global Allocation Fund	Trelleborg AB			Equity	26,262	1,010,518	0.035%
JNLBlackRock Global Allocation Fund	CTS Everitt AG & Co. KGaA			Equity	6,837	712,548	0.025%
JNLBlackRock Global Allocation Fund	Rheinmetall Alltagsgesellschaft			Equity	1,151	625,689	0.022%
JNLBlackRock Global Allocation Fund	DISH Network Corporation	8/15/2026	3.38	Fixed Income	258,000	209,927	0.007%
JNLBlackRock Global Allocation Fund	Mitsui High-Tec, Inc.			Equity	18,700	117,867	0.004%
JNLBlackRock Global Allocation Fund	TIS Inc.			Equity	8,700	223,671	0.008%
JNLBlackRock Global Allocation Fund	Estado Espanol	7/9/2066	3.45	Fixed Income	2,764,000	2,985,070	0.102%
JNLBlackRock Global Allocation Fund	Estado Espanol	10/31/2046	2.90	Fixed Income	3,558,000	3,694,459	0.129%
JNLBlackRock Global Allocation Fund	Allied Universal Holdco LLC	7/15/2027	9.75	Fixed Income	254,000	259,674	0.009%
JNLBlackRock Global Allocation Fund	Romania, Government of	7/16/2031	2.12	Fixed Income	56,000	52,378	0.002%
JNLBlackRock Global Allocation Fund	MCE Finance Limited	7/17/2027	5.63	Fixed Income	200,000	197,121	0.007%
JNLBlackRock Global Allocation Fund	Iron Mountain Incorporated	3/15/2028	5.25	Fixed Income	100,000	99,943	0.003%
JNLBlackRock Global Allocation Fund	Olin Corporation	8/1/2029	5.63	Fixed Income	100,000	101,238	0.004%
JNLBlackRock Global Allocation Fund	Wiwynn Corporation			Equity	3,000	164,306	0.006%
JNLBlackRock Global Allocation Fund	Taylor Morrison Communities, Inc.	11/15/2028	5.75	Fixed Income	100,000	102,804	0.004%
JNLBlackRock Global Allocation Fund	The Arab Republic of Egypt	4/16/2030	5.63	Fixed Income	106,000	101,285	0.004%
JNLBlackRock Global Allocation Fund	Eldorado Gold Corporation			Equity	8,746	151,918	0.005%
JNLBlackRock Global Allocation Fund	Trivium Packaging Finance B.V.	8/15/2027	8.50	Fixed Income	214,000	216,735	0.008%
JNLBlackRock Global Allocation Fund	Alice Finance Holding S.A.	2/1/2027	5.88	Fixed Income	45,000	528,547	0.011%
JNLBlackRock Global Allocation Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.50	Fixed Income	48,988,070	42,848,278	1.498%
JNLBlackRock Global Allocation Fund	SPDR Blackstone Senior Loan ETF			Fund	32,790	1,369,310	0.048%
JNLBlackRock Global Allocation Fund	Ethiad Elisalat Company			Equity	11,808	164,665	0.006%
JNLBlackRock Global Allocation Fund	Yarbu National Petrochemical Company			Equity	6,579	97,747	0.003%
JNLBlackRock Global Allocation Fund	Haitian International Holding Ltd.			Equity	327,000	361,655	0.012%
JNLBlackRock Global Allocation Fund	Clear Channel Outdoor Holdings, Inc.	8/15/2027	5.13	Fixed Income	100,000	98,961	0.003%
JNLBlackRock Global Allocation Fund	Evolution AB (publ)			Equity	8,185	804,230	0.028%
JNLBlackRock Global Allocation Fund	Great Wall Motor Company Limited			Equity	507,131	2,170,606	0.076%
JNLBlackRock Global Allocation Fund	Encompass Health Corporation	2/1/2028	4.50	Fixed Income	208,000	205,028	0.007%
JNLBlackRock Global Allocation Fund	Encompass Health Corporation	2/1/2030	4.75	Fixed Income	200,000	197,022	0.007%
JNLBlackRock Global Allocation Fund	Prosus N.V.			Equity	47,274	2,073,126	0.073%
JNLBlackRock Global Allocation Fund	Brookfield Residential Properties Inc.	9/15/2027	6.25	Fixed Income	100,000	100,063	0.003%
JNLBlackRock Global Allocation Fund	Sensata Technologies, Inc.	4/15/2030	4.38	Fixed Income	100,000	96,188	0.003%
JNLBlackRock Global Allocation Fund	Level 3 Financing, Inc.	9/15/2027	4.63	Fixed Income	317,000	281,597	0.010%
JNLBlackRock Global Allocation Fund	Connect Finco SARL	10/1/2026	6.75	Fixed Income	200,000	206,750	0.007%
JNLBlackRock Global Allocation Fund	CSC Holdings, LLC	12/31/2049		Fixed Income	297,333	271,423	0.009%
JNLBlackRock Global Allocation Fund	PT Pertamina (Persero)	7/30/2029	3.65	Fixed Income	361,000	349,258	0.012%
JNLBlackRock Global Allocation Fund	Fila Holdings Corp.			Equity	3,349	108,241	0.004%
JNLBlackRock Global Allocation Fund	Bharat Electronics Limited			Equity	36,887	126,361	0.004%
JNLBlackRock Global Allocation Fund	CCO Holdings, LLC	3/1/2030	4.75	Fixed Income	200,000	184,535	0.006%
JNLBlackRock Global Allocation Fund	Buckeye Partners, L.P.	12/1/2027	4.13	Fixed Income	100,000	97,844	0.003%
JNLBlackRock Global Allocation Fund	Healthpeak OP, LLC			Equity	109,511	2,481,738	0.087%
JNLBlackRock Global Allocation Fund	Xero Limited			Equity	6,300	653,165	0.023%
JNLBlackRock Global Allocation Fund	Charter Communications Operating, LLC	2/1/2027	7.08	Fixed Income	143,622	144,639	0.005%
JNLBlackRock Global Allocation Fund	Zogso BV	1/16/2029	6.44	Fixed Income	6,053,203	6,632,342	0.232%
JNLBlackRock Global Allocation Fund	Light and Wonder International, Inc.	11/15/2029	7.25	Fixed Income	229,000	243,194	0.009%
JNLBlackRock Global Allocation Fund	Outfront Media Capital Corporation	3/15/2030	4.63	Fixed Income	275,000	262,117	0.009%
JNLBlackRock Global Allocation Fund	Murphy Oil Corporation	12/1/2027	5.88	Fixed Income	100,000	103,197	0.004%
JNLBlackRock Global Allocation Fund	Restaurant Brands International Limited Partnership	1/15/2028	4.38	Fixed Income	100,000	98,993	0.003%
JNLBlackRock Global Allocation Fund	La Francaise Des Jeux			Equity	14,015	576,705	0.020%
JNLBlackRock Global Allocation Fund	Las Vegas Sands Corp.	6/25/2025	2.90	Fixed Income	100,000	99,009	0.003%
JNLBlackRock Global Allocation Fund	NagCorp Ltd.			Equity	154,000	73,578	0.003%
JNLBlackRock Global Allocation Fund	Paramount Global			Equity	36,371	420,246	0.015%
JNLBlackRock Global Allocation Fund	Newell Brands Inc.	4/1/2026	5.70	Fixed Income	100,000	103,103	0.004%
JNLBlackRock Global Allocation Fund	South Africa, Parliament of	2/28/2031	7.00	Fixed Income	37,389,515	1,951,028	0.068%
JNLBlackRock Global Allocation Fund	BX Trust 2019-OC11	12/11/2029	4.08	Fixed Income	1,735,000	1,559,643	0.055%
JNLBlackRock Global Allocation Fund	BX Trust 2019-OC11	12/11/2029	4.08	Fixed Income	1,738,000	1,146,032	0.040%
JNLBlackRock Global Allocation Fund	XP Inc.			Equity	20,321	384,702	0.013%
JNLBlackRock Global Allocation Fund	Archrock Partners, L.P.	4/1/2028	6.25	Fixed Income	100,000	103,595	0.004%
JNLBlackRock Global Allocation Fund	Hess Infrastructure Partners LP	2/15/2026	5.63	Fixed Income	100,000	100,734	0.004%
JNLBlackRock Global Allocation Fund	USA Compression Finance Corp.	9/1/2027	6.88	Fixed Income	503,000	510,402	0.018%
JNLBlackRock Global Allocation Fund	Service Properties Trust	20/1/2029	4.95	Fixed Income	200,000	184,049	0.006%
JNLBlackRock Global Allocation Fund	Calpine Corporation	3/15/2028	5.13	Fixed Income	402,000	397,058	0.014%
JNLBlackRock Global Allocation Fund	The Arab Republic of Egypt	1/31/2047	8.50	Fixed Income	200,000	163,864	0.006%
JNLBlackRock Global Allocation Fund	Nationstar Mortgage Holdings Inc.	1/15/2027	6.00	Fixed Income	100,000	101,261	0.004%
JNLBlackRock Global Allocation Fund	Novelis Corporation	1/30/2030	4.75	Fixed Income	100,000	97,634	0.003%
JNLBlackRock Global Allocation Fund	Prime Security Services Borrower, LLC	1/15/2028	6.25	Fixed Income	100,000	101,340	0.004%
JNLBlackRock Global Allocation Fund	Presidencia de la Republica Dominicana	1/30/2030	4.50	Fixed Income	370,000	357,125	0.012%
JNLBlackRock Global Allocation Fund	Station Casinos LLC	2/15/2028	4.50	Fixed Income	355,000	344,935	0.012%
JNLBlackRock Global Allocation Fund	Open Text Corporation	2/15/2028	3.88	Fixed Income	100,000	95,962	0.003%
JNLBlackRock Global Allocation Fund	Scotts Miracle-Gro Company, The	10/15/2029	4.50	Fixed Income	100,000	98,143	0.003%
JNLBlackRock Global Allocation Fund	Post Holdings, Inc.	4/15/2030	4.63	Fixed Income	200,000	195,562	0.007%
JNLBlackRock Global Allocation Fund	Brookfield Residential Properties Inc.	2/15/2030	4.88	Fixed Income	260,000	246,318	0.009%
JNLBlackRock Global Allocation Fund	Datalogic, Inc.			Equity	12,653	1,455,854	0.051%
JNLBlackRock Global Allocation Fund	Adient Global Holdings Ltd.	8/15/2026	4.88	Fixed Income	276,000	278,011	0.010%
JNLBlackRock Global Allocation Fund	Zayo Group Holdings, Inc.						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Cook Park CLO, Ltd.	4/17/2030	6.95	Fixed Income	257,520	261,332	0.009%
JNLBlackRock Global Allocation Fund	Arthur Guyon Distillery Company Limited			Equity	2,200	2,200	0.003%
JNLBlackRock Global Allocation Fund	Bloomerry Resorts Corporation			Equity	1,002,500	145,111	0.009%
JNLBlackRock Global Allocation Fund	Hilton Domestic Operating Company Inc.	5/1/2028	5.75	Fixed Income	200,000	205,687	0.007%
JNLBlackRock Global Allocation Fund	SLM Private Education Loan Trust 2010-C	10/15/2041	9.96	Fixed Income	1,544,583	1,623,325	0.057%
JNLBlackRock Global Allocation Fund	Hyatt Hotels Corporation	4/23/2025	5.38	Fixed Income	442,000	452,559	0.016%
JNLBlackRock Global Allocation Fund	Hologic, Inc.	2/1/2028	4.63	Fixed Income	100,000	98,927	0.003%
JNLBlackRock Global Allocation Fund	argenx SE			Equity	327	176,642	0.006%
JNLBlackRock Global Allocation Fund	Chenango Park CLO, Ltd.	4/15/2030	7.11	Fixed Income	263,834	268,408	0.009%
JNLBlackRock Global Allocation Fund	Lamb Weston Holdings, Inc.	5/15/2028	4.88	Fixed Income	100,000	101,256	0.004%
JNLBlackRock Global Allocation Fund	Match Group Holdings I, LLC	6/1/2028	4.63	Fixed Income	100,000	109,770	0.003%
JNLBlackRock Global Allocation Fund	EQUATE Petrochemical B.V.	11/3/2026	4.25	Fixed Income	200,000	200,738	0.007%
JNLBlackRock Global Allocation Fund	Live Nation Entertainment, Inc.	5/15/2027	6.50	Fixed Income	100,000	104,466	0.004%
JNLBlackRock Global Allocation Fund	Adolph Packaging Finance Public Limited Company	8/15/2026	4.13	Fixed Income	2,899,000	2,857,145	0.039%
JNLBlackRock Global Allocation Fund	BRCMS 2018-TALL Mortgage Trust	3/16/2037	6.41	Fixed Income	744,000	656,931	0.023%
JNLBlackRock Global Allocation Fund	BWAY Corporation	3/12/2025	3.63	Fixed Income	581,291	516,585	0.018%
JNLBlackRock Global Allocation Fund	1211 Avenue of The Americas	8/12/2025	4.28	Fixed Income	665,000	633,818	0.022%
JNLBlackRock Global Allocation Fund	DBCS 2018-BICO Mortgage Trust	5/15/2035	7.39	Fixed Income	967,500	956,144	0.033%
JNLBlackRock Global Allocation Fund	Abudhabi Al Oniam Markets Company			Equity	46,292	147,233	0.005%
JNLBlackRock Global Allocation Fund	Hudson Yards 2016-10HY Mortgage Trust	8/12/2026	3.08	Fixed Income	137,645	125,972	0.004%
JNLBlackRock Global Allocation Fund	Wells Fargo Commercial Mortgage Trust 2018-1745	6/15/2028	3.87	Fixed Income	332,000	300,816	0.011%
JNLBlackRock Global Allocation Fund	IHO Vewallungs GmbH	5/15/2027	3.88	Fixed Income	118,000	132,106	0.005%
JNLBlackRock Global Allocation Fund	Molina Healthcare, Inc.	6/15/2028	4.38	Fixed Income	100,000	99,505	0.003%
JNLBlackRock Global Allocation Fund	UBS Group AG	6/5/2026	2.19	Fixed Income	449,000	443,640	0.016%
JNLBlackRock Global Allocation Fund	Verifone Systems, Inc.	12/31/2049		Fixed Income	100,000	91,417	0.003%
JNLBlackRock Global Allocation Fund	CD 2017-C06 Mortgage Trust	11/15/2027	3.91	Fixed Income	132,488	121,074	0.004%
JNLBlackRock Global Allocation Fund	Delta Air Lines, Inc.	11/15/2026	7.38	Fixed Income	100,000	104,468	0.004%
JNLBlackRock Global Allocation Fund	Wynn Macau, Limited	11/15/2026	5.50	Fixed Income	300,000	301,241	0.011%
JNLBlackRock Global Allocation Fund	Harvest CLO XVII Designated Activity Company	10/15/2030	4.88	Fixed Income	102,000	114,525	0.004%
JNLBlackRock Global Allocation Fund	Oak Hill European Credit Partners VI Designated Activity Company	12/20/2032	4.89	Fixed Income	104,000	116,797	0.004%
JNLBlackRock Global Allocation Fund	EQM Midstream Partners, LP	7/1/2025	6.00	Fixed Income	200,000	203,257	0.007%
JNLBlackRock Global Allocation Fund	UBS Commercial Mortgage Trust 2019-C17	9/1/2028	2.92	Fixed Income	180,000	164,908	0.006%
JNLBlackRock Global Allocation Fund	Lloyds Banking Group PLC	10/16/2024	2.25	Fixed Income	278,000	379,246	0.013%
JNLBlackRock Global Allocation Fund	Enervizer Holdings, Inc.	6/15/2028	4.75	Fixed Income	200,000	197,080	0.007%
JNLBlackRock Global Allocation Fund	ViaSat, Inc.	7/15/2028	6.50	Fixed Income	334,000	265,994	0.009%
JNLBlackRock Global Allocation Fund	PG&E Corporation	7/1/2028	5.00	Fixed Income	100,000	100,000	0.003%
JNLBlackRock Global Allocation Fund	Eldorado Resorts, Inc.	7/1/2027	8.13	Fixed Income	454,000	472,838	0.017%
JNLBlackRock Global Allocation Fund	Albertsons Companies, Inc.			Equity	26,840	496,003	0.017%
JNLBlackRock Global Allocation Fund	VINDO Trust 2016-350P	11/2/2027	4.03	Fixed Income	325,000	309,109	0.011%
JNLBlackRock Global Allocation Fund	Avantor, Inc.	7/15/2028	4.63	Fixed Income	100,000	98,725	0.003%
JNLBlackRock Global Allocation Fund	CIFC European Funding CLO I Designated Activity Company	4/15/2033	5.29	Fixed Income	100,000	112,597	0.004%
JNLBlackRock Global Allocation Fund	CCO Holdings, LLC	2/1/2031	4.25	Fixed Income	200,000	178,051	0.006%
JNLBlackRock Global Allocation Fund	GS Mortgage Securities Trust 2020-GC47	4/12/2030	2.73	Fixed Income	676,292	593,187	0.021%
JNLBlackRock Global Allocation Fund	Holland Park CLO Designated Activity Company	11/14/2032	4.47	Fixed Income	96,671	107,173	0.004%
JNLBlackRock Global Allocation Fund	Wells Fargo & Company	4/17/2025	3.87	Fixed Income	500,000	494,211	0.017%
JNLBlackRock Global Allocation Fund	CSAL 2016-C5 Commercial Mortgage Trust	11/18/2025	4.79	Fixed Income	95,752	90,460	0.003%
JNLBlackRock Global Allocation Fund	Caesars Entertainment, Inc.			Equity	13,454	561,570	0.020%
JNLBlackRock Global Allocation Fund	Travel + Leisure Co.	7/31/2026	6.63	Fixed Income	100,000	102,973	0.004%
JNLBlackRock Global Allocation Fund	Braskem Netherlands Finance B.V.	12/3/2081	8.50	Fixed Income	200,000	203,310	0.007%
JNLBlackRock Global Allocation Fund	Invesco KBW Bank ETF			Fund	9,654	565,821	0.020%
JNLBlackRock Global Allocation Fund	Apidos CLO XV	4/21/2031	6.55	Fixed Income	139,283	141,296	0.005%
JNLBlackRock Global Allocation Fund	Calpine Corporation	2/1/2029	4.63	Fixed Income	100,000	97,343	0.003%
JNLBlackRock Global Allocation Fund	Calpine Corporation	2/1/2031	5.00	Fixed Income	100,000	172,883	0.006%
JNLBlackRock Global Allocation Fund	CSMC 2020-NET	8/15/2025	2.26	Fixed Income	330,430	318,904	0.011%
JNLBlackRock Global Allocation Fund	Mariner Finance Issuance Trust 2020-A	8/21/2034	2.19	Fixed Income	46,309	46,207	0.002%
JNLBlackRock Global Allocation Fund	Nationstar Mortgage Holdings Inc.	8/15/2028	5.50	Fixed Income	148,000	147,665	0.005%
JNLBlackRock Global Allocation Fund	Xerox Holdings Corporation	8/15/2039	5.50	Fixed Income	164,000	141,177	0.005%
JNLBlackRock Global Allocation Fund	Standard Building Solutions Inc.	1/15/2031	3.38	Fixed Income	100,000	89,862	0.003%
JNLBlackRock Global Allocation Fund	Iron Mountain Incorporated	2/15/2031	4.50	Fixed Income	100,000	95,493	0.003%
JNLBlackRock Global Allocation Fund	Safeway Inc.	3/15/2029	3.50	Fixed Income	100,000	83,336	0.003%
JNLBlackRock Global Allocation Fund	Federal National Mortgage Association, Inc.	9/25/2030	3.87	Fixed Income	247,724	244,434	0.008%
JNLBlackRock Global Allocation Fund	iShares Latin America 40 ETF			Fund	34,894	904,104	0.032%
JNLBlackRock Global Allocation Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-WPT	7/8/2033	7.86	Fixed Income	191,677	149,550	0.005%
JNLBlackRock Global Allocation Fund	iShares MSCI Brazil ETF			Fund	40,596	1,197,176	0.042%
JNLBlackRock Global Allocation Fund	Allison Transmission, Inc.	10/1/2027	4.75	Fixed Income	100,000	100,702	0.004%
JNLBlackRock Global Allocation Fund	Safeway Inc.	3/15/2026	3.25	Fixed Income	100,000	96,913	0.003%
JNLBlackRock Global Allocation Fund	Air Arabia PJSC			Equity	110,529	82,729	0.003%
JNLBlackRock Global Allocation Fund	GMO Payment Gateway, Inc.			Equity	2,600	159,827	0.006%
JNLBlackRock Global Allocation Fund	Spirax Group PLC	10/15/2027	6.63	Fixed Income	24,367	2,456,788	0.084%
JNLBlackRock Global Allocation Fund	Wizz Air Holdings PLC			Equity	5,700	109,917	0.004%
JNLBlackRock Global Allocation Fund	Veritas USA Inc.	9/1/2025	7.50	Fixed Income	311,000	293,676	0.010%
JNLBlackRock Global Allocation Fund	GFL Environmental Inc.	9/1/2025	3.75	Fixed Income	100,000	99,797	0.003%
JNLBlackRock Global Allocation Fund	Boyd Gaming Corporation	10/1/2027	4.75	Fixed Income	114,000	114,000	0.004%
JNLBlackRock Global Allocation Fund	NCR Voyix Corporation	10/1/2028	5.00	Fixed Income	234,000	235,442	0.008%
JNLBlackRock Global Allocation Fund	Trestles CLO III Ltd	12/20/2033	6.87	Fixed Income	380,356	386,083	0.014%
JNLBlackRock Global Allocation Fund	JD.com, Inc.			Equity	15,742	223,282	0.011%
JNLBlackRock Global Allocation Fund	Eicher Motors Limited	2/9/2024	7.05	Fixed Income	2,621	157,694	0.006%
JNLBlackRock Global Allocation Fund	Net One Systems Co., Ltd.			Equity	12,210	308,456	0.011%
JNLBlackRock Global Allocation Fund	Nonofu Spring Co., Ltd.			Equity	222,896	962,921	0.034%
JNLBlackRock Global Allocation Fund	Tele Columbus AG	3/19/2029	10.00	Fixed Income	672,085	585,682	0.020%
JNLBlackRock Global Allocation Fund	NusStar Logistics, L.P.	10/1/2025	5.75	Fixed Income	100,000	102,840	0.004%
JNLBlackRock Global Allocation Fund	Rocket Mortgage, LLC	3/1/2029	3.63	Fixed Income	100,000	94,389	0.003%
JNLBlackRock Global Allocation Fund	VMEI 02 UK Financing I PLC	1/31/2031	4.25	Fixed Income	300,000	268,782	0.009%
JNLBlackRock Global Allocation Fund	Hologic, Inc.	2/15/2029	3.25	Fixed Income	100,000	93,621	0.003%
JNLBlackRock Global Allocation Fund	Park Intermediate Holdings LLC	10/1/2028	5.88	Fixed Income	100,000	102,736	0.004%
JNLBlackRock Global Allocation Fund	Nexstar Media Group, Inc.	11/1/2028	4.75	Fixed Income	262,124	266,142	0.009%
JNLBlackRock Global Allocation Fund	Snowflake Inc.			Equity	14,731	1,692,003	0.059%
JNLBlackRock Global Allocation Fund	Restaurant Brands International Limited Partnership	10/15/2030	4.00	Fixed Income	200,000	188,092	0.007%
JNLBlackRock Global Allocation Fund	Bath & Body Works, Inc.	10/1/2030	6.63	Fixed Income	100,000	105,200	0.004%
JNLBlackRock Global Allocation Fund	Methanex Corporation	10/15/2027	5.13	Fixed Income	100,000	94,389	0.003%
JNLBlackRock Global Allocation Fund	Reynolds Group Issuer Inc.	10/15/2027	4.00	Fixed Income	180,000	176,553	0.006%
JNLBlackRock Global Allocation Fund	Enervizer Holdings, Inc.	3/31/2029	4.38	Fixed Income	100,000	94,731	0.003%
JNLBlackRock Global Allocation Fund	Presidencia de la Republica Dominicana	9/23/2032	4.88	Fixed Income	198,000	199,056	0.007%
JNLBlackRock Global Allocation Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	663,000	675,807	0.024%
JNLBlackRock Global Allocation Fund	GCI, LLC	10/15/2028	4.75	Fixed Income	204,000	200,351	0.007%
JNLBlackRock Global Allocation Fund	Encompass Health Corporation	4/1/2031	4.63	Fixed Income	120,000	117,696	0.004%
JNLBlackRock Global Allocation Fund	TEGNA Inc.	9/15/2029	5.00	Fixed Income	100,000	95,476	0.003%
JNLBlackRock Global Allocation Fund	Global Uniship Corp.			Equity	13,000	452,336	0.016%
JNLBlackRock Global Allocation Fund	Ambridge Acquisition Co Inc	2/1/2026	10.11	Fixed Income	1,362,968	1,330,557	0.047%
JNLBlackRock Global Allocation Fund	Forvia	2/15/2027	2.75	Fixed Income	1,929,000	2,074,290	0.073%
JNLBlackRock Global Allocation Fund	Toronto-Dominion Bank, The	4/5/2027	2.88	Fixed Income	100,000	129,659	0.005%
JNLBlackRock Global Allocation Fund	Presidencia de la Republica Dominicana	9/25/2031	7.05	Fixed Income	150,000	163,693	0.006%
JNLBlackRock Global Allocation Fund	Bayer Aktienbeteiligungsgesellschaft	3/25/2082	5.38	Fixed Income	100,000	110,242	0.004%
JNLBlackRock Global Allocation Fund	Oracle Corporation	2/6/2053	5.55	Fixed Income	1,194,000	1,232,990	0.043%
JNLBlackRock Global Allocation Fund	Uniti Group Inc.	2/15/2028	10.50	Fixed Income	1,968,000	1,466,622	0.051%
JNLBlackRock Global Allocation Fund	Safeway Inc.	1/31/2028	6.50	Fixed Income	100,000	102,638	0.004%
JNLBlackRock Global Allocation Fund	American Airlines, Inc.	2/15/2039	7.25	Fixed Income	100,000	103,258	0.004%
JNLBlackRock Global Allocation Fund	Rand Parent LLC	2/15/2030	8.50	Fixed Income	889,000	915,291	0.032%
JNLBlackRock Global Allocation Fund	Morgan Stanley	10/21/2025	1.16	Fixed Income	367,000	367,980	0.013%
JNLBlackRock Global Allocation Fund	TransDigm Inc.	8/15/2028	6.75	Fixed Income	100,000	103,882	0.004%
JNLBlackRock Global Allocation Fund	NEOS Finance PLC	5/15/2029	6.25	Fixed Income	612,000	720,391	0.025%
JNLBlackRock Global Allocation Fund	Amgen Inc.	3/2/2026	5.51	Fixed Income	1,362,000	1,367,931	0.048%
JNLBlackRock Global Allocation Fund	Amgen Inc.	3/2/2025	5.25	Fixed Income	816,000	820,872	0.029%
JNLBlackRock Global Allocation Fund	Pilgrim's Pride Corporation	3/1/2032	3.50	Fixed Income	200,000	178,152	0.006%
JNLBlackRock Global Allocation Fund	Undie Public Limited Company			Equity	1,224	563,871	0.020%
JNLBlackRock Global Allocation Fund	Teva Pharmaceutical Finance Netherlands II B.V.	9/15/2029	7.38	Fixed Income	193,000	241,478	0.008%
JNLBlackRock Global Allocation Fund	Frontier Communications Holdings, LLC	3/15/2031	8.63	Fixed Income	1,100,000	1,190,913	0.042%
JNLBlackRock Global Allocation Fund	Teva Pharmaceutical Finance Netherlands II B.V.	9/15/2031	7.88	Fixed Income	677,000	893,577	0.031%
JNLBlackRock Global Allocation Fund	Morocco, Kingdom of	3/8/2028	5.95	Fixed Income	200,000	207,008	0.007%
JNLBlackRock Global Allocation Fund	True Corporation Public Company Limited			Equity	316,300	110,288	0.004%
JNLBlackRock Global Allocation Fund	Veritas US Inc.	9/1/2025	10.36	Fixed Income	229,082	214,180	0.007%
JNLBlackRock Global Allocation Fund	Urzard Rady Ministrow	4/4/2053	5.50	Fixed Income	58,000	60,885	0.002%
JNLBlackRock Global Allocation Fund	Urzard Rady Ministrow	10/4/2033	4.88	Fixed Income	39,000	39,560	0.001%
JNLBlackRock Global Allocation Fund	Ford Motor Credit Company LLC	7/1/2027	4.87	Fixed Income	363,000	420,009	0.015%
JNLBlackRock Global Allocation Fund	Elink Midstream, LLC	9/1/2030	6.50	Fixed Income	100,000	108,309	0.004%
JNLBlackRock Global Allocation Fund	Cloud Software Group, Inc.	9/30/2029	9.00	Fixed Income	319,000	324,746	0.011%
JNLBlackRock Global Allocation Fund	The Hashemite Kingdom of Jordan, The Government of	7/1/2025	4.95	Fixed Income	150,000	310,254	0.011%
JNLBlackRock Global Allocation Fund	SGS SA			Equity	15,364	1,715,497	0.060%
JNLBlackRock Global Allocation Fund	Churchill Downs Incorporated	5/1/2031	6.75	Fixed Income	200,000	212,420	0.007%
JNLBlackRock Global Allocation Fund	American Tower Corporation	1/15/2027	0.45	Fixed Income	1,371,000	1,446,535	0.051%
JNLBlackRock Global Allocation Fund	Volkswagen Financial Services Overseas AG	1/31/2028	6.88	Fixed Income	619,000	639,638	0.024%
JNLBlackRock Global Allocation Fund	Duke Energy Corporation	6/15/2039	3.10	Fixed Income	547,000	614,533	0.021%
JNLBlackRock Global Allocation Fund	Nissan North Co., Ltd.	3/1/2026	2.65	Fixed Income	340,000	379,143	0.013%
JNLBlackRock Global Allocation Fund	Bank of America Corporation	10/27/2026	1.95	Fixed Income	556,000	622,436	0.022%
JNLBlackRock Global Allocation Fund	Wells Fargo & Company	10/26/2026	1.38	Fixed Income	578,000	631,446	0.022%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The	12/6/2029	0.25	Fixed Income	634,000	659,379	0.023%
JNLBlackRock Global Allocation Fund	Morgan Stanley	10/23/2026	1.34	Fixed Income	705,000	780,033	0.027%
JNLBlackRock Global Allocation Fund	Talen Energy Supply, LLC	6/1/2030	8.6				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	General Mills, Inc.	11/15/2025	0.13	Fixed Income	916,000	987,828	0.035%
JNLBlackRock Global Allocation Fund	Citigroup Inc.	7/8/2026	1.25	Fixed Income	655,000	699,884	0.023%
JNLBlackRock Global Allocation Fund	Iron Mountain Incorporated	2/15/2029	7.00	Fixed Income	100,000	105,064	0.004%
JNLBlackRock Global Allocation Fund	Owens-Brockway Glass Container Inc.	5/15/2031	7.25	Fixed Income	269,000	283,437	0.010%
JNLBlackRock Global Allocation Fund	Adler Pelzer Holding GmbH	4/1/2027	9.50	Fixed Income	1,201,000	1,342,641	0.047%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co.	11/1/2027	1.09	Fixed Income	578,000	630,424	0.023%
JNLBlackRock Global Allocation Fund	Global Payments Inc.	3/17/2033	4.88	Fixed Income	269,000	326,714	0.011%
JNLBlackRock Global Allocation Fund	International Business Machines Corporation	2/6/2027	3.38	Fixed Income	531,000	612,407	0.021%
JNLBlackRock Global Allocation Fund	National Grid PLC	1/20/2028	0.16	Fixed Income	785,000	796,905	0.028%
JNLBlackRock Global Allocation Fund	BIP Capital Markets P.L.C.	4/7/2028	2.52	Fixed Income	700,000	778,734	0.027%
JNLBlackRock Global Allocation Fund	Diamond Escrow Issuer, LLC	11/15/2028	9.75	Fixed Income	335,000	374,082	0.013%
JNLBlackRock Global Allocation Fund	Dell Bank International Designated Activity Company	10/27/2026	0.50	Fixed Income	298,000	317,970	0.011%
JNLBlackRock Global Allocation Fund	Wellis Fargo & Company	5/24/2027	1.50	Fixed Income	882,000	949,146	0.033%
JNLBlackRock Global Allocation Fund	Thermo Fisher Scientific Inc.	9/12/2028	1.38	Fixed Income	582,000	618,328	0.022%
JNLBlackRock Global Allocation Fund	Comcast Corporation	9/14/2029	0.25	Fixed Income	325,000	318,538	0.011%
JNLBlackRock Global Allocation Fund	Verizon Communications Inc.	10/31/2030	4.25	Fixed Income	506,000	618,096	0.022%
JNLBlackRock Global Allocation Fund	Becton Dickinson Euro Finance S.a.r.l.	9/13/2029	3.55	Fixed Income	926,000	1,054,332	0.037%
JNLBlackRock Global Allocation Fund	CSC Holdings, LLC	5/15/2028	11.25	Fixed Income	200,000	201,624	0.007%
JNLBlackRock Global Allocation Fund	Lune Holdings S.a.r.l.	11/15/2028	5.63	Fixed Income	107,000	106,334	0.004%
JNLBlackRock Global Allocation Fund	Gobierno de la Republica de Guatemala	6/13/2036	6.60	Fixed Income	200,000	214,217	0.007%
JNLBlackRock Global Allocation Fund	Calumet Specialty Products Partners, L.P.	7/15/2028	9.75	Fixed Income	795,000	797,817	0.028%
JNLBlackRock Global Allocation Fund	iShares Russell Mid-Cap Growth ETF			Fund	3,904	457,900	0.016%
JNLBlackRock Global Allocation Fund	Serres Co. Ltd.			Equity	16,800	216,453	0.008%
JNLBlackRock Global Allocation Fund	VFU Funding PLC	2/11/2025	6.20	Fixed Income	214,000	191,651	0.007%
JNLBlackRock Global Allocation Fund	Civitas Resources, Inc.	7/1/2028	8.38	Fixed Income	394,000	420,032	0.015%
JNLBlackRock Global Allocation Fund	Thomson Reuters Corporation		9.3%	Equity	3,025	515,980	0.018%
JNLBlackRock Global Allocation Fund	Spirit AeroSystems, Inc.	11/30/2029	9.98	Fixed Income	798,000	891,289	0.031%
JNLBlackRock Global Allocation Fund	Sigma Holdco B.V.	5/15/2026	5.75	Fixed Income	338,514	379,348	0.013%
JNLBlackRock Global Allocation Fund	Palladyne AI Corp.			Equity	1,278	2,288	0.000%
JNLBlackRock Global Allocation Fund	AmeriGas Partners, L.P.	6/1/2028	9.38	Fixed Income	100,000	108,188	0.004%
JNLBlackRock Global Allocation Fund	Adient Global Holdings Ltd.	4/15/2031	8.25	Fixed Income	254,000	279,322	0.009%
JNLBlackRock Global Allocation Fund	Univision Communications Inc.	8/15/2029	8.00	Fixed Income	389,000	412,688	0.015%
JNLBlackRock Global Allocation Fund	Brand Industrial Services, Inc.	8/1/2030	10.38	Fixed Income	220,000	239,243	0.008%
JNLBlackRock Global Allocation Fund	Teva Pharmaceutical Finance Netherlands II B.V.	5/9/2027	3.75	Fixed Income	648,000	725,177	0.025%
JNLBlackRock Global Allocation Fund	General Mills, Inc.	11/15/2026	0.45	Fixed Income	721,000	777,602	0.027%
JNLBlackRock Global Allocation Fund	Sirius XM Radio Inc.	7/15/2028	4.00	Fixed Income	200,000	202,028	0.007%
JNLBlackRock Global Allocation Fund	Liberty Media Corporation			Equity	2,371	121,703	0.004%
JNLBlackRock Global Allocation Fund	Nasdaq, Inc.	2/15/2032	4.50	Fixed Income	390,000	476,667	0.017%
JNLBlackRock Global Allocation Fund	Clear Channel Outdoor Holdings, Inc.	9/15/2028	9.00	Fixed Income	100,000	106,711	0.004%
JNLBlackRock Global Allocation Fund	Procter & Gamble Company, The	11/1/2027	4.88	Fixed Income	369,000	404,138	0.015%
JNLBlackRock Global Allocation Fund	Light and Wonder International, Inc.	9/1/2031	7.50	Fixed Income	100,000	105,515	0.004%
JNLBlackRock Global Allocation Fund	Market Bidco Finco PLC	11/4/2027	4.75	Fixed Income	385,000	418,381	0.015%
JNLBlackRock Global Allocation Fund	PBF Holding Company LLC	9/15/2030	7.88	Fixed Income	100,000	103,340	0.004%
JNLBlackRock Global Allocation Fund	RingsCentral, Inc.	8/15/2030	8.50	Fixed Income	1,453,000	1,443,832	0.050%
JNLBlackRock Global Allocation Fund	Alexander Funding Trust II	7/31/2028	7.47	Fixed Income	295,000	322,050	0.011%
JNLBlackRock Global Allocation Fund	Tenneco Inc.	11/17/2028	8.00	Fixed Income	998,000	932,337	0.033%
JNLBlackRock Global Allocation Fund	Sociocom Inc.			Equity	23,700	476,089	0.017%
JNLBlackRock Global Allocation Fund	Dana Financing Luxembourg S.a.r.l.	7/15/2031	8.50	Fixed Income	641,000	1,770,089	0.072%
JNLBlackRock Global Allocation Fund	Six Flags Operations Inc.	5/15/2031	7.25	Fixed Income	100,000	106,231	0.004%
JNLBlackRock Global Allocation Fund	Materhorn Telecom S.A.	9/15/2026	3.13	Fixed Income	1,972,000	2,168,243	0.076%
JNLBlackRock Global Allocation Fund	Ilad Holding	10/15/2026	5.13	Fixed Income	234,000	269,153	0.009%
JNLBlackRock Global Allocation Fund	Global Sciences, Inc.	10/15/2028	5.55	Fixed Income	660,000	725,493	0.025%
JNLBlackRock Global Allocation Fund	Sabry GLBL Inc.	6/1/2027	8.63	Fixed Income	1,259,000	1,247,910	0.044%
JNLBlackRock Global Allocation Fund	Motion Finco S.a.r.l.	6/15/2030	7.38	Fixed Income	294,000	337,524	0.012%
JNLBlackRock Global Allocation Fund	Vistra Operations Company LLC	10/1/2031	7.75	Fixed Income	835,000	928,603	0.032%
JNLBlackRock Global Allocation Fund	Novo Nordisk A/S			Equity	120,755	14,369,555	0.500%
JNLBlackRock Global Allocation Fund	AA Bond Co Limited	1/31/2026	6.50	Fixed Income	1,063,511	1,432,387	0.050%
JNLBlackRock Global Allocation Fund	Bausch + Lomb Corporation	10/1/2028	8.38	Fixed Income	60,000	65,977	0.002%
JNLBlackRock Global Allocation Fund	Freedom Mortgage Corporation	9/1/2028	12.00	Fixed Income	200,000	230,621	0.008%
JNLBlackRock Global Allocation Fund	Bankok Bank Public Company Limited	9/21/2033	5.50	Fixed Income	277,000	287,810	0.010%
JNLBlackRock Global Allocation Fund	Wabtec, Inc.	12/30/2031	7.00	Fixed Income	227,000	262,026	0.009%
JNLBlackRock Global Allocation Fund	NCR Aelion Escrow Corporation	4/1/2029	9.50	Fixed Income	967,000	1,110,519	0.039%
JNLBlackRock Global Allocation Fund	Pilgrim's Pride Corporation	5/15/2034	6.88	Fixed Income	100,000	113,410	0.004%
JNLBlackRock Global Allocation Fund	Hindustan Aeronautics Limited			Equity	7,461	895,804	0.031%
JNLBlackRock Global Allocation Fund	Market Bidco Finco PLC	11/4/2027	5.50	Fixed Income	835,000	1,071,388	0.038%
JNLBlackRock Global Allocation Fund	Mineral Resources Limited	10/1/2028	9.25	Fixed Income	228,000	252,694	0.009%
JNLBlackRock Global Allocation Fund	Shell Drilling Management Services DMCC	4/15/2029	9.63	Fixed Income	869,000	940,391	0.029%
JNLBlackRock Global Allocation Fund	Gobierno de la Republica de Guatemala	10/4/2032	7.05	Fixed Income	260,000	290,465	0.010%
JNLBlackRock Global Allocation Fund	Treasury, United States Department of	9/30/2028	4.63	Fixed Income	10,372,500	10,175,500	0.373%
JNLBlackRock Global Allocation Fund	Sampo Oyj			Equity	2,450	114,273	0.004%
JNLBlackRock Global Allocation Fund	Moset Bidco Se	7/31/2030	6.22	Fixed Income	1,238,886	1,382,828	0.048%
JNLBlackRock Global Allocation Fund	Sunoco LP	9/15/2028	7.00	Fixed Income	100,000	104,118	0.004%
JNLBlackRock Global Allocation Fund	Walgreens Boots Alliance, Inc.	6/1/2026	2.45	Fixed Income	100,000	97,373	0.003%
JNLBlackRock Global Allocation Fund	V.F. Corporation	4/23/2025	2.40	Fixed Income	147,000	146,125	0.005%
JNLBlackRock Global Allocation Fund	HSBC USA Inc.	10/11/2024		Cash Equivalent	1,698,000	1,695,488	0.059%
JNLBlackRock Global Allocation Fund	Texas Capital Bancshares, Inc.	5/6/2031	4.00	Fixed Income	600,000	578,183	0.020%
JNLBlackRock Global Allocation Fund	HM Treasury	10/22/2053	3.75	Fixed Income	2,042,532	2,484,254	0.122%
JNLBlackRock Global Allocation Fund	Tenaris S.A.			Equity	72,644	1,151,941	0.040%
JNLBlackRock Global Allocation Fund	Petroleos Mexicanos	2/7/2033	10.00	Fixed Income	35,000	37,499	0.001%
JNLBlackRock Global Allocation Fund	Bunge Limited			Equity	62,787	6,067,736	0.212%
JNLBlackRock Global Allocation Fund	Vladia Na Republika Severna Makedonija	3/13/2027	6.96	Fixed Income	115,000	138,450	0.005%
JNLBlackRock Global Allocation Fund	Hicorp Energy I, L.P.	11/1/2033	8.38	Fixed Income	100,000	111,269	0.004%
JNLBlackRock Global Allocation Fund	Bombardier Inc.	11/15/2030	8.75	Fixed Income	100,000	113,112	0.004%
JNLBlackRock Global Allocation Fund	Deuce Finco PLC	6/15/2027	5.50	Fixed Income	1,296,000	1,726,518	0.060%
JNLBlackRock Global Allocation Fund	Sealed Air Corporation	2/15/2031	7.25	Fixed Income	100,000	108,645	0.004%
JNLBlackRock Global Allocation Fund	Mayer Export-Import Bank Zankovun Mukodo Reszvenytarsasag	9/16/2031	6.00	Fixed Income	240,000	261,606	0.010%
JNLBlackRock Global Allocation Fund	Spirit AeroSystems, Inc.	11/15/2030	9.75	Fixed Income	2,068,000	2,382,886	0.083%
JNLBlackRock Global Allocation Fund	EG Global Finance PLC	11/30/2028	12.00	Fixed Income	654,000	755,752	0.026%
JNLBlackRock Global Allocation Fund	SPIL - 23.1 - A ABS	9/13/2027	6.00	Fixed Income	1,851,762	1,880,030	0.066%
JNLBlackRock Global Allocation Fund	SPIL - 23.1 - R1 ABS	11/2/2030	20.52	Fixed Income	20,520	1,374,385	0.046%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	3/1/2029	8.50	Fixed Income	10,769,100	536,441	0.019%
JNLBlackRock Global Allocation Fund	AMS-Osram AG	3/30/2029	10.50	Fixed Income	957,000	1,099,394	0.038%
JNLBlackRock Global Allocation Fund	Santor-Palata	9/12/2033	9.28	Fixed Income	45,000	53,939	0.002%
JNLBlackRock Global Allocation Fund	H2O Verwaltungs GmbH	11/15/2028	8.75	Fixed Income	653,787	765,618	0.027%
JNLBlackRock Global Allocation Fund	Xerox Corp	11/14/2029	9.25	Fixed Income	362,700	360,889	0.013%
JNLBlackRock Global Allocation Fund	Punch Finance PLC	6/30/2026	6.13	Fixed Income	2,015,000	2,706,895	0.095%
JNLBlackRock Global Allocation Fund	Coly Inc.	9/15/2028	5.75	Fixed Income	208,000	241,741	0.008%
JNLBlackRock Global Allocation Fund	Boels Toegeholding B.V.	2/15/2029	6.25	Fixed Income	849,000	1,101,784	0.039%
JNLBlackRock Global Allocation Fund	TransDigm, Inc.	2/28/2031	7.84	Fixed Income	500,000	498,009	0.017%
JNLBlackRock Global Allocation Fund	Cirsa Finance International S.a.r.l.	7/31/2028	7.88	Fixed Income	637,000	774,847	0.027%
JNLBlackRock Global Allocation Fund	Alwyn Entertainment Financing (UK) PLC	4/30/2030	7.25	Fixed Income	640,000	766,685	0.027%
JNLBlackRock Global Allocation Fund	PennyMac Financial Services, Inc.	11/2/2029	7.88	Fixed Income	200,000	217,187	0.008%
JNLBlackRock Global Allocation Fund	Landsea Homes Corporation			Equity	21,155	261,284	0.009%
JNLBlackRock Global Allocation Fund	Svensgas			Equity	9,143	804,600	0.028%
JNLBlackRock Global Allocation Fund	Bayer Aktiengesellschaft	9/25/2083	6.63	Fixed Income	200,000	242,919	0.008%
JNLBlackRock Global Allocation Fund	Edison International	6/15/2054	7.88	Fixed Income	230,000	242,132	0.008%
JNLBlackRock Global Allocation Fund	Seagate HDD Cayman	12/1/2032	9.63	Fixed Income	895,000	1,067,614	0.037%
JNLBlackRock Global Allocation Fund	Allied Universal Holdco LLC	6/1/2028	4.88	Fixed Income	1,913,000	2,407,583	0.084%
JNLBlackRock Global Allocation Fund	Ecopetrol S.A.	1/19/2036	8.38	Fixed Income	38,000	39,503	0.001%
JNLBlackRock Global Allocation Fund	YPF S.A.	1/17/2031	9.50	Fixed Income	42,000	45,168	0.002%
JNLBlackRock Global Allocation Fund	Antero Midstream Partners LP	2/1/2032	6.63	Fixed Income	100,000	104,544	0.004%
JNLBlackRock Global Allocation Fund	Tallgrass Energy Partners, LP	2/15/2029	7.38	Fixed Income	100,000	102,046	0.004%
JNLBlackRock Global Allocation Fund	Virgin Media Secured Finance PLC	8/15/2030	4.13	Fixed Income	956,000	1,110,803	0.039%
JNLBlackRock Global Allocation Fund	Immobiliare Grande Distribuzione Societa' Di Investimento Immobiliare Quotata SPA	5/17/2027	6.25	Fixed Income	904,136	1,060,433	0.037%
JNLBlackRock Global Allocation Fund	Libil, Inc.	11/2/2028	5.88	Fixed Income	248,000	238,589	0.008%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The	5/9/2029	0.88	Fixed Income	588,000	595,870	0.021%
JNLBlackRock Global Allocation Fund	CSC Holdings, LLC	1/31/2029	11.75	Fixed Income	491,000	483,629	0.017%
JNLBlackRock Global Allocation Fund	Presidencia da Republica	5/13/2054	7.13	Fixed Income	264,000	281,107	0.010%
JNLBlackRock Global Allocation Fund	Freedom Mortgage Corporation	2/1/2029	9.25	Fixed Income	165,000	174,176	0.006%
JNLBlackRock Global Allocation Fund	Caesars Entertainment, Inc.	2/15/2032	6.50	Fixed Income	100,000	104,262	0.004%
JNLBlackRock Global Allocation Fund	NGL Energy Operating LLC	2/15/2029	8.13	Fixed Income	200,000	207,149	0.007%
JNLBlackRock Global Allocation Fund	Goldstory	2/1/2030	6.75	Fixed Income	819,000	939,520	0.033%
JNLBlackRock Global Allocation Fund	STL Holding Company LLC	2/15/2029	8.75	Fixed Income	212,000	228,267	0.008%
JNLBlackRock Global Allocation Fund	Goldstory	2/1/2030	7.63	Fixed Income	602,000	678,338	0.024%
JNLBlackRock Global Allocation Fund	Athens International Airport SA			Equity	16,611	141,601	0.005%
JNLBlackRock Global Allocation Fund	Allied Universal Holdco LLC	2/15/2031	7.88	Fixed Income	200,000	206,445	0.007%
JNLBlackRock Global Allocation Fund	Antwerp S.p.A.	2/1/2036	7.25	Fixed Income	525,000	550,555	0.019%
JNLBlackRock Global Allocation Fund	Ardenagh Finco Ltd.	2/15/2031	6.88	Fixed Income	2,159,000	2,449,534	0.086%
JNLBlackRock Global Allocation Fund	Caesars Entertainment Inc.	1/24/2031	8.00	Fixed Income	1,353,599	1,352,193	0.047%
JNLBlackRock Global Allocation Fund	TransDigm Inc.	3/1/2032	6.63	Fixed Income	200,000	209,548	0.007%
JNLBlackRock Global Allocation Fund	RR 28 Ltd	4/15/2037	6.85	Fixed Income	761,560	776,678	0.027%
JNLBlackRock Global Allocation Fund	Samarco Mineracao S/A	6/30/2031	8.00	Fixed Income	31,760	29,743	0.001%
JNLBlackRock Global Allocation Fund	GoTo Group, Inc.	5/1/2028	5.50	Fixed Income	424,250	329,116	0.012%
JNLBlackRock Global Allocation Fund	Ilad Holding	10/15/2026	6.50	Fixed Income	473,000	492,103	0.017%
JNLBlackRock Global Allocation Fund	Paris Europe	1/22/2031	7.19	Fixed Income	2,131,512	2,409,744	0.084%
JNLBlackRock Global Allocation Fund	Ter Finance (Jersey) Limited	1/27/2025	5.98	Fixed Income	5,058,128	5,058,128	0.177%
JNLBlackRock Global Allocation Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Clear Channel Outdoor Holdings, Inc.	4/1/2030	7.88	Fixed Income	106,000	115,411	0.004%
JNLBlackRock Global Allocation Fund	Cleveland Cliffs, Inc.	3/15/2032	7.18	Fixed Income	100,000	101,422	0.004%
JNLBlackRock Global Allocation Fund	INEOS Quattro Finance 2 plc	3/15/2029	8.50	Fixed Income	336,000	406,611	0.014%
JNLBlackRock Global Allocation Fund	AES Andes SA	3/15/2029	6.30	Fixed Income	200,000	208,317	0.007%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2024-XL5	3/15/2026	6.49	Fixed Income	879,264	881,250	0.031%
JNLBlackRock Global Allocation Fund	Primeris Financial Holdings S.A.			Equity	27,450	27,569	0.01%
JNLBlackRock Global Allocation Fund	SPLT 24-1, A ABS	2/12/2031	6.06	Fixed Income	1,597,871	1,618,971	0.057%
JNLBlackRock Global Allocation Fund	SPLT 24-1, R1 ABS	2/12/2031	23.818	Fixed Income	23,818	914,534	0.032%
JNLBlackRock Global Allocation Fund	Heimstaden Bostad AB	7/24/2025	0.63	Fixed Income	481,000	519,615	0.018%
JNLBlackRock Global Allocation Fund	VZ Vendor Financing II B.V.	1/15/2029	2.88	Fixed Income	950,000	987,195	0.035%
JNLBlackRock Global Allocation Fund	Loxama	5/31/2029	6.38	Fixed Income	949,000	1,131,886	0.039%
JNLBlackRock Global Allocation Fund	Dana Financing Luxembourg S.a.r.l.	7/15/2029	3.00	Fixed Income	180,000	177,346	0.006%
JNLBlackRock Global Allocation Fund	Vodafone Group Public Limited Company	8/30/2086	8.00	Fixed Income	950,000	1,401,258	0.049%
JNLBlackRock Global Allocation Fund	Celtrix Telecom, S.A.	11/20/2031	0.75	Fixed Income	1,300,000	1,281,583	0.045%
JNLBlackRock Global Allocation Fund	Robian Finance B.V.	7/15/2026	3.63	Fixed Income	749,000	828,313	0.029%
JNLBlackRock Global Allocation Fund	Heimstaden Bostad AB	3/3/2027	1.38	Fixed Income	481,000	499,137	0.017%
JNLBlackRock Global Allocation Fund	GoTo Group Inc	4/30/2028	9.97	Fixed Income	586,984	201,676	0.007%
JNLBlackRock Global Allocation Fund	Starwood Property Trust, Inc.	4/1/2029	7.25	Fixed Income	100,000	108,586	0.004%
JNLBlackRock Global Allocation Fund	Aston Martin Capital Holdings Limited	3/31/2029	10.00	Fixed Income	654,000	679,857	0.024%
JNLBlackRock Global Allocation Fund	Aditya Birla Capital Limited			Equity	66,275	188,762	0.007%
JNLBlackRock Global Allocation Fund	Pinewood Finco PLC	3/27/2030	6.00	Fixed Income	1,024,000	1,372,423	0.048%
JNLBlackRock Global Allocation Fund	Graphic Packaging International, LLC	3/15/2028	3.50	Fixed Income	100,000	95,347	0.003%
JNLBlackRock Global Allocation Fund	RHP Hotel Properties, LP	7/15/2028	7.25	Fixed Income	100,000	106,198	0.004%
JNLBlackRock Global Allocation Fund	NCL Corporation Ltd.	1/15/2029	8.13	Fixed Income	100,000	108,540	0.004%
JNLBlackRock Global Allocation Fund	Go Daddy Operating Company, LLC	3/1/2029	3.50	Fixed Income	100,000	94,152	0.003%
JNLBlackRock Global Allocation Fund	Edgewell Personal Care Colombia S A S	4/1/2029	4.13	Fixed Income	100,000	96,820	0.003%
JNLBlackRock Global Allocation Fund	BX Trust 2024-CNYN	4/15/2029	6.74	Fixed Income	1,010,834	1,031,247	0.035%
JNLBlackRock Global Allocation Fund	The ADT Security Corporation	8/1/2029	4.13	Fixed Income	100,000	96,190	0.003%
JNLBlackRock Global Allocation Fund	Vine Energy Holdings LLC	4/15/2029	6.75	Fixed Income	100,000	105,021	0.004%
JNLBlackRock Global Allocation Fund	Videotron Ltee	6/15/2029	3.63	Fixed Income	100,000	96,320	0.003%
JNLBlackRock Global Allocation Fund	WMG Acquisition Corp.	12/1/2029	3.75	Fixed Income	100,000	95,282	0.003%
JNLBlackRock Global Allocation Fund	Avis Budget Car Rental, LLC	2/15/2031	2.00	Fixed Income	100,000	105,315	0.004%
JNLBlackRock Global Allocation Fund	Wynn Resorts Finance, LLC	2/15/2031	7.13	Fixed Income	100,000	109,155	0.004%
JNLBlackRock Global Allocation Fund	Hanesbrands Inc.	2/15/2031	9.00	Fixed Income	200,000	218,215	0.008%
JNLBlackRock Global Allocation Fund	Service Corporation International	5/15/2031	4.00	Fixed Income	100,000	94,017	0.003%
JNLBlackRock Global Allocation Fund	Madax One Corp	12/16/2027	2.88	Fixed Income	106,000	107,638	0.004%
JNLBlackRock Global Allocation Fund	First Brands Group LLC	3/30/2027	8.64	Fixed Income	994,134	1,124,462	0.039%
JNLBlackRock Global Allocation Fund	Level 3 Financing, Inc.	11/15/2029	11.00	Fixed Income	381,591	445,086	0.016%
JNLBlackRock Global Allocation Fund	GoTo Group Inc	4/28/2028	9.97	Fixed Income	164,042	56,159	0.002%
JNLBlackRock Global Allocation Fund	GoTo Group Inc	4/28/2028	9.97	Fixed Income	93,547	77,638	0.003%
JNLBlackRock Global Allocation Fund	GoTo Group Inc	4/28/2028	9.97	Fixed Income	59,929	49,736	0.002%
JNLBlackRock Global Allocation Fund	GoTo Group Inc	4/28/2028	9.97	Fixed Income	448,415	373,179	0.013%
JNLBlackRock Global Allocation Fund	Galectra Group AG			Equity	50,602	4,720,040	0.159%
JNLBlackRock Global Allocation Fund	Station Casinos, LLC	3/7/2031	7.50	Fixed Income	560,000	547,457	0.019%
JNLBlackRock Global Allocation Fund	Progroup AG	4/15/2029	5.13	Fixed Income	224,000	249,830	0.009%
JNLBlackRock Global Allocation Fund	ESAB Corporation	4/15/2029	6.25	Fixed Income	333,000	352,397	0.012%
JNLBlackRock Global Allocation Fund	Progroup AG	4/15/2031	5.38	Fixed Income	288,000	320,172	0.011%
JNLBlackRock Global Allocation Fund	AMC Networks, Inc.	11/15/2029	10.25	Fixed Income	423,000	444,173	0.016%
JNLBlackRock Global Allocation Fund	INEOS Quattro Holdings UK Limited	3/31/2029	8.09	Fixed Income	1,210,105	1,346,172	0.047%
JNLBlackRock Global Allocation Fund	Ineos US Fin LLC	11/8/2027	7.09	Fixed Income	1,000,000	1,107,925	0.039%
JNLBlackRock Global Allocation Fund	Level 3 Financing Inc.	4/15/2029	11.41	Fixed Income	231,650	236,593	0.008%
JNLBlackRock Global Allocation Fund	TUI Cruises GmbH	6/15/2032	6.25	Fixed Income	521,000	534,148	0.019%
JNLBlackRock Global Allocation Fund	Maverick Gaming LLC	6/3/2028	12.82	Fixed Income	489,379	358,251	0.013%
JNLBlackRock Global Allocation Fund	I.M.A. Industria Macchine Automatiche S.p.A. in Sigla Ima S.p.A.	4/15/2029	7.44	Fixed Income	516,000	588,647	0.021%
JNLBlackRock Global Allocation Fund	Transocean Inc	5/15/2029	8.25	Fixed Income	488,000	501,966	0.018%
JNLBlackRock Global Allocation Fund	Equipmentshare Cam Inc.	5/15/2032	8.63	Fixed Income	237,000	258,278	0.009%
JNLBlackRock Global Allocation Fund	Mauzer Packaging Solutions Holding Company	4/15/2027	7.88	Fixed Income	387,000	372,785	0.013%
JNLBlackRock Global Allocation Fund	Thames Water Utilities Finance PLC	6/19/2025	4.00	Fixed Income	832,000	863,620	0.030%
JNLBlackRock Global Allocation Fund	LG Electronics Inc.	4/24/2027	5.63	Fixed Income	232,000	243,879	0.009%
JNLBlackRock Global Allocation Fund	Treasury, United States Department of	4/15/2029	2.13	Fixed Income	13,209,600	13,942,720	0.488%
JNLBlackRock Global Allocation Fund	Centum Holdings, Inc.			Equity	21,875	103,281	0.012%
JNLBlackRock Global Allocation Fund	TK Elevator Midco GmbH	4/30/2030	7.59	Fixed Income	1,017,283	1,150,021	0.040%
JNLBlackRock Global Allocation Fund	Boels Topholding B.V.	5/15/2030	5.75	Fixed Income	178,000	207,813	0.007%
JNLBlackRock Global Allocation Fund	Medline Borrower, LP	10/23/2028	8.00	Fixed Income	1,699,000	1,699,189	0.059%
JNLBlackRock Global Allocation Fund	Novo Alexandre II	7/15/2029	424.00	Fixed Income	37,000	47,000	0.001%
JNLBlackRock Global Allocation Fund	General Motors Financial Company, Inc.	2/15/2029	4.30	Fixed Income	374,000	439,788	0.015%
JNLBlackRock Global Allocation Fund	Helios Software Holdings, Inc.	5/1/2029	7.88	Fixed Income	831,000	969,598	0.034%
JNLBlackRock Global Allocation Fund	MAHLE GmbH	5/2/2031	6.50	Fixed Income	767,000	847,876	0.030%
JNLBlackRock Global Allocation Fund	Florida Development Finance Corporation	7/15/2032	12.00	Fixed Income	480,000	534,047	0.019%
JNLBlackRock Global Allocation Fund	Iliad Holding	4/15/2031	8.50	Fixed Income	353,000	391,313	0.014%
JNLBlackRock Global Allocation Fund	Mehiläinen Yhtiö Oy	8/21/2028	7.62	Fixed Income	420,283	468,306	0.016%
JNLBlackRock Global Allocation Fund	Freedom Mortgage Corporation	5/15/2031	9.13	Fixed Income	100,000	106,288	0.004%
JNLBlackRock Global Allocation Fund	HILT Commercial Mortgage Trust 2024-ORL	5/15/2026	8.75	Fixed Income	821,000	821,000	0.028%
JNLBlackRock Global Allocation Fund	HILT Commercial Mortgage Trust 2024-ORL	5/15/2026	8.35	Fixed Income	867,000	863,723	0.030%
JNLBlackRock Global Allocation Fund	Cloud Software Group, Inc.	6/30/2032	8.25	Fixed Income	242,000	260,157	0.009%
JNLBlackRock Global Allocation Fund	Gobierno De La Republica Oriental Del Uruguay	7/20/2033	9.75	Fixed Income	8,643,359	207,680	0.007%
JNLBlackRock Global Allocation Fund	BX Commercial Mortgage Trust 2024-KING	5/15/2026	6.84	Fixed Income	490,000	491,397	0.017%
JNLBlackRock Global Allocation Fund	Sesac Finance LLC	7/25/2026	5.22	Fixed Income	152,000	152,337	0.005%
JNLBlackRock Global Allocation Fund	Fiber Midco S.p.A.	6/15/2029	10.00	Fixed Income	287,000	338,043	0.012%
JNLBlackRock Global Allocation Fund	Lions Gate Capital Holdings 1, Inc.	4/15/2029	5.50	Fixed Income	2,662,000	2,459,677	0.086%
JNLBlackRock Global Allocation Fund	Trinitas CLO XIV, Ltd.	1/25/2034	7.68	Fixed Income	260,000	263,915	0.009%
JNLBlackRock Global Allocation Fund	Trinitas CLO XIV, Ltd.	1/25/2034	7.23	Fixed Income	260,000	263,769	0.009%
JNLBlackRock Global Allocation Fund	Lionsgate Studios Corp.			Equity	43,950	314,243	0.011%
JNLBlackRock Global Allocation Fund	Centrica PLC	5/21/2055	6.50	Fixed Income	150,000	210,173	0.007%
JNLBlackRock Global Allocation Fund	Lotomatica S.p.A.	6/1/2030	5.38	Fixed Income	137,000	159,976	0.006%
JNLBlackRock Global Allocation Fund	Lotomatica S.p.A.	6/1/2031	5.76	Fixed Income	207,000	231,168	0.008%
JNLBlackRock Global Allocation Fund	Naviest Private Education Refi Loan Trust 2023-A	12/15/2034	5.66	Fixed Income	2,437,468	2,496,213	0.087%
JNLBlackRock Global Allocation Fund	Turkiye Cumhuriyet Bankasi	10/5/2033	26.20	Fixed Income	44,703,000	1,442,387	0.050%
JNLBlackRock Global Allocation Fund	COMMERZBANK Aktiengesellschaft	1/1/2020	6.50	Fixed Income	800,000	697,888	0.024%
JNLBlackRock Global Allocation Fund	UnipolSis Assicurazioni S.p.A.	5/2/2033	4.90	Fixed Income	200,000	200,000	0.007%
JNLBlackRock Global Allocation Fund	Sandor-Palota	10/24/2035	7.00	Fixed Income	297,780	949,868	0.033%
JNLBlackRock Global Allocation Fund	Deutsche Bank Aktiengesellschaft	1/1/2200	4.50	Fixed Income	400,000	416,980	0.015%
JNLBlackRock Global Allocation Fund	Service Properties Trust	6/15/2029	8.38	Fixed Income	1,657,000	1,702,491	0.060%
JNLBlackRock Global Allocation Fund	Service Properties Trust	6/15/2032	8.88	Fixed Income	1,800,000	1,759,097	0.062%
JNLBlackRock Global Allocation Fund	Labcorp Holdings Inc.			Equity	1,582	353,545	0.012%
JNLBlackRock Global Allocation Fund	PAX Midco Spain, S.L.U.	12/31/2029	6.74	Fixed Income	1,632,296	1,853,244	0.065%
JNLBlackRock Global Allocation Fund	Maverick Gaming LLC	6/3/2028	12.82	Fixed Income	296,698	291,373	0.010%
JNLBlackRock Global Allocation Fund	Turkiye Cumhuriyet Bankasi	11/8/2028	31.08	Fixed Income	14,956,000	499,871	0.017%
JNLBlackRock Global Allocation Fund	ELM Trust 2024-ELM	6/11/2027	7.79	Fixed Income	918,000	944,976	0.033%
JNLBlackRock Global Allocation Fund	California Resources Corporation	6/15/2029	8.25	Fixed Income	353,000	369,415	0.013%
JNLBlackRock Global Allocation Fund	Kondor Finance PLC	7/19/2026	7.13	Fixed Income	123,877	104,623	0.004%
JNLBlackRock Global Allocation Fund	The Republic of Uzbekistan	5/29/2027	5.38	Fixed Income	108,000	123,058	0.004%
JNLBlackRock Global Allocation Fund	BMP 2024-MF23	6/15/2026	7.13	Fixed Income	376,000	371,967	0.013%
JNLBlackRock Global Allocation Fund	Worldline	7/30/2026		Fixed Income	178,300	179,875	0.006%
JNLBlackRock Global Allocation Fund	Univision Communications Inc.	7/31/2031	8.50	Fixed Income	335,000	338,396	0.012%
JNLBlackRock Global Allocation Fund	LEA Trust 2024-BOLT	6/15/2026	6.74	Fixed Income	149,000	149,270	0.005%
JNLBlackRock Global Allocation Fund	Astom	1/1/2020	5.87	Fixed Income	200,000	230,490	0.008%
JNLBlackRock Global Allocation Fund	CDAR Frefly Bidco Limited	3/21/2029	10.95	Fixed Income	642,500	873,309	0.031%
JNLBlackRock Global Allocation Fund	Subway Funding LLC	7/30/2031	6.27	Fixed Income	833,000	873,684	0.031%
JNLBlackRock Global Allocation Fund	Bertrand Franchise Finance	7/18/2030	7.49	Fixed Income	464,000	530,335	0.019%
JNLBlackRock Global Allocation Fund	BX Trust 2024-VLT4	6/15/2026	9.03	Fixed Income	1,025,000	1,019,134	0.036%
JNLBlackRock Global Allocation Fund	BX Trust 2024-VLT4	6/15/2026	7.99	Fixed Income	410,000	410,432	0.014%
JNLBlackRock Global Allocation Fund	Harvest CLO XXXII Designated Activity Company	7/27/2037	6.95	Fixed Income	322,000	365,761	0.013%
JNLBlackRock Global Allocation Fund	Port of Beaumont Industrial Development Authority	7/1/2026	10.00	Fixed Income	1,335,000	1,414,506	0.049%
JNLBlackRock Global Allocation Fund	Banco Bilbao Vizcaya Argentaria, S.A.	1/1/2200	6.88	Fixed Income	400,000	457,305	0.016%
JNLBlackRock Global Allocation Fund	Aza S.P.A.	1/1/2200	5.00	Fixed Income	275,000	312,477	0.011%
JNLBlackRock Global Allocation Fund	McAfee, LLC	3/1/2029	8.45	Fixed Income	1,174,000	1,176,210	0.041%
JNLBlackRock Global Allocation Fund	COMM 2024-WCLL MORTGAGE TRUST	6/15/2026	9.82	Fixed Income	490,000	490,907	0.017%
JNLBlackRock Global Allocation Fund	ECI Entertainment, LLC	8/31/2030	9.25	Fixed Income	1,750,455	1,754,719	0.061%
JNLBlackRock Global Allocation Fund	MCR 2024-TWA Mortgage Trust	6/12/2027	8.73	Fixed Income	431,000	442,654	0.015%
JNLBlackRock Global Allocation Fund	Atos	11/6/2024		Fixed Income	100,000	8,070	0.000%
JNLBlackRock Global Allocation Fund	Atos	11/12/2029	1.00	Fixed Income	300,000	23,276	0.001%
JNLBlackRock Global Allocation Fund	Atos	5/7/2025	1.75	Fixed Income	200,000	13,113	0.000%
JNLBlackRock Global Allocation Fund	Waystar Holding Corp.			Equity	14,051	391,882	0.014%
JNLBlackRock Global Allocation Fund	Whitebox CLO I Ltd	7/24/2036	7.08	Fixed Income	250,000	255,021	0.009%
JNLBlackRock Global Allocation Fund	Aos	11/7/2028	2.50	Fixed Income	200,000	15,936	0.001%
JNLBlackRock Global Allocation Fund	Vrefts Fargo Commercial Mortgage Trust 2023-ONL	7/15/2027	5.13	Fixed Income	417,000	431,810	0.015%
JNLBlackRock Global Allocation Fund	JW Commercial Mortgage Trust 2024-MRCCO	6/15/2026	8.29	Fixed Income	340,000	339,137	0.012%
JNLBlackRock Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	9/3/2026	7.00	Fixed Income	65,243,700	3,187,670	0.111%
JNLBlackRock Global Allocation Fund	Kaon Bondco Telecom SA	9/30/2029	5.13	Fixed Income	379,000	423,177	0.015%
JNLBlackRock Global Allocation Fund	Quartz Acquisito LLC	11/18/2028	6.08	Fixed Income	624,283	632,255	0.023%
JNLBlackRock Global Allocation Fund	Hurlington National Bank, The	2/20/2029	6.73	Fixed Income	919,500	923,065	0.032%
JNLBlackRock Global Allocation Fund	Penta CLO 17 Designated Activity Company	8/15/2038	6.71	Fixed Income	350,000	393,596	0.014%
JNLBlackRock Global Allocation Fund	Entran PLC	6/30/2028	6.92	Fixed Income	966,856	1,100,434	0.038%
JNLBlackRock Global Allocation Fund	Cervantes Bidco SL	12/31/2049		Fixed Income	741,599	827,748	0.029%
JNLBlackRock Global Allocation Fund	Seagate HDD Cayman	7/15/2031	8.50				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Presidencia de la Republica Dominicana	6/1/2036	10.75	Fixed Income	35,700,000	637,403	0.022%
JNLBlackRock Global Allocation Fund	IFCO Management GmbH	12/31/2049		Fixed Income	1,000,000	1,114,775	0.039%
JNLBlackRock Global Allocation Fund	Plataca BC Bidco AB	12/31/2049		Fixed Income	133,987	149,567	0.005%
JNLBlackRock Global Allocation Fund	COMMERZBANK Aktiengesellschaft	1/1/2200	7.88	Fixed Income	400,000	484,057	0.017%
JNLBlackRock Global Allocation Fund	Ilad Holding	4/15/2031	6.88	Fixed Income	240,000	290,130	0.010%
JNLBlackRock Global Allocation Fund	LionPolaris Lux 4 S.A.	7/1/2029	7.33	Fixed Income	242,000	275,102	0.010%
JNLBlackRock Global Allocation Fund	Picard Group	7/1/2029	6.38	Fixed Income	254,000	293,605	0.010%
JNLBlackRock Global Allocation Fund	SoftBank Group Corp	1/8/2029	5.38	Fixed Income	881,000	1,007,704	0.035%
JNLBlackRock Global Allocation Fund	Landbridge Company LLC			Equity	15,348	600,414	0.021%
JNLBlackRock Global Allocation Fund	SoftBank Group Corp	7/8/2032	5.75	Fixed Income	771,000	881,180	0.031%
JNLBlackRock Global Allocation Fund	Ireland, Government of	10/18/2034	2.60	Fixed Income	3,058,722	3,498,981	0.122%
JNLBlackRock Global Allocation Fund	Estado Espanol	10/31/2034	3.45	Fixed Income	8,672,000	10,189,401	0.356%
JNLBlackRock Global Allocation Fund	Pluspetrol Camisea SA	7/3/2036	6.24	Fixed Income	95,000	103,066	0.004%
JNLBlackRock Global Allocation Fund	Tieflux CLO II Designated Activity Company	10/20/2038	6.80	Fixed Income	570,000	640,706	0.022%
JNLBlackRock Global Allocation Fund	Hemvii	12/31/2049		Fixed Income	1,500,000	1,628,848	0.057%
JNLBlackRock Global Allocation Fund	Amber FinCo PLC	7/15/2029	6.63	Fixed Income	452,000	534,017	0.019%
JNLBlackRock Global Allocation Fund	STADA Arzneimittel AG	12/31/2049		Fixed Income	2,398,990	2,669,046	0.093%
JNLBlackRock Global Allocation Fund	Duomo Bidco S.P.A.	7/15/2031	7.79	Fixed Income	441,000	502,955	0.018%
JNLBlackRock Global Allocation Fund	Turkiye Cumhuriyet Bankasikankik	2/18/2026	97.00	Fixed Income	51,651,000	1,559,443	0.055%
JNLBlackRock Global Allocation Fund	AB Carval Euro CLO II-C Designated Activity Company	2/15/2037	7.26	Fixed Income	380,000	425,979	0.015%
JNLBlackRock Global Allocation Fund	Waystar Tech Inc	10/22/2029	8.00	Fixed Income	23,565	23,556	0.001%
JNLBlackRock Global Allocation Fund	F.I.S. - Fabbrica Italiana Sintetici S.p.A.	8/1/2027	5.63	Fixed Income	526,000	583,786	0.020%
JNLBlackRock Global Allocation Fund	Cidron Ada Finco SARL	4/1/2028	6.25	Fixed Income	554,000	730,496	0.026%
JNLBlackRock Global Allocation Fund	Aston Martin Capital Holdings Limited	3/31/2029	10.38	Fixed Income	611,000	855,454	0.030%
JNLBlackRock Global Allocation Fund	Fiber Bidco S.P.A.	6/15/2031	6.13	Fixed Income	325,000	368,973	0.013%
JNLBlackRock Global Allocation Fund	Cinemark USA, Inc.	8/1/2032	7.00	Fixed Income	261,000	276,380	0.010%
JNLBlackRock Global Allocation Fund	Opus Chartered Issuances SA	7/4/2025	2.97	Fixed Income	173,000	201,975	0.007%
JNLBlackRock Global Allocation Fund	Saudi Arabian Oil Company	7/1/2064	5.88	Fixed Income	200,000	204,181	0.007%
JNLBlackRock Global Allocation Fund	Urzaed Rady Ministrow	4/25/2029	5.75	Fixed Income	14,242,000	3,919,188	0.137%
JNLBlackRock Global Allocation Fund	Zegona Finance PLC	7/15/2029	8.63	Fixed Income	736,000	798,100	0.028%
JNLBlackRock Global Allocation Fund	Zegona Finance PLC	7/15/2029	8.63	Fixed Income	375,000	438,650	0.016%
JNLBlackRock Global Allocation Fund	Rossini S.a.r.l.	6/21/2027	7.51	Fixed Income	305,000	342,128	0.012%
JNLBlackRock Global Allocation Fund	Rossini S.a.r.l.	12/31/2029	6.75	Fixed Income	214,000	253,226	0.009%
JNLBlackRock Global Allocation Fund	CONE Trust 2024-DFW1	8/15/2041	9.19	Fixed Income	480,000	480,763	0.017%
JNLBlackRock Global Allocation Fund	New York Community Bancorp, Inc.			Equity	4,633	52,029	0.002%
JNLBlackRock Global Allocation Fund	Northern Data AG	6/1/2020	5.88	Fixed Income	3,587	95,901	0.003%
JNLBlackRock Global Allocation Fund	Paprec Holding	11/1/2029	7.25	Fixed Income	685,000	828,648	0.029%
JNLBlackRock Global Allocation Fund	Algoma Steel Group Inc.			Equity	88,032	900,567	0.031%
JNLBlackRock Global Allocation Fund	Urzaed Rady Ministrow	10/25/2034	5.00	Fixed Income	4,587,000	1,218,697	0.043%
JNLBlackRock Global Allocation Fund	Republie Finance Insurance Trust 2024-A	6/21/2027	5.91	Fixed Income	1,284,000	1,307,012	0.046%
JNLBlackRock Global Allocation Fund	Palmer Square European Loan Funding 2024-2 Designated Activity Company	5/15/2034	6.61	Fixed Income	380,000	422,646	0.015%
JNLBlackRock Global Allocation Fund	Peer Holdings II BV	6/21/2031	6.94	Fixed Income	1,600,000	1,781,972	0.062%
JNLBlackRock Global Allocation Fund	Cloud Software Group, Inc.	3/30/2029	9.33	Fixed Income	847,875	843,923	0.030%
JNLBlackRock Global Allocation Fund	Affiliou	7/25/2029	6.88	Fixed Income	430,000	496,803	0.018%
JNLBlackRock Global Allocation Fund	TeamSystem S.p.A.	7/31/2031	7.19	Fixed Income	320,000	361,784	0.013%
JNLBlackRock Global Allocation Fund	Sector Alarm Holding AS	6/10/2029	7.76	Fixed Income	529,643	597,253	0.021%
JNLBlackRock Global Allocation Fund	Alepona	12/31/2029	7.39	Fixed Income	1,200,234	1,357,003	0.047%
JNLBlackRock Global Allocation Fund	Koksal Electric Corporation	6/1/2020	59.200	Equity	89,200	381,369	0.013%
JNLBlackRock Global Allocation Fund	AERNNOVA Aerospace SAP	2/27/2030	7.71	Fixed Income	1,302,916	1,471,779	0.051%
JNLBlackRock Global Allocation Fund	UnitedHealth Group Incorporated	7/15/2054	5.63	Fixed Income	666,000	721,631	0.025%
JNLBlackRock Global Allocation Fund	Danisco Corporation	3/1/2028	8.50	Fixed Income	100,000	103,696	0.004%
JNLBlackRock Global Allocation Fund	Bombardier Inc.	7/1/2029	7.50	Fixed Income	381,000	407,695	0.014%
JNLBlackRock Global Allocation Fund	Central Parent Inc.	6/15/2029	7.25	Fixed Income	345,000	360,177	0.013%
JNLBlackRock Global Allocation Fund	COMMERZBANK Aktiengesellschaft	1/1/2200	4.25	Fixed Income	200,000	211,582	0.007%
JNLBlackRock Global Allocation Fund	Next Spa	2/24/2028		Fixed Income	300,000	289,974	0.010%
JNLBlackRock Global Allocation Fund	Goodyear Europe B.V.	8/1/2028	2.75	Fixed Income	238,000	239,707	0.008%
JNLBlackRock Global Allocation Fund	Global Switch Finance B.V.	10/7/2033	1.38	Fixed Income	477,000	493,440	0.017%
JNLBlackRock Global Allocation Fund	National Bank of Greece SA	6/28/2035	5.88	Fixed Income	361,000	424,057	0.015%
JNLBlackRock Global Allocation Fund	PCF GmbH	4/15/2026	8.44	Fixed Income	191,900	187,650	0.007%
JNLBlackRock Global Allocation Fund	Bankinter Sociedad Anonima	1/1/2200	7.38	Fixed Income	200,000	235,580	0.008%
JNLBlackRock Global Allocation Fund	CalceBank S.A.	1/1/2200		Fixed Income	400,000	452,800	0.016%
JNLBlackRock Global Allocation Fund	Fastighets AB Balder	1/29/2027	1.13	Fixed Income	236,000	250,396	0.009%
JNLBlackRock Global Allocation Fund	Aroundtown SA	1/1/2020	7.13	Fixed Income	402,000	429,159	0.015%
JNLBlackRock Global Allocation Fund	IKM Holdings Limited	11/5/2027	2.38	Fixed Income	100,000	108,978	0.004%
JNLBlackRock Global Allocation Fund	Nielsen Consumer Inc.	3/8/2028	8.34	Fixed Income	1,500,000	1,667,122	0.058%
JNLBlackRock Global Allocation Fund	Constellum SE	8/15/2032	5.38	Fixed Income	352,000	405,825	0.014%
JNLBlackRock Global Allocation Fund	Concentra Group Holdings Parent, Inc.			Equity	20,030	447,871	0.016%
JNLBlackRock Global Allocation Fund	Lineage, Inc.			Equity	65,426	506,112	0.018%
JNLBlackRock Global Allocation Fund	Banco Bilbao Vizcaya Argentaria, S.A.	1/1/2200	8.38	Fixed Income	200,000	243,129	0.009%
JNLBlackRock Global Allocation Fund	Nationwide Building Society	1/1/2020	5.75	Fixed Income	215,000	281,834	0.010%
JNLBlackRock Global Allocation Fund	Electricite de France	1/1/2200	3.38	Fixed Income	200,000	202,582	0.007%
JNLBlackRock Global Allocation Fund	Scotts Miracle-Gro Company, The	4/1/2031	4.00	Fixed Income	240,000	225,082	0.008%
JNLBlackRock Global Allocation Fund	P.T. Sorik Marang Geothermal Power	9/5/2031	7.75	Fixed Income	200,000	200,000	0.007%
JNLBlackRock Global Allocation Fund	Kleopatra Finco S.a.r.l.	3/1/2026	4.25	Fixed Income	302,000	314,768	0.011%
JNLBlackRock Global Allocation Fund	Ramsay Sami	12/31/2049		Fixed Income	900,000	1,004,389	0.035%
JNLBlackRock Global Allocation Fund	GreenSky Home Improvement Trust 2024-1	6/25/2059	5.67	Fixed Income	2,044,862	2,076,512	0.073%
JNLBlackRock Global Allocation Fund	GreenSky Home Improvement Trust 2024-1	6/25/2059	5.67	Fixed Income	180,504	182,508	0.006%
JNLBlackRock Global Allocation Fund	Mariner Finance Issuance Trust 2024-A	9/22/2036	6.77	Fixed Income	139,000	142,009	0.005%
JNLBlackRock Global Allocation Fund	Lorca Finco PLC	3/25/2031	7.19	Fixed Income	1,773,979	1,999,627	0.070%
JNLBlackRock Global Allocation Fund	Amazon	12/31/2049		Fixed Income	905,000	901,606	0.032%
JNLBlackRock Global Allocation Fund	Amertium Enceur Corp	8/1/2032	7.25	Fixed Income	157,000	185,331	0.006%
JNLBlackRock Global Allocation Fund	Stonegate Pub Company Financing PLC	7/31/2029	10.17	Fixed Income	183,000	209,128	0.007%
JNLBlackRock Global Allocation Fund	Stonegate Pub Company Financing PLC	7/31/2029	10.75	Fixed Income	293,000	409,950	0.014%
JNLBlackRock Global Allocation Fund	NGP XI Midstream Holdings LLC	7/25/2031	9.28	Fixed Income	402,000	401,594	0.014%
JNLBlackRock Global Allocation Fund	Mariner Finance Issuance Trust 2024-A	9/22/2036	5.13	Fixed Income	837,000	851,732	0.030%
JNLBlackRock Global Allocation Fund	Thailand, Kingdom of	1/1/2020	2.40	Fixed Income	111,391,000	3,688,820	0.122%
JNLBlackRock Global Allocation Fund	Sona Fics Clo II DAC	4/20/2037	6.41	Fixed Income	690,000	769,419	0.027%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc.	8/15/2054	5.40	Fixed Income	1,180,000	1,247,992	0.044%
JNLBlackRock Global Allocation Fund	Coca-Cola Company, The	11/4/2055	5.20	Fixed Income	1,860,000	1,965,723	0.069%
JNLBlackRock Global Allocation Fund	PCA Inc	5/15/2054	5.58	Fixed Income	1,078,000	1,193,538	0.042%
JNLBlackRock Global Allocation Fund	Bower Parent Co Inc	7/2/2031	7.66	Fixed Income	1,495,835	1,680,623	0.059%
JNLBlackRock Global Allocation Fund	Eli Lilly and Company	8/14/2054	5.05	Fixed Income	400,000	411,743	0.014%
JNLBlackRock Global Allocation Fund	Median BV	10/14/2027	8.65	Fixed Income	1,014,172	1,119,519	0.039%
JNLBlackRock Global Allocation Fund	Garda World Security Corporation	7/1/2029	8.60	Fixed Income	284,929	283,127	0.010%
JNLBlackRock Global Allocation Fund	Urzaed Rady Ministrow	8/25/2036	2.00	Fixed Income	5,660,000	1,375,841	0.048%
JNLBlackRock Global Allocation Fund	Boost Newco Borrower, LLC	1/31/2031	7.75	Fixed Income	872,875	872,681	0.031%
JNLBlackRock Global Allocation Fund	Urzaed Viasy Ceske Republiky	11/11/2032	4.50	Fixed Income	42,870,000	2,105,109	0.074%
JNLBlackRock Global Allocation Fund	Telle Columbus AG	1/1/2029		Fixed Income	1,000,000	1,040,432	0.036%
JNLBlackRock Global Allocation Fund	Mehlianiun Yhtio Oy	7/3/2030	7.62	Fixed Income	421,053	469,164	0.016%
JNLBlackRock Global Allocation Fund	Arsenal AIC Parent LLC	8/19/2030	8.56	Fixed Income	99,312	99,136	0.003%
JNLBlackRock Global Allocation Fund	Banco de Credito Social Cooperativo, S.A.	9/3/2030	4.13	Fixed Income	100,000	113,059	0.004%
JNLBlackRock Global Allocation Fund	Finco Utilities	12/31/2049		Fixed Income	780,000	868,528	0.030%
JNLBlackRock Global Allocation Fund	Accor	1/1/2200	4.88	Fixed Income	100,000	112,705	0.004%
JNLBlackRock Global Allocation Fund	Median BV	10/14/2027	8.65	Fixed Income	622,192	686,699	0.024%
JNLBlackRock Global Allocation Fund	Sector Alarm Holding AS	6/10/2029	7.76	Fixed Income	284,189	319,516	0.011%
JNLBlackRock Global Allocation Fund	Cabinet of Ministers of Ukraine	2/1/2029	1.75	Fixed Income	56,246	33,348	0.001%
JNLBlackRock Global Allocation Fund	Cabinet of Ministers of Ukraine	2/1/2030		Fixed Income	5,120	5,120	0.000%
JNLBlackRock Global Allocation Fund	Cabinet of Ministers of Ukraine	2/1/2034	1.75	Fixed Income	37,497	16,701	0.001%
JNLBlackRock Global Allocation Fund	Cabinet of Ministers of Ukraine	2/1/2034		Fixed Income	19,135	6,362	0.000%
JNLBlackRock Global Allocation Fund	Cabinet of Ministers of Ukraine	2/1/2035		Fixed Income	16,170	6,994	0.000%
JNLBlackRock Global Allocation Fund	Cabinet of Ministers of Ukraine	2/1/2036		Fixed Income	13,475	5,828	0.000%
JNLBlackRock Global Allocation Fund	ABN AMRO Bank N.V.	1/1/2200	6.38	Fixed Income	200,000	226,541	0.008%
JNLBlackRock Global Allocation Fund	PECO Energy Company	9/15/2054	5.25	Fixed Income	168,000	173,734	0.006%
JNLBlackRock Global Allocation Fund	Gobierno De La Republica Oriental Del Uruguay	9/10/2060	5.25	Fixed Income	135,000	135,580	0.005%
JNLBlackRock Global Allocation Fund	CPPIB Capital Inc.	8/7/2031	8.59	Fixed Income	774,000	868,528	0.030%
JNLBlackRock Global Allocation Fund	Snam S.P.A.	1/1/2200	4.50	Fixed Income	200,000	225,164	0.008%
JNLBlackRock Global Allocation Fund	ADNOC Murban RSC Ltd.	9/11/2054	5.13	Fixed Income	200,000	197,002	0.007%
JNLBlackRock Global Allocation Fund	Ocel France 3	12/31/2049		Fixed Income	1,000,000	1,066,854	0.037%
JNLBlackRock Global Allocation Fund	Al Sirona Luxembourg Acquisition Sarl	9/30/2028	7.59	Fixed Income	1,000,000	1,117,915	0.039%
JNLBlackRock Global Allocation Fund	ING Groep N.V.	1/1/2200	7.25	Fixed Income	450,000	465,758	0.016%
JNLBlackRock Global Allocation Fund	UBS Group AG	1/1/2200	6.85	Fixed Income	725,000	738,756	0.026%
JNLBlackRock Global Allocation Fund	EDP, S.A.	9/16/2054	4.63	Fixed Income	400,000	446,658	0.016%
JNLBlackRock Global Allocation Fund	Nationwide Building Society	1/1/2200	7.50	Fixed Income	275,000	370,350	0.013%
JNLBlackRock Global Allocation Fund	Vedanta Resources Finance II PLC	9/17/2029	10.88	Fixed Income	243,000	247,467	0.009%
JNLBlackRock Global Allocation Fund	Banco Activer, S.A. Institucion de Banca Multiple, Grupo Financiero Activer	1/31/2041	7.25	Fixed Income	215,000	224,423	0.008%
JNLBlackRock Global Allocation Fund	Electricite de France	1/1/2200	7.38	Fixed Income	200,000	273,813	0.010%
JNLBlackRock Global Allocation Fund	Electricite de France	1/1/2200	5.13	Fixed Income	200,000	203,819	0.008%
JNLBlackRock Global Allocation Fund	Electricite de France	1/1/2200	5.63	Fixed Income	200,000	225,825	0.008%
JNLBlackRock Global Allocation Fund	Volcan Compania Minera S.A.A.	1/24/2030	8.75	Fixed Income	44,000	38,230	0.001%
JNLBlackRock Global Allocation Fund	Azelex Finance	9/25/2029	4.75	Fixed Income	180,000	203,624	0.007%
JNLBlackRock Global Allocation Fund	Connect Finco SARL	9/15/2029		Fixed Income	546,000	526,638	0.018%
JNLBlackRock Global Allocation Fund	Perpago Finances Unlimited Company	9/30/2033	5.38	Fixed Income	161,000	182,228	0.006%
JNLBlackRock Global Allocation Fund	Icon Parent Inc	12/31/2049		Fixed Income	1,997,000	1,981,184	0.069%
JNLBlackRock Global Allocation Fund	Fronei Lux Finco Sa Ri	12/31/2049		Fixed Income	2,000,000	2,224,206	0.078%
JNLBlackRock Global Allocation Fund	Solars Energy Infrastructure	8/31/2029	11.10	Fixed Income	3,009,000	2,960,885	0.104%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Mehlainen Yhtiöt Oy	7/3/2031	2.00	Fixed Income	143,788	159,986	0.06%
JNLBlackRock Global Allocation Fund	Babliou Family	11/18/2030	7.67	Fixed Income	578,592	637,628	0.02%
JNLBlackRock Global Allocation Fund	Babliou Family	11/18/2030	7.67	Fixed Income	1,457,407	1,606,611	0.05%
JNLBlackRock Global Allocation Fund	Apcoa Group GmbH	4/15/2031		Fixed Income	369,000	410,748	0.01%
JNLBlackRock Global Allocation Fund	Pegasus BioCo B.V.	7/12/2029	7.04	Fixed Income	1,333,334	1,484,619	0.05%
JNLBlackRock Global Allocation Fund	Aerovia Group	8/22/2031	7.00	Fixed Income	1,696,113	1,896,457	0.06%
JNLBlackRock Global Allocation Fund	Venture Global LNG, Inc.	1/1/2200	9.00	Fixed Income	733,000	743,183	0.02%
JNLBlackRock Global Allocation Fund	Platen BC Bldco AB	4/2/2031	8.20	Fixed Income	32,680	36,488	0.00%
JNLBlackRock Global Allocation Fund	Te Connectivity Public Limited Company			Equity	1,523	229,958	0.08%
JNLBlackRock Global Allocation Fund	Julilee CLO 2024-2030 Designated Activity Company	11/15/2038		Fixed Income	540,000	601,101	0.02%
JNLBlackRock Global Allocation Fund	Dynamo NewCo II GmbH	10/15/2031	6.25	Fixed Income	185,000	208,890	0.00%
Total Non Derivatives						2,812,389,860	
Derivatives							
JNLBlackRock Global Allocation Fund	Bought AUD / Sold USD			Derivative		1,491,358	0.05%
JNLBlackRock Global Allocation Fund	Bought AUD / Sold USD			Derivative		167,705	0.00%
JNLBlackRock Global Allocation Fund	Bought AUD / Sold USD			Derivative		9,312	0.00%
JNLBlackRock Global Allocation Fund	Bought AUD / Sold USD			Derivative		1,150	0.00%
JNLBlackRock Global Allocation Fund	Bought AUD / Sold USD			Derivative		1,835	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		216,805	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		23,970	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		28,893	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		14,637	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold EUR			Derivative		315,346	0.01%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		70,331	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		22,829	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		4,335	0.00%
JNLBlackRock Global Allocation Fund	Bought BRL / Sold USD			Derivative		1,232	0.00%
JNLBlackRock Global Allocation Fund	Bought CAD / Sold USD			Derivative		85,911	0.00%
JNLBlackRock Global Allocation Fund	Bought CAD / Sold USD			Derivative		83,182	0.00%
JNLBlackRock Global Allocation Fund	Bought CHF / Sold USD			Derivative		(129,716)	-0.05%
JNLBlackRock Global Allocation Fund	Bought CLP / Sold USD			Derivative		36,623	0.00%
JNLBlackRock Global Allocation Fund	Bought CLP / Sold USD			Derivative		26,115	0.00%
JNLBlackRock Global Allocation Fund	Bought CLP / Sold USD			Derivative		13,567	0.00%
JNLBlackRock Global Allocation Fund	Bought CNY / Sold USD			Derivative		362,247	0.01%
JNLBlackRock Global Allocation Fund	Bought CNY / Sold USD			Derivative		27,985	0.00%
JNLBlackRock Global Allocation Fund	Bought CNY / Sold USD			Derivative		5,214	0.00%
JNLBlackRock Global Allocation Fund	Bought CNY / Sold USD			Derivative		3,372	0.00%
JNLBlackRock Global Allocation Fund	Bought CNY / Sold USD			Derivative		(1,061)	0.00%
JNLBlackRock Global Allocation Fund	Bought CNY / Sold USD			Derivative		(23,617)	-0.00%
JNLBlackRock Global Allocation Fund	Bought COP / Sold USD			Derivative		(18,239)	0.00%
JNLBlackRock Global Allocation Fund	Bought COP / Sold USD			Derivative		(50,541)	-0.02%
JNLBlackRock Global Allocation Fund	Bought COP / Sold USD			Derivative		(78,688)	-0.00%
JNLBlackRock Global Allocation Fund	Bought COP / Sold USD			Derivative		(131,230)	-0.05%
JNLBlackRock Global Allocation Fund	Bought COP / Sold USD			Derivative		(2,237)	0.00%
JNLBlackRock Global Allocation Fund	Bought COP / Sold USD			Derivative		(4,463)	0.00%
JNLBlackRock Global Allocation Fund	Bought CZK / Sold USD			Derivative		(21,926)	-0.00%
JNLBlackRock Global Allocation Fund	Bought CZK / Sold USD			Derivative		(1,705)	0.00%
JNLBlackRock Global Allocation Fund	Bought DKK / Sold USD			Derivative		394,255	0.01%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		3,191	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		7,116	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		2,651	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold CHF			Derivative		149,153	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		264,147	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		93,399	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		2,599	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold GBP			Derivative		(6,849)	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		1,108	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold GBP			Derivative		(498)	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		1,103	0.00%
JNLBlackRock Global Allocation Fund	Bought EUR / Sold USD			Derivative		(5,125)	0.00%
JNLBlackRock Global Allocation Fund	Bought GBP / Sold USD			Derivative		139,652	0.00%
JNLBlackRock Global Allocation Fund	Bought GBP / Sold EUR			Derivative		75,380	0.00%
JNLBlackRock Global Allocation Fund	Bought GBP / Sold USD			Derivative		7,381	0.00%
JNLBlackRock Global Allocation Fund	Bought GBP / Sold USD			Derivative		6,633	0.00%
JNLBlackRock Global Allocation Fund	Bought HUF / Sold USD			Derivative		31,498	0.00%
JNLBlackRock Global Allocation Fund	Bought HUF / Sold USD			Derivative		(204)	0.00%
JNLBlackRock Global Allocation Fund	Bought HUF / Sold USD			Derivative		(30,547)	-0.00%
JNLBlackRock Global Allocation Fund	Bought HUF / Sold USD			Derivative		(3,163)	0.00%
JNLBlackRock Global Allocation Fund	Bought IDR / Sold USD			Derivative		40,678	0.00%
JNLBlackRock Global Allocation Fund	Bought IDR / Sold USD			Derivative		4,537	0.00%
JNLBlackRock Global Allocation Fund	Bought INR / Sold USD			Derivative		93	0.00%
JNLBlackRock Global Allocation Fund	Bought INR / Sold USD			Derivative		(403)	0.00%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold EUR			Derivative		(395,314)	-0.01%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold USD			Derivative		(1,351,761)	-0.04%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold USD			Derivative		474	0.00%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold USD			Derivative		(322)	0.00%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold USD			Derivative		8,477	0.00%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold USD			Derivative		(24,984)	-0.00%
JNLBlackRock Global Allocation Fund	Bought JPY / Sold USD			Derivative		22,478	0.00%
JNLBlackRock Global Allocation Fund	Bought KRW / Sold USD			Derivative		354,481	0.01%
JNLBlackRock Global Allocation Fund	Bought KRW / Sold USD			Derivative		12,365	0.00%
JNLBlackRock Global Allocation Fund	Bought KRW / Sold USD			Derivative		6,634	0.00%
JNLBlackRock Global Allocation Fund	Bought KRW / Sold USD			Derivative		(145)	0.00%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold USD			Derivative		(57,800)	-0.00%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold USD			Derivative		(151,685)	-0.05%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold USD			Derivative		138,652	0.00%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold EUR			Derivative		126,438	0.00%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold USD			Derivative		(68,000)	-0.00%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold USD			Derivative		(16,458)	-0.00%
JNLBlackRock Global Allocation Fund	Bought MXN / Sold USD			Derivative		(6,152)	0.00%
JNLBlackRock Global Allocation Fund	Bought MYR / Sold USD			Derivative		159,759	0.00%
JNLBlackRock Global Allocation Fund	Bought MYR / Sold USD			Derivative		19,757	0.00%
JNLBlackRock Global Allocation Fund	Bought NOK / Sold CHF			Derivative		392,986	0.01%
JNLBlackRock Global Allocation Fund	Bought NOK / Sold USD			Derivative		3,650	0.00%
JNLBlackRock Global Allocation Fund	Bought NOK / Sold USD			Derivative		(660)	0.00%
JNLBlackRock Global Allocation Fund	Bought NOK / Sold USD			Derivative		377	0.00%
JNLBlackRock Global Allocation Fund	Bought NZD / Sold USD			Derivative		47,830	0.00%
JNLBlackRock Global Allocation Fund	Bought PEN / Sold USD			Derivative		27,305	0.00%
JNLBlackRock Global Allocation Fund	Bought PEN / Sold USD			Derivative		5,766	0.00%
JNLBlackRock Global Allocation Fund	Bought PLN / Sold USD			Derivative		42,627	0.00%
JNLBlackRock Global Allocation Fund	Bought PLN / Sold EUR			Derivative		(1,961)	0.00%
JNLBlackRock Global Allocation Fund	Bought PLN / Sold USD			Derivative		(54,130)	0.00%
JNLBlackRock Global Allocation Fund	Bought PLN / Sold EUR			Derivative		(93)	0.00%
JNLBlackRock Global Allocation Fund	Bought PLN / Sold USD			Derivative		(740)	0.00%
JNLBlackRock Global Allocation Fund	Bought SEK / Sold USD			Derivative		189,522	0.00%
JNLBlackRock Global Allocation Fund	Bought SGD / Sold USD			Derivative		77,167	0.00%
JNLBlackRock Global Allocation Fund	Bought SGD / Sold USD			Derivative		6,038	0.00%
JNLBlackRock Global Allocation Fund	Bought SGD / Sold USD			Derivative		734	0.00%
JNLBlackRock Global Allocation Fund	Bought THB / Sold USD			Derivative		157,296	0.00%
JNLBlackRock Global Allocation Fund	Bought THB / Sold USD			Derivative		19,974	0.00%
JNLBlackRock Global Allocation Fund	Bought THB / Sold USD			Derivative		7,605	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		19,556	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		6,919	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		12,876	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		6,564	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		4,878	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		21,558	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		64,846	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		105,500	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		58,194	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		51,304	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		109,805	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		23,327	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		62,916	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		19,923	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		13,128	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		13,033	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		4,377	0.00%
JNLBlackRock Global Allocation Fund	Bought TRY / Sold USD			Derivative		4,033	0.00%
JNLBlackRock Global Allocation Fund	Bought TWD / Sold USD			Derivative		116,175	0.00%
JNLBlackRock Global Allocation Fund	Bought TWD / Sold USD			Derivative		3,446	0.00%
JNLBlackRock Global Allocation Fund	Bought TWD / Sold USD			Derivative		2,888	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold MXN			Derivative		582,543	0.02%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		237,363	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(141,317)	-0.05%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(63,223)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(112,272)	-0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(25,757)	-0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(1,297)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(1,854)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(2,240)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(1,583)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(1,582)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(1,769)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(1,769)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(4,229)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(3,299)	0.00%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(22,751)	-0.00%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(48,658)	-0.002%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(42,377)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold COP			Derivative		(67,474)	-0.002%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PEN			Derivative		(19,879)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold NOK			Derivative		(293,075)	-0.010%
JNLBlackRock Global Allocation Fund	Bought USD / Sold GBP			Derivative		(661,053)	-0.023%
JNLBlackRock Global Allocation Fund	Bought USD / Sold DR			Derivative		(638)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold HKD			Derivative		(20,887)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold INR			Derivative		(1,124)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		(64,652)	-0.002%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		(18,844)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold MXN			Derivative		6,538	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold COP			Derivative		3,180	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(8,745)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(13,850)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold SEK			Derivative		(3,874)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		2,427	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold ZAR			Derivative		(8,538)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold MXN			Derivative		28,971	0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PLN			Derivative		28,652	0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PLN			Derivative		145	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold DR			Derivative		(2,369)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold DR			Derivative		(2,972)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold CZK			Derivative		38,551	0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold THB			Derivative		(78,471)	-0.003%
JNLBlackRock Global Allocation Fund	Bought USD / Sold HUF			Derivative		10,353	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold ZAR			Derivative		(22,381)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold MXN			Derivative		76,634	0.003%
JNLBlackRock Global Allocation Fund	Bought USD / Sold COP			Derivative		65,101	0.002%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		(41,886)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold UYU			Derivative		1,398	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PLN			Derivative		18,535	0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PEN			Derivative		(32,896)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold ZAR			Derivative		(23,753)	-0.001%
JNLBlackRock Global Allocation Fund	Bought USD / Sold DR			Derivative		(2,193)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold MXN			Derivative		9,174	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold COP			Derivative		13,631	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold THB			Derivative		(9,311)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold SEK			Derivative		(7,17)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		(13,970)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold UYU			Derivative		17	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold CZK			Derivative		1,741	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PLN			Derivative		1,015	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold ZAR			Derivative		(3,058)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold HUF			Derivative		658	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(1,779)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold PEN			Derivative		(5,964)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold DR			Derivative		(2,03)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold GBP			Derivative		695	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold COP			Derivative		12,698	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold EUR			Derivative		3,169	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TRY			Derivative		(4,140)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold JPY			Derivative		(2,663)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold TWD			Derivative		(5,769)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold CLP			Derivative		(2,390)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold ZAR			Derivative		-72	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		(4,443)	0.000%
JNLBlackRock Global Allocation Fund	Bought USD / Sold BRL			Derivative		1,530	0.000%
JNLBlackRock Global Allocation Fund	Bought ZAR / Sold USD			Derivative		187,931	0.007%
JNLBlackRock Global Allocation Fund	Bought ZAR / Sold EUR			Derivative		211,001	0.007%
JNLBlackRock Global Allocation Fund	Bought ZAR / Sold USD			Derivative		14,098	0.000%
JNLBlackRock Global Allocation Fund	Bought ZAR / Sold USD			Derivative		11,810	0.000%
JNLBlackRock Global Allocation Fund	Bought ZAR / Sold USD			Derivative		6,394	0.000%
JNLBlackRock Global Allocation Fund	American Airlines Group Inc. OPTION			Derivative	137	685	0.000%
JNLBlackRock Global Allocation Fund	American Airlines Group Inc. OPTION			Derivative	127	1	0.000%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	275	178,750	0.006%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	202	205,636	0.007%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	728	262,080	0.009%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	677	(360,563)	-0.013%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	-677	(266,061)	-0.009%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	729	177,512	0.006%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	-729	(10,935)	0.000%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	-121	(2,033)	0.000%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	-122	(36,722)	-0.001%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	-62	(16,058)	-0.001%
JNLBlackRock Global Allocation Fund	Apple Inc. OPTION			Derivative	-486	(11,178)	0.000%
JNLBlackRock Global Allocation Fund	Adobe Inc. OPTION			Derivative	-31	(3,565)	0.000%
JNLBlackRock Global Allocation Fund	Adobe Inc. OPTION			Derivative	-32	(19,200)	-0.001%
JNLBlackRock Global Allocation Fund	Adobe Inc. OPTION			Derivative	-16	(6,720)	0.000%
JNLBlackRock Global Allocation Fund	Autodesk, Inc. OPTION			Derivative	-52	(5,720)	0.000%
JNLBlackRock Global Allocation Fund	Autodesk, Inc. OPTION			Derivative	-75	(6,807)	0.000%
JNLBlackRock Global Allocation Fund	Autodesk, Inc. OPTION			Derivative	-34	(13,090)	0.000%
JNLBlackRock Global Allocation Fund	Autodesk, Inc. OPTION			Derivative	-17	(7,514)	0.000%
JNLBlackRock Global Allocation Fund	Applied Materials, Inc. OPTION			Derivative	-74	(32,560)	-0.001%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	243	131,220	0.005%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	363	194,000	0.001%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	-363	(109,263)	-0.004%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	-191	(11,269)	0.000%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	-228	(59,052)	-0.002%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	-142	1	0.000%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	-144	(27,360)	-0.001%
JNLBlackRock Global Allocation Fund	Amazon.com, Inc. OPTION			Derivative	-96	(13,536)	0.000%
JNLBlackRock Global Allocation Fund	Broadcom Inc. OPTION			Derivative	108	32,940	0.001%
JNLBlackRock Global Allocation Fund	Broadcom Inc. OPTION			Derivative	-81	1	0.000%
JNLBlackRock Global Allocation Fund	Broadcom Inc. OPTION			Derivative	-84	(27,300)	-0.001%
JNLBlackRock Global Allocation Fund	Broadcom Inc. OPTION			Derivative	-42	(4,872)	0.000%
JNLBlackRock Global Allocation Fund	Bank of America Corporation OPTION			Derivative	-692	(19,376)	-0.001%
JNLBlackRock Global Allocation Fund	Bank of America Corporation OPTION			Derivative	273	99,197	0.003%
JNLBlackRock Global Allocation Fund	Bank of America Corporation OPTION			Derivative	-340	(11,900)	0.000%
JNLBlackRock Global Allocation Fund	Bank of America Corporation OPTION			Derivative	-171	(5,301)	0.000%
JNLBlackRock Global Allocation Fund	Bank of America Corporation OPTION			Derivative	-273	(18,428)	-0.001%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	44,223,806	(343,270)	-0.001%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	48,244,854	(574,915)	-0.002%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	88,617,591	(181,825)	-0.006%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	121,683,577	(251,235)	-0.009%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	99,197,965	(208,080)	-0.007%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	89,381,694	(188,576)	-0.007%
JNLBlackRock Global Allocation Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	15,924,520	2,436,255	0.009%
JNLBlackRock Global Allocation Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,335,000	91,781	0.003%
JNLBlackRock Global Allocation Fund	BorgWarner Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	210,000	(3,741)	0.000%
JNLBlackRock Global Allocation Fund	Vistra Operations Company LLC CREDIT DEFAULT T SWAP SINGLE NAME			Derivative	337,000	19,483	0.001%
JNLBlackRock Global Allocation Fund	ESTR Volume Weighted Trimmed Mean Rate EXCHANGE CLEARED IRS			Derivative	11,820,000	66,660	0.002%
JNLBlackRock Global Allocation Fund	Xerox Corporation CREDIT DEFAULT SWAP SINGLE NAME			Derivative	120,000	7,423	0.000%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	80,000	3,734	0.000%
JNLBlackRock Global Allocation Fund	Xerox Corporation CREDIT DEFAULT SWAP SINGLE NAME			Derivative	80,000	4,349	0.000%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	70,000	3,268	0.000%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	40,000	1,867	0.000%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	60,000	2,801	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	69,118,718	268,125	0.000%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	228,098,857	(33,332)	-0.001%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	228,098,862	(32,942)	-0.001%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	69,083,898	264,095	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	36,241,994	143,293	0.000%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	115,000	5,368	0.000%
JNLBlackRock Global Allocation Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	134,798,300	(343,286)	-0.012%
JNLBlackRock Global Allocation Fund	Simon Property Group, Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	645,000	(12,895)	0.000%
JNLBlackRock Global Allocation Fund	Paramount Global CREDIT DEFAULT SWAP SINGLE NAME			Derivative	210,000	1	0.000%
JNLBlackRock Global Allocation Fund	Paramount Global CREDIT DEFAULT SWAP SINGLE NAME			Derivative	68,182	(17)	0.000%
JNLBlackRock Global Allocation Fund	Paramount Global CREDIT DEFAULT SWAP SINGLE NAME			Derivative	63,409	(15)	0.000%
JNLBlackRock Global Allocation Fund	Piney Bowes Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	195,000	(727)	0.000%
JNLBlackRock Global Allocation Fund	URS Group AG CREDIT DEFAULT SWAP SINGLE NAME			Derivative	1,120,000	(24,461)	-0.000%
JNLBlackRock Global Allocation Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	10,155,000	515,535	0.018%
JNLBlackRock Global Allocation Fund	3M JIBAR EXCHANGE CLEARED IRS			Derivative	44,673,604	273,269	0.010%
JNLBlackRock Global Allocation Fund	3M JIBAR EXCHANGE CLEARED IRS			Derivative	22,336,802	138,375	0.005%
JNLBlackRock Global Allocation Fund	3M JIBAR EXCHANGE CLEARED IRS			Derivative	22,336,802	138,722	0.005%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	27,034,491	(2,457,272)	-0.009%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	26,801,769	(235,005)	-0.008%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	20,953,980	(186,083)	-0.007%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	149,586	(1,313)	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	19,706,965	(180,531)	-0.006%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	22,621,005	(208,612)	-0.007%
JNLBlackRock Global Allocation Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	162,279,000	130,458	0.005%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,536,900	(294,449)	-0.010%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	73,036,400	(9,745,444)	-0.340%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	475,417,900	8,863	0.000%
JNLBlackRock Global Allocation Fund	American Airlines Group Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	140,000	(1,408)	0.000%
JNLBlackRock Global Allocation Fund	Xerox Corporation CREDIT DEFAULT SWAP SINGLE NAME			Derivative	40,000	4,925	0.000%
JNLBlackRock Global Allocation Fund	Xerox Corporation CREDIT DEFAULT SWAP SINGLE NAME			Derivative	20,000	2,463	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	15,436,000	335,572	0.012%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	59,861,617	118,721	0.003%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	59,861,617	688,064	0.024%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,126,980	(518,016)	-0.018%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	37,186,300	(159,369)	-0.006%
JNLBlackRock Global Allocation Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	9,357,515	208,167	0.007%
JNLBlackRock Global Allocation Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	9,372,000	209,288	0.007%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-7,698,716,000	(1)	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	7,698,716,000	91	0.000%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	7,380,899	(65,679)	-0.002%
JNLBlackRock Global Allocation Fund	Boeing Company, The CREDIT DEFAULT SWAP SINGLE NAME			Derivative	1,300,000	11,874	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-38,164,481	(35,604)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	38,164,481	337,236	0.012%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	36,885,895	652,875	0.023%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	36,885,895	(278,493)	-0.010%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	10,160,358	(86,103)	-0.003%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	45,463,535	925,370	0.032%
JNLBlackRock Global Allocation Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	23,857,414	873,184	0.031%
JNLBlackRock Global Allocation Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	40,457,500	(99,699)	-0.003%
JNLBlackRock Global Allocation Fund	MIBOR EXCHANGE CLEARED IRS			Derivative	1,776,593,150	137,636	0.005%
JNLBlackRock Global Allocation Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	440,457,500	(98,526)	-0.003%
JNLBlackRock Global Allocation Fund	MIBOR EXCHANGE CLEARED IRS			Derivative	620,759,251	79,611	0.003%
JNLBlackRock Global Allocation Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	4,330,862,728	49,234	0.002%
JNLBlackRock Global Allocation Fund	MIBOR EXCHANGE CLEARED IRS			Derivative	507,893,932	56,122	0.002%
JNLBlackRock Global Allocation Fund	MIBOR EXCHANGE CLEARED IRS			Derivative	326,766,241	70,945	0.002%
JNLBlackRock Global Allocation Fund	MIBOR EXCHANGE CLEARED IRS			Derivative	326,766,240	73,759	0.003%
JNLBlackRock Global Allocation Fund	3M JBAR EXCHANGE CLEARED IRS			Derivative	65,433,822	(35,619)	-0.001%
JNLBlackRock Global Allocation Fund	Community Health Systems, Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	50,000	297	0.000%
JNLBlackRock Global Allocation Fund	USDTRY Spot Rate OPTION			Derivative	769,000	122,511	0.004%
JNLBlackRock Global Allocation Fund	USDTRY Spot Rate OPTION			Derivative	-1,155,000	(124,363)	-0.004%
JNLBlackRock Global Allocation Fund	Boston Scientific Corporation OPTION			Derivative	446	118,190	0.004%
JNLBlackRock Global Allocation Fund	Boston Scientific Corporation OPTION			Derivative	-446	(15,610)	-0.001%
JNLBlackRock Global Allocation Fund	Virgin Media Finance PLC CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-634,500	37,852	0.001%
JNLBlackRock Global Allocation Fund	Virgin Media Finance PLC CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-332,269	19,822	0.001%
JNLBlackRock Global Allocation Fund	Virgin Media Finance PLC CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-302,231	18,030	0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-28,561,044	(70,874)	-0.002%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	28,561,044	1,038,927	0.036%
JNLBlackRock Global Allocation Fund	Community Health Systems, Inc. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	80,000	475	0.000%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	206,450,600	6,774,823	0.237%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	172,694,300	3,514,909	0.123%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	265,429,800	13,658,953	0.478%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	203,665,800	17,049,765	0.586%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,103,300	1,135,217	0.040%
JNLBlackRock Global Allocation Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	26,622,864	887,763	0.030%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	37,974,000	1,194,565	0.042%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	38,002,000	545,844	0.019%
JNLBlackRock Global Allocation Fund	3M JBAR EXCHANGE CLEARED IRS			Derivative	95,232,888	(60,335)	-0.002%
JNLBlackRock Global Allocation Fund	Boeing Company, The CREDIT DEFAULT SWAP SINGLE NAME			Derivative	1,300,000	18,730	0.001%
JNLBlackRock Global Allocation Fund	Colombian Interbank Rate INTEREST RATE SWAP			Derivative	8,991,892,023	(2,854)	0.000%
JNLBlackRock Global Allocation Fund	Colombian Interbank Rate INTEREST RATE SWAP			Derivative	14,191,534,855	(7,174)	0.000%
JNLBlackRock Global Allocation Fund	DXC Technology Company CREDIT DEFAULT SWAP SINGLE NAME			Derivative	225,000	(36,156)	-0.001%
JNLBlackRock Global Allocation Fund	USDTRY Spot Rate OPTION STRUCTURED BARRIER OPTION			Derivative	1,518,000	22,168	0.001%
JNLBlackRock Global Allocation Fund	DXC Technology Company CREDIT DEFAULT SWAP SINGLE NAME			Derivative	112,000	(17,998)	-0.001%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	45,463,535	882,652	0.031%
JNLBlackRock Global Allocation Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	19,265,894	605,786	0.021%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	9,276,000	16,036	0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-35,922,000	(16,113)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-18,253,660	(165,575)	-0.006%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	18,253,660	383,641	0.013%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	18,296,065	384,574	0.013%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-18,296,065	(19,000)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-18,656,706	(37,119)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-22,035,000	(35,638)	-0.001%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION STRUCTURED BARRIER OPTION			Derivative	6,043,685	33	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	24,554,287	(20,925)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	18,554,287	341,640	0.012%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	12,495,182	348,942	0.012%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-18,554,287	(19,402)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-12,495,182	(6,468)	-0.000%
JNLBlackRock Global Allocation Fund	USDMMN Spot Rate OPTION			Derivative	1,654,000	116,573	0.004%
JNLBlackRock Global Allocation Fund	USDMMN Spot Rate OPTION			Derivative	-2,484,000	(77,599)	-0.003%
JNLBlackRock Global Allocation Fund	S&P 500 Index OPTION			Derivative	-2,932	62,082	0.002%
JNLBlackRock Global Allocation Fund	USD/CNH Spot Rate OPTION STRUCTURED ONETOUCH OPTION			Derivative	124,000	780	0.000%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION STRUCTURED ONETOUCH OPTION			Derivative	115,000	2,159	0.000%
JNLBlackRock Global Allocation Fund	S&P 500 Index OPTION			Derivative	915	78,059	0.003%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-18,627,000	(135,420)	-0.005%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-37,255,000	(176,835)	-0.006%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-9,052,000	(65,809)	-0.002%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-17,408,879	(82,633)	-0.003%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-17,408,879	(82,633)	-0.003%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-9,052,000	(65,809)	-0.002%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-37,255,889	(8,480)	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-16,363,417	(19,748)	-0.001%
JNLBlackRock Global Allocation Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	16,523,522	244,221	0.009%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-21,960,470	(230,544)	-0.008%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION			Derivative	1,130,000	585	0.000%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION			Derivative	1,130,000	363	0.000%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION STRUCTURED ONETOUCH OPTION			Derivative	57,000	973	0.000%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION STRUCTURED ONETOUCH OPTION			Derivative	57,000	822	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-21,989,552	(134,357)	-0.005%
JNLBlackRock Global Allocation Fund	CDX.NA.HY 42 SWAPTION CDX - INDEX			Derivative	3,350,000	878	0.000%
JNLBlackRock Global Allocation Fund	USD/COP Spot Rate OPTION			Derivative	2,021,000	44,245	0.002%
JNLBlackRock Global Allocation Fund	USD/COP Spot Rate OPTION			Derivative	-1,213,000	(5,102)	0.000%
JNLBlackRock Global Allocation Fund	USD/BRL Spot Rate OPTION			Derivative	2,426,000	14,165	0.000%
JNLBlackRock Global Allocation Fund	USD/BRL Spot Rate OPTION			Derivative	-1,213,000	(2,438)	0.000%
JNLBlackRock Global Allocation Fund	EURUSD Spot Rate OPTION STRUCTURED BARRIER OPTION			Derivative	223,479	2,725	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	14,960,000	33,775	0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-33,286,661	(29,164)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-16,643,330	(14,107)	0.000%
JNLBlackRock Global Allocation Fund	28-Day MEXBOR EXCHANGE CLEARED IRS			Derivative	84,481,000	(21,014)	-0.001%
JNLBlackRock Global Allocation Fund	USD/BRL Spot Rate OPTION			Derivative	1,776,000	(1)	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-24,474,000	(3,659)	-0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-97,971,000	(197,782)	-0.007%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	17,151,000	(19,970)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-20,760,603	(218,092)	-0.008%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-20,760,603	(274,609)	-0.009%
JNLBlackRock Global Allocation Fund	USD/KRW Spot Rate OPTION			Derivative	800,000	(8,481)	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-36,093,796	(83,011)	-0.003%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-72,187,593	(337,882)	-0.012%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-33,214,420	(34,052)	-0.001%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	138,489,000	9,113	0.000%
JNLBlackRock Global Allocation Fund	USDTRY Spot Rate OPTION STRUCTURED ONETOUCH OPTION			Derivative	82,000	15,291	0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-17,831,000	(55,930)	-0.002%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-9,061,900	(29,016)	-0.001%
JNLBlackRock Global Allocation Fund	CDX.NA.HY 42 SWAPTION CDX - INDEX			Derivative	15,448,000	14,110	0.000%
JNLBlackRock Global Allocation Fund	CDX.NA.HY 42 SWAPTION CDX - INDEX			Derivative	-15,648,000	(5,706)	0.000%
JNLBlackRock Global Allocation Fund	Chilean Interbank Rate INTEREST RATE SWAP			Derivative	1,361,348,000	(486)	0.000%
JNLBlackRock Global Allocation Fund	Citi EQ US 1W Volatility Carry Index TOTAL RETURN SWAP - INDEX			Derivative	1,000,324	4,358	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-35,168,600	(28,398)	-0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	17,583,000	85,842	0.003%
JNLBlackRock Global Allocation Fund	Financial Select Sector SPDR Fund OPTION			Derivative	120,900	55,614	0.002%
JNLBlackRock Global Allocation Fund	CDX.NA.HY 42 SWAPTION CDX - INDEX			Derivative	12,650,000	2,290	0.000%
JNLBlackRock Global Allocation Fund	CDX.NA.HY 42 SWAPTION CDX - INDEX			Derivative	-12,650,000	(2,701)	0.000%
JNLBlackRock Global Allocation Fund	CDX.NA.HY 42 SWAPTION CDX - INDEX			Derivative	3,540,000	3,248	0.000%
JNLBlackRock Global Allocation Fund	iShares Broad USD High Yield Corporate Bond ETF TOTAL RETURN SWAP			Derivative	8,760,887	(5,799)	0.000%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ Investment Grade Corporate Bond ETF TOTAL RETURN SWAP			Derivative	5,562,220	28,178	0.001%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ Investment Grade Corporate Bond ETF TOTAL RETURN SWAP			Derivative	14,051,059	75,233	0.003%
JNLBlackRock Global Allocation Fund	28-Day MEXBOR EXCHANGE CLEARED IRS			Derivative	11,663,558	217	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	16,862,373	396	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	2,960,583	(574)	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	1,681,430	(75)	0.000%
JNLBlackRock Global Allocation Fund	BRAZBOR INTEREST RATE SWAP			Derivative	2,284,476	(3,186)	0.000%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ High Yield Corporate Bond ETF TOTAL RETURN SWAP			Derivative	94,645	(4,373)	0.000%
JNLBlackRock Global Allocation Fund	3M JBAR EXCHANGE CLEARED IRS			Derivative	15,207,124	(337)	0.000%
JNLBlackRock Global Allocation Fund	Colombian Interbank Rate INTEREST RATE SWAP			Derivative	226,117,848	246	0.000%
JNLBlackRock Global Allocation Fund	Colombian Interbank Rate INTEREST RATE SWAP			Derivative	547,224,000	9	0.000%
JNLBlackRock Global Allocation Fund	ITRAXX.EUR.XD 42 V1 SWAPTION CDX - INDEX			Derivative	-3,160,000	(1,498)	0.000%
JNLBlackRock Global Allocation Fund	ITRAXX.EUR.XD 42 V1 SWAPTION CDX - INDEX			Derivative	3,160,000	4,167	0.000%
JNLBlackRock Global Allocation Fund	Telecom Italia S.p.A. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	650,000	25,205	0.001%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-17,481,700	(83,547)	-0.003%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-8,440,000	(45,019)	-0.002%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-8,440,000	(76,361)	-0.003%
JNLBlackRock Global Allocation Fund	Government of the Republic of Panama CREDIT DEFAULT SWAP SINGLE NAME			Derivative	780,000	21,884	0.001%
JNLBlackRock Global Allocation Fund	Southwest Airlines Co. CREDIT DEFAULT SWAP SINGLE NAME			Derivative	955,000	(3,200)	0.000%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-16,742,000	(152,242)	-0.005%
JNLBlackRock Global Allocation Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-16,742,000	(116,927)	-0.004%
JNLBlackRock Global Allocation Fund	USD/CNH Spot Rate OPTION			Derivative	2,313,000	9,851	0.000%
JNLBlackRock Global Allocation Fund	USD/ZAR Spot Rate OPTION			Derivative	-775,000	(16,238)	-0.001%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	CDX.NAIG.43 SWAPTION CDX - INDEX			Derivative	-17,420,000	(5,200)	0.000%
JNLBlackRock Global Allocation Fund	CDX.NA.IS.43 SWAPTION CDX - INDEX			Derivative	-17,420,000	12,216	0.000%
JNLBlackRock Global Allocation Fund	CDX.NA.HY.43 SWAPTION CDX - INDEX			Derivative	2,690,000	4,141	0.000%
JNLBlackRock Global Allocation Fund	CDX.NA.HY.43 SWAPTION CDX - INDEX			Derivative	-2,690,000	(1,287)	0.000%
JNLBlackRock Global Allocation Fund	Carmer Global Corporation OPTION			Derivative	978	273,840	0.010%
JNLBlackRock Global Allocation Fund	Carmer Global Corporation OPTION			Derivative	-489	(34,230)	-0.001%
JNLBlackRock Global Allocation Fund	STOXX Banks Index FUTURE - CASH SETTLED			Derivative	319	19,403	0.001%
JNLBlackRock Global Allocation Fund	Cameco Corporation OPTION			Derivative	-189	(16,254)	-0.001%
JNLBlackRock Global Allocation Fund	Capital One Financial Corporation OPTION			Derivative	146	107,310	0.004%
JNLBlackRock Global Allocation Fund	Capital One Financial Corporation OPTION			Derivative	-146	(39,420)	-0.001%
JNLBlackRock Global Allocation Fund	ConocoPhillips OPTION			Derivative	723	20,822	0.001%
JNLBlackRock Global Allocation Fund	ConocoPhillips OPTION			Derivative	-131	(11,266)	0.000%
JNLBlackRock Global Allocation Fund	ConocoPhillips OPTION			Derivative	-561	(42,075)	-0.001%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation OPTION			Derivative	-15	(690)	0.000%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation OPTION			Derivative	65	143,023	0.005%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation OPTION			Derivative	-14	(588)	0.000%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation OPTION			Derivative	-14	(5,950)	0.000%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation OPTION			Derivative	7	(1,506)	0.000%
JNLBlackRock Global Allocation Fund	Costco Wholesale Corporation OPTION			Derivative	-65	(89,700)	-0.003%
JNLBlackRock Global Allocation Fund	Air Products and Chemicals, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,214,344	(22,712)	-0.001%
JNLBlackRock Global Allocation Fund	Albemarle Corporation CONTRACT FOR DIFFERENCE			Derivative	1,445,175	(103,216)	-0.004%
JNLBlackRock Global Allocation Fund	Apa Corp. CONTRACT FOR DIFFERENCE			Derivative	478,908	17,323	0.001%
JNLBlackRock Global Allocation Fund	Bath & Body Works, Inc. CONTRACT FOR DIFFERENCE			Derivative	410,440	(21,054)	-0.001%
JNLBlackRock Global Allocation Fund	St. James's Place PLC CONTRACT FOR DIFFERENCE			Derivative	559,931	(10,200)	0.000%
JNLBlackRock Global Allocation Fund	Bio-Rad Laboratories, Inc. CONTRACT FOR DIFFERENCE			Derivative	338,080	(8,282)	0.000%
JNLBlackRock Global Allocation Fund	Caleres Corporation CONTRACT FOR DIFFERENCE			Derivative	1,083,278	(68,545)	-0.002%
JNLBlackRock Global Allocation Fund	Charles River Laboratories International, Inc. CONTRACT FOR DIFFERENCE			Derivative	749,911	24,841	0.001%
JNLBlackRock Global Allocation Fund	Former Charter Communications Parent, Inc. CONTRACT FOR DIFFERENCE			Derivative	3,039,297	71,475	0.002%
JNLBlackRock Global Allocation Fund	Combase Global, Inc. CONTRACT FOR DIFFERENCE			Derivative	447,508	(20,552)	-0.001%
JNLBlackRock Global Allocation Fund	BRF S.A. CONTRACT FOR DIFFERENCE			Derivative	83,811	2,580	0.000%
JNLBlackRock Global Allocation Fund	Constellation Brands, Inc. CONTRACT FOR DIFFERENCE			Derivative	735,760	(8,768)	0.000%
JNLBlackRock Global Allocation Fund	Corbiva, Inc. CONTRACT FOR DIFFERENCE			Derivative	211,728	(4,222)	0.000%
JNLBlackRock Global Allocation Fund	EQT Corporation CONTRACT FOR DIFFERENCE			Derivative	1,864,315	(34,788)	-0.001%
JNLBlackRock Global Allocation Fund	Enphase Energy, Inc. CONTRACT FOR DIFFERENCE			Derivative	892,827	31,067	0.001%
JNLBlackRock Global Allocation Fund	WEG S.A. CONTRACT FOR DIFFERENCE			Derivative	550,503	(12,080)	0.000%
JNLBlackRock Global Allocation Fund	PMC Corporation CONTRACT FOR DIFFERENCE			Derivative	673,482	(20,869)	0.000%
JNLBlackRock Global Allocation Fund	PedEx Corporation CONTRACT FOR DIFFERENCE			Derivative	2,102,866	(119,255)	-0.004%
JNLBlackRock Global Allocation Fund	First Solar, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,764,902	744	0.000%
JNLBlackRock Global Allocation Fund	GE HealthCare Technologies Inc. CONTRACT FOR DIFFERENCE			Derivative	3,326,208	(106,108)	-0.004%
JNLBlackRock Global Allocation Fund	The Hershey Company CONTRACT FOR DIFFERENCE			Derivative	1,371,444	24,684	0.001%
JNLBlackRock Global Allocation Fund	Iron Mountain Incorporated CONTRACT FOR DIFFERENCE			Derivative	121,401	(1,038)	0.000%
JNLBlackRock Global Allocation Fund	Solvay CONTRACT FOR DIFFERENCE			Derivative	12,396	(305)	0.000%
JNLBlackRock Global Allocation Fund	Lamb Weston Holdings, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,609,736	5,175	0.000%
JNLBlackRock Global Allocation Fund	U C B CONTRACT FOR DIFFERENCE			Derivative	1,174,690	2,000	0.000%
JNLBlackRock Global Allocation Fund	ThyssenKrupp AG CONTRACT FOR DIFFERENCE			Derivative	642,765	(60,008)	-0.002%
JNLBlackRock Global Allocation Fund	Martin Marietta Materials, Inc. CONTRACT FOR DIFFERENCE			Derivative	308,696	3,987	0.000%
JNLBlackRock Global Allocation Fund	Orlen S.A. CONTRACT FOR DIFFERENCE			Derivative	741,565	(41,235)	-0.001%
JNLBlackRock Global Allocation Fund	Sartorius Aktiengesellschaft CONTRACT FOR DIFFERENCE			Derivative	75,638	(6,578)	0.000%
JNLBlackRock Global Allocation Fund	Telefonaktiebolaget LM Ericsson CONTRACT FOR DIFFERENCE			Derivative	634,323	8,031	0.000%
JNLBlackRock Global Allocation Fund	Teleperformance SE CONTRACT FOR DIFFERENCE			Derivative	484,643	17,602	0.001%
JNLBlackRock Global Allocation Fund	Ashraf Conch Cement Company Limited CONTRACT FOR DIFFERENCE			Derivative	238,975	(68,719)	-0.002%
JNLBlackRock Global Allocation Fund	Rakuten Group, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,661,973	74,511	0.002%
JNLBlackRock Global Allocation Fund	Square Enix Holdings Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	80,828	(3,054)	0.000%
JNLBlackRock Global Allocation Fund	Fomosa Plastics Corporation CONTRACT FOR DIFFERENCE			Derivative	593,510	(63,112)	-0.002%
JNLBlackRock Global Allocation Fund	Fubon Financial Holding Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	438,176	4,286	0.000%
JNLBlackRock Global Allocation Fund	POSCO Future M Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	325,904	(24,504)	-0.001%
JNLBlackRock Global Allocation Fund	Koto Manufacturing Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	576,059	4,181	0.000%
JNLBlackRock Global Allocation Fund	Lasertec Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	9,236	(1,351)	0.000%
JNLBlackRock Global Allocation Fund	Norfolk Southern Corporation CONTRACT FOR DIFFERENCE			Derivative	1,270,351	(12,165)	0.000%
JNLBlackRock Global Allocation Fund	DMG Mori Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	458,046	6,834	0.000%
JNLBlackRock Global Allocation Fund	Nissan Chemical Corporation CONTRACT FOR DIFFERENCE			Derivative	486,686	2,000	0.000%
JNLBlackRock Global Allocation Fund	Nissan Motor Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	265,400	(3,219)	0.000%
JNLBlackRock Global Allocation Fund	Olympus Corporation CONTRACT FOR DIFFERENCE			Derivative	194,098	(7,847)	0.000%
JNLBlackRock Global Allocation Fund	China Resources Power Holdings Company Limited CONTRACT FOR DIFFERENCE			Derivative	833,750	(74,420)	-0.003%
JNLBlackRock Global Allocation Fund	Zijin Mining Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	493,098	2,000	0.000%
JNLBlackRock Global Allocation Fund	SoftBank Group Corp CONTRACT FOR DIFFERENCE			Derivative	133,210	3,032	0.000%
JNLBlackRock Global Allocation Fund	Sanrio Company, Ltd. CONTRACT FOR DIFFERENCE			Derivative	507,169	(14,365)	-0.001%
JNLBlackRock Global Allocation Fund	Sharp Corporation CONTRACT FOR DIFFERENCE			Derivative	58,980	(1,915)	0.000%
JNLBlackRock Global Allocation Fund	Sumitomo Chemical Company Limited CONTRACT FOR DIFFERENCE			Derivative	1,527,023	1,000	0.000%
JNLBlackRock Global Allocation Fund	Suzuki Motor Corporation CONTRACT FOR DIFFERENCE			Derivative	432,542	(5,436)	0.000%
JNLBlackRock Global Allocation Fund	Taisei Corporation CONTRACT FOR DIFFERENCE			Derivative	774,973	(19,070)	-0.001%
JNLBlackRock Global Allocation Fund	Adventist Corporation CONTRACT FOR DIFFERENCE			Derivative	322,883	(14,865)	-0.001%
JNLBlackRock Global Allocation Fund	Tokyo Ohka Kogyo Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	248,854	2,000	0.000%
JNLBlackRock Global Allocation Fund	Paycom Software, Inc. CONTRACT FOR DIFFERENCE			Derivative	216,243	7,699	0.000%
JNLBlackRock Global Allocation Fund	Clariant AG CONTRACT FOR DIFFERENCE			Derivative	157,054	(13,500)	0.000%
JNLBlackRock Global Allocation Fund	Balaise Holding AG CONTRACT FOR DIFFERENCE			Derivative	229,846	(4,074)	0.000%
JNLBlackRock Global Allocation Fund	Revvity, Inc. CONTRACT FOR DIFFERENCE			Derivative	47,241	(2,161)	0.000%
JNLBlackRock Global Allocation Fund	Tenneco AG CONTRACT FOR DIFFERENCE			Derivative	504,823	(12,418)	0.000%
JNLBlackRock Global Allocation Fund	The Swatch Group AG CONTRACT FOR DIFFERENCE			Derivative	774,378	(152,973)	-0.005%
JNLBlackRock Global Allocation Fund	Swiss Life Holding AG CONTRACT FOR DIFFERENCE			Derivative	2,077,364	(4)	0.000%
JNLBlackRock Global Allocation Fund	Ralph Lauren Corporation CONTRACT FOR DIFFERENCE			Derivative	693,751	(31,339)	-0.001%
JNLBlackRock Global Allocation Fund	Telecom Italia S.p.A. CONTRACT FOR DIFFERENCE			Derivative	1,019,263	(32,602)	-0.001%
JNLBlackRock Global Allocation Fund	Solvintum Corporation CONTRACT FOR DIFFERENCE			Derivative	874,677	5,672	0.000%
JNLBlackRock Global Allocation Fund	Southwest Airlines Co. CONTRACT FOR DIFFERENCE			Derivative	1,671,302	(8,148)	0.000%
JNLBlackRock Global Allocation Fund	Starbucks Corporation CONTRACT FOR DIFFERENCE			Derivative	296,202	(6,126)	0.000%
JNLBlackRock Global Allocation Fund	Super Micro Computer, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,295,354	2,000	0.000%
JNLBlackRock Global Allocation Fund	Tapestry, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,778,560	(111,285)	-0.004%
JNLBlackRock Global Allocation Fund	Viatris Inc. CONTRACT FOR DIFFERENCE			Derivative	155,109	(1,772)	0.000%
JNLBlackRock Global Allocation Fund	Walgreens Boots Alliance, Inc. CONTRACT FOR DIFFERENCE			Derivative	2,286,482	(105,153)	-0.004%
JNLBlackRock Global Allocation Fund	Waters Corporation CONTRACT FOR DIFFERENCE			Derivative	175,630	3,257	0.000%
JNLBlackRock Global Allocation Fund	Neste Oy CONTRACT FOR DIFFERENCE			Derivative	252,239	(13,892)	0.000%
JNLBlackRock Global Allocation Fund	Rentokil Initial PLC CONTRACT FOR DIFFERENCE			Derivative	711,002	(13,322)	0.000%
JNLBlackRock Global Allocation Fund	Localiza Rent A Car SA CONTRACT FOR DIFFERENCE			Derivative	33,281	337	0.000%
JNLBlackRock Global Allocation Fund	Alstom CONTRACT FOR DIFFERENCE			Derivative	820,420	(45,120)	-0.002%
JNLBlackRock Global Allocation Fund	Baidu, Inc. CONTRACT FOR DIFFERENCE			Derivative	310,882	(61,524)	-0.002%
JNLBlackRock Global Allocation Fund	Bandai Namco Holdings Inc. CONTRACT FOR DIFFERENCE			Derivative	159,647	1,530	0.000%
JNLBlackRock Global Allocation Fund	SUMCO Corporation CONTRACT FOR DIFFERENCE			Derivative	1,699,867	(62,162)	-0.002%
JNLBlackRock Global Allocation Fund	Kobe Bussan Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	230,534	3,146	0.000%
JNLBlackRock Global Allocation Fund	Metso Oy CONTRACT FOR DIFFERENCE			Derivative	13,084	(1,665)	0.000%
JNLBlackRock Global Allocation Fund	MondataRO Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	30,877	493	0.000%
JNLBlackRock Global Allocation Fund	SalMar ASA CONTRACT FOR DIFFERENCE			Derivative	491,884	(11,711)	0.000%
JNLBlackRock Global Allocation Fund	DaSonn S.p.A. CONTRACT FOR DIFFERENCE			Derivative	652,060	(12,830)	0.000%
JNLBlackRock Global Allocation Fund	Matsukiyocookaa & Co. CONTRACT FOR DIFFERENCE			Derivative	643,318	(27,599)	-0.001%
JNLBlackRock Global Allocation Fund	CRRC Corporation Limited CONTRACT FOR DIFFERENCE			Derivative	273,484	(29,586)	-0.001%
JNLBlackRock Global Allocation Fund	Chelasee Holding Company Limited CONTRACT FOR DIFFERENCE			Derivative	160,372	(21,306)	-0.001%
JNLBlackRock Global Allocation Fund	Enman PLC CONTRACT FOR DIFFERENCE			Derivative	875,976	(24,411)	-0.001%
JNLBlackRock Global Allocation Fund	Agricultural Bank of China Limited CONTRACT FOR DIFFERENCE			Derivative	229,009	4,176	0.000%
JNLBlackRock Global Allocation Fund	Coloplast A/S CONTRACT FOR DIFFERENCE			Derivative	1,247,451	14,965	0.001%
JNLBlackRock Global Allocation Fund	OCI N.V. CONTRACT FOR DIFFERENCE			Derivative	209,486	2,890	0.000%
JNLBlackRock Global Allocation Fund	Postal Savings Bank of China Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	837,650	(65,393)	-0.002%
JNLBlackRock Global Allocation Fund	Mercan, Inc. CONTRACT FOR DIFFERENCE			Derivative	1,297,168	92,342	0.003%
JNLBlackRock Global Allocation Fund	Nexi S.p.A. CONTRACT FOR DIFFERENCE			Derivative	772,505	9,091	0.000%
JNLBlackRock Global Allocation Fund	EQT AB CONTRACT FOR DIFFERENCE			Derivative	555,954	26,045	0.001%
JNLBlackRock Global Allocation Fund	Nippon Express Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	620,479	(29,200)	-0.001%
JNLBlackRock Global Allocation Fund	Sendes Distribution SIA CONTRACT FOR DIFFERENCE			Derivative	115,227	3,257	0.000%
JNLBlackRock Global Allocation Fund	New Oriental Education & Technology Group Inc. CONTRACT FOR DIFFERENCE			Derivative	201,359	(48,680)	-0.002%
JNLBlackRock Global Allocation Fund	NU Holdings Ltd. CONTRACT FOR DIFFERENCE			Derivative	373,845	27,568	0.001%
JNLBlackRock Global Allocation Fund	Worldline CONTRACT FOR DIFFERENCE			Derivative	248,135	(26,244)	-0.001%
JNLBlackRock Global Allocation Fund	LQ Chem, Ltd. CONTRACT FOR DIFFERENCE			Derivative	403,850	(27,754)	-0.001%
JNLBlackRock Global Allocation Fund	Seatrium Limited CONTRACT FOR DIFFERENCE			Derivative	76,903	(3,405)	0.000%
JNLBlackRock Global Allocation Fund	G&L Beier Ref AB CONTRACT FOR DIFFERENCE			Derivative	56,604	(448)	0.000%
JNLBlackRock Global Allocation Fund	DSM-Firmenich AG CONTRACT FOR DIFFERENCE			Derivative	235,822	(11,528)	0.000%
JNLBlackRock Global Allocation Fund	Recruit Holdings Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	1,135,478	3,146	0.000%
JNLBlackRock Global Allocation Fund	Grifols, S.A. CONTRACT FOR DIFFERENCE			Derivative	1,778,774	(122,836)	-0.004%
JNLBlackRock Global Allocation Fund	Chelasee Holding Company Limited CONTRACT FOR DIFFERENCE			Derivative	2,073	1,522	0.000%
JNLBlackRock Global Allocation Fund	Smurfit Westrock Public Limited Company CONTRACT FOR DIFFERENCE			Derivative	948,547	(63,101)	-0.002%
JNLBlackRock Global Allocation Fund	Chervon Corporation OPTION			Derivative	-97	(17,266)	0.000%
JNLBlackRock Global Allocation Fund	Chervon Corporation OPTION			Derivative	-86	(9,890)	0.000%
JNLBlackRock Global Allocation Fund	Delta Air Lines, Inc. OPTION			Derivative	-301	(66,672)	-0.002%
JNLBlackRock Global Allocation Fund	Delta Air Lines, Inc. OPTION			Derivative	-143	(27,599)	-0.001%
JNLBlackRock Global Allocation Fund	Delta Air Lines, Inc. OPTION			Derivative	-70	(8,610)	0.000%
JNLBlackRock Global Allocation Fund	D.R. Horton, Inc. OPTION			Derivative	243	(15,548)	0.000%
JNLBlackRock Global Allocation Fund	D.R. Horton, Inc. OPTION			Derivative	-243	(69,255)	-0.002%
JNLBlackRock Global Allocation Fund	Danaher Corporation OPTION			Derivative	-49	(6,493)	0.000%
JNLBlackRock Global Allocation Fund	Danaher Corporation OPTION			Derivative	-35	(9,275)	0.000%
JNLBlackRock Global Allocation Fund	Danaher Corporation OPTION			Derivative	-18	(10,980)	0.000%
JNLBlackRock Global Allocation Fund	Walt Disney Company, The OPTION			Derivative	322	2,576	0.000%
JNLBlackRock Global Allocation Fund	Walt Disney Company, The OPTION			Derivative	-150	(11,100)	0.000%
JNLBlackRock Global Allocation Fund	Walt Disney Company, The OPTION			Derivative	-68	(15,776)	-0.001%
JNLBlackRock Global Allocation Fund	Walt Disney Company, The OPTION			Derivative	-34	(5,444)	0.000%
JNLBlackRock Global Allocation Fund	Walt Disney Company, The OPTION			Derivative	-322	(9,821)	0.000%
JNLBlackRock Global Allocation Fund	Euro Schatz FUTURE - PHYSICALLY DELIVERED			Derivative	122	73,029	0.003%
JNLBlackRock Global Allocation Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	-113	(146,057)	-0.005%
JNLBlackRock Global Allocation Fund	Edwards Lifesciences Corporation OPTION			Derivative	324	59,800	0.002%
JNLBlackRock Global Allocation Fund	Edwards Lifesciences Corporation OPTION			Derivative	-324	(16,200)	-0.001%
JNLBlackRock Global Allocation Fund	Edwards Lifesciences Corporation OPTION			Derivative	-324	(65,080)	-0.002%
JNLBlackRock Global Allocation Fund	Freeport-McMoran Inc. OPTION			Derivative	-318	(125,610)	-0.004%
JNLBlackRock Global Allocation Fund	Freeport-McMoran Inc. OPTION			Derivative	-247	(36,803)	-0.001%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLBlackRock Global Allocation Fund	Freeport-McMoRan Inc. OPTION			Derivative	-234	(18,252)	-0.001%
JNLBlackRock Global Allocation Fund	Freeport-McMoRan Inc. OPTION			Derivative	1,189	120,486	0.004%
JNLBlackRock Global Allocation Fund	Fifth Third Bancorp. OPTION			Derivative	361	74,005	0.003%
JNLBlackRock Global Allocation Fund	Fifth Third Bancorp. OPTION			Derivative	488	88,328	0.003%
JNLBlackRock Global Allocation Fund	Fifth Third Bancorp. OPTION			Derivative	-361	(14,440)	-0.001%
JNLBlackRock Global Allocation Fund	Fifth Third Bancorp. OPTION			Derivative	-488	(36,600)	-0.001%
JNLBlackRock Global Allocation Fund	United States 5 Year Note FUTURE, Dec. 2024 OPTION			Derivative	22	2,063	0.000%
JNLBlackRock Global Allocation Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	5,366	(1,164,417)	-0.041%
JNLBlackRock Global Allocation Fund	iShares China Large-Cap ETF OPTION			Derivative	1,668	213,504	0.007%
JNLBlackRock Global Allocation Fund	iShares China Large-Cap ETF OPTION			Derivative	-1,668	(75,960)	-0.003%
JNLBlackRock Global Allocation Fund	iShares China Large-Cap ETF OPTION			Derivative	-1,668	(96,744)	-0.003%
JNLBlackRock Global Allocation Fund	Long Gilt FUTURE - PHYSICALLY DELIVERED			Derivative	110	(94,131)	-0.003%
JNLBlackRock Global Allocation Fund	SPDR Gold Shares OPTION			Derivative	608	139,840	0.005%
JNLBlackRock Global Allocation Fund	SPDR Gold Shares OPTION			Derivative	-608	(34,048)	-0.001%
JNLBlackRock Global Allocation Fund	Alphabet Inc. OPTION			Derivative	118	28	0.001%
JNLBlackRock Global Allocation Fund	Alphabet Inc. OPTION			Derivative	-168	(16,968)	-0.001%
JNLBlackRock Global Allocation Fund	Alphabet Inc. OPTION			Derivative	-166	(36,188)	-0.001%
JNLBlackRock Global Allocation Fund	Alphabet Inc. OPTION			Derivative	-84	(24,780)	-0.001%
JNLBlackRock Global Allocation Fund	Alphabet Inc. OPTION			Derivative	387	19,363	0.001%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The OPTION			Derivative	-31	(9,238)	0.000%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The OPTION			Derivative	-32	(5,440)	0.000%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The OPTION			Derivative	-32	(11,120)	0.000%
JNLBlackRock Global Allocation Fund	Goldman Sachs Group, Inc., The OPTION			Derivative	-16	(9,060)	0.000%
JNLBlackRock Global Allocation Fund	Home Depot, Inc., The OPTION			Derivative	54	128,466	0.004%
JNLBlackRock Global Allocation Fund	Home Depot, Inc., The OPTION			Derivative	97	208,550	0.007%
JNLBlackRock Global Allocation Fund	Home Depot, Inc., The OPTION			Derivative	-54	(9,180)	0.000%
JNLBlackRock Global Allocation Fund	Home Depot, Inc., The OPTION			Derivative	-97	(20,807)	-0.001%
JNLBlackRock Global Allocation Fund	Hewlett Packard Enterprise Company OPTION			Derivative	146	7,300	0.000%
JNLBlackRock Global Allocation Fund	Humana Inc. OPTION			Derivative	69	26,910	0.001%
JNLBlackRock Global Allocation Fund	Humana Inc. OPTION			Derivative	-69	(166,980)	-0.006%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ High Yield Corporate Bond ETF OPTION			Derivative	-1,218	(158,548)	-0.006%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ High Yield Corporate Bond ETF OPTION			Derivative	-852	(28,968)	-0.001%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ High Yield Corporate Bond ETF OPTION			Derivative	-1,512	(6,048)	0.000%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ High Yield Corporate Bond ETF OPTION			Derivative	208	1,040	0.000%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ High Yield Corporate Bond ETF OPTION			Derivative	1,870	13,090	0.000%
JNLBlackRock Global Allocation Fund	Italy Government BTP Bond FUTURE - PHYSICALLY DELIVERED			Derivative	41	13,080	0.000%
JNLBlackRock Global Allocation Fund	Informatica Inc. OPTION			Derivative	80	1,120	0.000%
JNLBlackRock Global Allocation Fund	Intel Corporation OPTION			Derivative	127	4,191	0.000%
JNLBlackRock Global Allocation Fund	Intuitive Surgical, Inc. OPTION			Derivative	-28	(7,140)	0.000%
JNLBlackRock Global Allocation Fund	Intuitive Surgical, Inc. OPTION			Derivative	-16	(4,848)	0.000%
JNLBlackRock Global Allocation Fund	iShares Russell 2000 ETF OPTION			Derivative	-68	(884)	0.000%
JNLBlackRock Global Allocation Fund	iShares Russell 2000 ETF OPTION			Derivative	68	7,004	0.000%
JNLBlackRock Global Allocation Fund	Japan 10 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-15	(42,598)	-0.001%
JNLBlackRock Global Allocation Fund	NIFTY 50 Index FUTURE - CASH SETTLED			Derivative	123	(2,876)	-0.000%
JNLBlackRock Global Allocation Fund	AMC Networks, Inc. CONTRACT FOR DIFFERENCE			Derivative	7,315	5,287	0.000%
JNLBlackRock Global Allocation Fund	Eagle Bancorp, Inc. CONTRACT FOR DIFFERENCE			Derivative	5,166	7,570	0.000%
JNLBlackRock Global Allocation Fund	Informatica Inc. CONTRACT FOR DIFFERENCE			Derivative	8,603	(3,359)	0.000%
JNLBlackRock Global Allocation Fund	New York Community Bancorp, Inc. CONTRACT FOR DIFFERENCE			Derivative	91,333	74,848	0.002%
JNLBlackRock Global Allocation Fund	Western Digital Corporation CONTRACT FOR DIFFERENCE			Derivative	4,166	22,862	0.001%
JNLBlackRock Global Allocation Fund	Rasman Information Technology Company CONTRACT FOR DIFFERENCE			Derivative	9,461	24,570	0.001%
JNLBlackRock Global Allocation Fund	Dr. Soliman Abdel Kader Fakeeh Hospital CONTRACT FOR DIFFERENCE			Derivative	10,250	6,620	0.000%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	327	46,434	0.002%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	162	3,388	0.000%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	216	128,520	0.004%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	-80	(4,880)	0.000%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	-80	(9,640)	0.000%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	-41	(8,663)	0.000%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	-405	(20,655)	-0.001%
JNLBlackRock Global Allocation Fund	JPMorgan Chase & Co. OPTION			Derivative	-216	(28,080)	-0.001%
JNLBlackRock Global Allocation Fund	Air Transport Services Group, Inc. CONTRACT FOR DIFFERENCE			Derivative	57,278	(4,338)	0.000%
JNLBlackRock Global Allocation Fund	Albermarle Corporation CONTRACT FOR DIFFERENCE			Derivative	43,204	(9,000)	0.000%
JNLBlackRock Global Allocation Fund	Atlantic Union Bank CONTRACT FOR DIFFERENCE			Derivative	87,116	(28)	0.000%
JNLBlackRock Global Allocation Fund	BXP, Inc. CONTRACT FOR DIFFERENCE			Derivative	27,417	(2,555)	0.000%
JNLBlackRock Global Allocation Fund	Brandywine Realty Trust CONTRACT FOR DIFFERENCE			Derivative	4,081	(3,300)	0.000%
JNLBlackRock Global Allocation Fund	CVB Financial Corp. CONTRACT FOR DIFFERENCE			Derivative	94,921	(4,848)	0.000%
JNLBlackRock Global Allocation Fund	Celanese Corporation CONTRACT FOR DIFFERENCE			Derivative	137,210	(17,389)	-0.001%
JNLBlackRock Global Allocation Fund	Community Financial System, Inc. CONTRACT FOR DIFFERENCE			Derivative	126,713	(3,033)	0.000%
JNLBlackRock Global Allocation Fund	BRF S.A. CONTRACT FOR DIFFERENCE			Derivative	276,470	2,313	0.000%
JNLBlackRock Global Allocation Fund	Power Corporation of Canada CONTRACT FOR DIFFERENCE			Derivative	109,316	(4,038)	0.000%
JNLBlackRock Global Allocation Fund	Enphase Energy, Inc. CONTRACT FOR DIFFERENCE			Derivative	25,657	(2,411)	0.000%
JNLBlackRock Global Allocation Fund	Independent Bank Group, Inc. CONTRACT FOR DIFFERENCE			Derivative	153,159	(4,043)	0.000%
JNLBlackRock Global Allocation Fund	iShares iBoxx \$ Investment Grade Corporate Bond ETF CONTRACT FOR DIFFERENCE			Derivative	3,688,694	(16,293)	-0.001%
JNLBlackRock Global Allocation Fund	Lamb Weston Holdings, Inc. CONTRACT FOR DIFFERENCE			Derivative	91,551	(1,860)	0.000%
JNLBlackRock Global Allocation Fund	Landbridge Company LLC CONTRACT FOR DIFFERENCE			Derivative	337,615	(62,019)	-0.001%
JNLBlackRock Global Allocation Fund	Sartorius Aktiengesellschaft CONTRACT FOR DIFFERENCE			Derivative	114,789	(718)	0.000%
JNLBlackRock Global Allocation Fund	Lynas Rare Earths Limited CONTRACT FOR DIFFERENCE			Derivative	1,842,441	(313,891)	-0.011%
JNLBlackRock Global Allocation Fund	Rakuten Group, Inc. CONTRACT FOR DIFFERENCE			Derivative	665	29	0.000%
JNLBlackRock Global Allocation Fund	SATS Ltd. CONTRACT FOR DIFFERENCE			Derivative	381,818	(3,715)	0.000%
JNLBlackRock Global Allocation Fund	Pro Medics Limited CONTRACT FOR DIFFERENCE			Derivative	944,100	(159,500)	-0.006%
JNLBlackRock Global Allocation Fund	Square Enix Holdings Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	176,551	155	0.000%
JNLBlackRock Global Allocation Fund	POSCO Future M Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	357,325	(9,326)	-0.000%
JNLBlackRock Global Allocation Fund	Olympus Corporation CONTRACT FOR DIFFERENCE			Derivative	277,196	(21,359)	-0.001%
JNLBlackRock Global Allocation Fund	POSCO Holdings Inc. CONTRACT FOR DIFFERENCE			Derivative	244,212	(48,619)	-0.002%
JNLBlackRock Global Allocation Fund	PICC Property and Casualty Company Limited CONTRACT FOR DIFFERENCE			Derivative	994,307	(110,064)	-0.004%
JNLBlackRock Global Allocation Fund	China Resources Power Holdings Company Limited CONTRACT FOR DIFFERENCE			Derivative	4,836	(286)	0.000%
JNLBlackRock Global Allocation Fund	Zim Mining Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	17,732	(1,876)	0.000%
JNLBlackRock Global Allocation Fund	Sharp Corporation CONTRACT FOR DIFFERENCE			Derivative	549,743	(21,182)	-0.001%
JNLBlackRock Global Allocation Fund	Shinko Electric Industries Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	888,962	11,425	0.000%
JNLBlackRock Global Allocation Fund	Tokyo Chika Kogyo Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	5,011	(188)	0.000%
JNLBlackRock Global Allocation Fund	Tecan Group AG CONTRACT FOR DIFFERENCE			Derivative	646,014	(1,000)	0.000%
JNLBlackRock Global Allocation Fund	Balores Holding AG CONTRACT FOR DIFFERENCE			Derivative	54,542	(3,472)	0.000%
JNLBlackRock Global Allocation Fund	Revvity, Inc. CONTRACT FOR DIFFERENCE			Derivative	674,438	(49,115)	-0.002%
JNLBlackRock Global Allocation Fund	Provident Financial Services, Inc. CONTRACT FOR DIFFERENCE			Derivative	142,434	(4,022)	0.000%
JNLBlackRock Global Allocation Fund	Telecom Italia S.p.A. CONTRACT FOR DIFFERENCE			Derivative	473,877	(20,718)	-0.001%
JNLBlackRock Global Allocation Fund	ServiceFirst Bancshares, Inc. CONTRACT FOR DIFFERENCE			Derivative	146,189	(6,568)	0.000%
JNLBlackRock Global Allocation Fund	Simon Property Group, Inc. CONTRACT FOR DIFFERENCE			Derivative	117,885	(6,315)	0.000%
JNLBlackRock Global Allocation Fund	Vanguard Intermediate-Term Corporate Bond ETF CONTRACT FOR DIFFERENCE			Derivative	2,528,912	(9,723)	0.000%
JNLBlackRock Global Allocation Fund	DEXUS Funds Management Limited CONTRACT FOR DIFFERENCE			Derivative	395,215	(12,126)	0.000%
JNLBlackRock Global Allocation Fund	SEK Limited CONTRACT FOR DIFFERENCE			Derivative	913,084	(104,258)	-0.004%
JNLBlackRock Global Allocation Fund	Localiza Rent A Car SA CONTRACT FOR DIFFERENCE			Derivative	1,577,294	(43,152)	-0.002%
JNLBlackRock Global Allocation Fund	InnoLux Corporation CONTRACT FOR DIFFERENCE			Derivative	22,183	(371)	0.000%
JNLBlackRock Global Allocation Fund	Cosun S.A. CONTRACT FOR DIFFERENCE			Derivative	28,211	(9,821)	0.000%
JNLBlackRock Global Allocation Fund	Mineral Resources Limited CONTRACT FOR DIFFERENCE			Derivative	1,576,862	(1,137,000)	-0.040%
JNLBlackRock Global Allocation Fund	Impala Platinum Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	693,620	(279,659)	-0.010%
JNLBlackRock Global Allocation Fund	Metsys Oy CONTRACT FOR DIFFERENCE			Derivative	178,437	(29,221)	-0.001%
JNLBlackRock Global Allocation Fund	Cia De Seguros e Reaseguros de Sao Paulo SABESP CONTRACT FOR DIFFERENCE			Derivative	238,676	(7,714)	0.000%
JNLBlackRock Global Allocation Fund	Ocado Group PLC CONTRACT FOR DIFFERENCE			Derivative	473,602	(78,474)	-0.003%
JNLBlackRock Global Allocation Fund	Treasury Wine Estates Limited CONTRACT FOR DIFFERENCE			Derivative	753,555	(78,846)	-0.003%
JNLBlackRock Global Allocation Fund	Postal Savings Bank of China Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	34,128	(4,838)	0.000%
JNLBlackRock Global Allocation Fund	IDP Education Limited CONTRACT FOR DIFFERENCE			Derivative	175,977	(4,783)	0.000%
JNLBlackRock Global Allocation Fund	Shandong Gold Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	264,774	(69,631)	-0.002%
JNLBlackRock Global Allocation Fund	Mercari, Inc. CONTRACT FOR DIFFERENCE			Derivative	288,239	2,481	0.000%
JNLBlackRock Global Allocation Fund	Natura & Co Holding SA CONTRACT FOR DIFFERENCE			Derivative	209,032	(12,386)	0.000%
JNLBlackRock Global Allocation Fund	Bachem Holding AG CONTRACT FOR DIFFERENCE			Derivative	725,960	51,190	0.002%
JNLBlackRock Global Allocation Fund	iphos S.A. CONTRACT FOR DIFFERENCE			Derivative	592,984	(40,508)	0.000%
JNLBlackRock Global Allocation Fund	G&L Beier Ref AB CONTRACT FOR DIFFERENCE			Derivative	471,107	(6,005)	0.000%
JNLBlackRock Global Allocation Fund	Car Group Limited CONTRACT FOR DIFFERENCE			Derivative	272,377	(16,109)	-0.001%
JNLBlackRock Global Allocation Fund	Sartorius Stedim Biotech CONTRACT FOR DIFFERENCE			Derivative	930,878	(491)	0.000%
JNLBlackRock Global Allocation Fund	Wisot Tech Global Limited CONTRACT FOR DIFFERENCE			Derivative	1,021,757	(104,723)	-0.004%
JNLBlackRock Global Allocation Fund	Delivery Hero SE CONTRACT FOR DIFFERENCE			Derivative	1,535,322	(467,946)	-0.016%
JNLBlackRock Global Allocation Fund	Eli Lilly and Company OPTION			Derivative	-15	(1,395)	0.000%
JNLBlackRock Global Allocation Fund	Eli Lilly and Company OPTION			Derivative	-10	(1,040)	0.000%
JNLBlackRock Global Allocation Fund	Eli Lilly and Company OPTION			Derivative	-15	(12,500)	0.000%
JNLBlackRock Global Allocation Fund	Eli Lilly and Company OPTION			Derivative	-5	(2,725)	0.000%
JNLBlackRock Global Allocation Fund	MasterCard Incorporated OPTION			Derivative	-60	54,300	0.002%
JNLBlackRock Global Allocation Fund	MasterCard Incorporated OPTION			Derivative	-39	(15,600)	-0.001%
JNLBlackRock Global Allocation Fund	MSCI Emerging Markets Index FUTURE - CASH SETTLED			Derivative	45	150,173	0.005%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-24	(4,032)	0.000%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-24	(34,440)	-0.001%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	249	737,040	0.026%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	203	249,115	0.009%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-203	(103,530)	-0.004%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-203	(130,935)	-0.005%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-12	(11,220)	0.000%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-249	(173,055)	-0.006%
JNLBlackRock Global Allocation Fund	Meta Platforms, Inc. OPTION			Derivative	-203	(112,665)	-0.004%
JNLBlackRock Global Allocation Fund	Merck & Co. INC. OPTION			Derivative	484	30,976	0.001%
JNLBlackRock Global Allocation Fund	Microsoft Corporation OPTION			Derivative	121	45,133	0.002%
JNLBlackRock Global Allocation Fund	Microsoft Corporation OPTION			Derivative	-130	(6,110)	0.000%
JNLBlackRock Global Allocation Fund	Microsoft Corporation OPTION			Derivative	-65	(26,573)	0.001%
JNLBlackRock Global Allocation Fund	Microsoft Corporation OPTION			Derivative	-48	(13,440)	0.000%
JNLBlackRock Global Allocation Fund	Micron Technology, Inc. OPTION			Derivative	811	226,269	0.008%
JNLBlackRock Global Allocation Fund	Micron Technology, Inc. OPTION			Derivative	-811	(27,980)	-0.001%
JNLBlackRock Global Allocation Fund	Micron Technology, Inc. OPTION			Derivative	-811	(22,025)	-0.001%
JNLBlackRock Global Allocation Fund	NextEra Energy, Inc. OPTION			Derivative	-167	(22,545)	-0.001%
JNLBlackRock Global Allocation Fund	Nikkei 225 Index FUTURE - CASH SETTLED			Derivative	301	4,193,161	0.147%
JNLBlackRock Global Allocation Fund	ServiceNow, Inc. OPTION			Derivative	-15	(4,125)	0.000%
JNLBlackRock Global Allocation Fund	ServiceNow, Inc. OPTION			Derivative	-10	(600)	0.000%

Fund Name	Investment	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/BlackRock Global Allocation Fund	ServiceNow, Inc. OPTION			Derivative	-10	(12,300)	0.000%
JNL/BlackRock Global Allocation Fund	ServiceNow, Inc. OPTION			Derivative	-5	(5,500)	0.000%
JNL/BlackRock Global Allocation Fund	NASDAQ 100 Stock Index FUTURE - CASH SETTLED			Derivative	-191	(2,173,173)	-0.076%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	323	287,470	0.010%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-323	(117,856)	-0.004%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	323	430,236	0.015%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	646	145,995	0.005%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-646	(8,396)	0.000%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-228	(63,676)	-0.003%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	183	163,785	0.006%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-169	(19,773)	-0.001%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-239	(41,586)	-0.001%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-722	(68,482)	-0.002%
JNL/BlackRock Global Allocation Fund	NVIDIA Corporation OPTION			Derivative	-183	(62,769)	-0.002%
JNL/BlackRock Global Allocation Fund	Euro OAT FUTURE - PHYSICALLY DELIVERED			Derivative	123	90,725	0.003%
JNL/BlackRock Global Allocation Fund	Euro BOBL FUTURE - PHYSICALLY DELIVERED			Derivative	1,321	1,321,301	0.046%
JNL/BlackRock Global Allocation Fund	Oracle Corporation OPTION			Derivative	-111	(15,364)	-0.001%
JNL/BlackRock Global Allocation Fund	Oracle Corporation OPTION			Derivative	241	56,876	0.002%
JNL/BlackRock Global Allocation Fund	Oracle Corporation OPTION			Derivative	-109	(34,008)	-0.001%
JNL/BlackRock Global Allocation Fund	Oracle Corporation OPTION			Derivative	-54	(7,506)	0.000%
JNL/BlackRock Global Allocation Fund	Paramount Global OPTION			Derivative	117	731	0.000%
JNL/BlackRock Global Allocation Fund	Paramount Global OPTION			Derivative	117	734	0.000%
JNL/BlackRock Global Allocation Fund	The Progressive Corporation OPTION			Derivative	-91	(20,475)	-0.001%
JNL/BlackRock Global Allocation Fund	S&P500 60 Index FUTURE - CASH SETTLED			Derivative	6	12,943	0.000%
JNL/BlackRock Global Allocation Fund	Russell 2000 Index FUTURE - CASH SETTLED			Derivative	164	286,990	0.010%
JNL/BlackRock Global Allocation Fund	Euro Bund FUTURE - PHYSICALLY DELIVERED			Derivative	664	848,764	0.030%
JNL/BlackRock Global Allocation Fund	Sabre Corporation OPTION			Derivative	205	260	0.000%
JNL/BlackRock Global Allocation Fund	Sabre Corporation OPTION			Derivative	127	354	0.000%
JNL/BlackRock Global Allocation Fund	Charles Schwab Corporation, The OPTION			Derivative	-219	(15,320)	-0.001%
JNL/BlackRock Global Allocation Fund	Charles Schwab Corporation, The OPTION			Derivative	-139	(4,309)	0.000%
JNL/BlackRock Global Allocation Fund	Charles Schwab Corporation, The OPTION			Derivative	-140	(11,200)	0.000%
JNL/BlackRock Global Allocation Fund	Shell PLC OPTION			Derivative	852	195,960	0.007%
JNL/BlackRock Global Allocation Fund	Shell PLC OPTION			Derivative	-852	(89,440)	-0.002%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	1,086	702,099	0.025%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	1,638	835,380	0.029%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-486	317,358	0.011%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	1	(32)	0.000%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	609	96,831	0.003%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-120	(4,680)	0.000%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	120	24,960	0.001%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-288	(8,792)	0.000%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	288	35,712	0.001%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-1,290	(121,260)	-0.004%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	645	463,433	0.016%
JNL/BlackRock Global Allocation Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-243	(30,020)	-0.001%
JNL/BlackRock Global Allocation Fund	Thermo Fisher Scientific Inc. OPTION			Derivative	-23	(4,738)	0.000%
JNL/BlackRock Global Allocation Fund	Thermo Fisher Scientific Inc. OPTION			Derivative	-13	(9,490)	0.000%
JNL/BlackRock Global Allocation Fund	Thermo Fisher Scientific Inc. OPTION			Derivative	6	(4,620)	0.000%
JNL/BlackRock Global Allocation Fund	Tesla Inc. OPTION			Derivative	324	402,570	0.014%
JNL/BlackRock Global Allocation Fund	Tesla Inc. OPTION			Derivative	-324	(161,352)	-0.006%
JNL/BlackRock Global Allocation Fund	Taiwan Semiconductor Manufacturing Company Limited OPTION			Derivative	121	85,910	0.003%
JNL/BlackRock Global Allocation Fund	Taiwan Semiconductor Manufacturing Company Limited OPTION			Derivative	-121	(16,698)	-0.001%
JNL/BlackRock Global Allocation Fund	Trane Technologies Public Limited Company OPTION			Derivative	-37	(14,490)	-0.001%
JNL/BlackRock Global Allocation Fund	Trane Technologies Public Limited Company OPTION			Derivative	-37	(17,390)	-0.001%
JNL/BlackRock Global Allocation Fund	Trane Technologies Public Limited Company OPTION			Derivative	-18	(3,285)	0.000%
JNL/BlackRock Global Allocation Fund	Trane Technologies Public Limited Company OPTION			Derivative	144	175,680	0.

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/BlackRock Global Natural Resources Fund	Cash			Cash Equivalent	277	277	0.000%
JNL/BlackRock Global Natural Resources Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	6,010,443	6,046,676	0.749%
JNL/BlackRock Global Natural Resources Fund	Shell PLC			Equity	1,935,139	62,878,819	7.789%
JNL/BlackRock Global Natural Resources Fund	Red Lake Madsen Mine Ltd.			Equity	427,500	0	0.000%
JNL/BlackRock Global Natural Resources Fund	Pemian Resources Corporation			Equity	296,994	4,042,088	0.501%
JNL/BlackRock Global Natural Resources Fund	Rio Tinto PLC			Equity	489,324	34,753,479	4.305%
JNL/BlackRock Global Natural Resources Fund	Avery Dennison Corporation			Equity	75,568	16,682,392	2.066%
JNL/BlackRock Global Natural Resources Fund	CRH Public Limited Company			Equity	137,429	12,745,165	1.579%
JNL/BlackRock Global Natural Resources Fund	Canadian Natural Resources Limited			Equity	546,268	18,356,419	2.274%
JNL/BlackRock Global Natural Resources Fund	Teck Resources Limited			Equity	538,482	28,130,300	3.484%
JNL/BlackRock Global Natural Resources Fund	Barrock Gold Corporation			Equity	1,482,358	29,484,101	3.652%
JNL/BlackRock Global Natural Resources Fund	Hess Corporation			Equity	94,600	12,846,680	1.591%
JNL/BlackRock Global Natural Resources Fund	Cameco Corporation			Equity	199,413	9,526,470	1.180%
JNL/BlackRock Global Natural Resources Fund	Freeport-McMoRan Inc.			Equity	477,765	23,850,028	2.954%
JNL/BlackRock Global Natural Resources Fund	First Quantum Minerals Ltd			Equity	434,411	5,922,983	0.734%
JNL/BlackRock Global Natural Resources Fund	Exxon Mobil Corporation			Equity	478,616	56,103,368	6.949%
JNL/BlackRock Global Natural Resources Fund	Packaging Corporation of America			Equity	131,542	28,502,274	3.530%
JNL/BlackRock Global Natural Resources Fund	Nucor Corporation			Equity	47,156	7,114,897	0.881%
JNL/BlackRock Global Natural Resources Fund	Newmont Corporation			Equity	454,879	24,313,261	3.012%
JNL/BlackRock Global Natural Resources Fund	ConocoPhillips			Equity	178,889	18,833,434	2.333%
JNL/BlackRock Global Natural Resources Fund	Chemiere Energy, Inc.			Equity	52,884	9,510,659	1.178%
JNL/BlackRock Global Natural Resources Fund	BHP Group Limited			Equity	800,562	29,169,321	3.613%
JNL/BlackRock Global Natural Resources Fund	Eni S.P.A.			Equity	1,029,689	15,693,929	1.944%
JNL/BlackRock Global Natural Resources Fund	Norsk Hydro ASA			Equity	4,963,014	32,244,397	3.994%
JNL/BlackRock Global Natural Resources Fund	Neste Oyj			Equity	470,220	9,083,221	1.125%
JNL/BlackRock Global Natural Resources Fund	Anglo American PLC			Equity	778,779	25,341,764	3.139%
JNL/BlackRock Global Natural Resources Fund	CF Industries Holdings, Inc.			Equity	112,468	9,649,754	1.195%
JNL/BlackRock Global Natural Resources Fund	TotalEnergies SE			Equity	569,572	37,563,228	4.653%
JNL/BlackRock Global Natural Resources Fund	Glencore PLC			Equity	7,211,981	41,155,039	5.088%
JNL/BlackRock Global Natural Resources Fund	Graphic Packaging Holding Company			Equity	426,437	12,861,874	1.568%
JNL/BlackRock Global Natural Resources Fund	Public Joint Stock Company Polys			Equity	105,983	0	0.000%
JNL/BlackRock Global Natural Resources Fund	Public Joint Stock Company Gazprom			Equity	5,691,612	0	0.000%
JNL/BlackRock Global Natural Resources Fund	Nutrien Ltd.			Equity	690,616	33,563,938	4.157%
JNL/BlackRock Global Natural Resources Fund	Diamondback Energy, Inc.			Equity	37,319	6,433,796	0.797%
JNL/BlackRock Global Natural Resources Fund	Wheaton Precious Metals Corp.			Equity	482,372	29,463,292	3.649%
JNL/BlackRock Global Natural Resources Fund	Vale S.A.			Equity	367,781	4,295,682	0.532%
JNL/BlackRock Global Natural Resources Fund	Steico Holdings Inc.			Equity	108,423	5,347,997	0.662%
JNL/BlackRock Global Natural Resources Fund	Corveia, Inc.			Equity	320,361	18,834,023	2.333%
JNL/BlackRock Global Natural Resources Fund	D.S. Smith Plc			Equity	2,695,714	17,085,734	2.116%
JNL/BlackRock Global Natural Resources Fund	ArceclorMittal			Equity	202,555	5,319,094	0.659%
JNL/BlackRock Global Natural Resources Fund	Bunge Limited			Equity	167,956	16,231,268	2.010%
JNL/BlackRock Global Natural Resources Fund	Mondi PLC			Equity	511,272	9,736,635	1.206%
JNL/BlackRock Global Natural Resources Fund	Saipem S.P.A.			Equity	3,812,277	8,014,761	1.002%
JNL/BlackRock Global Natural Resources Fund	Smurfit Westrock Public Limited Company			Equity	615,041	30,395,326	3.765%
Total Non Derivatives						807,326,834	
Derivatives							
Total Derivatives						0	
Total All Investments						807,326,834	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/BlackRock Large Cap Select Growth Fund	Cash			Cash Equivalent	40	40	0.000%
JNL/BlackRock Large Cap Select Growth Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	3,308,465	3,337,014	0.068%
JNL/BlackRock Large Cap Select Growth Fund	Boston Scientific Corporation			Equity	401,539	33,648,968	0.681%
JNL/BlackRock Large Cap Select Growth Fund	Amazon.com, Inc.			Equity	2,459,032	458,191,433	9.270%
JNL/BlackRock Large Cap Select Growth Fund	Apple Inc.			Equity	1,764,985	411,241,505	8.320%
JNL/BlackRock Large Cap Select Growth Fund	DEXX Laboratories, Inc.			Equity	86,493	48,750,193	0.986%
JNL/BlackRock Large Cap Select Growth Fund	Copart, Inc.			Equity	1,176,966	61,673,018	1.248%
JNL/BlackRock Large Cap Select Growth Fund	CoStar Group, Inc.			Equity	820,567	61,903,574	1.252%
JNL/BlackRock Large Cap Select Growth Fund	NVIDIA Corporation			Equity	5,432,736	659,806,585	13.349%
JNL/BlackRock Large Cap Select Growth Fund	Intuit Inc.			Equity	221,455	137,523,555	2.782%
JNL/BlackRock Large Cap Select Growth Fund	Danaher Corporation			Equity	214,694	59,747,193	1.209%
JNL/BlackRock Large Cap Select Growth Fund	Cadence Design Systems, Inc.			Equity	408,337	110,671,577	2.239%
JNL/BlackRock Large Cap Select Growth Fund	Roper Technologies, Inc.			Equity	98,303	55,256,161	1.118%
JNL/BlackRock Large Cap Select Growth Fund	KLA Corporation			Equity	79,892	61,869,164	1.252%
JNL/BlackRock Large Cap Select Growth Fund	Eli Lilly and Company			Equity	197,170	174,680,790	3.534%
JNL/BlackRock Large Cap Select Growth Fund	Old Dominion Freight Line, Inc.			Equity	158,952	31,574,225	0.639%
JNL/BlackRock Large Cap Select Growth Fund	Microsoft Corporation			Equity	1,103,275	474,739,233	9.605%
JNL/BlackRock Large Cap Select Growth Fund	Align Technology, Inc.			Equity	215,728	54,863,945	1.110%
JNL/BlackRock Large Cap Select Growth Fund	Intuitive Surgical, Inc.			Equity	219,453	107,810,675	2.181%
JNL/BlackRock Large Cap Select Growth Fund	The Sherwin-Williams Company			Equity	196,547	75,016,093	1.518%
JNL/BlackRock Large Cap Select Growth Fund	Synopsys, Inc.			Equity	171,656	86,924,882	1.759%
JNL/BlackRock Large Cap Select Growth Fund	LVMH Moët Hennessy Louis Vuitton			Equity	28,058	21,508,541	0.435%
JNL/BlackRock Large Cap Select Growth Fund	Netflix, Inc.			Equity	191,045	135,502,487	2.741%
JNL/BlackRock Large Cap Select Growth Fund	MasterCard Incorporated			Equity	154,601	76,341,974	1.545%
JNL/BlackRock Large Cap Select Growth Fund	Chipotle Mexican Grill, Inc.			Equity	664,306	38,277,312	0.774%
JNL/BlackRock Large Cap Select Growth Fund	MSCI Inc.			Equity	58,796	34,273,952	0.693%
JNL/BlackRock Large Cap Select Growth Fund	TransDigm Group Incorporated			Equity	72,778	103,863,667	2.101%
JNL/BlackRock Large Cap Select Growth Fund	Visa Inc.			Equity	651,925	179,246,779	3.626%
JNL/BlackRock Large Cap Select Growth Fund	Meta Platforms, Inc.			Equity	517,028	295,967,508	5.988%
JNL/BlackRock Large Cap Select Growth Fund	Ferrari N.V.			Equity	144,408	67,687,645	1.373%
JNL/BlackRock Large Cap Select Growth Fund	Broadcom Inc.			Equity	1,262,981	217,864,223	4.408%
JNL/BlackRock Large Cap Select Growth Fund	ASML Holding N.V.			Equity	176,399	146,984,467	2.974%
JNL/BlackRock Large Cap Select Growth Fund	S&P Global Inc.			Equity	164,435	84,950,410	1.719%
JNL/BlackRock Large Cap Select Growth Fund	Waste Connections, Inc.			Equity	220,596	39,446,977	0.798%
JNL/BlackRock Large Cap Select Growth Fund	Shopify Inc.			Equity	450,288	36,086,080	0.730%
JNL/BlackRock Large Cap Select Growth Fund	Alphabet Inc.			Equity	1,010,427	167,579,318	3.390%
JNL/BlackRock Large Cap Select Growth Fund	Blackstone Inc.			Equity	395,352	60,540,252	1.225%
JNL/BlackRock Large Cap Select Growth Fund	Vertiv Holdings Co			Equity	675,091	67,164,804	1.359%
Total Non Derivatives						4,942,716,219	
Derivatives							
Total Derivatives						0	
Total All Investments						4,942,716,219	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Bond Index Fund	Cash			Cash Equivalent	13,307	13,307	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2050	3.00	Fixed Income	105,283	95,883	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2050	3.50	Fixed Income	452,533	426,251	0.038%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2035	2.00	Fixed Income	388,120	357,592	0.032%
JNL Bond Index Fund	Trinity Health Group, Ltd.	12/1/2045	4.13	Fixed Income	250,000	227,920	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2045	3.50	Fixed Income	54,988	52,330	0.005%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2050	3.00	Fixed Income	38,728	35,517	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2050	2.50	Fixed Income	285,070	248,664	0.022%
JNL Bond Index Fund	Chubb RIA Holdings Inc.	11/3/2045	4.35	Fixed Income	150,000	141,167	0.012%
JNL Bond Index Fund	Mitsubishi UFJ Financial Group Inc	3/1/2026	3.85	Fixed Income	800,000	698,084	0.044%
JNL Bond Index Fund	Bank of America Corporation	10/24/2026	1.20	Fixed Income	300,000	291,109	0.026%
JNL Bond Index Fund	Haliburton Company	11/15/2045	5.00	Fixed Income	120,000	117,166	0.010%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2050	4.00	Fixed Income	46,724	45,376	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2050	3.00	Fixed Income	73,448	75,880	0.006%
JNL Bond Index Fund	Pennsylvania Turnpike Commission	12/1/2045	5.51	Fixed Income	300,000	318,574	0.028%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2028	2.50	Fixed Income	95,990	92,815	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2033	3.00	Fixed Income	48,417	46,787	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2043	3.00	Fixed Income	30,846	28,662	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2046	3.50	Fixed Income	147,379	140,109	0.012%
JNL Bond Index Fund	McDonald's Corporation	12/9/2045	4.88	Fixed Income	165,000	162,330	0.014%
JNL Bond Index Fund	AstraZeneca PLC	11/16/2045	4.38	Fixed Income	85,000	80,918	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2035	2.50	Fixed Income	166,944	157,536	0.014%
JNL Bond Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	50,692,250	50,887,396	4.502%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	10/21/2045	4.75	Fixed Income	230,000	228,683	0.020%
JNL Bond Index Fund	Charter Communications Operating, LLC	10/23/2045	6.48	Fixed Income	210,000	208,528	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2045	3.50	Fixed Income	92,418	87,418	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2050	2.50	Fixed Income	290,173	253,931	0.022%
JNL Bond Index Fund	Bank of America Corporation	10/24/2051	2.83	Fixed Income	200,000	141,487	0.013%
JNL Bond Index Fund	LYB International Finance II, LLC	10/1/2060	3.80	Fixed Income	200,000	149,792	0.013%
JNL Bond Index Fund	Canadian Imperial Bank of Commerce	10/23/2025	0.95	Fixed Income	300,000	290,677	0.026%
JNL Bond Index Fund	Toyota Motor Credit Corporation	10/16/2030	0.80	Fixed Income	300,000	290,175	0.026%
JNL Bond Index Fund	Bank of America Corporation	10/24/2031	1.92	Fixed Income	300,000	261,528	0.023%
JNL Bond Index Fund	Wells Fargo & Company	11/17/2045	4.90	Fixed Income	250,000	239,393	0.021%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2027	0.50	Fixed Income	1,950,000	1,780,104	0.157%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2040	2.38	Fixed Income	800,000	710,314	0.052%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2025	0.25	Fixed Income	260,000	250,156	0.022%
JNL Bond Index Fund	FHLBanks Office of Finance	11/16/2028	3.25	Fixed Income	550,000	549,919	0.049%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2045	3.50	Fixed Income	79,212	75,404	0.007%
JNL Bond Index Fund	Johnson & Johnson	9/1/2060	2.45	Fixed Income	200,000	191,116	0.017%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2040	2.50	Fixed Income	96,123	87,332	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.50	Fixed Income	-50,000	(46,639)	-0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2045	4.00	Fixed Income	45,275	44,435	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2045	3.50	Fixed Income	59,924	58,128	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2045	3.50	Fixed Income	121,770	115,915	0.010%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	3.00	Fixed Income	-25,000	(22,836)	-0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2050	3.00	Fixed Income	169,287	154,066	0.014%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2048	4.50	Fixed Income	19,644	19,178	0.002%
JNL Bond Index Fund	Ford Motor Credit Company LLC	11/13/2030	4.00	Fixed Income	300,000	282,598	0.025%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2048	4.50	Fixed Income	19,038	19,043	0.002%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2050	2.00	Fixed Income	634,883	539,893	0.048%
JNL Bond Index Fund	Verizon Communications Inc.	11/20/2031	1.75	Fixed Income	100,000	111,417	0.010%
JNL Bond Index Fund	Bristol-Myers Squibb Company	11/13/2050	2.55	Fixed Income	85,000	55,124	0.005%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2050	1.63	Fixed Income	3,940,000	2,340,165	0.207%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2034	2.50	Fixed Income	59,168	55,943	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2034	2.50	Fixed Income	55,790	56,531	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/25/2030	1.41	Fixed Income	500,000	432,026	0.038%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2030	0.88	Fixed Income	4,255,000	3,635,467	0.322%
JNL Bond Index Fund	AbbVie Inc.	11/21/2029	3.20	Fixed Income	350,000	338,810	0.030%
JNL Bond Index Fund	AbbVie Inc.	11/21/2039	4.05	Fixed Income	400,000	375,785	0.033%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2040	1.38	Fixed Income	870,000	694,823	0.061%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2050	2.50	Fixed Income	401,654	351,489	0.031%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	2.50	Fixed Income	428,632	375,098	0.033%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.50	Fixed Income	324,380	282,953	0.025%
JNL Bond Index Fund	Treasury, United States Department of	11/30/2027	0.63	Fixed Income	3,400,000	1,945,150	0.173%
JNL Bond Index Fund	Bristol-Myers Squibb Company	11/13/2030	1.45	Fixed Income	90,000	77,596	0.007%
JNL Bond Index Fund	JPMorgan Chase & Co.	11/19/2031	1.76	Fixed Income	85,000	73,592	0.007%
JNL Bond Index Fund	Appalachian Power Company	5/1/2050	3.70	Fixed Income	400,000	308,636	0.027%
JNL Bond Index Fund	Treasury, United States Department of	11/20/2025	0.38	Fixed Income	3,540,000	3,040,116	0.261%
JNL Bond Index Fund	BP Capital Markets America Inc.	6/4/2051	2.94	Fixed Income	85,000	58,712	0.005%
JNL Bond Index Fund	Blue Owl Capital Corporation	7/15/2026	3.40	Fixed Income	400,000	390,043	0.035%
JNL Bond Index Fund	The Philippines, Government of	6/10/2031	1.65	Fixed Income	300,000	254,832	0.023%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2041	3.00	Fixed Income	284,016	260,016	0.023%
JNL Bond Index Fund	FS KKR Capital Corp.	11/15/2026	3.40	Fixed Income	400,000	393,043	0.035%
JNL Bond Index Fund	International Bank for Reconstruction and Development	10/28/2025	0.50	Fixed Income	500,000	483,468	0.043%
JNL Bond Index Fund	Novartis Capital Corporation	2/14/2027	2.00	Fixed Income	400,000	384,943	0.034%
JNL Bond Index Fund	Equinor ASA	4/8/2030	3.15	Fixed Income	300,000	289,296	0.026%
JNL Bond Index Fund	Carrier Global Corporation	4/5/2050	3.58	Fixed Income	104,000	83,847	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2035	3.00	Fixed Income	22,566	21,808	0.002%
JNL Bond Index Fund	Nasdaq, Inc.	12/21/2040	2.50	Fixed Income	100,000	71,874	0.006%
JNL Bond Index Fund	Carrier Global Corporation	2/15/2036	2.72	Fixed Income	125,000	115,075	0.010%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2050	3.00	Fixed Income	250,000	227,669	0.020%
JNL Bond Index Fund	RTX Corporation	12/15/2043	4.80	Fixed Income	25,000	24,172	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2035	1.50	Fixed Income	438,003	393,753	0.035%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2034	3.50	Fixed Income	26,113	25,714	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2035	3.50	Fixed Income	87,707	80,642	0.007%
JNL Bond Index Fund	Transcontinental Gas Pipe Line Company, LLC	5/15/2030	3.25	Fixed Income	250,000	236,852	0.021%
JNL Bond Index Fund	Massachusetts Institute of Technology	7/1/2111	5.60	Fixed Income	100,000	113,733	0.010%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2050	3.50	Fixed Income	38,507	36,516	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2045	3.50	Fixed Income	33,181	31,352	0.003%
JNL Bond Index Fund	American Tower Corporation	1/31/2028	1.50	Fixed Income	500,000	456,833	0.040%
JNL Bond Index Fund	Charles Schwab Corporation, The	3/11/2031	1.65	Fixed Income	300,000	254,691	0.023%
JNL Bond Index Fund	Nasdaq, Inc.	1/15/2031	1.65	Fixed Income	300,000	255,985	0.023%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2025	0.38	Fixed Income	4,015,000	3,849,000	0.341%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2027	0.63	Fixed Income	1,725,000	1,573,014	0.139%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2048	3.50	Fixed Income	186,672	177,548	0.016%
JNL Bond Index Fund	Broadcom Inc.	2/15/2051	3.75	Fixed Income	300,000	240,214	0.021%
JNL Bond Index Fund	John Deere Capital Corporation	1/15/2026	0.70	Fixed Income	300,000	298,290	0.026%
JNL Bond Index Fund	Broadcom Inc.	2/15/2041	3.50	Fixed Income	300,000	248,328	0.022%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2041	1.50	Fixed Income	125,599	106,821	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2040	2.50	Fixed Income	117,994	107,202	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2047	3.00	Fixed Income	180,265	165,495	0.015%
JNL Bond Index Fund	General Motors Financial Company, Inc.	1/8/2026	1.25	Fixed Income	200,000	192,551	0.017%
JNL Bond Index Fund	General Motors Financial Company, Inc.	1/8/2031	2.35	Fixed Income	400,000	344,734	0.030%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	725,303	604,838	0.054%
JNL Bond Index Fund	Toyota Motor Credit Corporation	1/8/2026	0.80	Fixed Income	300,000	288,417	0.026%
JNL Bond Index Fund	Toyota Motor Credit Corporation	11/10/2031	1.65	Fixed Income	100,000	86,258	0.008%
JNL Bond Index Fund	Atlanta, City of	11/1/2035	2.26	Fixed Income	40,000	338,308	0.030%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.50	Fixed Income	215,549	188,763	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2049	5.00	Fixed Income	30,432	31,001	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.00	Fixed Income	-875,000	(785,859)	-0.070%
JNL Bond Index Fund	Deutsche Bank Aktiengesellschaft	1/14/2032	3.73	Fixed Income	400,000	360,731	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2032	2.50	Fixed Income	43,816	42,380	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.00	Fixed Income	436,908	384,069	0.032%
JNL Bond Index Fund	Government National Mortgage Association	3/31/2045	3.38	Fixed Income	337,405	298,713	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2050	2.00	Fixed Income	704,103	586,718	0.052%
JNL Bond Index Fund	Bank of Montreal	1/22/2027	0.95	Fixed Income	600,000	574,289	0.051%
JNL Bond Index Fund	Kraft Heinz Foods Company	5/15/2027	3.88	Fixed Income	200,000	201,568	0.018%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2051	2.50	Fixed Income	469,129	415,011	0.037%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	693,038	577,498	0.051%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2050	1.50	Fixed Income	368,948	292,344	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2051	2.00	Fixed Income	654,774	545,614	0.048%
JNL Bond Index Fund	RTX	12/2/2026	0.63	Fixed Income	300,000	287,962	0.025%
JNL Bond Index Fund	Ontario, Government of	12/1/2026	2.00	Fixed Income	300,000	287,682	0.025%
JNL Bond Index Fund	European Investment Bank	3/26/2026	0.38	Fixed Income	300,000	285,161	0.025%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2028	0.75	Fixed Income	2,415,000	2,205,230	0.195%
JNL Bond Index Fund	Inter-American Development Bank	11/3/2031	1.13	Fixed Income	300,000	257,191	0.023%
JNL Bond Index Fund	John Deere Capital Corporation	11/15/2031	1.45	Fixed Income	200,000	171,532	0.015%
JNL Bond Index Fund	Home Depot, Inc., The	3/15/2031	1.38	Fixed Income	300,000	252,804	0.022%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	654,378	545,693	0.048%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	385,518	306,498	0.027%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2025	0.38	Fixed Income	3,870,000	3,700,109	0.327%
JNL Bond Index Fund	Apple Inc.	2/8/2061	2.80	Fixed Income	240,000	161,956	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	2.00	Fixed Income	310,801	272,778	0.024%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2041	1.50	Fixed Income	146,305	124,432	0.011%
JNL Bond Index Fund	Bank 2017-BNKR	10/15/2027	3.23	Fixed Income	136,648	132,215	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/25/2029	2.44	Fixed Income	500,000	456,339	0.041%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2036	1.50	Fixed Income	665,281	597,030	0.053%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2051					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	701,549	588,537	0.052%
JNL Bond Index Fund	Electronic Arts Inc.	2/15/2051	2.35	Fixed Income	800,000	800,000	0.048%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2031	1.13	Fixed Income	1,525,000	1,313,453	0.116%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.50	Fixed Income	528,413	460,930	0.041%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2050	2.50	Fixed Income	309,201	270,776	0.024%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2049	3.00	Fixed Income	196,339	180,631	0.016%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2051	2.50	Fixed Income	777,323	677,323	0.060%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2031	2.50	Fixed Income	159,638	153,681	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2035	1.50	Fixed Income	296,364	266,423	0.024%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2041	1.88	Fixed Income	1,720,000	1,265,994	0.112%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2042	3.50	Fixed Income	100,452	96,178	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2045	3.00	Fixed Income	156,941	144,547	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	2.50	Fixed Income	259,286	227,874	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2050	2.50	Fixed Income	517,389	452,445	0.040%
JNL Bond Index Fund	Apple Inc.	2/8/2026	0.70	Fixed Income	255,000	244,828	0.022%
JNL Bond Index Fund	International Bank for Reconstruction and Development	2/10/2031	1.25	Fixed Income	195,000	166,584	0.015%
JNL Bond Index Fund	Apple Inc.	2/8/2031	1.65	Fixed Income	195,000	170,615	0.015%
JNL Bond Index Fund	Sabine Pass Liquefaction, LLC	5/15/2030	4.50	Fixed Income	250,000	253,541	0.022%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/18/2026	0.88	Fixed Income	225,000	212,001	0.019%
JNL Bond Index Fund	Treasury, United States Department of	2/28/2026	0.50	Fixed Income	3,795,000	3,625,850	0.321%
JNL Bond Index Fund	Treasury, United States Department of	2/29/2028	1.13	Fixed Income	2,590,000	2,389,747	0.211%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2049	3.50	Fixed Income	324,880	307,738	0.027%
JNL Bond Index Fund	NewsMarket Corporation	3/18/2031	2.70	Fixed Income	400,000	351,993	0.031%
JNL Bond Index Fund	Starbucks Corporation	11/15/2048	4.50	Fixed Income	200,000	183,628	0.016%
JNL Bond Index Fund	AstraZeneca PLC	8/1/2048	4.38	Fixed Income	45,000	42,157	0.004%
JNL Bond Index Fund	Starbucks Corporation	11/15/2028	4.00	Fixed Income	200,000	202,768	0.018%
JNL Bond Index Fund	Walmart Inc.	6/26/2028	3.70	Fixed Income	185,000	186,262	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2036	1.50	Fixed Income	496,939	445,182	0.039%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/25/2031	2.07	Fixed Income	400,000	357,512	0.032%
JNL Bond Index Fund	Verizon Communications Inc.	3/22/2061	3.70	Fixed Income	405,000	306,961	0.027%
JNL Bond Index Fund	Verizon Communications Inc.	3/22/2041	3.40	Fixed Income	215,000	175,760	0.016%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2040	3.00	Fixed Income	142,920	131,233	0.012%
JNL Bond Index Fund	Microsoft Corporation	3/1/2052	2.92	Fixed Income	210,000	153,994	0.014%
JNL Bond Index Fund	Microsoft Corporation	3/1/2062	3.04	Fixed Income	220,000	158,667	0.014%
JNL Bond Index Fund	Oracle Corporation	3/25/2031	2.88	Fixed Income	230,000	209,106	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2048	3.58	Fixed Income	87,542	87,671	0.008%
JNL Bond Index Fund	Ginnie Mae II	3/20/2051	2.00	Fixed Income	611,819	519,898	0.046%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2026	0.75	Fixed Income	2,060,000	1,970,239	0.174%
JNL Bond Index Fund	American Tower Corporation	4/15/2026	1.60	Fixed Income	300,000	289,785	0.026%
JNL Bond Index Fund	Treasury, United States Department of	3/4/2027	1.25	Fixed Income	445,000	411,223	0.036%
JNL Bond Index Fund	American Tower Corporation	4/15/2031	2.70	Fixed Income	375,000	339,558	0.030%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2032	3.00	Fixed Income	110,673	108,159	0.010%
JNL Bond Index Fund	Bank of America Corporation	3/13/2052	3.48	Fixed Income	55,000	43,309	0.004%
JNL Bond Index Fund	Elevance Health, Inc.	3/15/2051	3.58	Fixed Income	70,000	70,000	0.005%
JNL Bond Index Fund	Oracle Corporation	3/25/2061	4.10	Fixed Income	235,000	184,951	0.016%
JNL Bond Index Fund	Broadcom Inc.	4/15/2034	3.47	Fixed Income	255,000	233,685	0.021%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2041	2.00	Fixed Income	318,767	277,420	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2041	1.50	Fixed Income	346,463	294,663	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2051	2.00	Fixed Income	678,495	567,519	0.050%
JNL Bond Index Fund	General Motors Financial Company, Inc.	4/10/2028	2.40	Fixed Income	300,000	281,315	0.025%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	8/14/2041	4.28	Fixed Income	500,000	412,989	0.037%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	4.00	Fixed Income	1,175,000	1,136,262	0.101%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	4.50	Fixed Income	2,225,000	2,196,653	0.194%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.00	Fixed Income	707,192	588,408	0.052%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	697,650	580,470	0.051%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2051	2.00	Fixed Income	655,992	549,955	0.048%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2051	2.00	Fixed Income	690,298	575,215	0.051%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/22/2032	2.58	Fixed Income	200,000	180,492	0.016%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	4/22/2032	2.62	Fixed Income	205,000	183,828	0.016%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/22/2052	3.33	Fixed Income	195,000	153,411	0.014%
JNL Bond Index Fund	Benchmark 2021-855 Mortgage Trust	4/1/2031	2.58	Fixed Income	300,000	257,080	0.023%
JNL Bond Index Fund	Bank of America Corporation	4/22/2032	2.69	Fixed Income	255,000	230,624	0.020%
JNL Bond Index Fund	Bank of America Corporation	4/22/2042	3.31	Fixed Income	195,000	161,340	0.014%
JNL Bond Index Fund	Ginnie Mae II	4/20/2051	2.00	Fixed Income	386,727	328,383	0.029%
JNL Bond Index Fund	Morgan Stanley	5/4/2027	1.59	Fixed Income	195,000	187,919	0.017%
JNL Bond Index Fund	Morgan Stanley	4/22/2042	3.22	Fixed Income	110,000	90,244	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2036	2.00	Fixed Income	549,935	505,476	0.045%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	5.50	Fixed Income	5,900,000	5,968,910	0.529%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2054	2.00	Fixed Income	288,726	254,626	0.023%
JNL Bond Index Fund	Asian Development Bank	4/14/2026	1.00	Fixed Income	300,000	288,857	0.026%
JNL Bond Index Fund	International Bank for Reconstruction and Development	4/20/2028	1.38	Fixed Income	300,000	279,476	0.025%
JNL Bond Index Fund	Public Storage, Inc.	5/1/2028	1.85	Fixed Income	300,000	280,017	0.025%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2028	1.25	Fixed Income	360,000	349,871	0.031%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	4/22/2042	3.21	Fixed Income	125,000	101,114	0.009%
JNL Bond Index Fund	Coca-Cola Company, The	3/5/2051	3.00	Fixed Income	300,000	220,865	0.020%
JNL Bond Index Fund	Coca-Cola Company, The	1/5/2032	2.25	Fixed Income	350,000	313,169	0.028%
JNL Bond Index Fund	Omnicom Group Inc.	8/1/2031	2.60	Fixed Income	375,000	334,161	0.030%
JNL Bond Index Fund	Equinix, Inc.	2/15/2052	3.40	Fixed Income	300,000	219,799	0.019%
JNL Bond Index Fund	Equinix, Inc.	5/15/2026	1.45	Fixed Income	300,000	288,398	0.026%
JNL Bond Index Fund	eBay Inc.	5/10/2026	1.40	Fixed Income	300,000	288,497	0.026%
JNL Bond Index Fund	Norfolk Southern Corporation	5/15/2031	2.30	Fixed Income	300,000	269,330	0.024%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/25/2030	1.78	Fixed Income	319,723	283,611	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2051	1.50	Fixed Income	697,956	556,531	0.049%
JNL Bond Index Fund	Morgan Stanley Capital I Trust 2018-H4	10/1/2028	4.04	Fixed Income	278,750	274,640	0.024%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2051	2.38	Fixed Income	2,125,000	1,518,516	0.134%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.00	Fixed Income	411,714	342,100	0.030%
JNL Bond Index Fund	Amazon.com, Inc.	5/12/2028	1.65	Fixed Income	400,000	372,654	0.033%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	2.50	Fixed Income	-4,025,000	(3,475,808)	-0.307%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.00	Fixed Income	377,730	317,354	0.028%
JNL Bond Index Fund	Treasury, United States Department of	5/1/2051	1.63	Fixed Income	2,540,000	2,258,138	0.200%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2033	3.00	Fixed Income	19,540	18,895	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2040	4.00	Fixed Income	169,785	167,663	0.015%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2043	3.00	Fixed Income	218,816	203,418	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2044	4.00	Fixed Income	124,726	122,731	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2046	4.00	Fixed Income	47,026	46,125	0.004%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2041	2.25	Fixed Income	1,300,000	1,018,548	0.090%
JNL Bond Index Fund	Athene Holding Ltd	5/25/2051	3.95	Fixed Income	300,000	234,740	0.021%
JNL Bond Index Fund	Prospect Capital Corporation	11/15/2026	3.26	Fixed Income	560,000	471,245	0.042%
JNL Bond Index Fund	T-Mobile USA, Inc.	11/15/2060	3.60	Fixed Income	100,000	74,187	0.007%
JNL Bond Index Fund	T-Mobile USA, Inc.	2/15/2028	2.05	Fixed Income	900,000	840,066	0.074%
JNL Bond Index Fund	T-Mobile USA, Inc.	4/15/2030	3.88	Fixed Income	435,000	430,960	0.038%
JNL Bond Index Fund	T-Mobile USA, Inc.	2/15/2031	2.65	Fixed Income	400,000	357,626	0.032%
JNL Bond Index Fund	T-Mobile USA, Inc.	4/15/2050	4.50	Fixed Income	160,000	145,378	0.013%
JNL Bond Index Fund	eBay Inc.	5/10/2051	3.65	Fixed Income	15,000	11,762	0.001%
JNL Bond Index Fund	Arthur J. Gallagher & Co.	5/20/2051	3.50	Fixed Income	45,000	33,720	0.003%
JNL Bond Index Fund	Amazon.com, Inc.	5/12/2061	3.25	Fixed Income	240,000	177,602	0.016%
JNL Bond Index Fund	Charter Communications Operating, LLC	12/1/2061	4.40	Fixed Income	75,000	51,968	0.005%
JNL Bond Index Fund	UnitedHealth Group Incorporated	5/15/2031	2.30	Fixed Income	80,000	71,685	0.006%
JNL Bond Index Fund	UnitedHealth Group Incorporated	5/15/2041	3.05	Fixed Income	80,000	64,098	0.006%
JNL Bond Index Fund	Treasury, United States Department of	5/31/2028	1.25	Fixed Income	800,000	632,062	0.057%
JNL Bond Index Fund	Treasury, United States Department of	5/31/2026	0.75	Fixed Income	2,515,000	2,400,877	0.212%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2040	2.00	Fixed Income	321,877	282,498	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2041	1.50	Fixed Income	300,734	255,774	0.023%
JNL Bond Index Fund	Alabama Power Company	7/15/2051	3.13	Fixed Income	200,000	144,153	0.013%
JNL Bond Index Fund	Santander UK Group Holdings PLC	6/14/2027	1.67	Fixed Income	560,000	477,663	0.042%
JNL Bond Index Fund	General Motors Financial Company, Inc.	6/10/2031	2.70	Fixed Income	400,000	347,791	0.031%
JNL Bond Index Fund	Baltimore Gas and Electric Company	6/15/2031	2.25	Fixed Income	300,000	265,405	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2048	4.00	Fixed Income	47,432	46,271	0.004%
JNL Bond Index Fund	NVIDIA Corporation	6/15/2028	1.55	Fixed Income	300,000	278,093	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2026	3.00	Fixed Income	43,885	43,362	0.004%
JNL Bond Index Fund	Ginnie Mae II	6/20/2051	2.00	Fixed Income	663,817	564,084	0.050%
JNL Bond Index Fund	Ginnie Mae II	6/20/2051	2.50	Fixed Income	602,003	531,993	0.047%
JNL Bond Index Fund	Dell International L.L.C.	7/15/2030	6.26	Fixed Income	260,000	275,327	0.024%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/27/2026	0.80	Fixed Income	200,000	188,982	0.017%
JNL Bond Index Fund	Citizens Financial Group, Inc.	9/30/2032	2.64	Fixed Income	300,000	248,277	0.022%
JNL Bond Index Fund	Centene Corporation	7/15/2028	2.45	Fixed Income	365,000	338,196	0.030%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2028	1.25	Fixed Income	215,000	218,620	0.019%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2026	0.88	Fixed Income	4,090,000	3,905,408	0.345%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	9/10/2027	1.54	Fixed Income	150,000	142,305	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2041	2.00	Fixed Income	575,504	502,939	0.044%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2041	1.50	Fixed Income	155,693	131,882	0.012%
JNL Bond Index Fund	Dell International L.L.C.	6/15/2036	6.02	Fixed Income	303,000	315,625	0.028%
JNL Bond Index Fund	Dell International L.L.C.	7/15/2036	8.10	Fixed Income	79,000	100,032	0.009%
JNL Bond Index Fund	Dell International L.L.C.	7/15/2046	8.35	Fixed Income	13,000	17,795	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2050	3.50	Fixed Income	247,576	233,552	0.021%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	7/21/2032	2.38	Fixed Income	200,000	174,412	0.015%
JNL Bond Index Fund	Morgan Stanley	7/20/2027	1.51	Fixed Income	200,000	190,754	0.017%
JNL Bond Index Fund	Morgan Stanley	7/21/2032	2.24	Fixed Income	200,000	173,288	0.015%
JNL Bond Index Fund	Bank of America Corporation	7/21/2032	2.30	Fixed Income	200,000	174,130	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2036	2.26	Fixed Income	669,026		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Treasury, United States Department of	7/31/2026	0.63	Fixed Income	1,500,000	1,420,954	0.126%
JNL Bond Index Fund	Horwell International Inc.	9/1/2027	1.10	Fixed Income	300,000	281,378	0.025%
JNL Bond Index Fund	COPT Defense Properties	1/15/2029	2.00	Fixed Income	450,000	401,655	0.036%
JNL Bond Index Fund	Horwell International Inc.	9/1/2031	1.75	Fixed Income	250,000	215,026	0.019%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2041	2.00	Fixed Income	189,771	162,696	0.014%
JNL Bond Index Fund	Ginnie Mae II	8/20/2051	2.00	Fixed Income	419,538	356,506	0.032%
JNL Bond Index Fund	Redford Industrial Realty, L.P.	9/1/2031	2.15	Fixed Income	500,000	422,401	0.037%
JNL Bond Index Fund	Westlake Corporation	8/15/2061	3.38	Fixed Income	200,000	132,768	0.012%
JNL Bond Index Fund	Mid-America Apartments, L.P.	9/15/2026	1.10	Fixed Income	350,000	330,255	0.029%
JNL Bond Index Fund	Tanger Properties Limited Partnership	9/1/2031	2.75	Fixed Income	200,000	172,415	0.015%
JNL Bond Index Fund	HSBC Holdings PLC	9/1/2029	2.21	Fixed Income	400,000	391,057	0.032%
JNL Bond Index Fund	Moody's Corporation	8/19/2031	2.00	Fixed Income	400,000	346,109	0.031%
JNL Bond Index Fund	Intel Corporation	8/12/2041	2.80	Fixed Income	300,000	210,161	0.019%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2051	2.00	Fixed Income	2,195,000	1,419,324	0.126%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2031	1.25	Fixed Income	5,965,000	5,103,010	0.451%
JNL Bond Index Fund	Norfolk Southern Corporation	8/25/2051	2.90	Fixed Income	250,000	169,494	0.015%
JNL Bond Index Fund	Ginnie Mae II	8/20/2051	2.50	Fixed Income	913,884	807,033	0.071%
JNL Bond Index Fund	Howmet Aerospace Inc.	1/15/2029	3.00	Fixed Income	300,000	285,898	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2048	3.50	Fixed Income	57,288	54,212	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2048	3.00	Fixed Income	58,675	53,748	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2048	3.50	Fixed Income	6,505	6,150	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2043	3.00	Fixed Income	77,287	71,915	0.006%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	5.00	Fixed Income	3,500,000	3,509,454	0.310%
JNL Bond Index Fund	Angen Inc.	1/15/2052	3.00	Fixed Income	200,000	142,824	0.013%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2028	1.13	Fixed Income	4,280,000	3,902,267	0.345%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2026	0.75	Fixed Income	2,140,000	2,027,018	0.179%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2041	1.75	Fixed Income	1,240,000	981,621	0.088%
JNL Bond Index Fund	AT&T Inc.	9/15/2059	3.65	Fixed Income	206,000	149,705	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2041	2.50	Fixed Income	242,061	218,788	0.019%
JNL Bond Index Fund	Southern Company Gas Capital Corporation	9/30/2051	3.15	Fixed Income	200,000	137,661	0.012%
JNL Bond Index Fund	PECO Energy Company	9/15/2051	2.85	Fixed Income	250,000	188,518	0.016%
JNL Bond Index Fund	OXC Technology Company	9/20/2051	3.38	Fixed Income	300,000	271,458	0.024%
JNL Bond Index Fund	AT&T Inc.	12/1/2033	2.55	Fixed Income	751,000	639,917	0.057%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2049	4.00	Fixed Income	260,593	254,296	0.022%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2048	3.50	Fixed Income	504,012	477,417	0.042%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.85	Fixed Income	683,741	592,528	0.052%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	3.00	Fixed Income	-750,000	(684,448)	-0.061%
JNL Bond Index Fund	CD 2017-CD5 Mortgage Trust	7/16/2027	3.68	Fixed Income	300,000	281,160	0.025%
JNL Bond Index Fund	Ginnie Mae II	7/20/2051	2.00	Fixed Income	869,527	569,892	0.050%
JNL Bond Index Fund	Ginnie Mae II	9/20/2051	2.50	Fixed Income	789,933	697,574	0.063%
JNL Bond Index Fund	Bank of Nova Scotia, The	9/15/2026	1.30	Fixed Income	200,000	189,578	0.017%
JNL Bond Index Fund	Lowe's Companies, Inc.	9/15/2028	1.70	Fixed Income	300,000	273,523	0.024%
JNL Bond Index Fund	Lowe's Companies, Inc.	9/15/2041	2.80	Fixed Income	300,000	220,713	0.020%
JNL Bond Index Fund	Ginnie Mae II	8/20/2051	2.00	Fixed Income	683,268	553,111	0.049%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.00	Fixed Income	414,285	344,182	0.030%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2051	1.50	Fixed Income	685,788	542,971	0.048%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	415,260	344,992	0.031%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	420,244	346,181	0.030%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2051	2.00	Fixed Income	443,964	370,642	0.033%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.50	Fixed Income	401,570	349,909	0.031%
JNL Bond Index Fund	Ginnie Mae II	10/20/2051	2.50	Fixed Income	650,160	574,143	0.051%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2028	1.25	Fixed Income	4,180,000	3,819,419	0.338%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2026	0.88	Fixed Income	3,475,000	3,291,560	0.291%
JNL Bond Index Fund	Union Pacific Corporation	4/6/2071	3.80	Fixed Income	50,000	39,352	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2041	2.00	Fixed Income	223,414	195,244	0.017%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2041	2.50	Fixed Income	147,993	133,674	0.012%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2048	3.50	Fixed Income	13,918	13,429	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.00	Fixed Income	-100,000	(89,906)	-0.008%
JNL Bond Index Fund	AbbVie Inc.	11/1/2048	4.88	Fixed Income	100,000	100,288	0.009%
JNL Bond Index Fund	AbbVie Inc.	11/1/2028	4.25	Fixed Income	100,000	102,801	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2049	4.00	Fixed Income	288,877	292,228	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	686,334	569,553	0.050%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	1.50	Fixed Income	-78,000	(59,298)	-0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.50	Fixed Income	422,148	367,312	0.032%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.50	Fixed Income	452,167	376,784	0.033%
JNL Bond Index Fund	Morgan Stanley	10/20/2032	2.51	Fixed Income	130,000	114,951	0.010%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2036	2.00	Fixed Income	777,006	712,490	0.063%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.50	Fixed Income	634,112	550,356	0.049%
JNL Bond Index Fund	Bank of America Corporation	10/20/2032	2.57	Fixed Income	300,000	266,102	0.024%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	10/21/2027	1.95	Fixed Income	170,000	163,529	0.014%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	10/21/2032	2.65	Fixed Income	160,000	142,562	0.013%
JNL Bond Index Fund	PeapackCo, Inc.	10/21/2051	2.75	Fixed Income	50,000	34,974	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2051	2.00	Fixed Income	417,179	346,587	0.030%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2026	1.13	Fixed Income	2,250,000	2,147,741	0.190%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2048	5.00	Fixed Income	18,685	19,195	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2026	3.50	Fixed Income	9,854	9,784	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2033	3.50	Fixed Income	14,422	14,422	0.001%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	5.50	Fixed Income	2,750,000	2,776,635	0.246%
JNL Bond Index Fund	Viatrix Inc.	6/22/2050	4.00	Fixed Income	110,000	80,412	0.007%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2028	1.38	Fixed Income	1,500,000	1,383,944	0.122%
JNL Bond Index Fund	Viatrix Inc.	6/22/2030	3.70	Fixed Income	90,000	80,570	0.007%
JNL Bond Index Fund	Viatrix Inc.	6/22/2040	3.85	Fixed Income	80,000	63,271	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2041	1.50	Fixed Income	240,010	203,302	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2041	2.00	Fixed Income	159,433	139,131	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.00	Fixed Income	613,377	511,118	0.045%
JNL Bond Index Fund	Nucor Corporation	11/20/2055	2.98	Fixed Income	200,000	153,419	0.014%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2051	1.50	Fixed Income	424,814	336,213	0.030%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2031	1.38	Fixed Income	5,755,000	4,957,608	0.439%
JNL Bond Index Fund	Westpac Banking Corporation	11/18/2036	3.02	Fixed Income	85,000	74,832	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	701,855	570,525	0.050%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2051	1.88	Fixed Income	3,105,000	1,955,823	0.173%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2048	3.50	Fixed Income	300,565	284,142	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2046	3.50	Fixed Income	303,361	287,657	0.025%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2047	3.50	Fixed Income	315,726	299,202	0.026%
JNL Bond Index Fund	Barclays PLC	11/24/2032	2.89	Fixed Income	200,000	177,366	0.016%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2046	3.50	Fixed Income	377,813	358,586	0.032%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2047	4.00	Fixed Income	300,968	294,729	0.026%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.50	Fixed Income	517,412	495,247	0.043%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2051	3.50	Fixed Income	257,275	240,632	0.021%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.00	Fixed Income	304,851	297,866	0.026%
JNL Bond Index Fund	Ontvix Canada ULC	11/1/2031	7.20	Fixed Income	130,000	149,183	0.013%
JNL Bond Index Fund	Treasury, United States Department of	11/30/2026	1.25	Fixed Income	1,280,000	1,193,923	0.106%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.00	Fixed Income	117,402	102,452	0.009%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2048	5.00	Fixed Income	16,845	17,204	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2026	3.50	Fixed Income	2,398	2,382	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2035	3.50	Fixed Income	29,038	27,670	0.002%
JNL Bond Index Fund	Apache Corporation	11/5/2030	4.25	Fixed Income	200,000	193,958	0.017%
JNL Bond Index Fund	Ginnie Mae II	12/20/2051	2.50	Fixed Income	817,118	721,326	0.064%
JNL Bond Index Fund	Ecobank Inc.	8/18/2055	2.75	Fixed Income	75,000	50,163	0.004%
JNL Bond Index Fund	Merck & Co., Inc.	12/10/2061	2.90	Fixed Income	160,000	104,468	0.009%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2026	1.28	Fixed Income	3,130,000	2,981,920	0.244%
JNL Bond Index Fund	Merck & Co., Inc.	12/10/2031	2.15	Fixed Income	120,000	105,733	0.009%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2048	4.00	Fixed Income	57,035	55,822	0.005%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2028	1.38	Fixed Income	2,890,000	2,651,683	0.235%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2041	1.50	Fixed Income	101,283	85,792	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2042	2.00	Fixed Income	182,336	158,719	0.014%
JNL Bond Index Fund	Air Lease Corporation	1/15/2027	2.20	Fixed Income	200,000	191,103	0.017%
JNL Bond Index Fund	Barclays PLC	5/9/2028	4.84	Fixed Income	300,000	305,095	0.027%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/4/2035	2.18	Fixed Income	750,000	601,893	0.053%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2049	4.00	Fixed Income	326,665	318,567	0.028%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	708,575	617,419	0.055%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2037	2.00	Fixed Income	457,288	419,318	0.037%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2035	2.50	Fixed Income	290,999	274,956	0.024%
JNL Bond Index Fund	Ginnie Mae II	1/20/2052	2.00	Fixed Income	705,345	598,821	0.053%
JNL Bond Index Fund	Citigroup Inc.	1/25/2033	3.06	Fixed Income	300,000	269,900	0.024%
JNL Bond Index Fund	JPMorgan Chase & Co.	1/25/2033	2.96	Fixed Income	300,000	271,820	0.024%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	2/14/2028	2.64	Fixed Income	300,000	289,263	0.026%
JNL Bond Index Fund	Morgan Stanley	12/1/2033	2.94	Fixed Income	600,000	540,426	0.048%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	2/24/2033	3.10	Fixed Income	300,000	271,086	0.024%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2050	1.50	Fixed Income	461,687	365,828	0.032%
JNL Bond Index Fund	Inter-American Development Bank	11/1/2027	1.50	Fixed Income	750,000	716,448	0.063%
JNL Bond Index Fund	Asian Development Bank	1/20/2027	1.50	Fixed Income	750,000	716,445	0.063%
JNL Bond Index Fund	Deutsche Bank Aktiengesellschaft	1/7/2028	2.55	Fixed Income	300,000	287,333	0.025%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2029	1.75	Fixed Income	3,635,000	3,381,044	0.299%
JNL Bond Index Fund	Ginnie Mae II	11/20/2051	2.50	Fixed Income	668,744	590,346	0.052%
JNL Bond Index Fund	Bank of America Corporation	10/1/2041	1.50	Fixed Income	300,000	270,370	0.024%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2042	2.50	Fixed Income	123,110	110,965	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2042	2.00	Fixed Income	204,697	178,184	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	665,246	556,211	0.049%
JNL Bond Index Fund	Capital One Multi-Asset Execution Trust	7/16/2033					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	1.50	Fixed Income	49,577	39,283	0.039%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2051	2.00	Fixed Income	413,544	332,933	0.036%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2050	2.50	Fixed Income	393,295	344,542	0.030%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2049	2.50	Fixed Income	387,101	338,270	0.030%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	413,477	344,803	0.031%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2051	1.50	Fixed Income	408,750	332,950	0.029%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	423,691	353,357	0.031%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2050	2.50	Fixed Income	415,911	360,455	0.032%
JNL Bond Index Fund	Union Pacific Corporation	2/14/2072	3.85	Fixed Income	80,000	62,412	0.006%
JNL Bond Index Fund	Bristol-Myers Squibb Company	3/15/2032	2.95	Fixed Income	85,000	77,613	0.007%
JNL Bond Index Fund	Bristol-Myers Squibb Company	3/1/2042	3.35	Fixed Income	60,000	59,374	0.004%
JNL Bond Index Fund	Treasury, United States Department of	2/28/2027	1.88	Fixed Income	2,865,000	2,755,896	0.244%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2042	2.38	Fixed Income	2,175,000	1,700,379	0.150%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2041	2.00	Fixed Income	118,503	103,783	0.009%
JNL Bond Index Fund	Bank of America Corporation	3/8/2033	3.85	Fixed Income	200,000	185,539	0.016%
JNL Bond Index Fund	Toronto-Dominion Bank, The	3/10/2032	3.20	Fixed Income	200,000	183,263	0.016%
JNL Bond Index Fund	Benchmark 2022-832 Mortgage Trust	1/16/2032	3.00	Fixed Income	400,000	352,336	0.031%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/25/2032	1.89	Fixed Income	300,000	257,054	0.023%
JNL Bond Index Fund	Charter Communications Operating, LLC	4/1/2053	5.25	Fixed Income	200,000	168,514	0.015%
JNL Bond Index Fund	Ginnie Mae II	9/20/2051	2.00	Fixed Income	421,148	357,874	0.032%
JNL Bond Index Fund	Charter Communications Operating, LLC	4/1/2063	5.50	Fixed Income	300,000	251,180	0.022%
JNL Bond Index Fund	Citigroup Inc.	3/17/2033	3.79	Fixed Income	200,000	187,881	0.017%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2037	1.50	Fixed Income	612,352	548,192	0.048%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	745,814	618,912	0.055%
JNL Bond Index Fund	Ginnie Mae II	3/20/2052	2.00	Fixed Income	700,621	594,811	0.053%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	452,277	374,756	0.033%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/2/2051	2.00	Fixed Income	642,185	532,195	0.047%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	692,002	741,062	0.066%
JNL Bond Index Fund	ING Groep N.V.	3/28/2033	4.25	Fixed Income	200,000	193,769	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	431,764	374,195	0.033%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	708,827	587,273	0.052%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	334,923	275,236	0.025%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.50	Fixed Income	697,551	604,107	0.053%
JNL Bond Index Fund	Hoag Memorial Hospital Presbyterian	7/15/2052	3.80	Fixed Income	200,000	167,937	0.015%
JNL Bond Index Fund	International Bank for Reconstruction and Development	3/29/2032	2.50	Fixed Income	300,000	273,223	0.024%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2053	2.50	Fixed Income	398,503	318,346	0.027%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2029	2.38	Fixed Income	3,965,000	3,766,389	0.333%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2027	2.50	Fixed Income	465,000	453,116	0.040%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2049	2.50	Fixed Income	399,039	351,113	0.031%
JNL Bond Index Fund	Royal Bank of Canada	5/4/2027	3.63	Fixed Income	300,000	296,933	0.027%
JNL Bond Index Fund	Royal Bank of Canada	5/4/2032	3.88	Fixed Income	300,000	294,178	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2050	2.00	Fixed Income	420,269	350,467	0.031%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.50	Fixed Income	444,341	387,178	0.034%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/2/2051	2.50	Fixed Income	710,145	616,135	0.055%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.50	Fixed Income	206,291	180,268	0.016%
JNL Bond Index Fund	Amazon.com, Inc.	4/13/2062	4.10	Fixed Income	160,000	141,505	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2036	2.00	Fixed Income	846,506	775,690	0.069%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2037	2.00	Fixed Income	560,849	514,105	0.045%
JNL Bond Index Fund	Wells Fargo & Company	4/25/2053	4.61	Fixed Income	500,000	472,475	0.042%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2051	2.50	Fixed Income	740,714	641,952	0.057%
JNL Bond Index Fund	Ginnie Mae II	4/20/2052	2.00	Fixed Income	594,005	504,296	0.045%
JNL Bond Index Fund	Ginnie Mae II	4/20/2052	2.50	Fixed Income	663,824	586,417	0.052%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2037	2.50	Fixed Income	30,109	28,289	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.50	Fixed Income	89,232	83,443	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	681,395	566,945	0.050%
JNL Bond Index Fund	American Express Company	5/3/2027	3.30	Fixed Income	300,000	286,367	0.026%
JNL Bond Index Fund	University of Washington	4/15/2054	3.52	Fixed Income	100,000	81,807	0.007%
JNL Bond Index Fund	Keurig Dr Pepper Inc.	4/15/2052	4.50	Fixed Income	100,000	92,869	0.008%
JNL Bond Index Fund	Amazon.com, Inc.	4/13/2027	3.30	Fixed Income	165,000	165,350	0.015%
JNL Bond Index Fund	Amazon.com, Inc.	4/13/2032	3.60	Fixed Income	135,000	132,851	0.012%
JNL Bond Index Fund	Mitsubishi UFJ Financial Group Inc	4/18/2033	4.30	Fixed Income	300,000	299,534	0.027%
JNL Bond Index Fund	Verizon Communications Inc.	3/15/2032	2.36	Fixed Income	250,000	215,631	0.019%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/25/2025	0.63	Fixed Income	750,000	723,582	0.064%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2027	2.75	Fixed Income	3,735,000	3,700,849	0.327%
JNL Bond Index Fund	PG&E Wildlife Recovery Funding LLC	6/1/2036	4.30	Fixed Income	300,000	296,933	0.027%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.50	Fixed Income	712,743	621,719	0.055%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2052	2.50	Fixed Income	414,490	362,204	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	736,429	613,655	0.054%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2051	2.00	Fixed Income	418,834	348,485	0.031%
JNL Bond Index Fund	Ginnie Mae II	3/20/2052	2.50	Fixed Income	101,656	89,739	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2052	2.50	Fixed Income	92,690	80,273	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2037	1.50	Fixed Income	553,884	495,850	0.044%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2051	2.00	Fixed Income	690,667	593,105	0.047%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.50	Fixed Income	628,574	545,968	0.048%
JNL Bond Index Fund	Ginnie Mae II	11/20/2051	2.00	Fixed Income	840,248	713,745	0.063%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2052	2.88	Fixed Income	900,000	786,045	0.070%
JNL Bond Index Fund	Intercontinental Exchange, Inc.	3/15/2033	4.60	Fixed Income	250,000	253,365	0.022%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2051	2.50	Fixed Income	732,238	633,690	0.056%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2051	2.00	Fixed Income	737,639	613,742	0.054%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	734,106	617,361	0.055%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	684,938	595,110	0.053%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2033	2.88	Fixed Income	3,820,000	3,653,770	0.323%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.50	Fixed Income	691,835	599,157	0.053%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2050	2.00	Fixed Income	661,773	551,859	0.049%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.50	Fixed Income	681,494	589,563	0.052%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2051	1.50	Fixed Income	688,529	588,529	0.052%
JNL Bond Index Fund	Ginnie Mae II	5/20/2052	2.00	Fixed Income	431,866	366,644	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	676,461	567,491	0.050%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.50	Fixed Income	677,312	585,945	0.052%
JNL Bond Index Fund	UnitedHealth Group Incorporated	5/1/2037	2.50	Fixed Income	250,000	207,000	0.018%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2042	3.25	Fixed Income	2,265,000	2,041,531	0.181%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.50	Fixed Income	720,886	624,204	0.055%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2050	1.50	Fixed Income	736,442	583,536	0.052%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	1,016,874	1,271,874	0.089%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2035	1.50	Fixed Income	602,899	541,990	0.048%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2036	2.00	Fixed Income	605,760	556,219	0.049%
JNL Bond Index Fund	Pfizer Inc.	9/15/2048	4.20	Fixed Income	50,000	44,513	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	890,523	792,057	0.070%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	1,048,868	906,630	0.080%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.00	Fixed Income	596,744	498,750	0.044%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	677,111	564,227	0.050%
JNL Bond Index Fund	Qualcomm Incorporated	5/20/2052	4.50	Fixed Income	250,000	234,487	0.021%
JNL Bond Index Fund	Intercontinental Exchange, Inc.	6/15/2062	5.20	Fixed Income	250,000	259,573	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.00	Fixed Income	941,914	780,762	0.069%
JNL Bond Index Fund	Treasury, United States Department of	5/31/2027	2.63	Fixed Income	1,285,000	1,285,014	0.112%
JNL Bond Index Fund	Ginnie Mae II	5/20/2052	2.50	Fixed Income	759,261	670,299	0.058%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2050	2.50	Fixed Income	568,501	568,241	0.044%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2052	3.00	Fixed Income	584,885	528,140	0.047%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2052	2.50	Fixed Income	705,504	610,554	0.054%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.00	Fixed Income	80,712	72,881	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2050	1.50	Fixed Income	725,527	604,571	0.053%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.50	Fixed Income	744,510	644,310	0.057%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.50	Fixed Income	647,670	564,956	0.050%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2037	2.00	Fixed Income	563,399	516,443	0.046%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2037	1.50	Fixed Income	411,146	367,286	0.032%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2050	2.50	Fixed Income	673,681	596,546	0.053%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.50	Fixed Income	678,527	585,900	0.052%
JNL Bond Index Fund	Ginnie Mae II	12/20/2051	2.00	Fixed Income	665,021	565,731	0.050%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	1,025,066	851,610	0.075%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.00	Fixed Income	634,073	573,546	0.051%
JNL Bond Index Fund	Baxter International Inc.	2/1/2027	1.92	Fixed Income	145,000	137,762	0.012%
JNL Bond Index Fund	Baxter International Inc.	2/1/2032	2.54	Fixed Income	100,000	87,115	0.008%
JNL Bond Index Fund	Ginnie Mae II	6/20/2052	3.00	Fixed Income	39,933	35,198	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2051	2.00	Fixed Income	689,797	574,798	0.051%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	662,807	578,899	0.051%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.50	Fixed Income	627,414	546,895	0.048%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2052	2.50	Fixed Income	715,094	623,770	0.055%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.00	Fixed Income	174,206	157,305	0.014%
JNL Bond Index Fund	Ginnie Mae II	2/20/2052	2.50	Fixed Income	623,020	549,982	0.049%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2050	2.50	Fixed Income	465,181	402,866	0.036%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2029	3.25	Fixed Income	180,000	158,989	0.014%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2037	3.25	Fixed Income	1,990,000	1,989,554	0.176%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	614,258	509,741	0.045%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2050	2.50	Fixed Income	553,281	479,163	0.042%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.00	Fixed Income	1,020,889	849,416	0.075%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.00	Fixed Income	722,060	609,200	0.053%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.50	Fixed Income	580,676	505,610	0.045%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2036	1.50	Fixed Income	548,864	492,556	0.044%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2052	3.00	Fixed Income	145,029	130,585	0.012%
JNL Bond Index Fund	Ginnie Mae II	12/20/2052	3.00	Fixed Income	613,889	561,68	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	JPMorgan Chase & Co.	7/25/2033	4.91	Fixed Income	200,000	206,317	0.018%
JNL Bond Index Fund	Wells Fargo & Company	7/25/2033	4.90	Fixed Income	400,000	403,704	0.036%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2050	2.50	Fixed Income	1,156,230	1,023,844	0.091%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.00	Fixed Income	662,510	550,404	0.049%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.50	Fixed Income	660,271	571,822	0.051%
JNL Bond Index Fund	International Bank for Reconstruction and Development	6/15/2027	3.13	Fixed Income	400,000	398,553	0.036%
JNL Bond Index Fund	Mitsubishi UFJ Financial Group Inc.	7/20/2028	5.02	Fixed Income	300,000	309,136	0.027%
JNL Bond Index Fund	TD SYNEX Corporation	8/9/2031	2.65	Fixed Income	200,000	171,703	0.015%
JNL Bond Index Fund	Morgan Stanley	7/20/2033	4.89	Fixed Income	500,000	511,534	0.045%
JNL Bond Index Fund	PG&E Wildfire Recovery Funding LLC	12/1/2047	5.21	Fixed Income	100,000	103,323	0.009%
JNL Bond Index Fund	Treasury, United States Department of	7/31/2027	2.75	Fixed Income	2,380,000	2,337,849	0.207%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.00	Fixed Income	620,198	598,234	0.053%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	1,352,799	1,170,480	0.104%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.50	Fixed Income	722,350	625,133	0.055%
JNL Bond Index Fund	HSBC Holdings PLC	8/11/2033	5.40	Fixed Income	500,000	522,203	0.046%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	4.50	Fixed Income	25,000	24,675	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/15/2054	2.50	Fixed Income	225,000	(194,520)	-0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	3.50	Fixed Income	25,000	24,492	0.002%
JNL Bond Index Fund	Ginnie Mae II	5/20/2051	2.50	Fixed Income	656,936	580,538	0.051%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2032	2.75	Fixed Income	2,670,000	2,504,576	0.222%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2052	3.00	Fixed Income	1,045,000	843,923	0.075%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.00	Fixed Income	710,680	591,311	0.052%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2052	2.50	Fixed Income	700,125	611,807	0.054%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2052	3.00	Fixed Income	671,227	607,154	0.054%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2051	2.00	Fixed Income	768,814	640,882	0.057%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	759,793	633,125	0.056%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2051	1.50	Fixed Income	624,575	484,545	0.043%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2051	1.50	Fixed Income	775,705	614,647	0.054%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2051	2.50	Fixed Income	740,283	640,653	0.057%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2042	3.38	Fixed Income	430,000	389,861	0.034%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2051	2.00	Fixed Income	677,692	554,711	0.050%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	546,093	455,363	0.040%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	635,311	549,610	0.049%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2052	1.50	Fixed Income	117,894	93,305	0.008%
JNL Bond Index Fund	Intel Corporation	8/5/2062	5.05	Fixed Income	105,000	93,119	0.008%
JNL Bond Index Fund	HSBC Holdings PLC	8/11/2021	5.21	Fixed Income	300,000	300,000	0.027%
JNL Bond Index Fund	Apple Inc.	8/8/2032	3.35	Fixed Income	75,000	72,143	0.006%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2027	3.13	Fixed Income	1,950,000	1,931,148	0.171%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2051	2.00	Fixed Income	969,670	806,800	0.071%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2051	2.50	Fixed Income	451,925	390,947	0.035%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.00	Fixed Income	440,722	365,732	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	891,787	740,047	0.065%
JNL Bond Index Fund	Union Pacific Corporation	12/0/2033	4.50	Fixed Income	100,000	102,099	0.009%
JNL Bond Index Fund	JPMorgan Chase & Co.	9/14/2033	5.72	Fixed Income	100,000	106,120	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.00	Fixed Income	525,639	473,164	0.042%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	627,801	520,382	0.046%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.50	Fixed Income	262,358	259,220	0.023%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2052	4.00	Fixed Income	361,472	348,671	0.031%
JNL Bond Index Fund	Ginnie Mae II	9/20/2052	3.50	Fixed Income	93,242	87,891	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2036	2.00	Fixed Income	534,891	491,147	0.043%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2036	2.00	Fixed Income	373,350	343,984	0.030%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2051	4.50	Fixed Income	474,540	454,540	0.040%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2036	2.00	Fixed Income	574,488	526,428	0.047%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2037	1.50	Fixed Income	906,704	810,002	0.072%
JNL Bond Index Fund	Ginnie Mae II	12/20/2051	3.00	Fixed Income	393,444	359,720	0.032%
JNL Bond Index Fund	Ginnie Mae II	4/20/2052	3.50	Fixed Income	64,838	60,002	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2052	2.00	Fixed Income	630,011	522,818	0.046%
JNL Bond Index Fund	Ginnie Mae II	5/20/2051	2.00	Fixed Income	587,779	499,470	0.044%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2051	2.00	Fixed Income	614,561	511,337	0.045%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.00	Fixed Income	625,837	519,936	0.046%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	480,226	480,226	0.042%
JNL Bond Index Fund	Walmart Inc.	9/9/2052	4.50	Fixed Income	100,000	97,428	0.009%
JNL Bond Index Fund	NSTAR Electric Company	9/15/2052	4.95	Fixed Income	100,000	97,786	0.009%
JNL Bond Index Fund	Home Depot, Inc., The	9/15/2052	4.95	Fixed Income	150,000	150,268	0.013%
JNL Bond Index Fund	Lowes's Companies, Inc.	9/15/2062	5.80	Fixed Income	100,000	99,342	0.009%
JNL Bond Index Fund	T-Mobile USA, Inc.	9/15/2062	5.80	Fixed Income	100,000	106,306	0.009%
JNL Bond Index Fund	Bank of Montreal	9/14/2027	4.70	Fixed Income	100,000	101,914	0.009%
JNL Bond Index Fund	Mitsubishi UFJ Financial Group Inc.	9/13/2028	5.35	Fixed Income	300,000	309,812	0.027%
JNL Bond Index Fund	Wisconsin Electric Power Company	9/30/2031	4.75	Fixed Income	100,000	102,128	0.009%
JNL Bond Index Fund	CenterPoint Energy Houston Electric, LLC	10/1/2032	4.45	Fixed Income	100,000	101,757	0.009%
JNL Bond Index Fund	Home Depot, Inc., The	9/15/2032	4.50	Fixed Income	200,000	204,659	0.018%
JNL Bond Index Fund	Prologis, L.P.	1/15/2033	4.63	Fixed Income	100,000	101,505	0.009%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2027	4.13	Fixed Income	1,165,000	1,183,690	0.105%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	227,249	189,434	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.50	Fixed Income	43,980	41,113	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	433,409	362,101	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2052	3.50	Fixed Income	438,574	411,766	0.036%
JNL Bond Index Fund	The Philippines, Government of	10/13/2047	5.95	Fixed Income	200,000	230,338	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2052	2.50	Fixed Income	440,205	383,987	0.034%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2052	4.00	Fixed Income	448,314	432,437	0.038%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.50	Fixed Income	433,083	427,496	0.038%
JNL Bond Index Fund	Comcast Corporation	10/15/2048	4.70	Fixed Income	385,000	352,883	0.031%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	5.50	Fixed Income	275,000	277,599	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.50	Fixed Income	600,000	607,102	0.054%
JNL Bond Index Fund	Comcast Corporation	10/15/2028	4.15	Fixed Income	650,000	663,394	0.059%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	2.00	Fixed Income	492,820	489,247	0.043%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	2.00	Fixed Income	282,832	259,260	0.023%
JNL Bond Index Fund	Ginnie Mae II	2/20/2052	2.00	Fixed Income	174,897	148,484	0.013%
JNL Bond Index Fund	Ginnie Mae II	7/20/2052	4.50	Fixed Income	172,533	171,230	0.015%
JNL Bond Index Fund	Ginnie Mae II	8/20/2052	3.83	Fixed Income	353,768	327,481	0.029%
JNL Bond Index Fund	Morgan Stanley	10/18/2033	6.34	Fixed Income	130,000	148,128	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.00	Fixed Income	638,490	530,448	0.047%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2051	2.50	Fixed Income	443,435	383,617	0.034%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/2/2052	4.00	Fixed Income	442,866	409,208	0.036%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	448,813	373,989	0.033%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.50	Fixed Income	646,844	559,789	0.050%
JNL Bond Index Fund	UnitedHealth Group Incorporated	2/15/2053	5.88	Fixed Income	100,000	111,225	0.010%
JNL Bond Index Fund	UnitedHealth Group Incorporated	2/15/2063	6.05	Fixed Income	100,000	114,063	0.010%
JNL Bond Index Fund	UnitedHealth Group Incorporated	2/15/2028	5.25	Fixed Income	200,000	209,595	0.019%
JNL Bond Index Fund	UnitedHealth Group Incorporated	2/15/2033	5.35	Fixed Income	200,000	213,706	0.019%
JNL Bond Index Fund	ConocoPhillips Company	3/15/2042	3.76	Fixed Income	300,000	295,438	0.023%
JNL Bond Index Fund	American Express Credit Account Master Trust	5/1/2025	4.95	Fixed Income	150,000	151,281	0.013%
JNL Bond Index Fund	UnitedHealth Group Incorporated	2/15/2030	5.30	Fixed Income	200,000	212,363	0.019%
JNL Bond Index Fund	Haleon US Capital LLC	3/24/2052	4.00	Fixed Income	250,000	213,006	0.019%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2027	4.13	Fixed Income	1,030,000	1,064,196	0.094%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2052	2.00	Fixed Income	374,091	307,849	0.027%
JNL Bond Index Fund	Federal Motor Credit Company LLC	11/4/2017	7.35	Fixed Income	300,000	327,847	0.029%
JNL Bond Index Fund	PG&E Wildfire Recovery Funding LLC	6/1/2052	5.10	Fixed Income	225,000	232,636	0.021%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.00	Fixed Income	50,000	49,971	0.004%
JNL Bond Index Fund	NavWest Group PLC	11/10/2026	7.47	Fixed Income	400,000	422,663	0.037%
JNL Bond Index Fund	Southern California Edison Company	11/1/2032	5.95	Fixed Income	300,000	333,720	0.030%
JNL Bond Index Fund	Bank of America Corporation	11/10/2028	6.20	Fixed Income	400,000	431,821	0.038%
JNL Bond Index Fund	Edison International	11/15/2029	6.95	Fixed Income	200,000	225,700	0.020%
JNL Bond Index Fund	Oracle Corporation	11/9/2032	6.25	Fixed Income	100,000	124,372	0.011%
JNL Bond Index Fund	Zoetis Inc.	11/14/2025	5.40	Fixed Income	200,000	205,978	0.018%
JNL Bond Index Fund	Urzad Rady Ministrow	11/16/2027	5.50	Fixed Income	300,000	319,402	0.028%
JNL Bond Index Fund	Urzad Rady Ministrow	11/16/2032	5.75	Fixed Income	300,000	328,568	0.029%
JNL Bond Index Fund	Citigroup Inc.	11/17/2033	6.27	Fixed Income	300,000	336,886	0.030%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2052	4.00	Fixed Income	880,000	869,646	0.077%
JNL Bond Index Fund	Government of the Republic of Panama	2/14/2035	6.40	Fixed Income	200,000	206,670	0.018%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2025	4.50	Fixed Income	1,675,000	1,713,939	0.152%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2032	4.13	Fixed Income	3,665,000	3,827,473	0.339%
JNL Bond Index Fund	Qualcomm Incorporated	5/20/2033	5.40	Fixed Income	200,000	219,463	0.019%
JNL Bond Index Fund	Qualcomm Incorporated	5/20/2053	6.00	Fixed Income	100,000	115,512	0.010%
JNL Bond Index Fund	Oracle Corporation	11/9/2052	6.90	Fixed Income	105,000	129,531	0.011%
JNL Bond Index Fund	Zoetis Inc.	11/16/2032	5.60	Fixed Income	200,000	218,415	0.019%
JNL Bond Index Fund	Treasury, United States Department of	11/30/2027	3.98	Fixed Income	1,660,000	1,634,836	0.145%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2042	4.00	Fixed Income	445,000	444,631	0.039%
JNL Bond Index Fund	BBCMS Mortgage Trust 2022-C15	3/17/2032	3.66	Fixed Income	200,000	186,605	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/25/2031	1.72	Fixed Income	300,000	250,397	0.022%
JNL Bond Index Fund	Treasury, United States Department of	12/15/2025	4.00	Fixed Income	1,670,000	1,662,060	0.146%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.00	Fixed Income	35,685	31,675	0.003%
JNL Bond Index Fund	General Dynamics Corporation	5/15/2028	3.75	Fixed Income	300,000	301,931	0.027%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2027	3.88	Fixed Income	1,400,000	1,426,835	0.126%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.50	Fixed Income	629,714	545,357	0.048%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	597,055	521,728	0.046%
JNL Bond Index Fund	MetLife, Inc.	1/15/2054	5.25	Fixed Income	300,000	312,820	0.028%
JNL Bond Index Fund	Sumitomo Mitsui Financial Group, Inc.	1/13/2028	5.52	Fixed Income	300,000	314,590	0.028%
JNL Bond Index Fund	Synchrony Bank	8/23/2027	5.63	Fixed Income	400,000	409,695	0.036%
JNL Bond Index Fund	PACAR Financial Corp.						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Treasury, United States Department of	1/15/2026	3.88	Fixed Income	2,730,000	2,753,702	0.244%
JNL Bond Index Fund	National Australia Bank Limited	1/1/2026	4.97	Fixed Income	250,000	260,287	0.028%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.50	Fixed Income	635,464	551,331	0.049%
JNL Bond Index Fund	Inter-American Development Bank	1/1/2028	4.00	Fixed Income	300,000	306,012	0.027%
JNL Bond Index Fund	KW	2/15/2028	3.75	Fixed Income	300,000	302,521	0.027%
JNL Bond Index Fund	European Investment Bank	3/15/2028	3.88	Fixed Income	210,000	212,037	0.019%
JNL Bond Index Fund	U.S. Bancorp	2/1/2029	4.65	Fixed Income	500,000	608,805	0.045%
JNL Bond Index Fund	Realty Income Corporation	3/15/2030	4.85	Fixed Income	300,000	308,076	0.027%
JNL Bond Index Fund	Toyota Motor Credit Corporation	1/1/2033	4.70	Fixed Income	100,000	103,093	0.009%
JNL Bond Index Fund	Asian Development Bank	1/1/2033	4.00	Fixed Income	300,000	305,659	0.027%
JNL Bond Index Fund	Sun Communities Operating Limited Partnership	1/15/2033	5.70	Fixed Income	300,000	312,560	0.028%
JNL Bond Index Fund	Equitable Holdings, Inc.	1/1/2033	5.59	Fixed Income	300,000	318,588	0.028%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2046	3.00	Fixed Income	91,583	84,093	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2048	3.50	Fixed Income	56,044	53,076	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2048	4.50	Fixed Income	88,925	89,048	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2048	3.50	Fixed Income	31,508	29,787	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2048	3.50	Fixed Income	5,095	4,812	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2048	3.50	Fixed Income	30,874	29,167	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2048	3.50	Fixed Income	11,241	10,617	0.001%
JNL Bond Index Fund	Rogers Communications Inc.	12/15/2025	3.63	Fixed Income	300,000	299,938	0.027%
JNL Bond Index Fund	Orange	2/6/2044	5.50	Fixed Income	300,000	313,645	0.028%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2046	3.00	Fixed Income	260,938	240,610	0.021%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	5.00	Fixed Income	75,000	75,077	0.007%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2048	4.50	Fixed Income	37,777	38,034	0.003%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2048	4.50	Fixed Income	19,008	19,013	0.002%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2048	5.00	Fixed Income	26,319	26,880	0.002%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2048	3.50	Fixed Income	94,895	90,188	0.008%
JNL Bond Index Fund	Conagra Brands, Inc.	11/1/2048	5.40	Fixed Income	55,000	55,699	0.005%
JNL Bond Index Fund	Conagra Brands, Inc.	11/1/2038	5.30	Fixed Income	55,000	56,446	0.005%
JNL Bond Index Fund	Shell International Finance B.V.	5/10/2046	4.00	Fixed Income	155,000	134,448	0.012%
JNL Bond Index Fund	Gobierno De La Republica Oriental Del Uruguay	11/20/2045	4.13	Fixed Income	200,000	187,254	0.017%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	12/15/2046	4.80	Fixed Income	250,000	208,384	0.018%
JNL Bond Index Fund	Exxon Mobil Corporation	3/1/2046	4.11	Fixed Income	205,000	183,449	0.016%
JNL Bond Index Fund	Visa Inc.	9/15/2047	3.65	Fixed Income	45,000	37,717	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2046	3.00	Fixed Income	13,486	12,391	0.001%
JNL Bond Index Fund	Sempra	10/20/2048	4.00	Fixed Income	50,000	49,833	0.004%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2045	4.00	Fixed Income	81,782	80,426	0.007%
JNL Bond Index Fund	Kraft Heinz Foods Company	6/1/2046	4.38	Fixed Income	200,000	180,092	0.016%
JNL Bond Index Fund	AbbVie Inc.	5/1/2046	4.45	Fixed Income	140,000	133,171	0.012%
JNL Bond Index Fund	Apple Inc.	2/9/2047	4.25	Fixed Income	60,000	56,540	0.005%
JNL Bond Index Fund	Nylan II B.V.	6/15/2046	5.25	Fixed Income	85,000	75,870	0.007%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2045	3.50	Fixed Income	6,821	6,511	0.001%
JNL Bond Index Fund	The Southern Company	7/1/2046	4.40	Fixed Income	400,000	364,770	0.032%
JNL Bond Index Fund	PepsiCo, Inc.	10/6/2046	3.45	Fixed Income	80,000	74,287	0.007%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	3.50	Fixed Income	50,000	(47,064)	-0.004%
JNL Bond Index Fund	Alabama Power Company	12/1/2047	3.70	Fixed Income	200,000	164,555	0.015%
JNL Bond Index Fund	AT&T Inc.	3/9/2048	4.50	Fixed Income	656,000	585,396	0.052%
JNL Bond Index Fund	Apple Inc.	2/1/2047	3.75	Fixed Income	60,000	51,902	0.005%
JNL Bond Index Fund	Gilead Sciences, Inc.	3/1/2047	4.15	Fixed Income	150,000	131,900	0.012%
JNL Bond Index Fund	Comcast Corporation	8/15/2047	4.00	Fixed Income	50,000	42,458	0.004%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2045	3.00	Fixed Income	96,849	89,607	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2046	3.50	Fixed Income	164,371	161,233	0.014%
JNL Bond Index Fund	Verizon Communications Inc.	9/21/2028	3.33	Fixed Income	400,000	402,657	0.036%
JNL Bond Index Fund	RTX Corporation	5/4/2047	4.05	Fixed Income	200,000	174,435	0.015%
JNL Bond Index Fund	Morgan Stanley	1/22/2047	4.08	Fixed Income	200,000	186,352	0.016%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2045	3.50	Fixed Income	123,395	117,788	0.010%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2046	2.50	Fixed Income	1,000,000	759,138	0.067%
JNL Bond Index Fund	The Sherwin-Williams Company	6/1/2047	4.50	Fixed Income	70,000	65,033	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2045	4.00	Fixed Income	58,162	57,084	0.005%
JNL Bond Index Fund	Church & Dwight Co., Inc.	8/1/2047	3.95	Fixed Income	200,000	168,950	0.015%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2046	4.00	Fixed Income	43,665	42,665	0.004%
JNL Bond Index Fund	Wells Fargo & Company	12/7/2046	4.75	Fixed Income	200,000	186,391	0.016%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2046	2.50	Fixed Income	2,955,000	2,254,774	0.199%
JNL Bond Index Fund	Comcast Corporation	3/1/2048	4.00	Fixed Income	360,000	303,875	0.027%
JNL Bond Index Fund	UnitedHealth Group Incorporated	1/15/2047	3.50	Fixed Income	150,000	134,302	0.012%
JNL Bond Index Fund	Washington Gas Light Company	9/15/2046	3.80	Fixed Income	200,000	164,909	0.015%
JNL Bond Index Fund	Honeywell International Inc.	11/21/2047	3.81	Fixed Income	300,000	257,044	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2045	4.00	Fixed Income	43,707	42,897	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2046	3.50	Fixed Income	70,439	67,039	0.006%
JNL Bond Index Fund	Duke Energy Florida, LLC	10/1/2046	3.40	Fixed Income	60,000	47,274	0.004%
JNL Bond Index Fund	UnitedHealth Group Incorporated	10/15/2047	3.75	Fixed Income	60,000	50,411	0.004%
JNL Bond Index Fund	Kroger Co., The	2/1/2047	4.45	Fixed Income	300,000	265,580	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2045	4.00	Fixed Income	71,244	71,164	0.006%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2046	3.00	Fixed Income	69,409	64,218	0.006%
JNL Bond Index Fund	Elevance Health, Inc.	12/1/2047	4.48	Fixed Income	80,000	72,010	0.006%
JNL Bond Index Fund	Bank of America Corporation	1/20/2048	4.34	Fixed Income	120,000	111,731	0.010%
JNL Bond Index Fund	Travelers Companies, Inc. The	5/30/2047	4.00	Fixed Income	100,000	87,863	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2048	3.50	Fixed Income	7,114	6,729	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2046	3.50	Fixed Income	253,919	242,222	0.021%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2046	3.00	Fixed Income	17,260	15,877	0.001%
JNL Bond Index Fund	Treasury, United States Department of	9/15/2046	3.25	Fixed Income	3,805,000	2,374,638	0.206%
JNL Bond Index Fund	Southern Company Gas Capital Corporation	5/30/2047	4.40	Fixed Income	200,000	177,158	0.016%
JNL Bond Index Fund	JPMorgan Chase & Co.	11/15/2048	3.96	Fixed Income	200,000	176,032	0.016%
JNL Bond Index Fund	JPMorgan Chase & Co.	1/23/2049	3.90	Fixed Income	105,000	90,429	0.008%
JNL Bond Index Fund	Oncor Electric Delivery Company LLC	9/30/2047	3.80	Fixed Income	200,000	166,118	0.015%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2046	3.50	Fixed Income	49,307	46,087	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2046	3.00	Fixed Income	97,353	89,553	0.008%
JNL Bond Index Fund	Charter Communications Operating, LLC	4/1/2048	5.75	Fixed Income	100,000	90,165	0.008%
JNL Bond Index Fund	Northwell Health, Inc.	11/1/2046	3.98	Fixed Income	500,000	425,601	0.038%
JNL Bond Index Fund	Providence St. Joseph Health	6/1/2047	3.74	Fixed Income	350,000	290,020	0.026%
JNL Bond Index Fund	The Progressive Corporation	4/15/2047	4.13	Fixed Income	50,000	45,069	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2048	3.50	Fixed Income	31,414	29,698	0.003%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2025	3.00	Fixed Income	1,705,000	1,713,121	0.152%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2048	3.50	Fixed Income	62,293	60,278	0.005%
JNL Bond Index Fund	Prudential Financial, Inc.	12/7/2047	3.91	Fixed Income	313,000	262,983	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2045	3.00	Fixed Income	81,511	74,997	0.007%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2046	3.00	Fixed Income	78,110	72,269	0.006%
JNL Bond Index Fund	Intel Corporation	5/11/2047	4.10	Fixed Income	150,000	120,941	0.011%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2046	2.88	Fixed Income	1,166,000	949,635	0.084%
JNL Bond Index Fund	Walmart Inc.	12/15/2047	3.63	Fixed Income	300,000	255,234	0.023%
JNL Bond Index Fund	Citigroup Inc.	4/24/2048	4.28	Fixed Income	60,000	54,477	0.005%
JNL Bond Index Fund	American Water Capital Corp.	9/1/2047	3.75	Fixed Income	100,000	82,179	0.007%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2046	3.50	Fixed Income	19,158	15,414	0.001%
JNL Bond Index Fund	Bank of America Corporation	1/23/2049	3.95	Fixed Income	75,000	64,748	0.006%
JNL Bond Index Fund	Florida Power & Light Company	12/1/2047	3.70	Fixed Income	40,000	33,415	0.003%
JNL Bond Index Fund	Discovery Communications, LLC	9/20/2047	5.20	Fixed Income	75,000	60,381	0.005%
JNL Bond Index Fund	Intel Corporation	10/8/2047	3.73	Fixed Income	120,000	99,138	0.008%
JNL Bond Index Fund	PPLE Electric Utilities Corporation	6/1/2047	3.95	Fixed Income	200,000	172,402	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2045	3.50	Fixed Income	167,269	159,018	0.014%
JNL Bond Index Fund	United Parcel Service, Inc.	11/15/2047	3.75	Fixed Income	70,000	58,375	0.005%
JNL Bond Index Fund	Suncor Energy Inc.	11/15/2047	4.50	Fixed Income	340,000	275,400	0.024%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2046	3.00	Fixed Income	62,758	58,065	0.005%
JNL Bond Index Fund	CSX Corporation	3/1/2048	4.30	Fixed Income	50,000	45,081	0.004%
JNL Bond Index Fund	HCA Inc.	6/15/2047	5.50	Fixed Income	300,000	303,084	0.027%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2046	3.50	Fixed Income	136,188	129,915	0.011%
JNL Bond Index Fund	Texas Instruments Incorporated	5/15/2048	4.15	Fixed Income	75,000	67,933	0.006%
JNL Bond Index Fund	American International Group, Inc.	4/1/2048	4.75	Fixed Income	60,000	58,386	0.005%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2047	3.00	Fixed Income	1,582,000	1,302,065	0.115%
JNL Bond Index Fund	Bay Area Toll Authority	4/1/2049	6.26	Fixed Income	200,000	234,041	0.021%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2046	4.00	Fixed Income	11,331	11,143	0.001%
JNL Bond Index Fund	San Diego County Water Authority	5/1/2049	6.14	Fixed Income	260,000	291,633	0.026%
JNL Bond Index Fund	Johnson & Johnson	1/15/2048	3.50	Fixed Income	50,000	41,950	0.004%
JNL Bond Index Fund	The Board of Trustees of The Leland Stanford Junior University	5/1/2048	3.65	Fixed Income	20,000	17,347	0.002%
JNL Bond Index Fund	TransCanada Pipelines Limited	7/15/2048	4.88	Fixed Income	60,000	57,273	0.005%
JNL Bond Index Fund	Berkshire Hathaway Energy Company	7/1/2048	3.80	Fixed Income	100,000	80,883	0.007%
JNL Bond Index Fund	Akheuser-Busch Inflexion Worldwide Inc.	10/6/2048	4.44	Fixed Income	362,000	343,474	0.030%
JNL Bond Index Fund	Vodafone Group Plc/United Kingdom	5/30/2048	5.25	Fixed Income	175,000	175,482	0.016%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2046	4.50	Fixed Income	15,662	15,852	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2046	3.00	Fixed Income	110,924	102,629	0.009%
JNL Bond Index Fund	CVS Health Corporation	3/25/2048	5.05	Fixed Income	470,000	429,479	0.038%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2047	3.00	Fixed Income	1,855,000	1,621,588	0.143%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2046	3.50	Fixed Income	107,389	102,045	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2046	3.50	Fixed Income	93,004	88,532	0.008%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2046	3.50	Fixed Income	62,950	60,051	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2046	3.00	Fixed Income	45,076	41,436	0.004%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2046	3.50	Fixed Income	129,832	121,977	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2046	3.00	Fixed Income	110,643	101,709	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2046	4.00	Fixed Income	19,949	19,567	0.002%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2046	3.00	Fixed Income	339,917	313,649	0.028%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2046	4.00	Fixed Income	74,708	72,278	0.006%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2046	3.50	Fixed Income	104,888	99,419	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2046	3.50	Fixed Income	101,237		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Government National Mortgage Association	9/20/2046	3.50	Fixed Income	28,553	27,219	0.002%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2047	2.75	Fixed Income	1,135,000	895,493	0.076%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2046	3.50	Fixed Income	138,873	132,346	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2046	4.00	Fixed Income	43,015	42,190	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2046	3.50	Fixed Income	89,679	85,209	0.008%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2046	3.00	Fixed Income	208,144	191,929	0.017%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2046	2.50	Fixed Income	40,496	36,189	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2046	4.50	Fixed Income	56,479	56,747	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2046	3.50	Fixed Income	164,590	156,471	0.014%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2046	3.50	Fixed Income	111,433	106,196	0.009%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2046	2.50	Fixed Income	36,338	39,473	0.003%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2046	3.00	Fixed Income	201,485	185,789	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2046	3.50	Fixed Income	52,596	50,002	0.004%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2048	3.13	Fixed Income	3,200,000	2,695,272	0.238%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2046	3.50	Fixed Income	132,110	125,919	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2046	3.00	Fixed Income	130,466	119,877	0.011%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2046	4.50	Fixed Income	61,969	62,721	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2046	3.50	Fixed Income	40,612	38,609	0.003%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2047	2.50	Fixed Income	337,273	301,596	0.027%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2046	3.50	Fixed Income	9,285	8,827	0.001%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2047	3.50	Fixed Income	109,171	103,937	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2046	3.50	Fixed Income	17,952	17,066	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2046	3.00	Fixed Income	19,817	19,217	0.002%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2047	4.00	Fixed Income	89,190	87,599	0.008%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2047	4.50	Fixed Income	28,833	29,102	0.003%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2047	4.00	Fixed Income	167,385	164,401	0.015%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2047	4.50	Fixed Income	86,348	84,898	0.008%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2047	4.50	Fixed Income	25,773	25,997	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2046	4.00	Fixed Income	37,991	37,334	0.003%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2047	4.00	Fixed Income	49,694	48,714	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2046	4.50	Fixed Income	16,639	16,715	0.001%
JNL Bond Index Fund	Government National Mortgage Association	2/1/2046	4.00	Fixed Income	70,022	68,845	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2047	2.50	Fixed Income	45,900	41,003	0.004%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2047	3.50	Fixed Income	112,064	106,657	0.009%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2047	4.50	Fixed Income	20,982	21,164	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2046	3.00	Fixed Income	104,912	99,573	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2047	3.00	Fixed Income	14,654	13,484	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2046	3.00	Fixed Income	104,377	95,938	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2046	3.50	Fixed Income	24,174	22,982	0.002%
JNL Bond Index Fund	Government National Mortgage Association	7/1/2046	4.50	Fixed Income	132,348	127,446	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2046	3.50	Fixed Income	28,251	26,813	0.002%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2047	4.00	Fixed Income	32,359	31,721	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2047	4.50	Fixed Income	23,584	23,681	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/2/2046	3.00	Fixed Income	75,737	70,892	0.006%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2047	4.50	Fixed Income	20,913	21,082	0.002%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2047	3.50	Fixed Income	158,975	151,304	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2046	2.50	Fixed Income	6,744	6,037	0.001%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2047	3.00	Fixed Income	122,943	113,211	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2046	3.50	Fixed Income	32,337	30,691	0.003%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2047	3.00	Fixed Income	62,450	57,507	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2046	3.00	Fixed Income	28,317	26,019	0.002%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2047	3.50	Fixed Income	238,473	229,892	0.020%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2047	3.00	Fixed Income	74,155	68,286	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2046	3.00	Fixed Income	44,709	41,080	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2047	4.50	Fixed Income	26,705	26,798	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2046	3.00	Fixed Income	42,452	39,980	0.003%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2046	3.00	Fixed Income	194,236	178,731	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2046	3.00	Fixed Income	35,935	32,996	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2047	3.00	Fixed Income	7,124	6,536	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2048	3.50	Fixed Income	39,209	37,292	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2047	4.00	Fixed Income	25,779	25,229	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2048	3.50	Fixed Income	18,100	17,141	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2046	4.50	Fixed Income	4,795	4,812	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2046	3.00	Fixed Income	11,529	10,586	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2046	4.50	Fixed Income	13,121	11,121	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2046	3.00	Fixed Income	41,281	37,904	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2046	3.00	Fixed Income	174,776	160,481	0.014%
JNL Bond Index Fund	Gobierno De La Republica Oriental Del Uruguay	6/18/2050	5.10	Fixed Income	100,000	101,213	0.009%
JNL Bond Index Fund	Memorial Sloan-Kettering Cancer Center	9/1/2052	4.13	Fixed Income	150,000	154,120	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2046	3.00	Fixed Income	193,084	177,293	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2046	3.00	Fixed Income	193,395	177,579	0.016%
JNL Bond Index Fund	Government of the Republic of Panama	4/16/2050	4.50	Fixed Income	600,000	453,393	0.040%
JNL Bond Index Fund	CSX Corporation	9/1/2050	3.95	Fixed Income	800,000	590,080	0.052%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2046	3.00	Fixed Income	120,596	110,658	0.010%
JNL Bond Index Fund	UnitedHealth Group Incorporated	6/15/2048	4.25	Fixed Income	80,000	71,736	0.006%
JNL Bond Index Fund	Kennametal Inc.	6/15/2028	4.63	Fixed Income	100,000	101,661	0.009%
JNL Bond Index Fund	Lockheed Martin Corporation	9/15/2052	4.08	Fixed Income	107,000	93,700	0.008%
JNL Bond Index Fund	Wells Fargo Commercial Mortgage Trust 2018-C44	4/17/2028	4.21	Fixed Income	1,000,000	983,418	0.087%
JNL Bond Index Fund	Amgen Inc.	6/15/2051	4.66	Fixed Income	408,000	378,743	0.034%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.00	Fixed Income	33,867	31,078	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.00	Fixed Income	120,272	110,361	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.00	Fixed Income	67,453	61,894	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.50	Fixed Income	74,089	70,318	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2047	3.00	Fixed Income	205,603	188,660	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2047	4.50	Fixed Income	106,843	107,167	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2047	3.00	Fixed Income	189,619	173,920	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2047	2.50	Fixed Income	10,022	8,942	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2047	4.50	Fixed Income	13,769	13,807	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2047	4.00	Fixed Income	69,491	67,431	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2047	4.00	Fixed Income	73,559	71,788	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.00	Fixed Income	98,432	96,176	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.00	Fixed Income	40,116	39,196	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2047	4.00	Fixed Income	105,019	102,612	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2047	3.13	Fixed Income	144,719	132,120	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2047	3.50	Fixed Income	146,834	139,086	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2047	3.50	Fixed Income	165,041	156,178	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2048	4.00	Fixed Income	90,627	88,437	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.00	Fixed Income	106,949	99,043	0.009%
JNL Bond Index Fund	Gobierno De La Republica Oriental Del Uruguay	4/20/2055	4.98	Fixed Income	100,000	99,479	0.009%
JNL Bond Index Fund	Home Depot, Inc., The	9/15/2056	3.50	Fixed Income	200,000	154,366	0.014%
JNL Bond Index Fund	Memorial Sloan-Kettering Cancer Center	7/1/2055	4.20	Fixed Income	250,000	226,982	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.50	Fixed Income	15,519	15,547	0.001%
JNL Bond Index Fund	New York and Presbyterian Hospital, The	8/1/2056	4.06	Fixed Income	300,000	262,558	0.023%
JNL Bond Index Fund	Oracle Corporation	5/15/2055	4.38	Fixed Income	310,000	269,784	0.024%
JNL Bond Index Fund	Enterprise Products Operating LLC	10/15/2054	4.95	Fixed Income	300,000	291,589	0.026%
JNL Bond Index Fund	Tennessee Valley Authority	4/1/2056	5.38	Fixed Income	300,000	339,932	0.030%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2048	3.50	Fixed Income	124,339	117,602	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2048	3.00	Fixed Income	109,489	100,295	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2048	4.50	Fixed Income	48,151	48,222	0.004%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2028	3.13	Fixed Income	4,085,000	4,061,092	0.359%
JNL Bond Index Fund	MPLX LP	4/15/2058	4.00	Fixed Income	110,000	99,342	0.009%
JNL Bond Index Fund	MPLX LP	2/15/2049	5.50	Fixed Income	80,000	78,543	0.007%
JNL Bond Index Fund	Corning Incorporated	11/15/2057	4.38	Fixed Income	40,000	34,513	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2048	4.50	Fixed Income	40,097	40,187	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2048	3.00	Fixed Income	50,066	48,985	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2048	4.00	Fixed Income	85,079	82,970	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	22,576	22,016	0.002%
JNL Bond Index Fund	Port Authority of New York And New Jersey, The	10/1/2062	4.46	Fixed Income	300,000	283,794	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2033	3.50	Fixed Income	31,953	31,545	0.003%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2048	4.50	Fixed Income	4,344	4,345	0.000%
JNL Bond Index Fund	DuPont de Nemours, Inc.	11/15/2048	5.42	Fixed Income	115,000	129,498	0.011%
JNL Bond Index Fund	DuPont de Nemours, Inc.	11/15/2028	4.73	Fixed Income	200,000	207,534	0.018%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2048	4.00	Fixed Income	40,449	39,451	0.003%
JNL Bond Index Fund	B.A.T Capital Corporation	8/15/2047	4.54	Fixed Income	100,000	85,006	0.008%
JNL Bond Index Fund	B.A.T Capital Corporation	8/15/2037	4.39	Fixed Income	150,000	137,196	0.012%
JNL Bond Index Fund	DuPont de Nemours, Inc.	11/15/2038	5.32	Fixed Income	54,000	59,887	0.005%
JNL Bond Index Fund	Treasury, United States Department of	11/8/2025	2.88	Fixed Income	2,680,000	2,674,080	0.237%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2048	4.50	Fixed Income	2,432	2,432	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.00	Fixed Income	43,769	42,531	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2047	3.00	Fixed Income	75,112	68,906	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2048	4.00	Fixed Income	32,910	32,130	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2048	3.00	Fixed Income	39,885	37,326	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.50	Fixed Income	21,834	21,859	0.002%
JNL Bond Index Fund	UnitedHealth Group Incorporated	12/15/2048	4.45	Fixed Income	60,000	55,440	0.005%
JNL Bond Index Fund	UnitedHealth Group Incorporated	12/15/2028	3.88	Fixed Income	200,000	201,185	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2033	3.50	Fixed Income	10,251	10,116	0.001%
JNL Bond Index Fund	The Republic of Indonesia, The Government of	2/1/2049	5.35	Fixed Income	200,000	212,793	0.019%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/25/2028	3.70	Fixed Income	474,322	464,653	0.041%
JNL Bond Index Fund	MidAmerican Energy Company	12/30/2031	6.75	Fixed Income	50,000	58,562	0.005%
JNL Bond Index Fund	Novartis AG	3/15/2032	7.38	Fixed Income	57,000	66,267	0.006%
JNL Bond Index Fund	Enterprise Products Operating LLC	3/1/2033	6.88	Fixed Income	25,000	28,992	0.003%
JNL Bond Index Fund	Burlington Resources Finance Co	8/15/2031	7.20	Fixed			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	UnitedHealth Group Incorporated	3/15/2036	5.80	Fixed Income	150,000	165,744	0.015%
JNL Bond Index Fund	Massachusetts, Commonwealth of	8/1/2029	4.18	Fixed Income	800,000	311,147	0.028%
JNL Bond Index Fund	Government of the Republic of Panama	1/26/2036	6.70	Fixed Income	400,000	422,879	0.037%
JNL Bond Index Fund	Connecticut, State of	3/15/2032	5.85	Fixed Income	125,000	135,727	0.012%
JNL Bond Index Fund	MetLife, Inc.	6/15/2035	5.70	Fixed Income	100,000	110,610	0.010%
JNL Bond Index Fund	Southern Copper Corporation	7/27/2035	7.50	Fixed Income	150,000	180,465	0.016%
JNL Bond Index Fund	ConocoPhillips	4/15/2039	6.95	Fixed Income	200,000	226,779	0.020%
JNL Bond Index Fund	Progress Energy, Inc.	3/1/2031	7.75	Fixed Income	300,000	353,629	0.031%
JNL Bond Index Fund	America Movil, S.A.B. De C.V.	3/1/2035	6.38	Fixed Income	100,000	112,539	0.010%
JNL Bond Index Fund	Port Authority of New York And New Jersey, The	12/1/2029	6.04	Fixed Income	200,000	223,183	0.020%
JNL Bond Index Fund	Canadian Natural Resources Limited	2/1/2035	5.85	Fixed Income	150,000	158,291	0.014%
JNL Bond Index Fund	Hess Corporation	8/15/2031	7.30	Fixed Income	23,000	26,584	0.002%
JNL Bond Index Fund	TWDC Enterprises 18 Corp.	3/1/2032	7.00	Fixed Income	50,000	58,769	0.005%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2030	8.50	Fixed Income	89	94	0.000%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	8/15/2033	8.30	Fixed Income	300,000	364,347	0.032%
JNL Bond Index Fund	Deutsche Telekom International Finance B.V.	6/15/2030	8.75	Fixed Income	300,000	370,016	0.033%
JNL Bond Index Fund	Berkshire Hathaway Energy Company	4/1/2036	6.13	Fixed Income	400,000	454,580	0.040%
JNL Bond Index Fund	Pfizer Inc.	12/1/2028	6.80	Fixed Income	50,000	55,867	0.005%
JNL Bond Index Fund	Comcast Corporation	11/15/2035	6.50	Fixed Income	100,000	117,219	0.010%
JNL Bond Index Fund	Conoco Funding Company	10/15/2031	7.25	Fixed Income	75,000	89,839	0.008%
JNL Bond Index Fund	Segretariato Generale Della Presidenza Della Repubblica	6/15/2033	5.38	Fixed Income	200,000	209,012	0.018%
JNL Bond Index Fund	Cook, County of	11/15/2034	6.23	Fixed Income	100,000	111,537	0.010%
JNL Bond Index Fund	Cincinnati Financial Corporation	11/1/2034	6.13	Fixed Income	100,000	110,780	0.010%
JNL Bond Index Fund	Southern California Edison Company	1/15/2034	6.00	Fixed Income	75,000	83,308	0.007%
JNL Bond Index Fund	The Philippines, Government of	1/15/2032	6.38	Fixed Income	500,000	564,041	0.050%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2032	6.00	Fixed Income	1,390	1,436	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2047	3.00	Fixed Income	89,283	99,287	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.00	Fixed Income	105,555	96,856	0.009%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2047	4.00	Fixed Income	116,697	114,252	0.010%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2049	4.50	Fixed Income	21,788	21,780	0.002%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2033	5.00	Fixed Income	422	441	0.000%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2033	5.00	Fixed Income	379	387	0.000%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2033	5.00	Fixed Income	305	311	0.000%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2033	5.00	Fixed Income	498	508	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2033	5.00	Fixed Income	351	358	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2047	3.00	Fixed Income	181,917	172,089	0.016%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2047	3.50	Fixed Income	143,376	136,368	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2048	4.00	Fixed Income	91,638	89,366	0.008%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2033	5.00	Fixed Income	274	279	0.000%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2033	5.00	Fixed Income	854	871	0.000%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2033	5.00	Fixed Income	382	390	0.000%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2033	5.50	Fixed Income	2,836	2,922	0.000%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2033	5.00	Fixed Income	204	208	0.000%
JNL Bond Index Fund	Government National Mortgage Association	4/1/2037	5.00	Fixed Income	1,442	1,471	0.000%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2033	5.00	Fixed Income	2,424	2,488	0.000%
JNL Bond Index Fund	Morgan Stanley	8/9/2026	6.25	Fixed Income	200,000	209,135	0.019%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2033	5.00	Fixed Income	396	404	0.000%
JNL Bond Index Fund	Halliburton Company	9/15/2039	7.45	Fixed Income	250,000	309,188	0.027%
JNL Bond Index Fund	Texas, State of	4/1/2039	5.52	Fixed Income	200,000	220,151	0.019%
JNL Bond Index Fund	Home Depot, Inc., The	12/16/2036	5.88	Fixed Income	600,000	681,421	0.060%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	10/1/2037	6.75	Fixed Income	350,000	414,955	0.037%
JNL Bond Index Fund	Puget Sound Energy, Inc.	10/1/2039	5.76	Fixed Income	200,000	222,283	0.020%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2034	6.00	Fixed Income	2,862	2,986	0.000%
JNL Bond Index Fund	Chicago Transit Authority	12/1/2040	6.90	Fixed Income	189,208	220,628	0.020%
JNL Bond Index Fund	MetLife, Inc.	12/15/2036	6.40	Fixed Income	100,000	107,701	0.010%
JNL Bond Index Fund	AstraZeneca PLC	9/15/2037	6.45	Fixed Income	250,000	293,679	0.026%
JNL Bond Index Fund	ONEOK Partners, L.P.	10/1/2036	6.65	Fixed Income	150,000	172,024	0.015%
JNL Bond Index Fund	KW	6/29/2037	7.00	Fixed Income	150,000	90,406	0.008%
JNL Bond Index Fund	Fifth Third Bancorp	3/1/2038	8.25	Fixed Income	300,000	379,857	0.034%
JNL Bond Index Fund	Comcast Corporation	8/15/2037	6.95	Fixed Income	250,000	300,303	0.027%
JNL Bond Index Fund	Municipal Electric Authority of Georgia	4/1/2037	7.00	Fixed Income	187,000	197,000	0.018%
JNL Bond Index Fund	Enbridge Energy Partners, L.P.	4/15/2038	7.50	Fixed Income	200,000	248,533	0.022%
JNL Bond Index Fund	Hastiro, Inc.	3/15/2040	6.35	Fixed Income	300,000	322,769	0.029%
JNL Bond Index Fund	Johnson & Johnson	8/15/2037	5.95	Fixed Income	250,000	290,648	0.026%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2048	5.00	Fixed Income	8,367	8,367	0.000%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2048	5.00	Fixed Income	7,588	7,743	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2049	5.00	Fixed Income	6,904	7,044	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2048	4.00	Fixed Income	67,468	65,775	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2048	4.00	Fixed Income	71,254	69,443	0.006%
JNL Bond Index Fund	Anheuser-Busch InBev Worldwide Inc.	1/23/2059	5.80	Fixed Income	295,000	335,538	0.030%
JNL Bond Index Fund	International Bank for Reconstruction and Development	11/22/2027	2.50	Fixed Income	1,000,000	975,284	0.086%
JNL Bond Index Fund	Anheuser-Busch InBev Worldwide Inc.	1/23/2029	4.75	Fixed Income	280,000	289,607	0.026%
JNL Bond Index Fund	Dallas County Hospital District	8/15/2044	5.62	Fixed Income	300,000	350,102	0.030%
JNL Bond Index Fund	Aetna Inc.	6/15/2036	6.63	Fixed Income	150,000	171,618	0.015%
JNL Bond Index Fund	Burlington Northern Santa Fe, LLC	6/1/2037	6.15	Fixed Income	100,000	116,634	0.010%
JNL Bond Index Fund	New York City Municipal Water Finance Authority	6/15/2042	6.01	Fixed Income	235,000	260,396	0.023%
JNL Bond Index Fund	Alabama Power Company	3/1/2039	6.00	Fixed Income	250,000	278,581	0.025%
JNL Bond Index Fund	Abbott Laboratories	4/1/2039	6.00	Fixed Income	100,000	118,258	0.010%
JNL Bond Index Fund	Energy Transfer LP	7/1/2038	7.50	Fixed Income	200,000	242,269	0.021%
JNL Bond Index Fund	California, State of	4/1/2039	7.55	Fixed Income	300,000	388,392	0.034%
JNL Bond Index Fund	United Parcel Service, Inc.	1/15/2038	7.20	Fixed Income	350,000	454,499	0.040%
JNL Bond Index Fund	Berdorff International B.V.	7/15/2038	6.75	Fixed Income	150,000	176,182	0.016%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2035	5.00	Fixed Income	4,881	4,986	0.000%
JNL Bond Index Fund	Hartford Financial Services Group, Inc., The	10/1/2041	6.10	Fixed Income	75,000	84,115	0.007%
JNL Bond Index Fund	Wynn LLC	4/1/2037	5.95	Fixed Income	250,000	284,822	0.025%
JNL Bond Index Fund	Canadian Natural Resources Limited	3/15/2039	6.25	Fixed Income	150,000	181,874	0.016%
JNL Bond Index Fund	PHLBanks Office of Finance	7/15/2036	5.50	Fixed Income	400,000	459,327	0.041%
JNL Bond Index Fund	Enterprise Products Operating LLC	9/1/2040	6.45	Fixed Income	100,000	113,609	0.010%
JNL Bond Index Fund	Spectrum Management Holding Company, LLC	6/15/2039	6.75	Fixed Income	300,000	305,756	0.027%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2035	5.405	Fixed Income	1,206	1,206	0.000%
JNL Bond Index Fund	Tennessee Valley Authority	9/15/2039	5.25	Fixed Income	200,000	218,226	0.019%
JNL Bond Index Fund	Southern California Edison Company	2/1/2038	5.95	Fixed Income	100,000	110,417	0.010%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2026	5.00	Fixed Income	708	711	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2028	6.50	Fixed Income	11,324	11,324	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2028	6.00	Fixed Income	1,327	1,375	0.000%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2048	4.00	Fixed Income	5,397	5,280	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2029	6.00	Fixed Income	184	189	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2029	6.00	Fixed Income	430	441	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2029	6.50	Fixed Income	521	540	0.000%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2047	3.50	Fixed Income	138,380	131,703	0.012%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2048	4.00	Fixed Income	15,816	15,474	0.001%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2035	5.50	Fixed Income	3,570	3,650	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2029	6.00	Fixed Income	333	342	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/15/2029	6.75	Fixed Income	60,000	68,872	0.006%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2035	5.50	Fixed Income	6,183	6,390	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/15/2031	6.75	Fixed Income	120,000	140,764	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2033	6.00	Fixed Income	1,302	1,441	0.000%
JNL Bond Index Fund	Government National Mortgage Association	2/15/2036	6.00	Fixed Income	4,043	4,229	0.000%
JNL Bond Index Fund	Government National Mortgage Association	2/15/2036	5.50	Fixed Income	10,404	10,759	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2032	6.00	Fixed Income	149	155	0.000%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2036	5.25	Fixed Income	1,092	1,125	0.000%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2036	5.50	Fixed Income	2,082	2,155	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2032	6.00	Fixed Income	1,297	1,346	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2036	5.50	Fixed Income	4,583	4,718	0.000%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2038	5.50	Fixed Income	7,963	8,262	0.001%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2038	5.50	Fixed Income	1,651	1,716	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/15/2032	6.25	Fixed Income	605,000	711,406	0.063%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2038	5.50	Fixed Income	69	70	0.000%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2038	5.50	Fixed Income	3,793	3,937	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2032	5.50	Fixed Income	11,096	11,534	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2047	4.00	Fixed Income	124,605	121,727	0.011%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2038	5.50	Fixed Income	438	455	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2032	6.00	Fixed Income	919	958	0.000%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2038	6.50	Fixed Income	2,792	2,964	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2032	6.00	Fixed Income	155	161	0.000%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2038	5.50	Fixed Income	2,726	2,829	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2035	6.00	Fixed Income	141	147	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2033	6.00	Fixed Income	118	122	0.000%
JNL Bond Index Fund	Government National Mortgage Association	4/15/2039	4.50	Fixed Income	12,866	12,966	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2033	5.50	Fixed Income	1,695	1,757	0.000%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2039	4.50	Fixed Income	13,606	13,709	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/20/2033	5.50	Fixed Income	563	575	0.000%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2039	4.50	Fixed Income	1,216	1,226	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2033	6.00	Fixed Income	396	413	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2039	4.50	Fixed Income	32,580	32,832	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2033	6.00	Fixed Income	464	464	0.000%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2039	5.50	Fixed Income	8,567	8,890	0.001%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2039	4.50	Fixed Income	5,316	5,357	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2033	4.50	Fixed Income	4,315	4,489	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2033	3.802	Fixed Income	3,062	3,200	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2033	4.50	Fixed Income	138	140	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2033	5.50	Fixed Income	9,541	9,932	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2033	5.50	Fixed Income	9,769	10,157	0.001%
JNL Bond Index Fund	F						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Equitable Holdings, Inc.	4/20/2048	5.00	Fixed Income	68,000	66,721	0.069%
JNL Bond Index Fund	Equitable Holdings, Inc.	4/20/2028	4.35	Fixed Income	89,000	86,240	0.086%
JNL Bond Index Fund	Wells Fargo & Company	1/24/2029	4.15	Fixed Income	130,000	130,592	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2035	5.00	Fixed Income	6,480	6,660	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/15/2030	7.25	Fixed Income	540,000	652,138	0.058%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2035	5.50	Fixed Income	5,624	5,624	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2047	3.50	Fixed Income	108,800	103,050	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2035	6.00	Fixed Income	106	111	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2035	5.00	Fixed Income	5,128	5,274	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/15/2030	6.63	Fixed Income	631,000	745,112	0.066%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2035	5.00	Fixed Income	19,161	19,711	0.002%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2026	6.50	Fixed Income	465,000	504,752	0.045%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2035	5.00	Fixed Income	32,276	33,180	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2035	5.50	Fixed Income	12,217	12,769	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2038	5.50	Fixed Income	1,743	1,828	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2036	6.00	Fixed Income	3,401	3,579	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2036	5.00	Fixed Income	386	396	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2036	5.00	Fixed Income	5,269	5,423	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2031	6.00	Fixed Income	37	38	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2036	5.00	Fixed Income	11,209	11,529	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2032	5.50	Fixed Income	2,862	2,955	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2036	6.50	Fixed Income	6,559	6,956	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2032	6.50	Fixed Income	1,109	1,156	0.000%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2031	5.38	Fixed Income	200,000	221,185	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2036	6.00	Fixed Income	974	1,027	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2036	6.00	Fixed Income	3,288	3,469	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2036	5.50	Fixed Income	12,883	13,491	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2037	6.00	Fixed Income	12,281	12,955	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2033	6.00	Fixed Income	1,685	1,742	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2033	5.50	Fixed Income	24,685	25,621	0.002%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2039	3.50	Fixed Income	2,460,000	2,357,606	0.209%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2037	5.50	Fixed Income	17,291	18,150	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2033	5.00	Fixed Income	32,201	32,976	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2037	6.00	Fixed Income	3,839	4,051	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2033	5.50	Fixed Income	24,073	24,986	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2039	6.00	Fixed Income	3,546	3,734	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2037	6.50	Fixed Income	6,094	6,482	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2033	5.50	Fixed Income	5,889	6,116	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2038	5.50	Fixed Income	1,038	1,087	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2039	6.00	Fixed Income	797	798	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2038	6.00	Fixed Income	2,717	2,870	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2033	4.50	Fixed Income	3,874	3,912	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2038	5.00	Fixed Income	3,733	3,851	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2033	4.50	Fixed Income	2,136	2,136	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2038	5.50	Fixed Income	10,359	10,856	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2033	6.00	Fixed Income	10,362	10,840	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2038	5.50	Fixed Income	4,316	4,531	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2033	6.00	Fixed Income	3,228	3,464	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2038	6.00	Fixed Income	6,042	6,384	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2034	5.50	Fixed Income	3,394	3,527	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2038	6.00	Fixed Income	5,022	5,311	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2034	5.00	Fixed Income	5,105	5,231	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2034	5.00	Fixed Income	2,215	2,272	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2038	6.00	Fixed Income	267	283	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2034	5.00	Fixed Income	39,634	40,633	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2038	5.50	Fixed Income	593	621	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2038	5.50	Fixed Income	6,255	6,549	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2034	5.00	Fixed Income	9,737	9,980	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2039	5.00	Fixed Income	39,848	41,085	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2034	6.50	Fixed Income	30,249	31,794	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2039	6.00	Fixed Income	1,737	1,794	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2039	6.00	Fixed Income	4,747	5,015	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2034	6.00	Fixed Income	8,185	8,578	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2039	6.00	Fixed Income	3,144	3,321	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2039	6.00	Fixed Income	24,842	25,598	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2035	5.50	Fixed Income	28,224	29,413	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2039	4.50	Fixed Income	50,384	51,056	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2035	5.50	Fixed Income	53,495	55,760	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2039	4.50	Fixed Income	29,573	30,029	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2035	5.00	Fixed Income	3,972	4,079	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2035	5.50	Fixed Income	8,458	8,832	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2035	5.00	Fixed Income	10,652	10,943	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2035	4.50	Fixed Income	9,499	9,663	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2035	5.00	Fixed Income	20,923	21,484	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.00	Fixed Income	1,344	1,380	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2024	4.50	Fixed Income	9	9	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.00	Fixed Income	16,461	16,839	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2024	4.00	Fixed Income	73	73	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.00	Fixed Income	12,648	12,994	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2025	4.00	Fixed Income	249	249	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2035	7.00	Fixed Income	109	117	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2035	5.50	Fixed Income	2,166	2,249	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2036	6.00	Fixed Income	6,347	6,674	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2036	6.50	Fixed Income	5,469	5,800	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2036	6.00	Fixed Income	10,140	10,682	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2036	6.50	Fixed Income	7,309	7,626	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2036	5.50	Fixed Income	4,078	4,262	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2036	6.00	Fixed Income	11,623	12,234	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2036	6.00	Fixed Income	18,648	19,661	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2037	5.50	Fixed Income	668	698	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2037	5.50	Fixed Income	6,045	6,332	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2037	6.00	Fixed Income	10,725	11,274	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2037	6.50	Fixed Income	1,710	1,815	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2037	5.50	Fixed Income	2,622	2,741	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2037	7.00	Fixed Income	1,471	1,589	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	7.00	Fixed Income	3,303	3,550	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	5.00	Fixed Income	14,099	14,509	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	6.50	Fixed Income	23	24	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2037	5.50	Fixed Income	2,085	2,179	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2037	5.50	Fixed Income	756	791	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2037	6.00	Fixed Income	4,151	4,285	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2037	6.50	Fixed Income	2,646	2,814	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2037	6.00	Fixed Income	10,336	10,901	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2037	5.50	Fixed Income	1,531	1,602	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2037	6.00	Fixed Income	7,753	8,152	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2038	6.00	Fixed Income	6,590	6,949	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2038	7.00	Fixed Income	4,805	5,181	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2038	6.00	Fixed Income	18,600	19,629	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2038	6.00	Fixed Income	6,986	7,361	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2038	5.50	Fixed Income	493	516	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2038	4.50	Fixed Income	5,509	5,567	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2038	6.00	Fixed Income	12,201	12,861	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2038	6.50	Fixed Income	1,880	1,995	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2038	5.50	Fixed Income	3,680	3,856	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2039	4.50	Fixed Income	3,697	3,762	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2039	4.50	Fixed Income	18,403	18,626	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2039	4.50	Fixed Income	567	574	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.50	Fixed Income	16,585	16,786	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.00	Fixed Income	41,716	41,514	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.00	Fixed Income	24,723	24,454	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2039	6.00	Fixed Income	2,735	2,883	0.000%
JNL Bond Index Fund	Halliburton Company	11/15/2025	3.80	Fixed Income	58,000	58,447	0.005%
JNL Bond Index Fund	Simon Property Group, L.P.	11/15/2026	3.30	Fixed Income	250,000	249,923	0.002%
JNL Bond Index Fund	Hewlett Packard Enterprise Company	10/15/2025	4.90	Fixed Income	180,000	184,202	0.016%
JNL Bond Index Fund	AstraZeneca PLC	11/16/2025	3.38	Fixed Income	115,000	115,554	0.010%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	10/21/2025	4.25	Fixed Income	500,000	507,506	0.045%
JNL Bond Index Fund	The Republic of Korea, Government of	11/16/2025	5.63	Fixed Income	250,000	250,293	0.023%
JNL Bond Index Fund	International Business Machines Corporation	10/30/2025	7.00	Fixed Income	200,000	212,091	0.019%
JNL Bond Index Fund	TransCanada Pipelines Limited	1/15/2026	4.88	Fixed Income	350,000	354,945	0.031%
JNL Bond Index Fund	Oncof Electric Delivery Company LLC	3/15/2029	5.75	Fixed Income	150,000	159,467	0.014%
JNL Bond Index Fund	GE Capital International Funding Company Unlimited Company	11/15/2025	3.37	Fixed Income	250,000	249,874	0.022%
JNL Bond Index Fund	Lloyds Bank Corporation	1/15/2026	3.55	Fixed Income	100,000	100,846	0.009%
JNL Bond Index Fund	Visa Inc.	12/14/2025	3.15	Fixed Income	305,000	304,671	0.027%
JNL Bond Index Fund	Devon Energy Corporation	12/15/2025	5.85	Fixed Income	57,000	58,527	0.005%
JNL Bond Index Fund	Microsoft Corporation	11/30/2025	3.13	Fixed Income	680,000	682,192	0.060%
JNL Bond Index Fund	Energy Transfer LP	11/15/2026	4.75	Fixed Income	350,000	354,078	0.031%
JNL Bond Index Fund	Capital One Financial Corporation	10/29/2025	4.20	Fixed Income	500,000	505,925	0.045%
JNL Bond Index Fund	Northern Trust Corporation	10/30/2025	3.95	Fixed Income	250,000	252,686	0.022%
JNL Bond Index Fund	PNC Bank, National Association	11/1/2025	4.20	Fixed Income	300,000	304,219	0.027%
JNL Bond Index Fund	McDonald's Corporation	1/30/2026	3.70	Fixed Income	175,000	175,040	0.015%
JNL Bond Index Fund	Marsh & McLennan Companies, Inc.	3/15/2049	4.90	Fixed Income	65,000	62,680	0.006%
JNL Bond Index Fund	Anheuser-Busch InBev Worldwide Inc.	1/23/2039	5.45	Fixed Income	500,000	540,461	0.048%
JNL Bond Index Fund	Applied Materials, Inc.	10/1/2025	3.90	Fixed Income	350,000	355,598	0.031%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2025	4.00	Fixed Income	903	903	0.000%
JNL Bond Index Fund	Enterprise Products Operating LLC	2/15/2026	3.70	Fixed Income	350,000	34	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2025	3.50	Fixed Income	2,221	2,211	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2025	3.50	Fixed Income	2,273	2,263	0.000%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2026	1.63	Fixed Income	2,180,300	2,121,119	0.188%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2025	3.50	Fixed Income	4,684	4,662	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2025	3.50	Fixed Income	2,301	2,290	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2026	3.50	Fixed Income	3,009	2,993	0.000%
JNL Bond Index Fund	Gilead Sciences, Inc.	3/1/2026	3.65	Fixed Income	300,000	298,503	0.026%
JNL Bond Index Fund	PepsiCo, Inc.	10/15/2027	3.00	Fixed Income	500,000	495,667	0.044%
JNL Bond Index Fund	Crown Castle Inc.	6/15/2026	3.70	Fixed Income	140,000	139,973	0.012%
JNL Bond Index Fund	FedEx Corporation	4/1/2026	3.25	Fixed Income	300,000	300,637	0.027%
JNL Bond Index Fund	Marriott International, Inc.	9/15/2026	3.13	Fixed Income	500,000	494,471	0.044%
JNL Bond Index Fund	Shire Acquisitions Investments Ireland Designated Activity Company	9/23/2026	3.20	Fixed Income	12,000	11,823	0.001%
JNL Bond Index Fund	Home Depot, Inc., The	4/1/2026	3.00	Fixed Income	500,000	500,466	0.044%
JNL Bond Index Fund	Cisco Systems, Inc.	9/20/2026	2.50	Fixed Income	400,000	391,090	0.035%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2026	2.40	Fixed Income	2,420	2,420	0.000%
JNL Bond Index Fund	Archer-Daniels-Midland Company	8/1/2026	2.50	Fixed Income	300,000	292,878	0.026%
JNL Bond Index Fund	Stryker Corporation	3/15/2026	3.50	Fixed Income	250,000	247,720	0.022%
JNL Bond Index Fund	Discover Bank	3/13/2026	4.25	Fixed Income	200,000	199,647	0.018%
JNL Bond Index Fund	Dominion Energy, Inc.	8/15/2026	2.85	Fixed Income	350,000	342,181	0.030%
JNL Bond Index Fund	Johnson & Johnson	3/1/2026	2.45	Fixed Income	350,000	344,012	0.030%
JNL Bond Index Fund	Westpac Banking Corporation	8/19/2026	2.70	Fixed Income	250,000	245,219	0.022%
JNL Bond Index Fund	Pfizer Inc.	6/3/2026	2.75	Fixed Income	475,000	470,220	0.042%
JNL Bond Index Fund	Alphabet Inc.	8/15/2026	2.00	Fixed Income	300,000	291,596	0.026%
JNL Bond Index Fund	AbbVie Inc.	5/14/2026	3.20	Fixed Income	200,000	199,895	0.018%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2026	3.50	Fixed Income	5,439	5,407	0.000%
JNL Bond Index Fund	Apple Inc.	8/4/2026	2.45	Fixed Income	320,000	313,851	0.028%
JNL Bond Index Fund	Westpac Banking Corporation	5/13/2026	2.95	Fixed Income	90,000	89,383	0.008%
JNL Bond Index Fund	Molson Coors Beverage Company	7/15/2026	3.00	Fixed Income	500,000	494,216	0.044%
JNL Bond Index Fund	CVS Health Corporation	6/1/2026	2.88	Fixed Income	200,000	197,031	0.017%
JNL Bond Index Fund	SG Commercial Mortgage Securities Trust 2016-CS	6/12/2026	3.06	Fixed Income	1,000,000	963,201	0.085%
JNL Bond Index Fund	Exxon Mobil Corporation	3/1/2026	3.04	Fixed Income	315,000	312,018	0.028%
JNL Bond Index Fund	Oracle Corporation	7/15/2026	2.65	Fixed Income	500,000	488,348	0.043%
JNL Bond Index Fund	GLP Financing, LLC	4/15/2026	5.38	Fixed Income	150,000	154,210	0.014%
JNL Bond Index Fund	Berkshire Hathaway Inc.	3/15/2026	3.13	Fixed Income	220,000	217,652	0.019%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2026	1.63	Fixed Income	2,000,000	1,946,026	0.172%
JNL Bond Index Fund	United Airlines 2014-2 Pass-Through Trust	9/1/2026	3.20	Fixed Income	99,822	97,721	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2026	4.00	Fixed Income	2,074	2,070	0.000%
JNL Bond Index Fund	Amgen Inc.	8/19/2026	2.60	Fixed Income	180,000	175,678	0.016%
JNL Bond Index Fund	Wells Fargo & Company	4/22/2026	3.00	Fixed Income	1,100,000	1,095,484	0.097%
JNL Bond Index Fund	Chevron Corporation	5/16/2026	2.57	Fixed Income	110,000	109,368	0.010%
JNL Bond Index Fund	Morgan Stanley	9/8/2026	4.35	Fixed Income	300,000	301,624	0.027%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2026	1.50	Fixed Income	3,085,000	2,969,920	0.263%
JNL Bond Index Fund	Wells Fargo & Company	6/3/2026	4.10	Fixed Income	200,000	202,181	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/15/2026	3.50	Fixed Income	11,680	11,608	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2024	4.50	Fixed Income	213	213	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2026	3.50	Fixed Income	419	417	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2026	4.00	Fixed Income	4,467	4,458	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2026	3.50	Fixed Income	1,926	1,913	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2026	3.50	Fixed Income	4,232	4,205	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2026	3.50	Fixed Income	4,519	4,491	0.000%
JNL Bond Index Fund	Gilead Sciences, Inc.	3/1/2027	2.95	Fixed Income	550,000	537,679	0.048%
JNL Bond Index Fund	The Sherrin-Williams Company	8/1/2027	3.45	Fixed Income	350,000	348,427	0.031%
JNL Bond Index Fund	Snap-on Incorporated	3/1/2027	3.25	Fixed Income	250,000	246,468	0.022%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	1/26/2027	3.85	Fixed Income	110,000	109,792	0.010%
JNL Bond Index Fund	RTX Corporation	5/4/2027	3.13	Fixed Income	400,000	395,274	0.035%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/29/2027	8.00	Fixed Income	200,000	226,050	0.020%
JNL Bond Index Fund	U.S. Bancorp	4/27/2026	3.15	Fixed Income	500,000	497,378	0.044%
JNL Bond Index Fund	Morgan Stanley Capital I Trust 2017-H1	3/1/2027	3.26	Fixed Income	500,000	489,429	0.043%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2027	3.00	Fixed Income	8,815	8,715	0.001%
JNL Bond Index Fund	AutoZone, Inc.	6/1/2027	3.75	Fixed Income	200,000	200,232	0.018%
JNL Bond Index Fund	Cloripac Inc.	10/21/2026	3.20	Fixed Income	300,000	274,731	0.089%
JNL Bond Index Fund	ORX Corporation	7/18/2027	3.70	Fixed Income	200,000	198,070	0.018%
JNL Bond Index Fund	Realty Income Corporation	10/15/2026	4.13	Fixed Income	250,000	254,461	0.023%
JNL Bond Index Fund	Costco Wholesale Corporation	5/18/2027	3.00	Fixed Income	80,000	79,517	0.007%
JNL Bond Index Fund	CFRE 2017-23 Mortgage Trust	5/17/2027	3.50	Fixed Income	150,000	149,386	0.014%
JNL Bond Index Fund	Cardinal Health, Inc.	6/15/2027	3.41	Fixed Income	200,000	198,016	0.018%
JNL Bond Index Fund	Intel Corporation	5/11/2027	3.15	Fixed Income	150,000	146,896	0.013%
JNL Bond Index Fund	Apple Inc.	2/9/2027	3.35	Fixed Income	400,000	398,230	0.035%
JNL Bond Index Fund	Government National Mortgage Association	4/15/2027	3.00	Fixed Income	10,259	10,240	0.001%
JNL Bond Index Fund	Kroger Co., The	1/15/2029	4.50	Fixed Income	300,000	306,041	0.027%
JNL Bond Index Fund	Sabine Pass Liquefaction, LLC	3/15/2027	5.00	Fixed Income	100,000	101,480	0.009%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2026	2.00	Fixed Income	760,000	740,329	0.065%
JNL Bond Index Fund	Apple Inc.	5/11/2027	3.15	Fixed Income	150,000	149,386	0.013%
JNL Bond Index Fund	Public Service Electric And Gas Company	5/15/2026	3.00	Fixed Income	200,000	196,846	0.017%
JNL Bond Index Fund	NSTAR Electric Company	5/15/2027	3.20	Fixed Income	200,000	197,527	0.017%
JNL Bond Index Fund	Williams Partners LP.	6/15/2027	3.75	Fixed Income	300,000	298,991	0.026%
JNL Bond Index Fund	Morgan Stanley	1/20/2027	3.65	Fixed Income	600,000	598,860	0.052%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/25/2026	3.41	Fixed Income	500,000	493,094	0.044%
JNL Bond Index Fund	The PNC Financial Services Group, Inc.	5/19/2027	3.15	Fixed Income	400,000	394,358	0.035%
JNL Bond Index Fund	ONEOK, Inc.	7/13/2027	4.00	Fixed Income	200,000	200,287	0.018%
JNL Bond Index Fund	Becton, Dickinson and Company	8/6/2027	3.50	Fixed Income	300,000	299,734	0.027%
JNL Bond Index Fund	Wells Fargo & Company	10/23/2026	3.00	Fixed Income	500,000	495,477	0.044%
JNL Bond Index Fund	Sumitomo Mitsui Financial Group, Inc.	1/11/2027	3.45	Fixed Income	150,000	148,721	0.013%
JNL Bond Index Fund	NSource Finance Corp.	5/15/2027	3.49	Fixed Income	200,000	199,104	0.018%
JNL Bond Index Fund	Japan Bank For International Cooperation	11/4/2026	2.25	Fixed Income	400,000	390,523	0.035%
JNL Bond Index Fund	Verizon Communications Inc.	10/21/2026	4.13	Fixed Income	300,000	300,124	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2027	3.00	Fixed Income	26,957	26,649	0.002%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2027	2.25	Fixed Income	1,950,000	1,895,580	0.168%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2027	3.00	Fixed Income	43,226	42,718	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2027	3.15	Fixed Income	11,682	11,602	0.001%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2027	2.38	Fixed Income	1,505,000	1,472,646	0.130%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2027	3.00	Fixed Income	55,042	54,363	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.00	Fixed Income	30,350	1,347	0.000%
JNL Bond Index Fund	Church & Dwight Co., Inc.	8/1/2027	3.15	Fixed Income	200,000	197,543	0.017%
JNL Bond Index Fund	National Fuel Gas Company	9/15/2027	3.95	Fixed Income	301,000	296,076	0.026%
JNL Bond Index Fund	Crown Castle Inc.	9/1/2027	3.65	Fixed Income	80,000	78,695	0.007%
JNL Bond Index Fund	Sumitomo Mitsui Financial Group, Inc.	1/1/2028	3.54	Fixed Income	200,000	196,885	0.017%
JNL Bond Index Fund	AerCap Ireland Capital Designated Activity Company	1/23/2028	3.98	Fixed Income	300,000	297,705	0.026%
JNL Bond Index Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/25/2027	4.13	Fixed Income	500,000	498,949	0.044%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	10/12/2110	5.75	Fixed Income	100,000	89,818	0.008%
JNL Bond Index Fund	Martin Marietta Materials, Inc.	12/15/2027	3.50	Fixed Income	300,000	297,163	0.026%
JNL Bond Index Fund	Gobierno De La Republica Oriental Del Uruguay	10/1/2027	4.38	Fixed Income	190,000	194,891	0.017%
JNL Bond Index Fund	Canadian Pacific Kansas City Limited	9/15/2115	6.13	Fixed Income	90,000	95,382	0.009%
JNL Bond Index Fund	Asian Development Bank	8/10/2027	2.38	Fixed Income	300,000	290,651	0.026%
JNL Bond Index Fund	Southern California, University of	10/1/2111	5.25	Fixed Income	20,000	21,607	0.002%
JNL Bond Index Fund	Stone Capital LLC	3/15/2028	4.50	Fixed Income	200,000	196,570	0.017%
JNL Bond Index Fund	The J. M. Smucker Company	3/15/2027	3.38	Fixed Income	250,000	246,624	0.022%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2027	2.50	Fixed Income	7,616	7,482	0.001%
JNL Bond Index Fund	Brookfield Financial, Inc.	1/25/2028	3.90	Fixed Income	150,000	149,152	0.013%
JNL Bond Index Fund	Asian Development Bank	11/9/2028	2.75	Fixed Income	400,000	391,584	0.035%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2027	3.00	Fixed Income	30,965	30,553	0.003%
JNL Bond Index Fund	Banco Santander, S.A.	2/23/2028	3.80	Fixed Income	400,000	391,686	0.035%
JNL Bond Index Fund	Sabine Pass Liquefaction, LLC	3/15/2028	4.20	Fixed Income	300,000	298,948	0.026%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/1/2028	3.75	Fixed Income	400,000	393,488	0.035%
JNL Bond Index Fund	EverSource Energy	1/15/2028	3.30	Fixed Income	200,000	194,564	0.017%
JNL Bond Index Fund	Mizuho Financial Group, Inc.	3/5/2028	4.02	Fixed Income	500,000	497,088	0.044%
JNL Bond Index Fund	CVS Health Corporation	3/25/2028	4.30	Fixed Income	620,000	618,815	0.055%
JNL Bond Index Fund	Massachusetts Institute of Technology	7/1/2114	4.68	Fixed Income	250,000	240,338	0.021%
JNL Bond Index Fund	Broadcom Corporation	1/15/2028	3.50	Fixed Income	300,000	295,270	0.026%
JNL Bond Index Fund	Apple Inc.	11/13/2027	3.00	Fixed Income	620,000	614,278	0.054%
JNL Bond Index Fund	Oracle Corporation	11/15/2027	3.25	Fixed Income	210,000	206,903	0.018%
JNL Bond Index Fund	CSX Corporation	3/1/2028	3.80	Fixed Income	300,000	298,834	0.026%
JNL Bond Index Fund	Amazon.com, Inc.	8/22/2027	3.15	Fixed Income	740,000	728,905	0.064%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2027	2.50	Fixed Income	5,155	8,005	0.001%
JNL Bond Index Fund	BP Capital Markets P.L.C.	9/19/2027	3.28	Fixed Income	90,000	88,285	0.008%
JNL Bond Index Fund	Cloripac Inc.	11/0/2028	3.89	Fixed Income	160,000	159,781	0.014%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2028	2.63	Fixed Income	5,175,000	4,993,436	0.442%
JNL Bond Index Fund	Allegion US Holding Company Inc.	10/1/2027	3.55	Fixed Income	300,000	298,524	0.026%
JNL Bond Index Fund	California, State of	4/1/2028	3.50	Fixed Income	80,000	80,753	0.007%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2028	2.50	Fixed Income	10,445	10,242	0.001%
JNL Bond Index Fund	Northrup Grumman Corporation	3/15/2028	3.55	Fixed Income	150,000	146,809	0.013%
JNL Bond Index Fund	Discovery Communications, LLC	3/20/2028	3.38	Fixed Income	105,000	100,284	0.009%
JNL Bond Index Fund	Baker Hughes Holdings LLC	12/15/2027	3.34	Fixed Income	400,000	394,350	0.035%
JNL Bond Index Fund	Campbell Soup Company	3/15/2028	4.15	Fixed Income	300,000	300,690	0.027%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2027	2.50	Fixed Income	33,781	33,126	0.003%
JNL Bond Index Fund	Government National Mortgage Association	1/15/2028	2.50	Fixed Income	8,656	8,489	0.001%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2027	2.25	Fixed Income	1,020,000	988,825	0.087%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2027	2.50	Fixed Income	45,966	45,054	0.004%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2028	2.75	Fixed Income	2,020,000	1,973,754	0.175%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2027	2.50	Fixed Income	19,748	19,314	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2028	2.50	Fixed Income	49,854	48,	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2025	3.50	Fixed Income	4,076	4,054	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2025	3.50	Fixed Income	4,148	4,124	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2026	3.50	Fixed Income	13,160	13,076	0.01%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2026	3.50	Fixed Income	2,092	2,079	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2026	3.50	Fixed Income	4,879	4,849	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2026	3.50	Fixed Income	16,336	16,232	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2026	3.50	Fixed Income	7,827	7,874	0.001%
JNL Bond Index Fund	General Mills, Inc.	4/1/2028	4.20	Fixed Income	105,000	107,074	0.009%
JNL Bond Index Fund	Dollar Tree, Inc.	5/15/2028	4.20	Fixed Income	90,000	90,151	0.008%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2028	2.50	Fixed Income	27,013	26,438	0.022%
JNL Bond Index Fund	Alexandria Real Estate Equities, Inc.	7/20/2029	4.50	Fixed Income	260,000	251,711	0.022%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2028	3.50	Fixed Income	4,517	4,478	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/25/2028	3.92	Fixed Income	750,000	752,401	0.067%
JNL Bond Index Fund	Berkshire Hathaway Energy Company	4/15/2028	3.25	Fixed Income	200,000	197,646	0.017%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2029	3.00	Fixed Income	9,647	9,607	0.001%
JNL Bond Index Fund	Union Pacific Corporation	9/10/2028	3.95	Fixed Income	300,520	300,520	0.027%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2028	2.88	Fixed Income	2,315,000	2,284,435	0.202%
JNL Bond Index Fund	GlaxoSmithKline Capital Inc.	5/15/2028	3.88	Fixed Income	120,000	121,241	0.011%
JNL Bond Index Fund	Asian Development Bank	10/1/2028	6.38	Fixed Income	210,000	213,492	0.021%
JNL Bond Index Fund	Enable Midstream Partners, LP	5/15/2028	4.95	Fixed Income	300,000	310,114	0.027%
JNL Bond Index Fund	Energy Transfer LP	6/15/2028	4.95	Fixed Income	300,000	308,948	0.027%
JNL Bond Index Fund	GLP Financing, LLC	6/1/2028	5.75	Fixed Income	300,000	314,229	0.028%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2028	2.50	Fixed Income	30,636	29,921	0.003%
JNL Bond Index Fund	JPMorgan Chase & Co.	5/1/2028	3.54	Fixed Income	300,000	299,159	0.026%
JNL Bond Index Fund	JPMorgan Chase & Co.	1/23/2029	3.51	Fixed Income	200,000	196,732	0.017%
JNL Bond Index Fund	Wells Fargo & Company	5/22/2028	3.58	Fixed Income	250,000	248,205	0.022%
JNL Bond Index Fund	Bank of America Corporation	7/21/2028	3.59	Fixed Income	750,000	741,649	0.066%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2028	3.00	Fixed Income	17,097	16,842	0.001%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/23/2029	4.01	Fixed Income	150,000	151,178	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2028	2.50	Fixed Income	40,448	39,478	0.003%
JNL Bond Index Fund	Citigroup Inc.	7/24/2028	3.67	Fixed Income	450,000	445,053	0.038%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2028	5.50	Fixed Income	1,181	1,203	0.000%
JNL Bond Index Fund	Citigroup Inc.	7/25/2028	4.13	Fixed Income	250,000	249,578	0.022%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2029	2.50	Fixed Income	16,097	15,696	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2048	5.00	Fixed Income	13,770	14,075	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/20/2030	3.00	Fixed Income	26,304	26,304	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2028	2.50	Fixed Income	12,729	12,420	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2029	2.00	Fixed Income	70,610	68,526	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2029	3.00	Fixed Income	3,597	3,540	0.000%
JNL Bond Index Fund	Bank of America Corporation	3/5/2029	3.97	Fixed Income	150,000	148,577	0.013%
JNL Bond Index Fund	Goldman Sachs Group, Inc., The	4/23/2029	3.81	Fixed Income	150,000	149,688	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2029	3.50	Fixed Income	7,971	7,907	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2029	3.00	Fixed Income	17,164	16,887	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2029	3.50	Fixed Income	15,556	15,556	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2029	3.50	Fixed Income	17,311	17,175	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2029	3.00	Fixed Income	16,099	15,835	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.50	Fixed Income	1,822	1,834	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2026	4.00	Fixed Income	1,600	1,586	0.000%
JNL Bond Index Fund	Citigroup Inc.	4/23/2029	4.08	Fixed Income	115,000	115,942	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2026	4.00	Fixed Income	6,029	6,012	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2026	4.00	Fixed Income	6,139	6,121	0.001%
JNL Bond Index Fund	Altria Group, Inc.	2/14/2049	5.95	Fixed Income	400,000	421,393	0.037%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.00	Fixed Income	91,929	84,239	0.007%
JNL Bond Index Fund	Altria Group, Inc.	2/14/2029	4.80	Fixed Income	180,000	183,271	0.016%
JNL Bond Index Fund	Altria Group, Inc.	2/14/2039	5.80	Fixed Income	110,000	116,566	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2026	2.196	Fixed Income	2,196	2,180	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2026	4.00	Fixed Income	2,065	2,058	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2026	3.50	Fixed Income	3,553	3,527	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2026	3.50	Fixed Income	14,537	14,428	0.001%
JNL Bond Index Fund	Jefferson Group LLC	12/3/2030	4.15	Fixed Income	150,000	147,538	0.013%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2030	3.00	Fixed Income	23,101	22,900	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2026	3.00	Fixed Income	18,926	18,700	0.002%
JNL Bond Index Fund	The Philippines, Government of	2/2/2030	9.50	Fixed Income	400,000	504,148	0.045%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2026	3.00	Fixed Income	22,166	21,906	0.002%
JNL Bond Index Fund	AT&T Inc.	3/1/2029	4.35	Fixed Income	150,000	156,324	0.014%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2029	3.00	Fixed Income	6,574	6,463	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2026	3.50	Fixed Income	6,872	6,820	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2029	3.00	Fixed Income	7,125	7,007	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2026	3.00	Fixed Income	12,281	12,134	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2029	3.00	Fixed Income	10,994	10,805	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2027	2.50	Fixed Income	755	741	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2030	5.00	Fixed Income	4,787	4,892	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2030	4.50	Fixed Income	11,748	11,681	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2030	2.50	Fixed Income	88,440	85,599	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2027	3.00	Fixed Income	38,615	38,120	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2030	3.00	Fixed Income	72,279	70,891	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2027	3.00	Fixed Income	13,068	12,969	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2027	3.00	Fixed Income	57,949	57,142	0.005%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2032	2.50	Fixed Income	8,528	8,234	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2030	3.00	Fixed Income	4,254	4,169	0.000%
JNL Bond Index Fund	International Business Machines Corporation	11/20/2032	5.88	Fixed Income	100,000	111,836	0.009%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2032	2.50	Fixed Income	8,671	8,372	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2033	3.00	Fixed Income	30,930	30,104	0.003%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2032	3.00	Fixed Income	23,019	22,447	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2027	3.00	Fixed Income	44,181	43,615	0.004%
JNL Bond Index Fund	Travelers Companies, Inc. The	3/15/2035	6.38	Fixed Income	200,000	227,640	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2030	3.00	Fixed Income	18,393	18,033	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2030	3.00	Fixed Income	50,841	49,895	0.004%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2033	5.00	Fixed Income	1,041	1,063	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2030	3.00	Fixed Income	90,545	90,545	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2031	3.00	Fixed Income	61,862	60,629	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2027	2.50	Fixed Income	9,786	9,569	0.001%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2033	6.00	Fixed Income	20,870	21,672	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2031	4.00	Fixed Income	17,889	17,889	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/25/2027	3.00	Fixed Income	324,319	316,695	0.028%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2028	2.50	Fixed Income	53,768	52,579	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2031	3.00	Fixed Income	63,388	62,112	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2031	2.50	Fixed Income	13,820	13,262	0.001%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2034	5.00	Fixed Income	4,031	4,114	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2028	3.00	Fixed Income	24,339	23,967	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2031	2.50	Fixed Income	35,509	34,318	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2028	2.50	Fixed Income	21,732	21,184	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2031	2.50	Fixed Income	22,214	21,477	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2031	3.00	Fixed Income	21,940	21,498	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2028	2.50	Fixed Income	42,515	41,468	0.004%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2034	5.00	Fixed Income	239	239	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2028	2.50	Fixed Income	136,613	132,275	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2028	2.50	Fixed Income	76,175	74,300	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2031	4.50	Fixed Income	8,312	8,517	0.001%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2034	5.00	Fixed Income	982	995	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2028	2.50	Fixed Income	71,425	69,224	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2028	2.50	Fixed Income	8,303	8,091	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2028	2.50	Fixed Income	5,618	5,474	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2031	4.00	Fixed Income	29,782	29,958	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2028	2.50	Fixed Income	28,959	28,495	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2032	6.00	Fixed Income	12,812	13,301	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2028	2.00	Fixed Income	7,595	7,361	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2028	2.50	Fixed Income	10,554	10,288	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2028	3.00	Fixed Income	15,658	15,401	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2032	3.00	Fixed Income	10,142	9,833	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2028	3.00	Fixed Income	3,385	3,330	0.000%
JNL Bond Index Fund	AT&T Inc.	5/15/2035	4.60	Fixed Income	950,000	940,998	0.083%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2032	2.50	Fixed Income	52,172	49,699	0.004%
JNL Bond Index Fund	Phillips 66	11/15/2034	4.55	Fixed Income	250,000	248,141	0.022%
JNL Bond Index Fund	General Motors Company	4/1/2035	5.00	Fixed Income	200,000	198,840	0.018%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2048	4.00	Fixed Income	24,543	24,021	0.002%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2048	5.00	Fixed Income	8,160	8,160	0.001%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2049	3.50	Fixed Income	183,828	174,729	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2029	3.00	Fixed Income	2,580	2,537	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2032	2.50	Fixed Income	176,992	170,407	0.015%
JNL Bond Index Fund	Reynolds American Inc.	8/15/2035	5.00	Fixed Income	100,000	104,685	0.009%
JNL Bond Index Fund	Celcon Corporation	6/15/2035	4.98	Fixed Income	250,000	253,840	0.023%
JNL Bond Index Fund	Illinois, State of	7/1/2035	7.35	Fixed Income	314,286	351,058	0.031%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2029	3.50	Fixed Income	8,381	8,306	0.001%
JNL Bond Index Fund	Duke Energy Indiana, LLC	10/15/2035	6.12	Fixed Income	250,000	285,129	0.025%
JNL Bond Index Fund	Medtronic, Inc.	5/15/2035	4.38	Fixed Income	200,000	198,844	0.018%
JNL Bond Index Fund	Qualcomm Incorporated	5/20/2035	4.65	Fixed Income	60,000	62,172	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2029	3.00	Fixed Income	9,924	9,754	0.001%
JNL Bond Index Fund	Rio Tinto Alcan Inc.	6/1/2035	5.75	Fixed Income	250,000	277,630	0.025%
JNL Bond Index Fund	Crackle Corporation	5/15/2035	3.90	Fixed Income	360,000	359,369	0.029%
JNL Bond Index Fund	Kinder Morgan, Inc.	12/1/2034	5.30	Fixed Income	350,000	362,302	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2029	3.00	Fixed Income	9,633	9,468	0.001%
JNL Bond Index Fund	Dallas Independent School District	2/15/2035	6.45	Fixed Income	300,000	305,143	0.027%
JNL Bond Index Fund	Government National Mortgage Association	8/1/203					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2032	3.00	Fixed Income	34,718	33,907	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2029	2.50	Fixed Income	27,656	26,899	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2032	3.00	Fixed Income	99,389	97,072	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2029	2.50	Fixed Income	52,667	51,224	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2029	5.00	Fixed Income	5,986	6,098	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2033	3.00	Fixed Income	107,945	104,945	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2029	3.00	Fixed Income	6,715	6,594	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2029	3.00	Fixed Income	35,912	35,259	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2029	3.50	Fixed Income	7,218	7,153	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2029	3.00	Fixed Income	8,587	8,438	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2033	5.00	Fixed Income	39,960	40,963	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2030	3.00	Fixed Income	77,513	76,085	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2030	2.50	Fixed Income	3,039	2,942	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2030	2.50	Fixed Income	24,917	24,169	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2030	4.80	Fixed Income	4,809	4,857	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2034	3.50	Fixed Income	22,273	21,865	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2034	4.00	Fixed Income	27,586	27,577	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2030	3.50	Fixed Income	14,873	14,741	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2034	4.50	Fixed Income	11,879	12,008	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2034	5.00	Fixed Income	1,303	1,339	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2030	2.50	Fixed Income	70,950	68,753	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2030	2.00	Fixed Income	52,772	50,721	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2030	3.00	Fixed Income	34,752	34,078	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2035	5.50	Fixed Income	33,262	34,742	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2035	2.00	Fixed Income	26,654	25,717	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2030	2.50	Fixed Income	10,732	10,400	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2030	4.00	Fixed Income	14,492	14,507	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2035	3.00	Fixed Income	40,325	38,869	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2035	3.50	Fixed Income	16,778	16,392	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2030	4.00	Fixed Income	12,793	12,807	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2035	3.00	Fixed Income	28,663	24,376	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	29/2/30	2.50	Fixed Income	29,222	28,521	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2030	4.50	Fixed Income	10,309	10,412	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2030	2.50	Fixed Income	86,330	83,564	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2035	3.50	Fixed Income	47,618	46,522	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2035	4.00	Fixed Income	11,466	11,627	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2035	5.50	Fixed Income	16,171	16,898	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2030	3.00	Fixed Income	19,687	19,297	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2035	5.00	Fixed Income	11,245	11,570	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2037	4.00	Fixed Income	10,450	10,016	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2035	4.50	Fixed Income	11,662	11,797	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2030	2.50	Fixed Income	87,887	85,038	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2035	3.00	Fixed Income	42,808	41,223	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2/2030	4.00	Fixed Income	14,587	14,602	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2035	5.00	Fixed Income	26,483	27,235	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2030	3.00	Fixed Income	31,348	30,721	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2035	3.50	Fixed Income	22,949	22,371	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2030	3.00	Fixed Income	72,291	70,820	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2030	3.00	Fixed Income	27,805	27,238	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2036	3.00	Fixed Income	34,996	33,646	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2031	3.50	Fixed Income	19,692	19,449	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2036	3.00	Fixed Income	12,184	12,173	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2031	3.00	Fixed Income	30,116	29,532	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2031	2.50	Fixed Income	70,716	68,229	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2031	3.00	Fixed Income	31,959	31,296	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2031	3.00	Fixed Income	43,751	42,660	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2031	2.50	Fixed Income	38,833	38,021	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2031	2.50	Fixed Income	41,405	39,962	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2031	4.00	Fixed Income	22,990	23,026	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2031	4.50	Fixed Income	10,362	10,480	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2031	4.00	Fixed Income	8,662	8,662	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2031	2.50	Fixed Income	12,258	11,831	0.001%
JNL Bond Index Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	3/14/2037	6.55	Fixed Income	250,000	281,591	0.025%
JNL Bond Index Fund	Abbvie Inc.	5/14/2036	4.30	Fixed Income	115,000	113,859	0.010%
JNL Bond Index Fund	TransCanada Pipelines Limited	10/15/2037	100.00	Fixed Income	100,000	100,000	0.009%
JNL Bond Index Fund	Bank of America Corporation	12/9/2037	6.11	Fixed Income	250,000	278,784	0.025%
JNL Bond Index Fund	Johnson & Johnson	3/3/2037	3.63	Fixed Income	100,000	93,339	0.008%
JNL Bond Index Fund	Lockheed Martin Corporation	5/15/2036	4.50	Fixed Income	105,000	106,765	0.009%
JNL Bond Index Fund	Amazon.com, Inc.	8/12/2037	3.88	Fixed Income	170,000	160,649	0.014%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2036	5.00	Fixed Income	23,399	24,061	0.002%
JNL Bond Index Fund	The Cleveland Electric Illuminating Company	12/15/2036	5.95	Fixed Income	250,000	272,439	0.024%
JNL Bond Index Fund	PacificCorp	10/15/2037	6.25	Fixed Income	200,000	227,354	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2036	6.00	Fixed Income	11,445	11,445	0.000%
JNL Bond Index Fund	Virginia Electric and Power Company	5/15/2037	6.00	Fixed Income	200,000	224,411	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2036	6.00	Fixed Income	18,162	19,130	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2036	3.00	Fixed Income	31,478	30,205	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2031	3.50	Fixed Income	21,025	20,561	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2036	6.00	Fixed Income	20,180	21,206	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2031	3.50	Fixed Income	4,878	4,846	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2036	6.00	Fixed Income	6,198	6,535	0.001%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2037	5.00	Fixed Income	2,056	2,056	0.000%
JNL Bond Index Fund	Government National Mortgage Association	7/1/2031	2.50	Fixed Income	96,200	92,169	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2036	2.50	Fixed Income	22,253	20,915	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2031	3.00	Fixed Income	7,823	7,652	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2036	3.00	Fixed Income	10,981	10,520	0.001%
JNL Bond Index Fund	Government National Mortgage Association	4/15/2037	5.50	Fixed Income	583	583	0.000%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2037	5.50	Fixed Income	4,807	4,975	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2031	2.50	Fixed Income	13,970	13,450	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2037	3.00	Fixed Income	23,602	22,611	0.002%
JNL Bond Index Fund	Government National Mortgage Association	6/1/2037	5.00	Fixed Income	1,844	1,844	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2031	2.50	Fixed Income	74,888	72,096	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2031	2.00	Fixed Income	32,872	31,329	0.003%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2037	5.50	Fixed Income	13,222	13,552	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2037	4.98	Fixed Income	9,619	9,589	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2031	2.50	Fixed Income	90,625	87,220	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2037	3.00	Fixed Income	17,768	17,022	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2031	2.50	Fixed Income	8,914	8,587	0.001%
JNL Bond Index Fund	Oracle Corporation	11/15/2037	3.90	Fixed Income	200,000	179,897	0.016%
JNL Bond Index Fund	General Motors Company	4/1/2038	5.15	Fixed Income	70,000	68,631	0.006%
JNL Bond Index Fund	Shell International Finance B.V.	12/15/2038	6.38	Fixed Income	200,000	235,898	0.021%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2038	3.50	Fixed Income	12,609	12,227	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2032	2.50	Fixed Income	39,218	37,640	0.003%
JNL Bond Index Fund	Bank of America Corporation	4/24/2038	4.24	Fixed Income	120,000	116,012	0.010%
JNL Bond Index Fund	General Electric Company	1/10/2039	6.88	Fixed Income	300,000	364,506	0.032%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2038	4.00	Fixed Income	20,175	20,022	0.002%
JNL Bond Index Fund	MPX LP	4/15/2038	4.50	Fixed Income	106,000	99,126	0.009%
JNL Bond Index Fund	Comcast Corporation	3/1/2038	3.90	Fixed Income	70,000	63,485	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2037	5.50	Fixed Income	393	411	0.000%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2037	5.00	Fixed Income	24,184	24,786	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2032	2.00	Fixed Income	44,365	42,197	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2032	4.50	Fixed Income	13,478	13,544	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2037	3.00	Fixed Income	11,696	11,186	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2037	3.50	Fixed Income	23,205	22,555	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2032	3.00	Fixed Income	75,689	74,004	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2037	3.00	Fixed Income	19,910	19,042	0.002%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2049	5.00	Fixed Income	7,648	7,804	0.001%
JNL Bond Index Fund	Telefonica Emisores SA	3/1/2049	5.52	Fixed Income	300,000	298,243	0.026%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2038	5.00	Fixed Income	54,414	55,804	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2032	3.00	Fixed Income	11,365	11,086	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2038	5.00	Fixed Income	4,294	4,405	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2038	5.50	Fixed Income	13,552	14,075	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2037	6.50	Fixed Income	16,313	17,358	0.002%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2038	5.00	Fixed Income	6,578	6,746	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2032	2.50	Fixed Income	6,200	5,952	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2037	5.00	Fixed Income	3,243	3,342	0.000%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2038	5.00	Fixed Income	1,914	1,963	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2032	4.00	Fixed Income	9,924	9,924	0.001%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2038	5.00	Fixed Income	9,189	9,428	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2032	3.00	Fixed Income	56,299	54,474	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2032	2.50	Fixed Income	26,669	25,567	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2032	3.00	Fixed Income	53,695	52,376	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2038	3.90	Fixed Income	70,000	63,485	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2037	6.50	Fixed Income	10,620	11,285	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2033	2.50	Fixed Income	16,148	15,501	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2033	2.50	Fixed Income	75,906	72,765	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2033	4.50	Fixed Income	9,260	9,260	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2037	6.00	Fixed Income	24,163	25,532	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2037	5.50	Fixed Income	17,346	18,196	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2033	3.00	Fixed Income	66,650	64,869	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2033	3.00	Fixed Income	57,849	57,849	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2033	5.00	Fixed Income	17,075	17,475	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2033	5.50	Fixed Income	28,183	29,236	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2033	5.00	Fixed Income	26,449	27,069	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2037	6.00	Fixed Income	4,		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2033	3.00	Fixed Income	31,481	30,422	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2033	3.50	Fixed Income	26,904	26,264	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2033	3.50	Fixed Income	27,201	26,717	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2038	6.50	Fixed Income	303	314	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2034	3.50	Fixed Income	11,126	10,897	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2034	3.50	Fixed Income	12,107	11,858	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2034	6.50	Fixed Income	24,355	23,596	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2034	5.50	Fixed Income	4,102	4,275	0.000%
JNL Bond Index Fund	Kentucky Utilities Company	11/1/2040	5.13	Fixed Income	150,000	153,925	0.014%
JNL Bond Index Fund	Duke Energy Corporation	2/15/2040	5.30	Fixed Income	300,000	314,112	0.028%
JNL Bond Index Fund	Goldman Sachs Group Inc, The	8/1/2039	4.41	Fixed Income	90,000	98,175	0.009%
JNL Bond Index Fund	Burlington Northern Santa Fe, LLC	5/1/2040	5.75	Fixed Income	400,000	447,730	0.040%
JNL Bond Index Fund	Boeing Company, The	2/15/2040	5.88	Fixed Income	25,000	24,954	0.002%
JNL Bond Index Fund	Consolidated Edison Company of New York, Inc.	12/1/2039	5.50	Fixed Income	300,000	319,839	0.028%
JNL Bond Index Fund	Southern California, University of	10/1/2039	3.03	Fixed Income	450,000	386,293	0.034%
JNL Bond Index Fund	Ohio State University, The	6/1/2040	4.91	Fixed Income	200,000	200,629	0.018%
JNL Bond Index Fund	Consolidated Edison Company of New York, Inc.	6/15/2040	5.70	Fixed Income	100,000	108,022	0.010%
JNL Bond Index Fund	Corning Incorporated	8/15/2040	5.75	Fixed Income	95,000	100,487	0.009%
JNL Bond Index Fund	Williams Partners L.P.	4/15/2040	6.30	Fixed Income	200,000	223,872	0.020%
JNL Bond Index Fund	Oncor Electric Delivery Company LLC	9/30/2040	5.25	Fixed Income	200,000	204,178	0.018%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2039	4.50	Fixed Income	23,238	23,418	0.002%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2039	4.00	Fixed Income	22,383	22,110	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2035	3.00	Fixed Income	15,177	14,556	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2035	3.00	Fixed Income	34,202	32,965	0.003%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2040	4.38	Fixed Income	883,000	937,051	0.083%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2035	3.50	Fixed Income	25,664	25,104	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2038	5.50	Fixed Income	15,769	15,507	0.001%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2039	4.50	Fixed Income	15,875	15,998	0.001%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2039	5.50	Fixed Income	6,214	6,456	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2035	5.50	Fixed Income	41,636	43,215	0.004%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2040	5.88	Fixed Income	1,183,000	1,171,110	0.049%
JNL Bond Index Fund	Government National Mortgage Association	9/1/2035	5.00	Fixed Income	84,383	86,112	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2035	4.50	Fixed Income	8,853	8,944	0.001%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2040	4.25	Fixed Income	620,000	647,972	0.057%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2039	5.50	Fixed Income	21,004	21,775	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2035	5.00	Fixed Income	1,109	1,173	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2035	3.00	Fixed Income	36,505	35,151	0.003%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2039	5.00	Fixed Income	87,844	90,177	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2035	5.50	Fixed Income	38,123	39,527	0.003%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2039	4.00	Fixed Income	4,181	4,293	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2035	3.50	Fixed Income	32,404	31,626	0.003%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2039	4.50	Fixed Income	22,128	22,296	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2038	5.00	Fixed Income	62,196	64,134	0.006%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2039	4.50	Fixed Income	41,972	42,289	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2035	3.00	Fixed Income	40,889	39,372	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2035	5.00	Fixed Income	15,390	15,809	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/15/2040	4.50	Fixed Income	76,030	76,617	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2038	6.00	Fixed Income	6,983	6,933	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2035	6.00	Fixed Income	94,671	98,741	0.009%
JNL Bond Index Fund	Government National Mortgage Association	1/15/2040	4.50	Fixed Income	2,138	2,147	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2035	3.50	Fixed Income	31,624	30,864	0.003%
JNL Bond Index Fund	Government National Mortgage Association	2/15/2040	5.50	Fixed Income	21,654	22,453	0.002%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2040	5.50	Fixed Income	6,466	6,716	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2038	6.00	Fixed Income	6,165	6,521	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2035	5.50	Fixed Income	12,467	12,954	0.001%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2040	4.50	Fixed Income	2,305	2,323	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2035	5.00	Fixed Income	45,549	44,880	0.004%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2040	5.00	Fixed Income	18,071	18,588	0.002%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2040	5.00	Fixed Income	10,303	10,585	0.001%
JNL Bond Index Fund	Pfizer Inc	3/15/2049	4.00	Fixed Income	65,000	56,445	0.005%
JNL Bond Index Fund	Leggett & Platt, Incorporated	2/15/2029	4.40	Fixed Income	200,000	192,584	0.017%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2039	4.50	Fixed Income	1,187	1,203	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2035	3.50	Fixed Income	13,894	13,529	0.001%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2040	4.50	Fixed Income	13,947	14,057	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2039	4.50	Fixed Income	3,783	3,783	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2040	5.00	Fixed Income	4,500	4,619	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2035	5.00	Fixed Income	25,184	25,856	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2035	3.00	Fixed Income	28,525	27,440	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2039	6.50	Fixed Income	7,938	8,145	0.001%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2040	4.50	Fixed Income	7,577	7,637	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2035	3.00	Fixed Income	17,211	16,556	0.001%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2040	4.50	Fixed Income	13,724	13,829	0.001%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2040	4.50	Fixed Income	23,915	23,465	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2039	5.50	Fixed Income	13,787	14,436	0.001%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2040	5.00	Fixed Income	47,810	45,117	0.004%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2040	4.50	Fixed Income	14,366	14,480	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2039	5.00	Fixed Income	9,026	9,211	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2036	4.00	Fixed Income	15,274	15,230	0.001%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2040	4.00	Fixed Income	5	5	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2039	4.00	Fixed Income	669	662	0.000%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2040	4.50	Fixed Income	30,393	30,534	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2039	5.00	Fixed Income	16,328	16,856	0.001%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2040	4.00	Fixed Income	22,507	22,216	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2036	6.50	Fixed Income	13,830	14,604	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2039	5.00	Fixed Income	3,060	3,158	0.000%
JNL Bond Index Fund	Government National Mortgage Association	9/1/2035	4.00	Fixed Income	26,395	26,040	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2036	5.50	Fixed Income	197	206	0.000%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2040	4.50	Fixed Income	55,546	55,967	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2036	6.50	Fixed Income	6,023	6,341	0.001%
JNL Bond Index Fund	Government National Mortgage Association	11/1/2039	4.50	Fixed Income	29,476	29,476	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2039	5.00	Fixed Income	34,572	35,645	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2039	4.50	Fixed Income	34,442	34,904	0.003%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2040	4.00	Fixed Income	28,681	28,294	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2039	4.50	Fixed Income	5,273	5,345	0.001%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2040	4.50	Fixed Income	16,029	16,152	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2036	5.50	Fixed Income	11,443	11,877	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2039	5.50	Fixed Income	29,631	31,056	0.003%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2040	3.50	Fixed Income	10,370	10,265	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2039	5.00	Fixed Income	7,158	7,387	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2036	3.00	Fixed Income	27,956	26,849	0.002%
JNL Bond Index Fund	Government National Mortgage Association	12/15/2040	5.00	Fixed Income	11,836	12,128	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2039	5.50	Fixed Income	10,450	10,560	0.001%
JNL Bond Index Fund	Marathon Petroleum Corporation	3/1/2041	6.50	Fixed Income	300,000	328,460	0.029%
JNL Bond Index Fund	CSX Corporation	4/15/2041	5.50	Fixed Income	205,000	222,055	0.020%
JNL Bond Index Fund	Sandoz-Palata	3/29/2041	7.63	Fixed Income	250,000	297,529	0.026%
JNL Bond Index Fund	Healthpeak GP, LLC	2/1/2041	6.75	Fixed Income	200,000	230,068	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2036	5.50	Fixed Income	65	65	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2039	4.50	Fixed Income	27,378	27,749	0.002%
JNL Bond Index Fund	Dover Corporation	3/1/2041	5.38	Fixed Income	150,000	154,769	0.014%
JNL Bond Index Fund	New Jersey Turnpike Authority	1/1/2041	7.10	Fixed Income	250,000	301,343	0.027%
JNL Bond Index Fund	Lazard Group LLC	3/11/2029	4.38	Fixed Income	300,000	297,835	0.026%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2041	4.75	Fixed Income	1,480,000	1,620,329	0.143%
JNL Bond Index Fund	Hess Corporation	2/15/2041	5.60	Fixed Income	400,000	419,011	0.037%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2040	4.00	Fixed Income	44,478	43,880	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2039	4.50	Fixed Income	67,052	67,941	0.006%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2040	6.00	Fixed Income	23,451	24,400	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2036	5.50	Fixed Income	2,965	3,101	0.000%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2040	4.00	Fixed Income	115,699	113,903	0.010%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2041	4.38	Fixed Income	755,000	799,800	0.071%
JNL Bond Index Fund	Government National Mortgage Association	1/15/2041	4.00	Fixed Income	65,875	65,009	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2036	4.00	Fixed Income	14,546	14,504	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2040	4.50	Fixed Income	16,461	16,683	0.001%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2041	4.50	Fixed Income	40,909	40,285	0.004%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2041	3.75	Fixed Income	920,000	891,056	0.079%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2036	6.00	Fixed Income	36,341	38,166	0.003%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2041	3.50	Fixed Income	29,915	28,882	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2039	5.50	Fixed Income	33,669	33,273	0.003%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2041	4.50	Fixed Income	67,898	68,642	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2040	5.50	Fixed Income	9,623	10,081	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2041	5.00	Fixed Income	30,589	31,420	0.003%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2041	4.50	Fixed Income	63,028	63,638	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/2/2041	5.50	Fixed Income	13,620	14,265	0.001%
JNL Bond Index Fund	Government National Mortgage Association	2/15/2041	4.00	Fixed Income	144,703	142,837	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2036	5.50	Fixed Income	1,801	1,888	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2036	5.00	Fixed Income	13,148	13,490	0.001%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2041	4.50	Fixed Income	114,542	115,661	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2036	3.00	Fixed Income	36,051	34,500	0.003%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2041	4.50	Fixed Income	58,953	59,601	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2040	5.50	Fixed Income	4,717	4,870	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2036	2.50	Fixed Income	47,084	47,084	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2036	3.00	Fixed Income	33,284	31,852	0.003%
JNL Bond Index Fund	Government National Mortgage Association	4/15/2041	4.50	Fixed Income	4,596	4,631	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2047	3.50	Fixed Income	17,857	7,442	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2048	4.50	Fixed Income	30,59		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Government National Mortgage Association	6/20/2041	4.50	Fixed Income	23,009	23,264	0.002%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2041	5.00	Fixed Income	39,598	40,765	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2037	3.50	Fixed Income	20,663	20,077	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2040	4.50	Fixed Income	101,760	103,154	0.009%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2041	4.00	Fixed Income	25,028	24,680	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2037	3.00	Fixed Income	33,425	31,425	0.003%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2041	4.50	Fixed Income	145,877	147,491	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2037	3.50	Fixed Income	18,948	18,411	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2040	4.50	Fixed Income	46,388	47,024	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2037	4.00	Fixed Income	12,156	12,102	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2040	4.50	Fixed Income	41,669	42,237	0.004%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2041	5.00	Fixed Income	71,128	73,101	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2037	5.00	Fixed Income	1,897	1,944	0.000%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2041	4.00	Fixed Income	11,539	11,378	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2048	3.50	Fixed Income	42,302	49,394	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2048	3.50	Fixed Income	81,570	77,164	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2040	4.50	Fixed Income	25,977	26,333	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2037	3.50	Fixed Income	40,790	39,632	0.004%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2041	4.50	Fixed Income	27,888	28,198	0.002%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2041	4.00	Fixed Income	9,771	9,633	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2042	4.00	Fixed Income	64,049	63,142	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	3.00	Fixed Income	29,451	28,229	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2040	4.50	Fixed Income	28,054	29,438	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2040	3.50	Fixed Income	34,999	33,890	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	3.00	Fixed Income	21,305	20,388	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2040	4.00	Fixed Income	31,693	31,342	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2037	5.00	Fixed Income	11,447	11,881	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2040	4.00	Fixed Income	59,138	58,492	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2040	4.50	Fixed Income	69,393	70,343	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2037	3.50	Fixed Income	4,115	3,995	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2040	4.00	Fixed Income	66,057	65,298	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2041	4.00	Fixed Income	7,748	7,748	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2040	4.50	Fixed Income	50,569	51,262	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2037	5.00	Fixed Income	41,710	42,748	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2041	4.00	Fixed Income	61,559	60,883	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2042	3.10	Fixed Income	11,081	10,981	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2041	4.00	Fixed Income	104,374	103,185	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2037	3.00	Fixed Income	12,144	11,603	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2041	5.00	Fixed Income	28,421	29,284	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2041	4.00	Fixed Income	49,962	49,320	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2037	6.00	Fixed Income	1,509	1,593	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2037	6.00	Fixed Income	378	400	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2037	3.50	Fixed Income	7,288	7,076	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2037	6.50	Fixed Income	13,393	13,167	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2041	5.00	Fixed Income	26,800	27,689	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2037	6.00	Fixed Income	2,597	2,744	0.000%
JNL Bond Index Fund	RTX Corporation	6/1/2042	4.50	Fixed Income	300,000	284,063	0.025%
JNL Bond Index Fund	Lockix Corporation	11/1/2042	3.98	Fixed Income	200,000	198,757	0.015%
JNL Bond Index Fund	Orange	1/13/2042	5.38	Fixed Income	100,000	102,698	0.009%
JNL Bond Index Fund	America Movil, S.A.B. De C.V.	7/16/2042	4.38	Fixed Income	200,000	182,609	0.016%
JNL Bond Index Fund	Stryker Corporation	4/1/2043	4.10	Fixed Income	200,000	180,793	0.016%
JNL Bond Index Fund	Cabot Corporation	1/1/2042	4.15	Fixed Income	100,000	93,062	0.008%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2041	3.50	Fixed Income	33,788	32,607	0.003%
JNL Bond Index Fund	Arizona Public Service Company	4/1/2042	4.50	Fixed Income	100,000	92,326	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2048	4.00	Fixed Income	25,363	24,762	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2037	6.00	Fixed Income	1,345	1,419	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2041	4.00	Fixed Income	99,873	98,123	0.009%
JNL Bond Index Fund	Deere & Company	6/9/2042	3.90	Fixed Income	200,000	181,556	0.016%
JNL Bond Index Fund	Kinder Morgan Energy Partners, L.P.	3/1/2043	5.00	Fixed Income	300,000	276,903	0.024%
JNL Bond Index Fund	Citigroup Inc.	1/30/2042	5.88	Fixed Income	488,000	542,180	0.048%
JNL Bond Index Fund	HSBC Holdings PLC	11/4/2042	6.10	Fixed Income	300,000	297,920	0.026%
JNL Bond Index Fund	International Business Machines Corporation	6/20/2042	4.00	Fixed Income	200,000	178,558	0.016%
JNL Bond Index Fund	Kraft Heinz Foods Company	6/4/2042	5.00	Fixed Income	400,000	397,459	0.035%
JNL Bond Index Fund	LYB International Finance B.V.	7/15/2043	5.25	Fixed Income	300,000	295,699	0.026%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2041	4.00	Fixed Income	327,741	327,741	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2037	3.50	Fixed Income	8,003	7,771	0.001%
JNL Bond Index Fund	Mosaic Company, The	11/15/2041	4.88	Fixed Income	20,000	18,953	0.002%
JNL Bond Index Fund	Plains All American Pipeline, L.P.	1/31/2043	4.30	Fixed Income	200,000	170,065	0.015%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2041	3.50	Fixed Income	69,877	63,514	0.006%
JNL Bond Index Fund	Berkshire Hathaway Finance Corporation	5/15/2043	4.30	Fixed Income	200,000	193,270	0.017%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2041	3.13	Fixed Income	1,863,000	1,667,252	0.147%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2037	3.00	Fixed Income	11,931	11,384	0.001%
JNL Bond Index Fund	Lockheed Martin Corporation	12/15/2042	4.07	Fixed Income	243,000	240,000	0.020%
JNL Bond Index Fund	Energy Transfer LP	2/1/2042	6.50	Fixed Income	150,000	164,147	0.015%
JNL Bond Index Fund	Abbott Laboratories	4/15/2043	4.75	Fixed Income	200,000	206,782	0.018%
JNL Bond Index Fund	Enterprise Products Operating LLC	2/15/2043	4.45	Fixed Income	150,000	136,492	0.012%
JNL Bond Index Fund	Dallas Convention Center Hotel Development Corporation	1/1/2042	7.09	Fixed Income	200,000	234,047	0.021%
JNL Bond Index Fund	Equinor ASA	5/15/2043	3.95	Fixed Income	300,000	267,529	0.024%
JNL Bond Index Fund	Southern California Edison Company	3/15/2042	4.05	Fixed Income	200,000	172,381	0.015%
JNL Bond Index Fund	Altria Group, Inc.	5/2/2043	4.50	Fixed Income	200,000	181,356	0.016%
JNL Bond Index Fund	Philip Morris International Inc.	11/15/2041	4.38	Fixed Income	300,000	278,142	0.025%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2041	4.50	Fixed Income	38,157	38,581	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2041	4.50	Fixed Income	20,131	20,406	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2041	4.50	Fixed Income	53,283	54,013	0.005%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2041	4.00	Fixed Income	47,323	46,656	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2048	6.00	Fixed Income	195	195	0.000%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2041	4.50	Fixed Income	36,486	36,893	0.003%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2042	3.00	Fixed Income	340,000	296,040	0.026%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2042	3.50	Fixed Income	49,672	47,915	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2041	4.00	Fixed Income	71,639	70,830	0.007%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2042	2.75	Fixed Income	592,000	489,647	0.043%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2041	4.00	Fixed Income	25,630	25,335	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2041	4.50	Fixed Income	10,166	10,305	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2042	2.038	Fixed Income	2,038	2,132	0.000%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2042	2.75	Fixed Income	1,042,000	865,101	0.077%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2042	3.50	Fixed Income	85,559	82,480	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2038	4.50	Fixed Income	8,856	8,958	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2041	4.00	Fixed Income	79,745	74,965	0.007%
JNL Bond Index Fund	Government National Mortgage Association	2/15/2042	4.00	Fixed Income	3,514	3,463	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2041	4.00	Fixed Income	177,753	175,562	0.016%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2042	3.50	Fixed Income	52,578	50,703	0.004%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2042	4.50	Fixed Income	30,139	30,473	0.002%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2042	3.50	Fixed Income	209,177	201,537	0.018%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2043	2.88	Fixed Income	1,591,000	1,338,056	0.118%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2042	3.50	Fixed Income	238,803	230,050	0.020%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2042	3.50	Fixed Income	389,438	355,846	0.031%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2042	3.50	Fixed Income	101,941	98,470	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2048	3.50	Fixed Income	7,842	7,443	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2049	5.00	Fixed Income	14,863	15,141	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2049	3.50	Fixed Income	4,544	4,288	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2049	3.00	Fixed Income	19,819	18,105	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2038	6.00	Fixed Income	6,886	7,264	0.001%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2042	3.50	Fixed Income	90,557	87,214	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2038	5.50	Fixed Income	801	825	0.000%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2042	3.50	Fixed Income	27,916	26,940	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2042	3.50	Fixed Income	76,623	74,008	0.007%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2042	3.50	Fixed Income	94,863	91,349	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2042	3.50	Fixed Income	91,522	88,428	0.008%
JNL Bond Index Fund	Government National Mortgage Association	9/15/2042	3.00	Fixed Income	137,773	127,891	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2042	3.50	Fixed Income	42,540	41,087	0.004%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2042	3.00	Fixed Income	182,653	171,394	0.015%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2042	4.00	Fixed Income	72,262	71,319	0.006%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2042	3.50	Fixed Income	261,735	245,463	0.022%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2042	3.50	Fixed Income	63,467	61,267	0.005%
JNL Bond Index Fund	Government National Mortgage Association	1/15/2043	2.50	Fixed Income	26,467	24,007	0.002%
JNL Bond Index Fund	Government National Mortgage Association	1/15/2043	3.50	Fixed Income	86,022	82,861	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2042	3.50	Fixed Income	30,115	29,528	0.002%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2043	3.50	Fixed Income	223,646	215,238	0.019%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2043	2.50	Fixed Income	34,195	31,038	0.003%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2043	3.00	Fixed Income	142,654	133,184	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2038	5.50	Fixed Income	9,065	9,065	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2042	4.00	Fixed Income	49,563	48,933	0.004%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2043	3.00	Fixed Income	257,414	240,809	0.021%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2043	3.00	Fixed Income	266,605	249,872	0.022%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2042	3.50	Fixed Income	50,727	48,964	0.004%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2043	3.50	Fixed Income	213,334	205,238	0.018%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2043	3.50	Fixed Income	213,366	205,263	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2038	6.00	Fixed Income	86	91	0.000%
JNL Bond Index Fund	Bank of America Corporation	3/1/2050	4.33	Fixed Income	300,000	272,346	0.024%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2043	5.50	Fixed Income	9,214	9,536	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2043	3.00	Fixed Income	77,072	71,796	0.006%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2043	4.50	Fixed Income	65,062	65,778	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2038	5.50	Fixed Income	1,135	1,187	0.000%
JNL Bond Index Fund	Federal						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2038	6.00	Fixed Income	11,660	12,291	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2042	3.50	Fixed Income	133,050	138,078	0.01%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2043	4.50	Fixed Income	20,451	20,676	0.002%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2043	2.50	Fixed Income	60,413	54,988	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2038	6.00	Fixed Income	2,059	2,178	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2038	5.50	Fixed Income	9,008	9,421	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2038	5.50	Fixed Income	224	234	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2038	5.50	Fixed Income	1,391	1,457	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2038	5.50	Fixed Income	899	943	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2043	3.00	Fixed Income	144,609	134,705	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2038	6.00	Fixed Income	18,529	19,519	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2043	2.50	Fixed Income	27,699	25,275	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2038	6.50	Fixed Income	8,923	9,470	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2038	5.50	Fixed Income	13	13	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2038	5.50	Fixed Income	7,755	8,175	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2038	5.00	Fixed Income	44,582	45,581	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2038	5.50	Fixed Income	42,651	44,415	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2039	5.50	Fixed Income	4,513	4,731	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2043	3.00	Fixed Income	116,125	109,085	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2039	5.50	Fixed Income	1,760	1,841	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2043	3.00	Fixed Income	26,092	24,241	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2043	3.00	Fixed Income	36,394	33,917	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2039	4.50	Fixed Income	7,210	7,297	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2039	5.50	Fixed Income	15,429	16,140	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2043	3.00	Fixed Income	129,385	120,320	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2043	3.00	Fixed Income	118,979	110,891	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2039	5.00	Fixed Income	19,454	18,958	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2043	3.00	Fixed Income	40,649	37,854	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2039	5.00	Fixed Income	5,971	6,155	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.50	Fixed Income	973	984	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.50	Fixed Income	18,170	18,390	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.50	Fixed Income	46,565	47,123	0.002%
JNL Bond Index Fund	Kinder Morgan Energy Partners, L.P.	9/1/2044	5.40	Fixed Income	250,000	243,093	0.022%
JNL Bond Index Fund	Novartis Capital Corporation	5/6/2044	4.40	Fixed Income	200,000	193,716	0.017%
JNL Bond Index Fund	Government National Mortgage Association	8/15/2043	3.00	Fixed Income	22,077	20,581	0.002%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	10/20/2043	4.75	Fixed Income	586,000	479,111	0.042%
JNL Bond Index Fund	Arch Capital Group (U.S.) Inc.	11/1/2043	5.14	Fixed Income	150,000	149,893	0.013%
JNL Bond Index Fund	Albermarle Corporation	12/1/2044	5.45	Fixed Income	150,000	144,137	0.013%
JNL Bond Index Fund	Merck & Co., Inc.	2/10/2045	3.70	Fixed Income	250,000	212,235	0.019%
JNL Bond Index Fund	PECO Energy Company	10/1/2044	4.15	Fixed Income	250,000	227,078	0.020%
JNL Bond Index Fund	TransCanada Pipelines Limited	10/16/2043	5.00	Fixed Income	150,000	147,278	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2039	5.00	Fixed Income	34,957	35,914	0.003%
JNL Bond Index Fund	Humana Inc.	10/1/2044	4.95	Fixed Income	200,000	190,820	0.017%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2043	4.50	Fixed Income	7,007	7,062	0.001%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2043	3.63	Fixed Income	1,905,000	1,771,838	0.157%
JNL Bond Index Fund	The Progressive Corporation	4/25/2044	4.35	Fixed Income	200,000	187,118	0.017%
JNL Bond Index Fund	Northern States Power Company	5/15/2044	4.13	Fixed Income	500,000	446,218	0.039%
JNL Bond Index Fund	Meat Johnson Nutrition Company	8/1/2044	4.60	Fixed Income	200,000	186,846	0.017%
JNL Bond Index Fund	Oracle Corporation	7/8/2044	4.50	Fixed Income	200,000	182,709	0.016%
JNL Bond Index Fund	Thermo Fisher Scientific Inc.	2/1/2044	5.30	Fixed Income	200,000	208,807	0.018%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2043	3.00	Fixed Income	186,245	155,587	0.014%
JNL Bond Index Fund	NorthWestern Corporation	11/15/2044	4.18	Fixed Income	150,000	131,416	0.012%
JNL Bond Index Fund	Virginia Electric and Power Company	2/15/2044	4.45	Fixed Income	100,000	91,553	0.008%
JNL Bond Index Fund	University of Notre Dame du Lac	2/15/2045	3.44	Fixed Income	250,000	212,039	0.019%
JNL Bond Index Fund	Dow Chemical Company, The	10/1/2044	4.63	Fixed Income	250,000	232,262	0.021%
JNL Bond Index Fund	Tyson Foods, Inc.	8/15/2044	5.15	Fixed Income	200,000	182,206	0.017%
JNL Bond Index Fund	Wells Fargo & Company	11/5/2044	5.81	Fixed Income	380,000	364,505	0.032%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	1/21/2045	5.55	Fixed Income	300,000	290,197	0.026%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2043	3.75	Fixed Income	1,110,000	1,059,990	0.094%
JNL Bond Index Fund	Inter-American Development Bank	1/24/2044	4.38	Fixed Income	100,000	100,807	0.009%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2043	4.50	Fixed Income	20,738	20,988	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2043	3.00	Fixed Income	203,228	188,953	0.017%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2044	3.63	Fixed Income	1,631,000	1,512,149	0.134%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2044	3.00	Fixed Income	148,945	139,519	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2044	3.50	Fixed Income	25,174	25,174	0.001%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2044	4.00	Fixed Income	140,825	138,585	0.012%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2044	3.38	Fixed Income	2,512,000	2,263,385	0.200%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2044	4.00	Fixed Income	50,470	49,664	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2043	3.50	Fixed Income	204,366	176,173	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2039	5.50	Fixed Income	5,676	5,938	0.001%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2044	4.50	Fixed Income	43,336	43,862	0.004%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2044	3.13	Fixed Income	1,914,000	1,639,025	0.145%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2044	4.00	Fixed Income	79,524	78,267	0.007%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2044	4.50	Fixed Income	37,574	38,030	0.003%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2044	4.00	Fixed Income	46,912	46,163	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2039	4.50	Fixed Income	11,709	11,851	0.001%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2044	3.00	Fixed Income	2,494,000	2,190,000	0.186%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2039	4.50	Fixed Income	12,673	12,827	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2039	4.50	Fixed Income	22,571	22,846	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2044	4.50	Fixed Income	1,800	1,815	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2044	4.50	Fixed Income	4,303	4,324	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.50	Fixed Income	37,585	38,045	0.003%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2044	4.00	Fixed Income	17,193	16,915	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.00	Fixed Income	48,287	47,753	0.004%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2044	5.00	Fixed Income	40,580	41,720	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2044	4.50	Fixed Income	9,081	9,143	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2044	4.00	Fixed Income	61,905	61,008	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.50	Fixed Income	21,386	21,647	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2044	4.50	Fixed Income	33,466	33,761	0.003%
JNL Bond Index Fund	Government National Mortgage Association	8/1/2040	4.50	Fixed Income	40,464	40,709	0.004%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2044	4.00	Fixed Income	315,793	310,639	0.027%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2044	4.50	Fixed Income	7,887	7,954	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2044	4.00	Fixed Income	30,935	30,482	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	30,297	30,297	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2044	4.00	Fixed Income	2,473	2,435	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2044	3.50	Fixed Income	36,423	34,996	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	27,700	28,034	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2044	4.00	Fixed Income	2,973	2,973	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	57,675	58,377	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2044	3.50	Fixed Income	16,644	15,989	0.001%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2044	3.00	Fixed Income	101,210	93,768	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2044	4.00	Fixed Income	16,468	16,246	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.00	Fixed Income	97,551	96,459	0.009%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2044	3.50	Fixed Income	51,670	49,371	0.004%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2044	4.00	Fixed Income	126,703	124,760	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2044	3.50	Fixed Income	2,618	2,734	0.001%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2044	4.00	Fixed Income	66,811	65,788	0.006%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2045	3.50	Fixed Income	27,454	26,232	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2044	4.50	Fixed Income	13,779	13,892	0.001%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2045	4.50	Fixed Income	21,613	21,875	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2044	4.50	Fixed Income	68,322	67,143	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2044	4.00	Fixed Income	21,401	21,054	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2044	4.00	Fixed Income	25,449	25,036	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2044	4.00	Fixed Income	5,800	5,709	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2039	4.50	Fixed Income	140,871	140,628	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2045	3.50	Fixed Income	38,310	36,593	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2039	4.50	Fixed Income	51,728	52,365	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2045	4.00	Fixed Income	50,570	49,750	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2040	4.50	Fixed Income	67,940	66,838	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2045	4.00	Fixed Income	41,100	40,433	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2045	3.50	Fixed Income	44,581	42,582	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2040	5.00	Fixed Income	115,225	118,802	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2045	3.50	Fixed Income	79,969	79,239	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2045	5.50	Fixed Income	25,777	26,095	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2045	3.50	Fixed Income	75,466	72,035	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2040	5.00	Fixed Income	4,999	5,154	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2040	4.50	Fixed Income	50,576	50,511	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2040	5.00	Fixed Income	46,951	48,394	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2040	5.50	Fixed Income	27,514	28,743	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2040	5.00	Fixed Income	52,475	54,124	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2040	5.00	Fixed Income	20,997	21,295	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	11,528	11,671	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	50,814	51,447	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	37,305	37,770	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.00	Fixed Income	95,752	94,579	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.50	Fixed Income	62,379	62,379	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.50	Fixed Income	10,857	10,992	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.50	Fixed Income	45,253	45,817	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.50	Fixed Income	57,677	58,395	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2040	4.50	Fixed Income	4,358	4,303	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2040	4.00	Fixed Income	86,282	85,228	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2040	4.00	Fixed Income	45,073	44,541	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2040	4.00	Fixed Income	36,309</		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.00	Fixed Income	74,568	73,656	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.00	Fixed Income	66,267	65,483	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2040	3.50	Fixed Income	77,120	74,597	0.007%
JNL Bond Index Fund	Duke Energy Progress, LLC	8/15/2045	4.20	Fixed Income	250,000	221,665	0.020%
JNL Bond Index Fund	W.W. Grainger, Inc.	6/15/2045	4.60	Fixed Income	200,000	192,873	0.017%
JNL Bond Index Fund	Hewlett Packard Enterprise Company	10/15/2045	6.35	Fixed Income	90,000	101,499	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	4.00	Fixed Income	129,911	127,338	0.011%
JNL Bond Index Fund	Government National Mortgage Association	3/15/2045	4.00	Fixed Income	19,808	19,492	0.002%
JNL Bond Index Fund	Barclays PLC	8/17/2045	5.25	Fixed Income	250,000	255,113	0.023%
JNL Bond Index Fund	Medtronic, Inc.	3/15/2045	4.63	Fixed Income	284,000	272,469	0.024%
JNL Bond Index Fund	California Institute of Technology	3/1/2045	4.32	Fixed Income	40,000	37,994	0.003%
JNL Bond Index Fund	CVS Health Corporation	7/20/2045	5.13	Fixed Income	200,000	188,178	0.017%
JNL Bond Index Fund	Northrop Grumman Corporation	4/15/2045	3.85	Fixed Income	250,000	215,702	0.019%
JNL Bond Index Fund	Baxalta Incorporated	6/23/2045	5.25	Fixed Income	60,000	61,060	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	4.00	Fixed Income	123,752	122,740	0.011%
JNL Bond Index Fund	AT&T Inc.	6/15/2045	4.35	Fixed Income	100,000	89,847	0.008%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2045	3.50	Fixed Income	68,885	65,820	0.006%
JNL Bond Index Fund	Columbia Pipeline Group, Inc.	6/1/2045	5.80	Fixed Income	100,000	105,245	0.009%
JNL Bond Index Fund	UHarris Technologies, Inc.	4/7/2045	5.05	Fixed Income	250,000	251,362	0.022%
JNL Bond Index Fund	Oracle Corporation	5/15/2045	4.13	Fixed Income	200,000	173,102	0.015%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2045	3.00	Fixed Income	279,000	235,124	0.021%
JNL Bond Index Fund	Union Electric Company	4/15/2045	3.65	Fixed Income	350,000	288,152	0.025%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2045	4.00	Fixed Income	65,043	64,046	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	4.00	Fixed Income	97,851	96,648	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2045	3.00	Fixed Income	19,797	18,254	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	4.00	Fixed Income	69,982	69,133	0.006%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2045	3.50	Fixed Income	28,522	28,522	0.002%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2045	4.50	Fixed Income	45,214	45,763	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2045	4.00	Fixed Income	12,997	12,778	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2045	4.00	Fixed Income	26,271	25,852	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	3.50	Fixed Income	34,978	32,835	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2045	2.50	Fixed Income	25,143	23,461	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	4.00	Fixed Income	86,806	85,782	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2045	4.00	Fixed Income	15,998	15,729	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2045	3.50	Fixed Income	29,928	28,597	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2041	3.00	Fixed Income	84,101	81,141	0.007%
JNL Bond Index Fund	Government National Mortgage Association	6/15/2045	3.00	Fixed Income	5,112	4,743	0.000%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2045	3.50	Fixed Income	71,173	68,006	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2041	4.00	Fixed Income	58,108	57,379	0.005%
JNL Bond Index Fund	Government National Mortgage Association	7/1/2041	3.50	Fixed Income	84,784	80,976	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2041	4.00	Fixed Income	125,708	124,122	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2041	5.00	Fixed Income	3,030	3,111	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2045	3.50	Fixed Income	23,550	22,443	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2041	3.50	Fixed Income	81,020	78,348	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2045	4.00	Fixed Income	87,846	86,366	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2045	4.00	Fixed Income	22,580	22,207	0.002%
JNL Bond Index Fund	Government National Mortgage Association	7/15/2045	3.00	Fixed Income	11,962	11,096	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2045	3.00	Fixed Income	23,800	21,063	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2041	5.00	Fixed Income	28,334	29,239	0.003%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2045	3.00	Fixed Income	109,360	101,319	0.009%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2045	4.00	Fixed Income	30,793	30,282	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2045	3.50	Fixed Income	36,608	33,721	0.003%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2045	3.00	Fixed Income	148,257	137,170	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2041	3.50	Fixed Income	69,149	66,863	0.006%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2045	3.50	Fixed Income	2,805	2,677	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2041	4.00	Fixed Income	110,417	109,031	0.009%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2045	3.50	Fixed Income	40,777	38,324	0.003%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2045	4.00	Fixed Income	135,195	132,953	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2041	4.50	Fixed Income	29,781	30,151	0.003%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2045	3.50	Fixed Income	187,279	178,769	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2042	3.50	Fixed Income	108,289	109,172	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2041	5.00	Fixed Income	31,680	32,676	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2041	4.50	Fixed Income	10,235	10,363	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2041	4.50	Fixed Income	37,476	37,842	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2041	4.50	Fixed Income	54,951	54,951	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2041	4.50	Fixed Income	67,451	68,290	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2041	4.50	Fixed Income	105,512	106,824	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2041	4.00	Fixed Income	40	40	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2041	4.00	Fixed Income	124,924	123,689	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2041	5.50	Fixed Income	9,502	9,938	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2041	4.00	Fixed Income	18,644	18,383	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2041	4.00	Fixed Income	25,920	25,580	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2041	4.50	Fixed Income	39,213	39,213	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2041	4.00	Fixed Income	128,388	126,635	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2041	4.00	Fixed Income	131,406	129,657	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2041	3.50	Fixed Income	80,091	77,317	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2042	3.50	Fixed Income	111,854	107,824	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2042	3.50	Fixed Income	82,577	79,644	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2042	4.50	Fixed Income	3,646	3,691	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2042	3.50	Fixed Income	89,728	86,531	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2042	3.50	Fixed Income	83,744	81,740	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2042	3.50	Fixed Income	12,989	12,526	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2042	3.50	Fixed Income	204,012	196,777	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2042	3.50	Fixed Income	92,715	89,415	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2042	3.50	Fixed Income	39,419	38,027	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2042	3.50	Fixed Income	127,223	124,720	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2042	3.50	Fixed Income	70,727	68,236	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2042	3.50	Fixed Income	97,335	93,807	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2042	3.50	Fixed Income	87,419	84,321	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2042	3.50	Fixed Income	149,326	145,226	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2042	3.50	Fixed Income	184,886	178,271	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2042	3.50	Fixed Income	29,442	28,375	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2042	3.50	Fixed Income	144,592	139,321	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2042	3.50	Fixed Income	223,009	214,689	0.019%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2043	3.00	Fixed Income	17,004	15,812	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2043	3.00	Fixed Income	227,894	211,869	0.019%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2043	3.00	Fixed Income	163,786	152,349	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2043	4.50	Fixed Income	63,844	59,444	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2043	3.00	Fixed Income	170,068	158,002	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2043	3.00	Fixed Income	210,778	196,021	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2043	3.00	Fixed Income	204,384	189,924	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2043	3.50	Fixed Income	276,065	256,498	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2043	3.00	Fixed Income	159,569	148,501	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2043	3.50	Fixed Income	212,693	204,625	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2043	3.50	Fixed Income	172,447	165,747	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2043	3.00	Fixed Income	155,083	144,021	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2043	3.00	Fixed Income	166,465	154,645	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2043	3.00	Fixed Income	159,949	148,551	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2043	3.50	Fixed Income	168,504	161,931	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2043	3.00	Fixed Income	193,607	179,830	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2043	3.00	Fixed Income	37,535	34,875	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2043	2.50	Fixed Income	153,645	140,198	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2043	3.00	Fixed Income	170,560	158,360	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2043	2.50	Fixed Income	14,399	13,091	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2043	3.00	Fixed Income	519,981	482,983	0.043%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2043	3.00	Fixed Income	78,509	72,902	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2043	4.00	Fixed Income	8,770	8,636	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2043	3.00	Fixed Income	167,003	155,109	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2043	5.00	Fixed Income	12,497	12,899	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2043	4.50	Fixed Income	13,951	14,063	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2044	4.50	Fixed Income	42,264	42,591	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2044	3.50	Fixed Income	111,330	106,913	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2044	4.50	Fixed Income	4,403	4,438	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2044	4.50	Fixed Income	28,168	28,385	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2044	5.00	Fixed Income	31,443	32,444	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2044	4.50	Fixed Income	24,459	24,640	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2044	4.50	Fixed Income	11,024	11,024	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2044	4.00	Fixed Income	162,974	160,376	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2044	4.00	Fixed Income	64,247	63,231	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2044	4.00	Fixed Income	48,070	47,276	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2044	4.00	Fixed Income	37,095	36,499	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2044	4.00	Fixed Income	22,895	22,822	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2044	4.00	Fixed Income	7,436	7,315	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2044	4.50	Fixed Income	23,552	23,756	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2044	3.50	Fixed Income	70,890	67,637	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2044	4.00	Fixed Income	6,119	6,017	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2044	4.00	Fixed Income	20,549	20,207	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2044	4.50	Fixed Income	36,194	36,451	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2044	4.00	Fixed Income	83,854	82,456	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2044	4.00	Fixed Income	24,997	23,698	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2044	3.50	Fixed Income	72,723	69,396	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2044	4.00	Fixed Income	16,657	16,380	0.001%
JNL Bond Index Fund	Federal National Mortgage						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2045	4.00	Fixed Income	3,927	3,859	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2045	4.00	Fixed Income	29,927	29,437	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2045	3.50	Fixed Income	4,891	4,664	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2045	3.50	Fixed Income	77,684	74,070	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2045	3.00	Fixed Income	102,207	94,135	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2045	3.50	Fixed Income	1,114	2,969	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2045	2.50	Fixed Income	34,765	31,159	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2045	3.50	Fixed Income	77,658	74,046	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2045	4.00	Fixed Income	12,825	12,596	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2045	3.00	Fixed Income	114,909	105,835	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2045	2.50	Fixed Income	32,091	28,765	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2045	3.50	Fixed Income	3,431	3,266	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2045	3.50	Fixed Income	10,313	9,817	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2045	3.50	Fixed Income	121,314	115,482	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2045	4.00	Fixed Income	41,581	40,825	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2045	3.00	Fixed Income	15,653	14,417	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2045	3.50	Fixed Income	73,129	69,613	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2045	3.00	Fixed Income	63,661	58,574	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2045	4.00	Fixed Income	4,397	4,317	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2045	4.00	Fixed Income	17,274	16,959	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2045	3.00	Fixed Income	77,698	71,489	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2045	4.00	Fixed Income	2,896	2,843	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2045	4.00	Fixed Income	10,227	10,040	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2045	3.50	Fixed Income	9,845	9,372	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2045	3.50	Fixed Income	59,514	56,653	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2045	4.00	Fixed Income	48,296	47,406	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2045	3.00	Fixed Income	129,722	119,266	0.011%
JNL Bond Index Fund	Trane Technologies Luxembourg Finance S.A.	3/21/2049	4.50	Fixed Income	200,000	184,286	0.016%
JNL Bond Index Fund	Alexandria Real Estate Equities, Inc.	4/15/2049	4.85	Fixed Income	300,000	281,587	0.025%
JNL Bond Index Fund	Merck & Co., Inc.	3/7/2049	4.00	Fixed Income	80,000	69,686	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2048	3.50	Fixed Income	20,695	28,998	0.002%
JNL Bond Index Fund	Trane Technologies Luxembourg Finance S.A.	3/21/2049	3.50	Fixed Income	200,000	188,132	0.018%
JNL Bond Index Fund	Trane Technologies Luxembourg Finance S.A.	3/21/2029	3.80	Fixed Income	200,000	197,324	0.017%
JNL Bond Index Fund	John Deere Capital Corporation	3/7/2029	3.45	Fixed Income	115,000	112,726	0.010%
JNL Bond Index Fund	Merck & Co., Inc.	3/7/2039	3.90	Fixed Income	50,000	45,715	0.004%
JNL Bond Index Fund	Treasury, United States Department of	3/13/2026	2.25	Fixed Income	315,000	302,093	0.027%
JNL Bond Index Fund	Low's Companies, Inc.	4/5/2029	3.65	Fixed Income	75,000	74,535	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2049	4.00	Fixed Income	27,204	26,513	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2049	3.50	Fixed Income	64,197	60,569	0.005%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2049	4.00	Fixed Income	25,148	24,925	0.002%
JNL Bond Index Fund	The PNC Financial Services Group, Inc.	4/23/2029	3.45	Fixed Income	200,000	197,174	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2048	5.00	Fixed Income	16,326	16,662	0.001%
JNL Bond Index Fund	International Business Machines Corporation	5/15/2049	4.25	Fixed Income	150,000	134,098	0.012%
JNL Bond Index Fund	Government National Mortgage Association	5/15/2049	3.50	Fixed Income	111,125	105,486	0.009%
JNL Bond Index Fund	International Business Machines Corporation	5/15/2029	3.50	Fixed Income	210,000	206,931	0.018%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2043	3.50	Fixed Income	270,908	259,346	0.023%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2049	2.88	Fixed Income	1,355,000	1,084,318	0.096%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.50	Fixed Income	1,634	1,616	0.000%
JNL Bond Index Fund	Motorola Solutions, Inc.	5/23/2029	4.60	Fixed Income	300,000	307,699	0.027%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2031	4.00	Fixed Income	7,785	7,762	0.000%
JNL Bond Index Fund	Anheuser-Busch Companies, LLC	2/1/2046	4.90	Fixed Income	300,000	297,634	0.026%
JNL Bond Index Fund	HSBC Holdings PLC	5/22/2030	3.97	Fixed Income	300,000	296,415	0.026%
JNL Bond Index Fund	Anheuser-Busch Companies, LLC	2/1/2036	4.70	Fixed Income	482,000	487,888	0.043%
JNL Bond Index Fund	Cenovus Energy Inc.	11/15/2039	6.75	Fixed Income	87,000	100,548	0.009%
JNL Bond Index Fund	Freemore-McMoran Inc.	3/15/2043	5.45	Fixed Income	300,000	299,608	0.027%
JNL Bond Index Fund	Starbucks Corporation	8/15/2049	4.45	Fixed Income	50,000	44,692	0.004%
JNL Bond Index Fund	Waste Management, Inc.	7/15/2049	4.15	Fixed Income	50,000	44,825	0.004%
JNL Bond Index Fund	Boeing Company, The	5/1/2049	3.90	Fixed Income	40,000	29,504	0.003%
JNL Bond Index Fund	Treasury, United States Department of	5/31/2026	2.13	Fixed Income	1,120,000	1,099,298	0.097%
JNL Bond Index Fund	HCA Inc.	6/15/2049	5.25	Fixed Income	100,000	96,801	0.009%
JNL Bond Index Fund	Western Midstream Operating, LP	7/1/2026	4.65	Fixed Income	200,000	202,373	0.018%
JNL Bond Index Fund	HCA Inc.	6/15/2029	4.13	Fixed Income	100,000	99,721	0.009%
JNL Bond Index Fund	Citigroup Inc.	7/23/2048	4.65	Fixed Income	140,000	133,549	0.012%
JNL Bond Index Fund	HCA Inc.	6/15/2039	5.13	Fixed Income	50,000	49,989	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2049	3.50	Fixed Income	29,146	27,545	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2049	4.00	Fixed Income	20,047	19,525	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2049	4.50	Fixed Income	27,435	27,432	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2049	5.00	Fixed Income	16,146	16,448	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2049	5.00	Fixed Income	7,426	7,463	0.001%
JNL Bond Index Fund	Fiserv, Inc.	7/1/2049	4.40	Fixed Income	100,000	89,584	0.008%
JNL Bond Index Fund	Fiserv, Inc.	7/1/2029	3.50	Fixed Income	190,000	185,208	0.016%
JNL Bond Index Fund	American Tower Corporation	8/15/2029	3.80	Fixed Income	90,000	88,047	0.008%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2049	3.50	Fixed Income	27,753	27,510	0.002%
JNL Bond Index Fund	JPMorgan Chase & Co.	7/23/2029	4.20	Fixed Income	640,000	642,788	0.057%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2031	4.00	Fixed Income	936	933	0.000%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2049	4.50	Fixed Income	22,576	22,568	0.002%
JNL Bond Index Fund	Consolidated Edison Company of New York, Inc.	8/15/2047	3.98	Fixed Income	300,000	290,195	0.026%
JNL Bond Index Fund	Virginia Electric and Power Company	11/15/2046	4.00	Fixed Income	300,000	256,896	0.023%
JNL Bond Index Fund	Welltower Inc.	9/1/2048	4.95	Fixed Income	150,000	146,042	0.013%
JNL Bond Index Fund	Canadian National Railway Company	2/3/2048	3.65	Fixed Income	300,000	249,544	0.022%
JNL Bond Index Fund	National Australia Bank Limited	11/2/2026	2.50	Fixed Income	500,000	489,468	0.043%
JNL Bond Index Fund	Landwirtschaftliche Rentenbank	11/15/2027	2.50	Fixed Income	400,000	390,671	0.035%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2048	3.50	Fixed Income	14,469	13,753	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2047	3.00	Fixed Income	220,004	202,865	0.018%
JNL Bond Index Fund	Parker-Hannifin Corporation	6/14/2049	4.00	Fixed Income	40,000	34,542	0.003%
JNL Bond Index Fund	Vodafone Group Public Limited Company	7/1/2050	5.13	Fixed Income	110,000	100,000	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2049	4.00	Fixed Income	107,039	104,252	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2049	3.50	Fixed Income	33,370	31,484	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2049	3.00	Fixed Income	69,456	63,363	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/7/2034	3.50	Fixed Income	107,234	100,000	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2049	3.50	Fixed Income	33,698	31,814	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2045	4.00	Fixed Income	78,599	77,167	0.007%
JNL Bond Index Fund	Bank of America Corporation	7/23/2029	4.27	Fixed Income	170,000	171,015	0.015%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/21/2048	3.50	Fixed Income	34,738	32,818	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2049	3.50	Fixed Income	37,477	35,383	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2049	4.00	Fixed Income	21,243	20,750	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2049	3.50	Fixed Income	37,496	35,376	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2049	3.00	Fixed Income	17,063	15,587	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2049	3.50	Fixed Income	38,137	35,969	0.003%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2048	4.00	Fixed Income	88,793	86,932	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2048	3.00	Fixed Income	98,211	90,179	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2048	4.00	Fixed Income	61,252	59,172	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2048	3.50	Fixed Income	47,056	44,485	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.00	Fixed Income	33,218	32,395	0.003%
JNL Bond Index Fund	Westpac Banking Corporation	7/24/2034	4.11	Fixed Income	500,000	486,818	0.043%
JNL Bond Index Fund	Westpac Banking Corporation	7/24/2039	4.42	Fixed Income	50,000	47,585	0.004%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2049	4.00	Fixed Income	9,071	8,869	0.001%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2049	3.50	Fixed Income	111,242	105,874	0.009%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2049	3.50	Fixed Income	49,696	46,574	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2049	3.50	Fixed Income	92,643	87,349	0.008%
JNL Bond Index Fund	Bank of America Corporation	7/23/2030	3.13	Fixed Income	300,000	285,825	0.025%
JNL Bond Index Fund	UnitedHealth Group Incorporated	8/15/2039	3.50	Fixed Income	250,000	216,513	0.019%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2048	4.00	Fixed Income	19,063	18,591	0.002%
JNL Bond Index Fund	Constellation Brands, Inc.	8/1/2029	3.15	Fixed Income	400,000	381,743	0.034%
JNL Bond Index Fund	TotalEnergies Capital International	7/12/2049	3.46	Fixed Income	50,000	38,480	0.003%
JNL Bond Index Fund	Boeing Company, The	8/1/2059	3.95	Fixed Income	125,000	86,143	0.008%
JNL Bond Index Fund	Citigroup Inc.	6/15/2032	6.63	Fixed Income	300,000	338,607	0.030%
JNL Bond Index Fund	Boeing Company, The	2/1/2027	2.70	Fixed Income	125,000	119,081	0.011%
JNL Bond Index Fund	Ford Motor Credit Company LLC	8/1/2026	4.54	Fixed Income	300,000	299,604	0.027%
JNL Bond Index Fund	Sumitomo Mitsui Financial Group, Inc.	7/16/2029	3.04	Fixed Income	300,000	284,706	0.025%
JNL Bond Index Fund	Aon Corporation	5/2/2029	3.75	Fixed Income	300,000	297,299	0.026%
JNL Bond Index Fund	Boeing Company, The	2/1/2030	2.95	Fixed Income	125,000	112,373	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2049	4.00	Fixed Income	63,275	61,568	0.005%
JNL Bond Index Fund	McDonald's Corporation	9/1/2049	3.63	Fixed Income	200,000	158,400	0.014%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2049	2.25	Fixed Income	1,030,000	716,557	0.063%
JNL Bond Index Fund	CVS Health Corporation	8/15/2029	3.25	Fixed Income	600,000	569,555	0.050%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2048	4.00	Fixed Income	86,347	84,317	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	34,827	34,072	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	2/1/2049	4.50	Fixed Income	89,691	89,684	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2049	5.00	Fixed Income	31,028	31,608	0.003%
JNL Bond Index Fund	Benchmark 2019-B10 Mortgage Trust	3/16/2029	3.00	Fixed Income	880,000	776,298	0.068%
JNL Bond Index Fund	Ventus Realty, Limited Partnership	11/15/2030	3.00	Fixed Income	200,000	186,770	0.017%
JNL Bond Index Fund	Exxon Mobil Corporation	8/16/2026	2.28	Fixed Income	150,000	146,293	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2031	3.00	Fixed Income	22,560	22,079	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2034	4.00	Fixed Income	12,400	12,443	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2049	3.50	Fixed Income	29,508	29,004	0.002%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2049	4.50	Fixed Income	3,052	3,051	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2034	3.00	Fixed Income	13,270	12,853	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2049	4.50	Fixed Income	18,775	18,768	0.002%
JNL Bond Index Fund	Puget Sound Energy, Inc.	9/15/2049	3.25	Fixed Income	170,000	123,211	0.011%
JNL Bond Index Fund	3M Company	8/26/2029	2.38	Fixed Income	690,000	636,137	0.056%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2048	3.00	Fixed Income	45,905	42,036	0.004%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	PPG Industries, Inc.	8/15/2029	2.80	Fixed Income	200,000	187,573	0.017%
JNL Bond Index Fund	Boston Properties Limited Partnership	3/15/2030	2.30	Fixed Income	200,000	180,164	0.016%
JNL Bond Index Fund	CenterPoint Energy, Inc.	3/1/2030	2.95	Fixed Income	200,000	184,869	0.016%
JNL Bond Index Fund	The Cigna Group	8/15/2038	4.80	Fixed Income	620,000	607,890	0.054%
JNL Bond Index Fund	Exxon Mobil Corporation	8/16/2039	3.00	Fixed Income	300,000	247,357	0.022%
JNL Bond Index Fund	Newmont Corporation	4/1/2035	5.88	Fixed Income	200,000	274,345	0.026%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2036	1.38	Fixed Income	1,407,800	1,350,174	0.119%
JNL Bond Index Fund	PPPL Electric Utilities Corporation	10/1/2049	3.00	Fixed Income	250,000	182,871	0.016%
JNL Bond Index Fund	Walt Disney Company, The	9/1/2049	2.75	Fixed Income	225,000	153,866	0.014%
JNL Bond Index Fund	Walt Disney Company, The	9/1/2029	2.00	Fixed Income	625,000	568,651	0.050%
JNL Bond Index Fund	Apple Inc.	9/11/2029	2.20	Fixed Income	300,000	279,508	0.025%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2033	2.50	Fixed Income	97,726	93,590	0.008%
JNL Bond Index Fund	JPMorgan Chase & Co.	10/15/2030	2.74	Fixed Income	220,000	206,754	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2047	3.00	Fixed Income	97,978	89,803	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2048	3.50	Fixed Income	54,534	51,571	0.005%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2034	2.50	Fixed Income	46,019	43,741	0.004%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2049	3.50	Fixed Income	79,640	75,598	0.007%
JNL Bond Index Fund	Vodafone Group Public Limited Company	9/1/2050	4.25	Fixed Income	75,000	62,463	0.006%
JNL Bond Index Fund	Verizon Communications Inc.	12/2/2029	4.02	Fixed Income	982,000	981,687	0.087%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2049	4.50	Fixed Income	8,716	8,712	0.001%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2049	3.50	Fixed Income	153,932	146,024	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/25/2029	2.89	Fixed Income	489,289	467,022	0.041%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2047	4.00	Fixed Income	106,020	103,922	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2047	3.50	Fixed Income	127,707	120,849	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation				16,639	16,222	0.001%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	4.00	Fixed Income	-150,000	(141,091)	-0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2045	3.50	Fixed Income	90,382	86,350	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2048	4.00	Fixed Income	42,491	41,424	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.50	Fixed Income	-125,000	(116,519)	-0.010%
JNL Bond Index Fund	Apple Inc.	9/11/2049	2.95	Fixed Income	300,000	221,542	0.020%
JNL Bond Index Fund	Market Group Inc.	9/17/2050	4.15	Fixed Income	300,000	245,130	0.022%
JNL Bond Index Fund	Wells North America Inc.	9/15/2049	3.98	Fixed Income	300,000	125,621	0.012%
JNL Bond Index Fund	Simon Property Group, L.P.	9/13/2049	3.25	Fixed Income	65,000	47,452	0.004%
JNL Bond Index Fund	PMC Corporation	10/1/2049	4.50	Fixed Income	150,000	127,343	0.011%
JNL Bond Index Fund	Urum Group	12/15/2049	4.50	Fixed Income	300,000	255,525	0.023%
JNL Bond Index Fund	Prudential Financial, Inc.	3/13/2051	3.00	Fixed Income	300,000	269,511	0.024%
JNL Bond Index Fund	B.A.T Capital Corporation	9/6/2026	3.22	Fixed Income	250,000	245,384	0.022%
JNL Bond Index Fund	PayPal Holdings, Inc.	10/1/2029	2.85	Fixed Income	100,000	95,517	0.008%
JNL Bond Index Fund	Coca-Cola Company, The	9/6/2029	2.13	Fixed Income	250,000	230,814	0.020%
JNL Bond Index Fund	Treasury, United States Department of	9/20/2026	1.63	Fixed Income	480,000	476,791	0.043%
JNL Bond Index Fund	MidAmerican Energy Company	4/15/2050	3.15	Fixed Income	125,000	93,125	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2039	4.00	Fixed Income	9,292	9,150	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.50	Fixed Income	126,081	119,428	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/20/2049	3.50	Fixed Income	400,000	390,026	0.034%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2046	3.00	Fixed Income	125,599	115,327	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.00	Fixed Income	189,317	172,710	0.015%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2048	4.00	Fixed Income	33,891	33,040	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.00	Fixed Income	2,531	2,466	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2049	4.00	Fixed Income	18,652	18,166	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2049	3.00	Fixed Income	33,009	30,113	0.003%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2049	3.00	Fixed Income	173,630	158,127	0.014%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2049	4.50	Fixed Income	10,354	10,250	0.001%
JNL Bond Index Fund	Charter Communications Operating, LLC	3/1/2050	4.80	Fixed Income	200,000	154,057	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2049	3.50	Fixed Income	72,334	68,178	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2047	3.00	Fixed Income	206,179	189,317	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.50	Fixed Income	76,785	72,662	0.006%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2049	4.00	Fixed Income	10,665	10,685	0.001%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2049	4.00	Fixed Income	10,730	10,478	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2042	3.50	Fixed Income	123,090	118,586	0.010%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2046	3.50	Fixed Income	232,855	221,369	0.020%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2049	3.50	Fixed Income	535,435	499,711	0.044%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2026	1.63	Fixed Income	2,767,000	2,674,272	0.237%
JNL Bond Index Fund	Rogers Communications Inc.	11/15/2049	3.70	Fixed Income	250,000	192,191	0.017%
JNL Bond Index Fund	Japan Bank For International Cooperation	10/17/2029	2.00	Fixed Income	400,000	369,843	0.033%
JNL Bond Index Fund	Bank of America Corporation	10/22/2030	2.88	Fixed Income	400,000	379,000	0.034%
JNL Bond Index Fund	State Street Corporation	11/1/2034	3.03	Fixed Income	230,000	215,335	0.019%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2048	4.00	Fixed Income	60,953	59,442	0.005%
JNL Bond Index Fund	Shell International Finance B.V.	11/7/2049	3.13	Fixed Income	200,000	146,867	0.013%
JNL Bond Index Fund	Toyota Motor Corporation	7/20/2029	3.67	Fixed Income	200,000	199,967	0.018%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2047	3.50	Fixed Income	21,650	20,619	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2034	2.50	Fixed Income	114,212	107,987	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2049	2.50	Fixed Income	62,194	54,348	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2046	3.00	Fixed Income	209,959	198,768	0.017%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2049	2.38	Fixed Income	2,655,000	1,630,238	0.144%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2029	1.75	Fixed Income	3,005,000	2,772,725	0.245%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2048	3.00	Fixed Income	117,814	108,415	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	2.50	Fixed Income	172,106	151,094	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2049	3.50	Fixed Income	101,607	95,833	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2033	4.00	Fixed Income	4,644	4,660	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2034	4.00	Fixed Income	18,354	18,413	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2034	2.50	Fixed Income	33,602	31,665	0.003%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2049	4.00	Fixed Income	19,075	15,698	0.001%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2049	4.00	Fixed Income	15,492	15,128	0.001%
JNL Bond Index Fund	The Estee Lauder Companies Inc.	12/1/2049	3.13	Fixed Income	225,000	165,717	0.015%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2049	3.00	Fixed Income	135,977	123,836	0.011%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2049	4.00	Fixed Income	66,419	64,921	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2045	3.50	Fixed Income	76,600	72,918	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2045	3.00	Fixed Income	248,868	228,670	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2047	3.00	Fixed Income	182,678	167,624	0.015%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2047	3.00	Fixed Income	146,157	140,157	0.012%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2048	3.00	Fixed Income	109,931	101,230	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2047	3.50	Fixed Income	78,150	74,026	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.00	Fixed Income	52,389	51,058	0.005%
JNL Bond Index Fund	Bank 2019-BN-23	11/16/2029	2.92	Fixed Income	500,000	494,194	0.043%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2048	4.00	Fixed Income	59,103	57,638	0.005%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2046	3.00	Fixed Income	183,920	169,707	0.015%
JNL Bond Index Fund	Walt Disney Company, The	12/15/2034	6.20	Fixed Income	50,000	57,840	0.005%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2049	3.00	Fixed Income	107,049	98,275	0.009%
JNL Bond Index Fund	Intel Corporation	11/15/2049	3.25	Fixed Income	80,000	54,935	0.005%
JNL Bond Index Fund	Coming Incorporated	11/15/2049	3.90	Fixed Income	300,000	248,428	0.022%
JNL Bond Index Fund	Presidencia de la Republica de Chile	2/6/2028	3.24	Fixed Income	200,000	389,519	0.034%
JNL Bond Index Fund	LHarris Technologies, Inc.	12/15/2029	2.90	Fixed Income	300,000	262,498	0.023%
JNL Bond Index Fund	S&P Global Inc.	12/1/2029	2.50	Fixed Income	200,000	186,523	0.017%
JNL Bond Index Fund	XCCEL Energy Inc.	12/1/2029	2.60	Fixed Income	300,000	276,703	0.024%
JNL Bond Index Fund	Treasury, United States Department of	11/30/2026	1.63	Fixed Income	700,000	674,729	0.060%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/25/2029	2.26	Fixed Income	333,080	317,310	0.028%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/25/2029	3.27	Fixed Income	286,132	278,122	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2039	2.50	Fixed Income	19,937	18,357	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2039	3.00	Fixed Income	31,265	29,362	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2048	4.00	Fixed Income	66,410	64,353	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2049	4.00	Fixed Income	66,593	64,921	0.006%
JNL Bond Index Fund	RELX Capital Inc.	3/18/2029	4.00	Fixed Income	300,000	297,780	0.026%
JNL Bond Index Fund	Government National Mortgage Association	11/20/2045	3.00	Fixed Income	59,924	55,443	0.005%
JNL Bond Index Fund	Texas A&M University	7/1/2047	3.66	Fixed Income	100,000	87,639	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	4.00	Fixed Income	91,933	89,625	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2049	3.00	Fixed Income	55,878	50,977	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2050	2.50	Fixed Income	230,821	201,704	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2049	3.00	Fixed Income	70,224	64,064	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2048	3.50	Fixed Income	136,187	128,873	0.011%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2049	3.50	Fixed Income	65,510	62,124	0.005%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2049	2.50	Fixed Income	200,083	174,843	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2027	4.00	Fixed Income	1,900	1,896	0.000%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/26/2029	2.65	Fixed Income	600,000	566,641	0.050%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2032	3.00	Fixed Income	53,827	52,562	0.005%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2049	5.00	Fixed Income	21,871	22,337	0.002%
JNL Bond Index Fund	Citigroup Commercial Mortgage Trust 2019-C7	12/17/2029	3.10	Fixed Income	300,000	281,438	0.025%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2048	3.00	Fixed Income	101,068	93,068	0.008%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.00	Fixed Income	247,979	227,543	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2049	4.00	Fixed Income	109,555	106,532	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.50	Fixed Income	151,591	143,593	0.013%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2048	3.50	Fixed Income	109,403	104,006	0.009%
JNL Bond Index Fund	Government National Mortgage Association	12/20/2049	3.50	Fixed Income	170,511	156,525	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2049	3.00	Fixed Income	50,407	45,907	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2049	4.00	Fixed Income	50,174	48,867	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2043	3.00	Fixed Income	246,737	229,152	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2043	3.00	Fixed Income	221,058	205,276	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2045	4.00	Fixed Income	21,754	21,358	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2046	3.00	Fixed Income	261,444	239,898	0.021%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2047	3.50	Fixed Income	106,005	103,261	0.009%
JNL Bond Index Fund	ATP Texas Inc.	11/5/2050	2.45	Fixed Income	10,000	7,399	0.001%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2026	1.75	Fixed Income	220,000	212,207	0.019%
JNL Bond Index Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Duke Energy Corporation	2/1/2030	2.45	Fixed Income	500,000	460,201	0.041%
JNL Bond Index Fund	Enterprise Products Operating LLC	1/31/2030	2.90	Fixed Income	250,000	234,426	0.023%
JNL Bond Index Fund	Energy Transfer LP	5/15/2050	5.00	Fixed Income	200,000	184,085	0.016%
JNL Bond Index Fund	Energy Transfer LP	5/15/2050	3.75	Fixed Income	250,000	242,339	0.021%
JNL Bond Index Fund	Ministry of Defence State of Israel	1/15/2050	3.38	Fixed Income	200,000	136,965	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2049	3.00	Fixed Income	177,678	161,814	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2052	2.50	Fixed Income	98,666	94,653	0.008%
JNL Bond Index Fund	GS Mortgage Securities Trust 2020-GC45	12/14/2029	3.17	Fixed Income	300,000	270,251	0.024%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2050	3.00	Fixed Income	88,162	80,428	0.007%
JNL Bond Index Fund	The PNC Financial Services Group, Inc.	12/22/2030	2.55	Fixed Income	400,000	369,015	0.033%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2046	3.00	Fixed Income	380,191	350,811	0.031%
JNL Bond Index Fund	Cottage Health	11/1/2049	3.30	Fixed Income	300,000	234,223	0.021%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2041	4.50	Fixed Income	148,476	150,325	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2046	3.50	Fixed Income	215,490	208,320	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2046	3.00	Fixed Income	80,101	73,500	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2046	3.00	Fixed Income	215,179	197,446	0.017%
JNL Bond Index Fund	Government National Mortgage Association	1/20/2050	3.50	Fixed Income	103,429	98,083	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2048	4.00	Fixed Income	57,861	56,390	0.005%
JNL Bond Index Fund	Home Depot, Inc., The	12/15/2049	3.13	Fixed Income	200,000	149,465	0.013%
JNL Bond Index Fund	MedStar Health, Inc.	8/15/2049	3.63	Fixed Income	200,000	156,513	0.014%
JNL Bond Index Fund	Enterprise Products Operating LLC	1/31/2060	3.95	Fixed Income	100,000	79,044	0.007%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2027	1.50	Fixed Income	4,360,000	4,166,643	0.369%
JNL Bond Index Fund	Alcoa Inc.	2/1/2030	2.30	Fixed Income	200,000	184,526	0.016%
JNL Bond Index Fund	Asian Development Bank	1/24/2030	1.88	Fixed Income	200,000	183,683	0.016%
JNL Bond Index Fund	BlackRock, Inc.	4/30/2030	2.40	Fixed Income	200,000	185,045	0.016%
JNL Bond Index Fund	The Republic of Indonesia, The Government of	2/10/2030	2.85	Fixed Income	600,000	561,371	0.050%
JNL Bond Index Fund	Morgan Stanley	1/22/2031	2.70	Fixed Income	435,000	400,937	0.035%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.50	Fixed Income	5,753	5,731	0.001%
JNL Bond Index Fund	ProLogis, L.P.	4/15/2027	2.13	Fixed Income	100,000	96,350	0.009%
JNL Bond Index Fund	KeyCorp	4/6/2027	2.25	Fixed Income	250,000	239,274	0.021%
JNL Bond Index Fund	ProLogis, L.P.	4/15/2030	2.25	Fixed Income	175,000	159,871	0.014%
JNL Bond Index Fund	Discover Bank	2/8/2030	2.70	Fixed Income	250,000	225,626	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2039	3.50	Fixed Income	6,706	6,495	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2040	3.00	Fixed Income	33,399	31,367	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2049	3.50	Fixed Income	46,453	43,813	0.004%
JNL Bond Index Fund	Government National Mortgage Association	6/28/2027	6.979	Fixed Income	6,979	6,979	0.000%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2049	3.00	Fixed Income	150,355	137,166	0.012%
JNL Bond Index Fund	Wells Fargo & Company	2/11/2031	2.57	Fixed Income	360,000	328,327	0.029%
JNL Bond Index Fund	Southwest Airlines Co.	2/10/2030	2.63	Fixed Income	600,000	545,168	0.049%
JNL Bond Index Fund	Goldman Sachs Group Inc., The	2/7/2038	2.60	Fixed Income	500,000	461,718	0.041%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2050	3.00	Fixed Income	28,619	26,046	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2049	3.00	Fixed Income	45,834	41,814	0.004%
JNL Bond Index Fund	Toyota Motor Credit Corporation	2/13/2030	2.15	Fixed Income	500,000	452,924	0.040%
JNL Bond Index Fund	Inel Corporation	11/15/2029	2.45	Fixed Income	250,000	227,534	0.020%
JNL Bond Index Fund	DTE Electric Company	3/1/2050	2.95	Fixed Income	400,000	282,461	0.025%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2050	3.00	Fixed Income	178,884	164,221	0.015%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2050	2.00	Fixed Income	3,109,000	2,033,649	0.180%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2050	3.50	Fixed Income	89,514	81,151	0.007%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2030	1.50	Fixed Income	765,000	688,173	0.061%
JNL Bond Index Fund	NNN REIT, Inc.	4/15/2050	3.10	Fixed Income	200,000	140,210	0.012%
JNL Bond Index Fund	Amgen Inc.	2/21/2030	2.45	Fixed Income	80,000	73,303	0.006%
JNL Bond Index Fund	Amgen Inc.	2/21/2040	3.15	Fixed Income	265,000	213,540	0.019%
JNL Bond Index Fund	KLA Corporation	3/1/2050	3.30	Fixed Income	300,000	227,997	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.00	Fixed Income	184,470	168,288	0.015%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2050	3.00	Fixed Income	157,377	144,428	0.013%
JNL Bond Index Fund	ProLogis, L.P.	4/15/2050	3.00	Fixed Income	35,000	25,013	0.002%
JNL Bond Index Fund	Novartis Capital Corporation	8/14/2039	2.75	Fixed Income	65,000	46,084	0.004%
JNL Bond Index Fund	Amgen Inc.	2/21/2050	3.38	Fixed Income	265,000	202,986	0.018%
JNL Bond Index Fund	Novartis Capital Corporation	8/14/2030	2.20	Fixed Income	95,000	86,487	0.008%
JNL Bond Index Fund	Bank of America Corporation	2/13/2031	2.50	Fixed Income	185,000	168,335	0.015%
JNL Bond Index Fund	Treasury, United States Department of	2/28/2027	1.13	Fixed Income	1,200,000	1,057,080	0.094%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2039	2.50	Fixed Income	34,725	31,722	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2040	3.00	Fixed Income	20,528	19,279	0.002%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.00	Fixed Income	186,715	171,328	0.015%
JNL Bond Index Fund	Intercontinental Exchange, Inc.	9/1/2048	4.25	Fixed Income	75,000	68,718	0.006%
JNL Bond Index Fund	GS Mortgage Securities Trust 2019-GC42	9/12/2029	3.00	Fixed Income	200,000	184,469	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2050	3.00	Fixed Income	118,518	138,354	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/25/2030	1.82	Fixed Income	258,565	257,571	0.023%
JNL Bond Index Fund	Ohio Power Company	4/1/2030	2.50	Fixed Income	200,000	184,343	0.016%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2033	4.00	Fixed Income	402	401	0.000%
JNL Bond Index Fund	PepsiCo, Inc.	3/19/2060	3.88	Fixed Income	400,000	336,322	0.030%
JNL Bond Index Fund	El Lilly and Company	3/15/2029	3.38	Fixed Income	250,000	244,827	0.022%
JNL Bond Index Fund	The Philippines, Government of	3/1/2041	3.00	Fixed Income	380,000	300,234	0.026%
JNL Bond Index Fund	American Express Company	12/3/2042	4.05	Fixed Income	200,000	185,028	0.016%
JNL Bond Index Fund	Citigroup Inc.	5/18/2046	4.75	Fixed Income	200,000	191,137	0.017%
JNL Bond Index Fund	MasterCard Incorporated	3/26/2050	3.85	Fixed Income	300,000	254,135	0.022%
JNL Bond Index Fund	NIKE, Inc.	3/27/2030	2.85	Fixed Income	400,000	377,123	0.034%
JNL Bond Index Fund	NVIDIA Corporation	4/1/2040	3.50	Fixed Income	300,000	270,586	0.024%
JNL Bond Index Fund	Sysco Corporation	4/1/2050	6.60	Fixed Income	300,000	361,558	0.032%
JNL Bond Index Fund	Fox Corporation	1/25/2049	5.58	Fixed Income	80,000	79,842	0.007%
JNL Bond Index Fund	Sysco Corporation	4/1/2030	5.95	Fixed Income	266,000	293,528	0.026%
JNL Bond Index Fund	Fox Corporation	1/25/2039	5.48	Fixed Income	65,000	65,912	0.006%
JNL Bond Index Fund	Oracle Corporation	4/1/2040	3.60	Fixed Income	400,000	339,701	0.030%
JNL Bond Index Fund	Ministry of Defence State of Israel	4/3/2120	4.50	Fixed Income	300,000	226,139	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	4.00	Fixed Income	425,000	408,149	0.036%
JNL Bond Index Fund	Berkshire Hathaway Finance Corporation	8/1/2049	4.20	Fixed Income	124,000	124,000	0.011%
JNL Bond Index Fund	Western Midstream Operating, LP	5/15/2028	4.75	Fixed Income	100,000	100,634	0.009%
JNL Bond Index Fund	Shell International Finance B.V.	4/6/2050	3.25	Fixed Income	250,000	189,009	0.017%
JNL Bond Index Fund	Shell International Finance B.V.	4/6/2030	3.75	Fixed Income	250,000	226,315	0.021%
JNL Bond Index Fund	Artisner-Busch Index Worldwide Inc.	11/1/2030	3.50	Fixed Income	110,000	110,000	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2050	3.00	Fixed Income	245,869	223,609	0.020%
JNL Bond Index Fund	TransCanada Pipelines Limited	4/15/2030	4.10	Fixed Income	250,000	250,552	0.022%
JNL Bond Index Fund	FetEx Corporation	5/15/2030	4.25	Fixed Income	300,000	304,505	0.027%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2050	2.50	Fixed Income	229,469	229,469	0.020%
JNL Bond Index Fund	Exxon Mobil Corporation	10/15/2030	2.61	Fixed Income	360,000	336,673	0.030%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/22/2051	3.11	Fixed Income	370,000	279,310	0.025%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/22/2031	2.52	Fixed Income	405,000	372,514	0.033%
JNL Bond Index Fund	Costco Wholesale Corporation	6/20/2027	1.38	Fixed Income	300,000	292,408	0.026%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2034	3.00	Fixed Income	83,974	81,336	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2035	2.50	Fixed Income	24,905	23,547	0.002%
JNL Bond Index Fund	Bank of America Corporation	4/29/2031	2.59	Fixed Income	250,000	229,595	0.020%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	4/7/2032	4.75	Fixed Income	380,000	395,111	0.036%
JNL Bond Index Fund	Wells Fargo & Company	4/30/2041	3.07	Fixed Income	300,000	239,385	0.021%
JNL Bond Index Fund	El Lilly and Company	5/15/2050	2.25	Fixed Income	250,000	159,019	0.014%
JNL Bond Index Fund	FetEx Corporation	5/15/2050	5.25	Fixed Income	100,000	100,783	0.009%
JNL Bond Index Fund	Caterpillar Inc.	4/9/2050	3.25	Fixed Income	250,000	194,406	0.017%
JNL Bond Index Fund	PPL Capital Funding, Inc.	4/15/2030	4.13	Fixed Income	250,000	250,625	0.022%
JNL Bond Index Fund	DTE Electric Company	3/1/2031	2.63	Fixed Income	250,000	226,857	0.020%
JNL Bond Index Fund	VMware LLC	5/15/2030	4.70	Fixed Income	250,000	256,052	0.023%
JNL Bond Index Fund	BP Capital Markets America Inc.	4/6/2030	3.63	Fixed Income	750,000	740,597	0.066%
JNL Bond Index Fund	Ministry of Defence State of Israel	7/3/2030	4.20	Fixed Income	400,000	352,491	0.031%
JNL Bond Index Fund	Equifax Inc.	5/15/2030	3.10	Fixed Income	250,000	236,799	0.021%
JNL Bond Index Fund	The Southern Company	4/30/2030	3.70	Fixed Income	250,000	245,005	0.022%
JNL Bond Index Fund	Dominion Energy, Inc.	4/1/2030	3.38	Fixed Income	250,000	240,957	0.021%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2027	0.50	Fixed Income	2,015,000	1,866,832	0.165%
JNL Bond Index Fund	Baker Hughes Holdings LLC	5/1/2030	4.49	Fixed Income	500,000	513,622	0.045%
JNL Bond Index Fund	Visa Inc.	4/15/2040	2.70	Fixed Income	200,000	159,954	0.014%
JNL Bond Index Fund	Boeing Company, The	5/1/2027	5.04	Fixed Income	100,000	102,428	0.009%
JNL Bond Index Fund	Elevance Health, Inc.	5/15/2030	2.25	Fixed Income	360,000	316,601	0.028%
JNL Bond Index Fund	Boeing Company, The	5/1/2030	5.15	Fixed Income	285,000	292,160	0.026%
JNL Bond Index Fund	Boeing Company, The	5/1/2040	5.71	Fixed Income	500,000	499,101	0.044%
JNL Bond Index Fund	Apple Inc.	5/11/2050	2.65	Fixed Income	250,000	176,067	0.016%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2050	4.30	Fixed Income	153,871	149,576	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2050	3.00	Fixed Income	206,612	188,035	0.017%
JNL Bond Index Fund	Apple Inc.	5/11/2030	1.65	Fixed Income	250,000	223,597	0.020%
JNL Bond Index Fund	Starbucks Corporation	11/15/2030	2.55	Fixed Income	500,000	457,527	0.040%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2040	2.50	Fixed Income	171,256	156,489	0.014%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/25/2028	3.77	Fixed Income	500,000	497,777	0.044%
JNL Bond Index Fund	NextEra Energy Capital Holdings, Inc.	6/1/2030	2.25	Fixed Income	400,000	360,875	0.032%
JNL Bond Index Fund	Amgen Inc.	2/25/2031	2.30	Fixed Income	350,000	311,199	0.028%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2028	6.68	Fixed Income	2,561,600	2,505,365	0.222%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/01/2049	5.00	Fixed Income	25,588	25,077	0.002%
JNL Bond Index Fund	JPMorgan Chase & Co.	5/13/2031	2.96	Fixed Income	350,000	326,039	0.029%
JNL Bond Index Fund	Discovery Communications, LLC	5/15/2030	3.63	Fixed Income	400,000	364,989	0.032%
JNL Bond Index Fund	Zoetis Inc.	5/15/2030	2.00	Fixed Income	200,000	178,441	0.016%
JNL Bond Index Fund	Chevron Corporation	11/1/2030	2.24	Fixed Income	180,000	164,910	0.015%
JNL Bond Index Fund	AvolonBay Communities, Inc.	11/1/2031	2.45	Fixed Income	350,000	314,204	0.028%
JNL Bond Index Fund	Government National Mortgage Association	2/20/2040	3.50	Fixed Income	88,371	83,997	0.007%
JNL Bond Index Fund	Paycom Holdings, Inc.	6/1/2050	3.25	Fixed Income	200,000	151,347	0.013%
JNL Bond Index Fund	Wall Street Company, The	5/13/2060	3.80	Fixed Income	360,000	360,000	0.029%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	2,324	2,318	0.000%
JNL Bond Index Fund</							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2046	4.00	Fixed Income	143,257	140,422	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2050	2.50	Fixed Income	283,266	281,000	0.026%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2050	2.50	Fixed Income	341,899	298,449	0.026%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2050	3.00	Fixed Income	285,989	260,097	0.023%
JNL Bond Index Fund	Citigroup Commercial Mortgage Trust 2020-GC46	2/15/2030	2.92	Fixed Income	500,000	451,306	0.040%
JNL Bond Index Fund	Intercontinental Exchange, Inc.	6/15/2030	3.50	Fixed Income	400,000	359,416	0.032%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2047	3.50	Fixed Income	122,994	116,389	0.010%
JNL Bond Index Fund	JPMorgan Chase & Co.	6/1/2028	2.18	Fixed Income	500,000	477,795	0.042%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2045	3.50	Fixed Income	70,886	67,478	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2045	3.50	Fixed Income	48,449	46,226	0.004%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2045	3.00	Fixed Income	99,203	91,369	0.008%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2045	3.00	Fixed Income	113,051	104,123	0.009%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.50	Fixed Income	510,906	483,469	0.043%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2049	4.00	Fixed Income	132,004	128,567	0.011%
JNL Bond Index Fund	Nucor Corporation	6/1/2030	2.70	Fixed Income	300,000	290,017	0.025%
JNL Bond Index Fund	AT&T Inc.	6/1/2051	3.65	Fixed Income	500,000	388,040	0.034%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2050	4.50	Fixed Income	151,424	151,126	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2050	3.00	Fixed Income	247,072	224,703	0.020%
JNL Bond Index Fund	AT&T Inc.	6/1/2027	2.30	Fixed Income	500,000	491,054	0.043%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2040	1.13	Fixed Income	3,745,000	2,488,784	0.220%
JNL Bond Index Fund	Nutrien Ltd.	5/13/2050	3.95	Fixed Income	150,000	123,169	0.011%
JNL Bond Index Fund	American International Group, Inc.	6/30/2050	4.38	Fixed Income	350,000	317,051	0.028%
JNL Bond Index Fund	PPG Industries, Inc.	6/15/2030	2.35	Fixed Income	300,000	276,264	0.024%
JNL Bond Index Fund	Nutrien Ltd.	5/13/2030	2.95	Fixed Income	300,000	282,668	0.025%
JNL Bond Index Fund	CMS Energy Corporation	6/1/2050	4.75	Fixed Income	300,000	292,553	0.026%
JNL Bond Index Fund	Union Pacific Corporation	3/20/2060	3.84	Fixed Income	445,000	355,872	0.031%
JNL Bond Index Fund	Treasury, United States Department of	5/31/2027	0.50	Fixed Income	2,465,000	2,277,234	0.201%
JNL Bond Index Fund	Amazon.com, Inc.	6/3/2050	2.50	Fixed Income	200,000	134,069	0.012%
JNL Bond Index Fund	Microsoft Corporation	6/1/2050	2.53	Fixed Income	377,000	261,722	0.023%
JNL Bond Index Fund	Amazon.com, Inc.	6/3/2060	2.70	Fixed Income	55,000	35,945	0.003%
JNL Bond Index Fund	University of Pittsburgh-Of The Commonwealth System of Higher Education	9/15/2119	3.56	Fixed Income	300,000	210,949	0.019%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2040	3.00	Fixed Income	121,937	114,527	0.010%
JNL Bond Index Fund	Microsoft Corporation	6/1/2060	2.68	Fixed Income	179,000	119,636	0.011%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2050	3.00	Fixed Income	286,102	260,199	0.023%
JNL Bond Index Fund	GS Mortgage Securities Trust 2019-GSAL	10/15/2029	3.35	Fixed Income	100,000	94,015	0.008%
JNL Bond Index Fund	Southwest Airlines Co.	6/15/2027	5.13	Fixed Income	200,000	190,217	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/25/2029	1.78	Fixed Income	286,560	269,650	0.024%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2048	3.50	Fixed Income	28,663	27,109	0.002%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2045	3.50	Fixed Income	266,655	253,501	0.022%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2045	3.00	Fixed Income	108,163	104,163	0.009%
JNL Bond Index Fund	Crown Castle Inc.	11/15/2051	3.25	Fixed Income	50,000	35,968	0.003%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.00	Fixed Income	97,858	89,274	0.008%
JNL Bond Index Fund	Transportation, Texas Department of	4/1/2030	5.18	Fixed Income	400,000	421,494	0.037%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2048	3.50	Fixed Income	152,782	139,014	0.012%
JNL Bond Index Fund	Pacific Gas And Electric Company	8/1/2050	3.50	Fixed Income	105,000	76,584	0.007%
JNL Bond Index Fund	Pacific Gas And Electric Company	8/1/2027	2.10	Fixed Income	435,000	409,221	0.036%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2042	3.50	Fixed Income	135,852	130,930	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2043	3.00	Fixed Income	121,610	112,516	0.010%
JNL Bond Index Fund	ONEOK, Inc.	7/15/2028	4.55	Fixed Income	50,000	50,724	0.004%
JNL Bond Index Fund	Government National Mortgage Association	5/20/2050	3.00	Fixed Income	360,098	330,469	0.029%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2050	3.00	Fixed Income	229,061	208,466	0.018%
JNL Bond Index Fund	Merck & Co., Inc.	6/24/2050	2.45	Fixed Income	70,000	45,125	0.004%
JNL Bond Index Fund	Merck & Co., Inc.	6/24/2040	2.35	Fixed Income	55,000	40,673	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2049	3.00	Fixed Income	179,208	163,207	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2050	3.00	Fixed Income	242,858	221,022	0.020%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2050	3.50	Fixed Income	7,631	9,631	0.001%
JNL Bond Index Fund	Abbott Laboratories	6/30/2030	1.40	Fixed Income	300,000	263,391	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	3.00	Fixed Income	174,805	158,979	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	2.50	Fixed Income	224,096	195,617	0.017%
JNL Bond Index Fund	Amazon.com, Inc.	7/1/2035	2.50	Fixed Income	333,090	314,727	0.028%
JNL Bond Index Fund	Amazon.com, Inc.	6/30/2030	1.50	Fixed Income	180,000	134,344	0.012%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2040	2.00	Fixed Income	74,472	65,757	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2040	2.50	Fixed Income	224,896	205,451	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2050	2.50	Fixed Income	228,360	199,339	0.018%
JNL Bond Index Fund	Kimco Realty OP, L.L.C.	10/1/2030	3.00	Fixed Income	200,000	184,917	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2046	3.00	Fixed Income	248,992	228,629	0.020%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2048	3.50	Fixed Income	198,851	189,008	0.017%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2050	3.00	Fixed Income	154,981	140,671	0.012%
JNL Bond Index Fund	Pacific Gas And Electric Company	7/1/2050	4.95	Fixed Income	275,000	253,024	0.023%
JNL Bond Index Fund	Pacific Gas And Electric Company	7/1/2030	4.55	Fixed Income	235,000	235,966	0.021%
JNL Bond Index Fund	The Cigna Group	7/15/2046	4.80	Fixed Income	200,000	189,296	0.017%
JNL Bond Index Fund	The Cigna Group	10/15/2047	3.88	Fixed Income	60,000	49,559	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	3.00	Fixed Income	187,218	176,945	0.016%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2035	2.50	Fixed Income	333,501	314,907	0.028%
JNL Bond Index Fund	Bristol-Myers Squibb Company	2/20/2048	4.55	Fixed Income	70,000	64,905	0.006%
JNL Bond Index Fund	Bristol-Myers Squibb Company	10/26/2049	4.25	Fixed Income	100,000	170,280	0.015%
JNL Bond Index Fund	Bristol-Myers Squibb Company	2/20/2028	3.90	Fixed Income	200,000	199,899	0.018%
JNL Bond Index Fund	Bristol-Myers Squibb Company	7/26/2029	3.40	Fixed Income	75,000	73,163	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2035	2.50	Fixed Income	76,585	72,363	0.006%
JNL Bond Index Fund	Bristol-Myers Squibb Company	6/15/2039	4.13	Fixed Income	100,000	93,827	0.008%
JNL Bond Index Fund	Bristol-Myers Squibb Company	11/15/2047	4.35	Fixed Income	70,000	63,928	0.006%
JNL Bond Index Fund	U.S. Bancorp	7/22/2030	1.38	Fixed Income	100,000	85,389	0.008%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2050	3.00	Fixed Income	168,032	154,207	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	2.00	Fixed Income	4,150,000	3,431,531	0.304%
JNL Bond Index Fund	Bank of America Corporation	7/23/2031	1.90	Fixed Income	150,000	130,764	0.012%
JNL Bond Index Fund	Government National Mortgage Association	7/20/2048	4.50	Fixed Income	10,549	10,549	0.001%
JNL Bond Index Fund	RTX Corporation	11/16/2048	4.63	Fixed Income	90,000	84,945	0.008%
JNL Bond Index Fund	Florida Power & Light Company	6/1/2048	4.13	Fixed Income	600,000	533,824	0.047%
JNL Bond Index Fund	RTX Corporation	11/16/2028	4.13	Fixed Income	395,000	400,188	0.035%
JNL Bond Index Fund	Pacific Gas And Electric Company	1/1/2025	3.15	Fixed Income	345,000	344,314	0.030%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2050	2.50	Fixed Income	400,783	349,850	0.031%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	3/1/2050	3.00	Fixed Income	124,327	113,148	0.010%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	3.00	Fixed Income	207,868	189,049	0.017%
JNL Bond Index Fund	Government National Mortgage Association	6/20/2050	3.50	Fixed Income	145,778	143,178	0.013%
JNL Bond Index Fund	Rector & Visitors of The University of Virginia	9/1/2050	2.26	Fixed Income	300,000	187,937	0.017%
JNL Bond Index Fund	Simon Property Group, L.P.	7/15/2050	3.80	Fixed Income	200,000	160,615	0.014%
JNL Bond Index Fund	Treasury, United States Department of	7/13/2027	0.38	Fixed Income	1,865,000	1,706,488	0.151%
JNL Bond Index Fund	Mizuho Financial Group, Inc.	7/19/2031	2.20	Fixed Income	187,000	176,464	0.016%
JNL Bond Index Fund	Vale Overseas Ltd	7/8/2030	3.75	Fixed Income	100,000	95,741	0.008%
JNL Bond Index Fund	Simon Property Group, L.P.	7/15/2030	2.65	Fixed Income	200,000	184,468	0.016%
JNL Bond Index Fund	UDR, Inc.	8/1/2032	2.10	Fixed Income	200,000	165,869	0.015%
JNL Bond Index Fund	Pacific Gas And Electric Company	7/1/2040	4.50	Fixed Income	240,000	218,567	0.019%
JNL Bond Index Fund	Alphabet Inc.	8/15/2030	1.10	Fixed Income	280,000	241,179	0.021%
JNL Bond Index Fund	AstraZeneca PLC	8/6/2030	1.38	Fixed Income	80,000	68,990	0.006%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2040	2.50	Fixed Income	82,077	74,981	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2040	2.00	Fixed Income	95,557	84,375	0.007%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2050	3.00	Fixed Income	290,703	266,603	0.024%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2050	2.50	Fixed Income	254,880	222,330	0.020%
JNL Bond Index Fund	Public Service Electric And Gas Company	8/1/2050	2.05	Fixed Income	300,000	176,397	0.016%
JNL Bond Index Fund	Alphabet Inc.	8/15/2060	2.25	Fixed Income	225,000	138,824	0.012%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2049	2.50	Fixed Income	296,257	226,553	0.020%
JNL Bond Index Fund	Broadcom Inc.	11/15/2025	3.15	Fixed Income	100,000	99,789	0.009%
JNL Bond Index Fund	Broadcom Inc.	11/15/2030	4.15	Fixed Income	100,000	100,056	0.009%
JNL Bond Index Fund	Broadcom Inc.	4/15/2029	4.75	Fixed Income	200,000	207,579	0.018%
JNL Bond Index Fund	Government National Mortgage Association	8/20/2049	3.00	Fixed Income	111,878	102,777	0.009%
JNL Bond Index Fund	Ecolab Inc.	8/15/2050	2.13	Fixed Income	200,000	119,858	0.011%
JNL Bond Index Fund	Visa Inc.	8/15/2050	2.00	Fixed Income	280,000	170,216	0.015%
JNL Bond Index Fund	Chevron U.S.A. Inc.	8/12/2050	2.34	Fixed Income	40,000	25,147	0.002%
JNL Bond Index Fund	Ecolab Inc.	1/30/2031	1.30	Fixed Income	300,000	252,334	0.022%
JNL Bond Index Fund	Visa Inc.	2/15/2031	1.10	Fixed Income	300,000	252,012	0.022%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/25/2035	1.72	Fixed Income	750,000	587,353	0.052%
JNL Bond Index Fund	Broadcom Inc.	4/15/2030	5.00	Fixed Income	250,000	264,551	0.023%
JNL Bond Index Fund	Concast Corporation	8/15/2052	2.45	Fixed Income	750,000	458,541	0.041%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2050	3.00	Fixed Income	250,779	228,231	0.020%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2030	0.63	Fixed Income	7,475,000	6,304,822	0.558%
JNL Bond Index Fund	Public Service Enterprise Group Incorporated	8/15/2030	1.60	Fixed Income	200,000	171,203	0.015%
JNL Bond Index Fund	NISource Inc.	2/15/2031	1.70	Fixed Income	260,000	423,627	0.037%
JNL Bond Index Fund	CVS Health Corporation	8/21/2040	2.70	Fixed Income	70,000	50,032	0.004%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2050	1.38	Fixed Income	4,526,000	2,501,491	0.221%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2050	2.50	Fixed Income	260,889	227,571	0.020%
JNL Bond Index Fund	District of Columbia, Government of	12/1/2034	5.59	Fixed Income	220,000	232,877	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2050	2.00	Fixed Income	433,233	361,235	0.032%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2047	3.50	Fixed Income	159,713	151,957	0.013%
JNL Bond Index Fund	Cummins Inc.	9/1/2050	2.60	Fixed Income	200,000	130,507	0.012%
JNL Bond Index Fund	Intercontinental Exchange, Inc.	9/15/2060	3.00	Fixed Income	85,000	56,711	0.005%
JNL Bond Index Fund	Cummins Inc.	9/1/2030	1.50	Fixed Income	300,000	259,830	0.023%
JNL Bond Index Fund	Roper Technologies, Inc.	9/15/2027	1.40	Fixed Income	80,000	278,010	0.025%
JNL Bond Index Fund	ELI Lilly and Company	9/15/2060	2.50	Fixed Income	300,000	182,682	0.016%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2040	1.13	Fixed Income	1,500,000	984,186	0.087%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/1/2050	3.00	Fixed Income	189,834	169,125	0.015%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2050</					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2050	3.00	Fixed Income	196,525	178,856	0.016%
JNL Bond Index Fund	Ors Worldwide Corporation	2/15/2040	3.15	Fixed Income	300,000	242,154	0.023%
JNL Bond Index Fund	Unilever Capital Corporation	9/14/2030	1.38	Fixed Income	500,000	428,308	0.038%
JNL Bond Index Fund	O'Reilly Automotive, Inc.	3/15/2031	1.75	Fixed Income	300,000	254,033	0.022%
JNL Bond Index Fund	Deutsche Bank Aktiengesellschaft	9/18/2031	3.55	Fixed Income	300,000	279,735	0.025%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2035	2.50	Fixed Income	83,738	83,738	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2035	2.00	Fixed Income	341,511	314,651	0.028%
JNL Bond Index Fund	Coca-Cola Company, The	3/15/2031	1.38	Fixed Income	300,000	254,831	0.023%
JNL Bond Index Fund	Government National Mortgage Association	3/20/2050	3.50	Fixed Income	166,065	157,481	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	3/1/2035	2.50	Fixed Income	67,311	63,600	0.006%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2050	3.00	Fixed Income	243,162	208,710	0.020%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2050	3.00	Fixed Income	52,545	47,820	0.004%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2035	2.50	Fixed Income	37,854	35,767	0.003%
JNL Bond Index Fund	Export-Import Bank of Korea, The	11/10/2025	3.25	Fixed Income	400,000	399,918	0.035%
JNL Bond Index Fund	Lyons Banking Group P.L.C.	1/8/2048	4.34	Fixed Income	250,000	214,218	0.018%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	9/1/2050	2.50	Fixed Income	464,941	405,563	0.036%
JNL Bond Index Fund	Government National Mortgage Association	9/20/2050	2.50	Fixed Income	631,640	558,924	0.049%
JNL Bond Index Fund	B.A.T. International Finance P.L.C.	3/25/2026	1.67	Fixed Income	500,000	480,749	0.043%
JNL Bond Index Fund	San Diego Gas & Electric Company	10/1/2030	1.70	Fixed Income	200,000	174,600	0.015%
JNL Bond Index Fund	B.A.T. Capital Corporation	3/25/2031	2.73	Fixed Income	300,000	267,355	0.024%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2043	3.00	Fixed Income	224,663	223,931	0.020%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	10/1/2043	3.00	Fixed Income	220,449	204,824	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2045	3.50	Fixed Income	84,410	80,352	0.007%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2045	4.00	Fixed Income	16,605	16,286	0.001%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2050	3.00	Fixed Income	128,440	116,812	0.010%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2050	3.00	Fixed Income	137,999	125,505	0.011%
JNL Bond Index Fund	Gilead Sciences, Inc.	10/1/2027	1.20	Fixed Income	210,000	194,938	0.017%
JNL Bond Index Fund	Amgen Energy Corporation	11/5/2031	1.50	Fixed Income	300,000	255,195	0.023%
JNL Bond Index Fund	Gilead Sciences, Inc.	10/1/2030	1.65	Fixed Income	400,000	348,069	0.031%
JNL Bond Index Fund	Gilead Sciences, Inc.	10/1/2040	2.60	Fixed Income	100,000	76,183	0.007%
JNL Bond Index Fund	Treasury, United States Department of	8/28/2027	0.38	Fixed Income	2,220,908	2,019,916	0.179%
JNL Bond Index Fund	Government National Mortgage Association	4/20/2050	3.00	Fixed Income	248,751	228,230	0.020%
JNL Bond Index Fund	European Investment Bank	12/15/2025	0.38	Fixed Income	225,000	215,840	0.019%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2035	2.50	Fixed Income	188,001	177,636	0.016%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2040	2.00	Fixed Income	301,877	264,946	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2047	2.05	Fixed Income	439,012	375,044	0.034%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	1/1/2050	3.00	Fixed Income	63,363	57,706	0.005%
JNL Bond Index Fund	Government National Mortgage Association	10/20/2045	3.00	Fixed Income	70,798	65,504	0.006%
JNL Bond Index Fund	Berkshire Hathaway Finance Corporation	10/15/2050	2.85	Fixed Income	200,000	142,925	0.013%
JNL Bond Index Fund	Low's Companies, Inc.	10/15/2050	3.00	Fixed Income	300,000	258,219	0.018%
JNL Bond Index Fund	Steel Dynamics, Inc.	10/15/2050	3.25	Fixed Income	115,000	82,522	0.007%
JNL Bond Index Fund	Conagra Brands, Inc.	11/1/2027	1.38	Fixed Income	300,000	276,305	0.024%
JNL Bond Index Fund	Low's Companies, Inc.	10/15/2030	1.70	Fixed Income	400,000	347,324	0.031%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2028	3.50	Fixed Income	2,660,000	2,469,807	0.226%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2030	3.50	Fixed Income	2,880,000	2,682,583	0.255%
JNL Bond Index Fund	Oracle Corporation	2/6/2053	5.55	Fixed Income	95,000	98,101	0.009%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	1/1/2053	4.50	Fixed Income	459,936	454,003	0.040%
JNL Bond Index Fund	NextEra Energy Capital Holdings, Inc.	2/28/2053	5.25	Fixed Income	200,000	201,652	0.018%
JNL Bond Index Fund	NextEra Energy Capital Holdings, Inc.	2/28/2028	4.90	Fixed Income	200,000	205,151	0.018%
JNL Bond Index Fund	NextEra Energy Capital Holdings, Inc.	2/28/2030	5.00	Fixed Income	200,000	207,733	0.018%
JNL Bond Index Fund	Intel Corporation	2/10/2028	4.88	Fixed Income	130,000	132,282	0.012%
JNL Bond Index Fund	Intel Corporation	2/10/2033	5.10	Fixed Income	115,000	117,491	0.010%
JNL Bond Index Fund	BP Capital Markets America Inc.	2/13/2033	4.81	Fixed Income	95,000	96,760	0.009%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2053	3.63	Fixed Income	3,375,000	3,084,239	0.273%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2033	3.50	Fixed Income	2,840,000	2,803,439	0.248%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2026	4.00	Fixed Income	1,660,000	1,672,890	0.148%
JNL Bond Index Fund	Amgen Inc.	3/2/2030	5.25	Fixed Income	400,000	416,783	0.037%
JNL Bond Index Fund	Vodafone Group Public Limited Company	2/10/2063	5.75	Fixed Income	50,000	50,704	0.004%
JNL Bond Index Fund	Intel Corporation	2/10/2063	5.90	Fixed Income	125,000	126,485	0.011%
JNL Bond Index Fund	International Bank for Reconstruction and Development	2/14/2030	3.88	Fixed Income	210,000	213,050	0.019%
JNL Bond Index Fund	NextEra Energy Capital Holdings, Inc.	2/28/2030	5.00	Fixed Income	200,000	207,733	0.018%
JNL Bond Index Fund	Treasury, United States Department of	2/29/2028	4.00	Fixed Income	1,590,000	1,617,309	0.143%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2043	3.88	Fixed Income	625,000	509,223	0.045%
JNL Bond Index Fund	Florida Power & Light Company	4/1/2028	5.05	Fixed Income	100,000	105,667	0.009%
JNL Bond Index Fund	Treasury, United States Department of	2/29/2030	4.00	Fixed Income	915,000	955,719	0.083%
JNL Bond Index Fund	American Tower Corporation	2/15/2033	5.65	Fixed Income	200,000	211,800	0.019%
JNL Bond Index Fund	S&P Global Inc.	3/1/2027	2.45	Fixed Income	100,000	193,246	0.017%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2052	3.00	Fixed Income	183,430	165,161	0.015%
JNL Bond Index Fund	HSBC Holdings PLC	3/9/2034	6.25	Fixed Income	200,000	219,175	0.019%
JNL Bond Index Fund	Santander Holdings USA, Inc.	3/9/2029	6.50	Fixed Income	200,000	209,995	0.019%
JNL Bond Index Fund	Texas Instruments Incorporated	3/14/2053	5.00	Fixed Income	200,000	202,134	0.018%
JNL Bond Index Fund	TransCanada Pipelines Limited	3/9/2026	6.20	Fixed Income	200,000	200,863	0.018%
JNL Bond Index Fund	System Energy Resources, Inc.	4/15/2028	6.00	Fixed Income	100,000	102,000	0.009%
JNL Bond Index Fund	Kidco Power Company	3/15/2053	5.50	Fixed Income	100,000	103,724	0.009%
JNL Bond Index Fund	AEP Transmission Company, LLC	3/15/2053	5.40	Fixed Income	100,000	104,268	0.009%
JNL Bond Index Fund	Treasury, United States Department of	3/15/2026	4.63	Fixed Income	1,500,000	1,521,113	0.135%
JNL Bond Index Fund	Southwest Gas Corporation	3/23/2028	5.45	Fixed Income	100,000	103,317	0.009%
JNL Bond Index Fund	NiSource Inc.	3/30/2028	5.25	Fixed Income	100,000	102,906	0.009%
JNL Bond Index Fund	Republic Services, Inc.	4/1/2029	4.88	Fixed Income	100,000	105,193	0.009%
JNL Bond Index Fund	Nutrien Ltd.	3/27/2053	5.80	Fixed Income	100,000	105,918	0.009%
JNL Bond Index Fund	Nutrien Ltd.	3/27/2028	4.90	Fixed Income	100,000	102,020	0.009%
JNL Bond Index Fund	UnitedHealth Group Incorporated	1/15/2029	4.25	Fixed Income	100,000	101,629	0.009%
JNL Bond Index Fund	Simon Property Group, L.P.	3/8/2053	5.85	Fixed Income	100,000	107,712	0.010%
JNL Bond Index Fund	Magna International Inc.	3/21/2026	5.98	Fixed Income	200,000	200,460	0.018%
JNL Bond Index Fund	Duke Energy Progress, LLC	3/15/2053	5.35	Fixed Income	100,000	103,783	0.009%
JNL Bond Index Fund	Marsh & McLennan Companies, Inc.	5/15/2053	5.45	Fixed Income	100,000	104,155	0.009%
JNL Bond Index Fund	Principal Financial Group, Inc.	3/15/2053	5.50	Fixed Income	100,000	102,930	0.009%
JNL Bond Index Fund	Hewlett Packard Enterprise Company	4/1/2026	6.10	Fixed Income	200,000	206,158	0.018%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2028	3.63	Fixed Income	1,470,000	1,473,132	0.130%
JNL Bond Index Fund	S&P Global Inc.	8/1/2028	4.75	Fixed Income	100,000	102,706	0.009%
JNL Bond Index Fund	Astrazeneca Finance LLC	3/3/2030	4.90	Fixed Income	200,000	208,540	0.018%
JNL Bond Index Fund	S&P Global Inc.	3/1/2032	2.90	Fixed Income	200,000	182,642	0.016%
JNL Bond Index Fund	Texas Instruments Incorporated	3/14/2033	4.90	Fixed Income	100,000	105,036	0.009%
JNL Bond Index Fund	Avery Dennison Corporation	3/15/2033	5.75	Fixed Income	200,000	202,744	0.018%
JNL Bond Index Fund	Prologis, L.P.	6/15/2033	4.75	Fixed Income	100,000	102,744	0.009%
JNL Bond Index Fund	Brown-Forman Corporation	4/15/2033	4.75	Fixed Income	100,000	104,528	0.009%
JNL Bond Index Fund	Medtronic Global Holdings S.C.A.	3/30/2033	4.50	Fixed Income	100,000	100,661	0.009%
JNL Bond Index Fund	Simon Property Group, L.P.	3/8/2033	5.50	Fixed Income	100,000	105,060	0.009%
JNL Bond Index Fund	Rio Tinto Finance (USA) plc	3/9/2033	5.00	Fixed Income	100,000	105,080	0.009%
JNL Bond Index Fund	Principal Financial Group, Inc.	3/15/2033	5.38	Fixed Income	200,000	208,629	0.018%
JNL Bond Index Fund	Versak Analytics, Inc.	4/1/2033	5.75	Fixed Income	200,000	220,805	0.020%
JNL Bond Index Fund	MasterCard Incorporated	3/9/2033	4.95	Fixed Income	100,000	104,041	0.009%
JNL Bond Index Fund	Ameriprise Financial, Inc.	5/15/2033	5.15	Fixed Income	100,000	106,098	0.009%
JNL Bond Index Fund	California, State of	3/1/2033	6.00	Fixed Income	100,000	112,332	0.010%
JNL Bond Index Fund	Republic Services, Inc.	4/1/2034	5.00	Fixed Income	100,000	105,500	0.009%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2030	3.63	Fixed Income	1,000,000	1,000,725	0.089%
JNL Bond Index Fund	General Motors Financial Company, Inc.	4/8/2035	5.85	Fixed Income	300,000	321,673	0.028%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2052	3.50	Fixed Income	204,406	191,082	0.017%
JNL Bond Index Fund	Discover Card Execution Note Trust	3/16/2026	4.31	Fixed Income	250,000	250,870	0.022%
JNL Bond Index Fund	Micron Technology, Inc.	4/15/2028	5.38	Fixed Income	200,000	211,091	0.019%
JNL Bond Index Fund	Waste Management, Inc.	3/15/2028	1.15	Fixed Income	300,000	272,655	0.024%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2053	5.00	Fixed Income	890,739	894,595	0.079%
JNL Bond Index Fund	World Omnia Auto Receivables Trust 2023-B	9/15/2026	4.66	Fixed Income	200,000	200,915	0.018%
JNL Bond Index Fund	Walmart Inc.	4/15/2053	4.50	Fixed Income	200,000	197,337	0.017%
JNL Bond Index Fund	Walmart Inc.	4/15/2026	4.00	Fixed Income	200,000	204,256	0.018%
JNL Bond Index Fund	Canadian Pacific Kansas City Limited	5/1/2050	3.50	Fixed Income	300,000	237,241	0.021%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.00	Fixed Income	186,287	187,035	0.017%
JNL Bond Index Fund	Gouvernement de la Province de Quebec	4/13/2028	3.63	Fixed Income	300,000	303,677	0.027%
JNL Bond Index Fund	International Bank for Reconstruction and Development	7/12/2028	3.50	Fixed Income	205,000	205,705	0.018%
JNL Bond Index Fund	Walmart Inc.	4/15/2028	3.90	Fixed Income	200,000	204,626	0.018%
JNL Bond Index Fund	Inter-American Development Bank	4/12/2033	3.50	Fixed Income	95,000	94,036	0.008%
JNL Bond Index Fund	Mitsubishi UFJ Financial Group Inc.	4/19/2034	5.41	Fixed Income	200,000	215,862	0.019%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2028	3.50	Fixed Income	1,760,000	1,760,000	0.158%
JNL Bond Index Fund	Treasury, United States Department of	4/15/2026	3.75	Fixed Income	1,646,000	1,666,141	0.148%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2053	5.00	Fixed Income	468,387	470,122	0.042%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	695,024	706,770	0.063%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2030	4.50	Fixed Income	200,000	209,940	0.018%
JNL Bond Index Fund	Warnermedia Holdings, Inc.	3/15/2027	3.76	Fixed Income	200,000	200,566	0.026%
JNL Bond Index Fund	Warnermedia Holdings, Inc.	3/15/2062	5.39	Fixed Income	500,000	385,025	0.034%
JNL Bond Index Fund	Phillips 66	10/1/2046	4.90	Fixed Income	150,000	142,211	0.013%
JNL Bond Index Fund	Northern States Power Company	5/15/2053	5.00	Fixed Income	200,000	205,722	0.018%
JNL Bond Index Fund	Meta Platforms, Inc.	5/15/2053	5.80	Fixed Income	200,000	220,886	0.020%
JNL Bond Index Fund	Comcast Corporation	5/15/2064	5.50	Fixed Income	120,000	126,594	0.011%
JNL Bond Index Fund	Meta Platforms, Inc.	5/15/2030	4.80	Fixed Income	100,000	105,808	0.009%
JNL Bond Index Fund	GM Financial Consumer Automobile Receivables Trust 2023-1	8/1/2026	4.66	Fixed Income	200,000	200,967	0.018%
JNL Bond Index Fund	Barclays PLC	3/9/2027	5.83	Fixed Income	200,000	212,507	0.019%
JNL Bond Index Fund	Barclays PLC	5/9/2034	6.22	Fixed Income	300,000	330,870	0.029%
JNL Bond Index Fund	Caterpillar Financial Services Corporation	5/15/2026	4.35	Fixed Income	200,000	204,615	0.018%
JNL Bond Index Fund	T-Mobile USA, Inc.	11/5/2054	5.75	Fixed Income	200,000	214,608	0.019%
JNL Bond Index Fund	Federal Farm Credit Banks Consolidated Systemwide Bonds	8/10/					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Coverbridge Financial, Inc.	4/5/2052	4.40	Fixed Income	200,000	175,434	0.016%
JNL Bond Index Fund	Coverbridge Financial, Inc.	4/5/2027	3.45	Fixed Income	200,000	200,284	0.018%
JNL Bond Index Fund	Treasury, United States Department of	5/31/2028	3.63	Fixed Income	1,779,122	1,779,122	0.157%
JNL Bond Index Fund	Coverbridge Financial, Inc.	4/5/2032	3.90	Fixed Income	200,000	191,419	0.017%
JNL Bond Index Fund	JPMorgan Chase & Co.	6/1/2034	5.35	Fixed Income	500,000	532,161	0.047%
JNL Bond Index Fund	Merck & Co., Inc.	5/17/2053	5.00	Fixed Income	200,000	205,409	0.018%
JNL Bond Index Fund	Apple Inc.	5/10/2053	4.85	Fixed Income	100,000	104,885	0.009%
JNL Bond Index Fund	HCA Inc.	6/1/2053	5.90	Fixed Income	200,000	212,664	0.019%
JNL Bond Index Fund	PMC Corporation	5/18/2053	6.38	Fixed Income	200,000	218,903	0.019%
JNL Bond Index Fund	Baltimore Gas and Electric Company	6/1/2053	5.40	Fixed Income	200,000	210,687	0.019%
JNL Bond Index Fund	Meta Platforms, Inc.	5/15/2063	5.75	Fixed Income	165,000	184,152	0.016%
JNL Bond Index Fund	Merck & Co., Inc.	5/17/2063	5.15	Fixed Income	100,000	104,137	0.009%
JNL Bond Index Fund	Apple Inc.	5/10/2028	4.00	Fixed Income	200,000	205,125	0.018%
JNL Bond Index Fund	Comcast Corporation	11/5/2029	4.55	Fixed Income	100,000	102,858	0.009%
JNL Bond Index Fund	Meta Platforms, Inc.	5/15/2033	4.95	Fixed Income	85,000	90,499	0.008%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2043	3.88	Fixed Income	680,000	664,665	0.059%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	4/1/2053	4.00	Fixed Income	467,247	450,261	0.040%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2053	4.50	Fixed Income	467,021	460,850	0.041%
JNL Bond Index Fund	Toyota Auto Receivables 2022-C Owner Trust	8/17/2026	3.77	Fixed Income	145,000	143,578	0.013%
JNL Bond Index Fund	Truist Financial Corporation	6/8/2027	6.05	Fixed Income	200,000	209,020	0.018%
JNL Bond Index Fund	Capital One Financial Corporation	6/8/2034	6.38	Fixed Income	400,000	440,094	0.039%
JNL Bond Index Fund	American Express Credit Account Master Trust	5/15/2026	4.87	Fixed Income	200,000	202,715	0.018%
JNL Bond Index Fund	Brookfield Capital Finance LLC	6/14/2033	6.09	Fixed Income	200,000	220,256	0.019%
JNL Bond Index Fund	GE HealthCare Technologies Inc.	11/15/2027	5.65	Fixed Income	130,000	137,978	0.012%
JNL Bond Index Fund	NatWest Group PLC	9/13/2029	5.81	Fixed Income	200,000	210,109	0.019%
JNL Bond Index Fund	Ally Financial Inc.	6/13/2029	6.99	Fixed Income	200,000	216,105	0.019%
JNL Bond Index Fund	GE HealthCare Technologies Inc.	11/22/2032	5.92	Fixed Income	100,000	110,549	0.010%
JNL Bond Index Fund	UBS Group AG	5/15/2045	4.88	Fixed Income	350,000	346,070	0.031%
JNL Bond Index Fund	Sempra	8/1/2026	5.40	Fixed Income	200,000	205,603	0.018%
JNL Bond Index Fund	Aktiebolaget Svensk Exportkredit	6/14/2028	4.13	Fixed Income	300,000	307,679	0.027%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2028	4.00	Fixed Income	1,735,000	1,739,564	0.157%
JNL Bond Index Fund	Landwirtschaftliche Rentenbank	6/14/2028	3.88	Fixed Income	200,000	204,211	0.018%
JNL Bond Index Fund	International Bank for Reconstruction and Development	6/26/2028	4.50	Fixed Income	200,000	202,144	0.018%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2026	6.00	Fixed Income	1,285,000	1,331,389	0.118%
JNL Bond Index Fund	McKesson Corporation	7/15/2033	5.10	Fixed Income	200,000	209,602	0.019%
JNL Bond Index Fund	Sempra	8/1/2033	5.63	Fixed Income	200,000	216,107	0.019%
JNL Bond Index Fund	Fortune Brands Innovations, Inc.	6/1/2033	5.88	Fixed Income	200,000	218,784	0.019%
JNL Bond Index Fund	Dollar General Corporation	7/5/2033	5.45	Fixed Income	200,000	206,446	0.018%
JNL Bond Index Fund	HSBC Holdings PLC	6/20/2034	6.55	Fixed Income	200,000	222,223	0.020%
JNL Bond Index Fund	Treasury, United States Department of	6/15/2026	4.13	Fixed Income	1,615,000	1,645,509	0.144%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2030	3.75	Fixed Income	1,415,000	1,437,696	0.127%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	6/1/2037	1.50	Fixed Income	706,222	630,902	0.056%
JNL Bond Index Fund	Toronto-Dominion Bank, The	7/17/2026	5.53	Fixed Income	400,000	414,715	0.037%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	8/17/2026	5.83	Fixed Income	237,212	246,174	0.021%
JNL Bond Index Fund	Toyota Auto Receivables 2023-A Owner Trust	9/15/2027	4.63	Fixed Income	250,000	251,077	0.022%
JNL Bond Index Fund	Carmax Auto Owner Trust 2023-3	1/15/2027	5.28	Fixed Income	250,000	253,912	0.022%
JNL Bond Index Fund	Ginnie Mae II	7/20/2053	5.50	Fixed Income	277,528	281,624	0.025%
JNL Bond Index Fund	7RW	7/15/2033	4.13	Fixed Income	700,000	719,267	0.064%
JNL Bond Index Fund	Treasury, United States Department of	7/31/2030	4.00	Fixed Income	1,415,000	1,452,173	0.128%
JNL Bond Index Fund	Rogers Communications Inc.	3/15/2052	4.55	Fixed Income	300,000	259,752	0.023%
JNL Bond Index Fund	Treasury, United States Department of	7/15/2026	4.50	Fixed Income	1,620,000	1,657,980	0.147%
JNL Bond Index Fund	State Street Corporation	9/30/2026	5.27	Fixed Income	200,000	205,549	0.018%
JNL Bond Index Fund	Treasury, United States Department of	7/31/2028	4.13	Fixed Income	1,590,000	1,632,105	0.144%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	7/1/2053	5.00	Fixed Income	648,466	650,665	0.058%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2053	6.57	Fixed Income	467,138	468,455	0.057%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	7/1/2053	5.50	Fixed Income	638,469	649,034	0.057%
JNL Bond Index Fund	Wells Fargo Bank, National Association	8/7/2053	5.45	Fixed Income	250,000	258,097	0.023%
JNL Bond Index Fund	HSBC Holdings PLC	8/14/2027	5.89	Fixed Income	400,000	413,301	0.037%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2053	4.13	Fixed Income	3,965,000	3,969,781	0.351%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.50	Fixed Income	6,175,000	6,366,281	0.563%
JNL Bond Index Fund	ONEOK, Inc.	8/1/2053	6.63	Fixed Income	150,000	167,107	0.015%
JNL Bond Index Fund	ONEOK, Inc.	11/1/2028	5.65	Fixed Income	150,000	160,343	0.014%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.00	Fixed Income	6,250,000	6,386,963	0.565%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2033	3.88	Fixed Income	3,570,000	3,617,232	0.320%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2026	4.38	Fixed Income	1,695,000	1,725,590	0.153%
JNL Bond Index Fund	Assured Guaranty US Holdings Inc.	9/15/2028	6.13	Fixed Income	300,000	319,056	0.028%
JNL Bond Index Fund	Charles Schwab Corporation, The	8/24/2026	5.88	Fixed Income	200,000	206,825	0.018%
JNL Bond Index Fund	Charles Schwab Corporation, The	8/24/2034	6.14	Fixed Income	200,000	220,168	0.019%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2043	4.38	Fixed Income	480,000	506,072	0.045%
JNL Bond Index Fund	McDonald's Corporation	8/14/2053	5.45	Fixed Income	300,000	314,941	0.028%
JNL Bond Index Fund	Lloyds Banking Group PLC	8/7/2027	5.99	Fixed Income	200,000	207,152	0.018%
JNL Bond Index Fund	Huntington Bancshares Incorporated	8/21/2029	6.21	Fixed Income	300,000	319,376	0.028%
JNL Bond Index Fund	ConocoPhillips Company	9/15/2033	6.05	Fixed Income	300,000	309,000	0.027%
JNL Bond Index Fund	The PNC Financial Services Group, Inc.	8/18/2034	5.94	Fixed Income	400,000	434,554	0.038%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2030	4.13	Fixed Income	1,570,000	1,616,807	0.143%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2028	4.38	Fixed Income	3,100,000	3,201,838	0.283%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	6.50	Fixed Income	2,025,000	2,071,639	0.183%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/25/2033	4.20	Fixed Income	150,000	150,743	0.013%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	5/1/2053	6.00	Fixed Income	433,741	446,126	0.039%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	5.00	Fixed Income	300,000	303,762	0.027%
JNL Bond Index Fund	Ginnie Mae II	5/20/2053	5.00	Fixed Income	370,117	373,042	0.033%
JNL Bond Index Fund	Ginnie Mae II	8/20/2053	5.00	Fixed Income	381,443	383,853	0.034%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	6.00	Fixed Income	3,925,000	3,990,889	0.353%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	4.50	Fixed Income	250,000	250,703	0.022%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	5.50	Fixed Income	250,000	255,488	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	2.50	Fixed Income	450,000	469,540	0.041%
JNL Bond Index Fund	Intuit Inc.	9/15/2053	5.50	Fixed Income	300,000	323,425	0.029%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.50	Fixed Income	300,000	309,457	0.027%
JNL Bond Index Fund	Bank of America Corporation	9/15/2034	5.87	Fixed Income	250,000	270,533	0.024%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	6.00	Fixed Income	2,025,000	2,071,639	0.183%
JNL Bond Index Fund	Presidencia de la Republica de Chile	9/21/2071	3.25	Fixed Income	600,000	402,068	0.036%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	5.00	Fixed Income	50,000	50,664	0.004%
JNL Bond Index Fund	Council of Federal Home Loan Banks	6/12/2026	4.75	Fixed Income	1,200,000	1,236,895	0.109%
JNL Bond Index Fund	Intuit Inc.	9/15/2033	5.50	Fixed Income	100,000	105,690	0.009%
JNL Bond Index Fund	BHP Billiton Finance (USA) Limited	9/8/2033	5.25	Fixed Income	75,000	78,837	0.007%
JNL Bond Index Fund	Treasury, United States Department of	9/15/2026	4.63	Fixed Income	1,715,000	1,719,322	0.155%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2028	4.63	Fixed Income	3,500,000	3,636,070	0.322%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.00	Fixed Income	875,000	896,071	0.080%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2030	4.63	Fixed Income	1,485,000	1,564,079	0.138%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	6.50	Fixed Income	50,000	51,113	0.005%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	6.00	Fixed Income	150,000	152,442	0.013%
JNL Bond Index Fund	Government National Mortgage Association	11/15/2054	6.50	Fixed Income	50,000	50,664	0.004%
JNL Bond Index Fund	Dell International L.L.C.	12/15/2051	3.45	Fixed Income	22,000	16,352	0.001%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	4/1/2053	4.50	Fixed Income	373,862	369,040	0.033%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2053	6.00	Fixed Income	363,333	373,253	0.033%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	9/1/2053	5.50	Fixed Income	464,738	472,475	0.042%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/1/2053	5.00	Fixed Income	385,614	388,614	0.037%
JNL Bond Index Fund	BMO 2023-CS Mortgage Trust	5/17/2033	5.77	Fixed Income	350,000	377,824	0.034%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2053	6.00	Fixed Income	696,878	716,007	0.063%
JNL Bond Index Fund	Energy Transfer LP	12/1/2033	6.55	Fixed Income	75,000	84,478	0.007%
JNL Bond Index Fund	Carmax Auto Owner Trust 2023-4	4/15/2027	6.00	Fixed Income	300,000	309,439	0.027%
JNL Bond Index Fund	Kenvue Inc.	3/22/2053	5.05	Fixed Income	200,000	206,144	0.018%
JNL Bond Index Fund	Kenvue Inc.	3/22/2063	5.20	Fixed Income	100,000	102,854	0.009%
JNL Bond Index Fund	Kenvue Inc.	3/22/2030	5.00	Fixed Income	200,000	209,222	0.019%
JNL Bond Index Fund	Kenvue Inc.	3/22/2033	4.90	Fixed Income	100,000	103,530	0.009%
JNL Bond Index Fund	Kenvue Inc.	3/22/2026	5.35	Fixed Income	200,000	203,865	0.018%
JNL Bond Index Fund	Trust Financial Corporation	10/30/2029	7.16	Fixed Income	400,000	450,231	0.040%
JNL Bond Index Fund	New York, City of	10/1/2053	5.83	Fixed Income	200,000	235,786	0.021%
JNL Bond Index Fund	Atmos Energy Corporation	11/15/2053	6.20	Fixed Income	200,000	235,265	0.021%
JNL Bond Index Fund	Atmos Energy Corporation	11/15/2033	5.90	Fixed Income	100,000	112,080	0.010%
JNL Bond Index Fund	Fox Corporation	10/13/2033	6.50	Fixed Income	200,000	224,501	0.020%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2025	5.00	Fixed Income	2,365,000	2,440,352	0.216%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2028	4.88	Fixed Income	2,065,000	2,208,119	0.195%
JNL Bond Index Fund	Treasury, United States Department of	10/31/2030	4.88	Fixed Income	1,510,000	1,642,258	0.145%
JNL Bond Index Fund	GATX Corporation	6/30/2034	6.90	Fixed Income	200,000	233,569	0.021%
JNL Bond Index Fund	Volkswagen Auto Loan Enhanced Trust 2023-1	6/20/2028	5.02	Fixed Income	100,000	101,268	0.009%
JNL Bond Index Fund	European Investment Bank	3/15/2027	1.38	Fixed Income	800,000	756,271	0.067%
JNL Bond Index Fund	Humana Inc.	3/15/2034	5.95	Fixed Income	250,000	267,953	0.024%
JNL Bond Index Fund	RTX Corporation	3/15/2054	6.40	Fixed Income	200,000	236,774	0.021%
JNL Bond Index Fund	Sysco Corporation	1/17/2034	6.00	Fixed Income	200,000	221,943	0.020%
JNL Bond Index Fund	RTX Corporation	3/15/2034	6.10	Fixed Income	250,000	276,896	0.024%
JNL Bond Index Fund	Pacific Gas And Electric Company	3/15/2034	6.39	Fixed Income	200,000	228,210	0.020%
JNL Bond Index Fund	HSBC Holdings PLC	11/13/2034	7.40	Fixed Income	250,000	293,915	0.026%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2033	4.50	Fixed Income	4,680,000	5,022,066	0.444%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2053	4.75	Fixed Income	2,445,000	2,744,828	0.243%
JNL Bond Index Fund	O'Reilly Automotive, Inc.	11/20/2026	5.75	Fixed Income	100,000	105,169	0.009%
JNL Bond Index Fund	American Honda Finance Corporation	11/15/2028	5.65	Fixed Income	50,000	53,844	0.005%
JNL Bond Index Fund	GLP Financing, LLC	12/1/2033	6.75	Fixed Income	200,000	224,914	0.020%
JNL Bond Index Fund</							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Charter Communications Operating, LLC	2/1/2034	6.65	Fixed Income	250,000	264,589	0.023%
JNL Bond Index Fund	Treasury, United States Department of	11/15/2043	4.75	Fixed Income	2,000,000	2,180,000	0.184%
JNL Bond Index Fund	Treasury, United States Department of	11/30/2028	4.38	Fixed Income	2,160,000	2,257,908	0.200%
JNL Bond Index Fund	Treasury, United States Department of	11/30/2025	4.88	Fixed Income	2,310,000	2,373,111	0.210%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2053	5.50	Fixed Income	713,019	724,891	0.064%
JNL Bond Index Fund	Toronto-Dominion Bank, The	12/1/2026	5.26	Fixed Income	200,000	209,182	0.018%
JNL Bond Index Fund	Styker Corporation	12/8/2038	4.85	Fixed Income	200,000	208,177	0.018%
JNL Bond Index Fund	Ally Financial Inc.	1/3/2030	6.85	Fixed Income	200,000	214,468	0.019%
JNL Bond Index Fund	Treasury, United States Department of	12/15/2026	4.38	Fixed Income	105,000	108,013	0.010%
JNL Bond Index Fund	Ameren Corporation	1/15/2029	5.00	Fixed Income	200,000	206,878	0.018%
JNL Bond Index Fund	Wells Fargo Bank, National Association	12/1/2026	5.25	Fixed Income	250,000	260,265	0.023%
JNL Bond Index Fund	General Motors Financial Company, Inc.	1/7/2029	5.80	Fixed Income	300,000	315,959	0.028%
JNL Bond Index Fund	One Gas, Inc.	4/1/2029	5.10	Fixed Income	200,000	211,969	0.019%
JNL Bond Index Fund	Republic Services, Inc.	12/15/2033	5.00	Fixed Income	200,000	209,111	0.018%
JNL Bond Index Fund	Crown Castle Inc.	3/1/2034	5.80	Fixed Income	300,000	319,108	0.028%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2028	3.75	Fixed Income	640,000	650,465	0.058%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2030	3.75	Fixed Income	1,155,000	1,172,804	0.104%
JNL Bond Index Fund	Treasury, United States Department of	12/31/2025	4.25	Fixed Income	2,225,000	2,258,980	0.200%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/7/2054	6.40	Fixed Income	200,000	206,215	0.018%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	12/1/2053	6.00	Fixed Income	229,178	235,364	0.021%
JNL Bond Index Fund	BBCMS Mortgage Trust 2023-C21	6/1/2033	6.00	Fixed Income	200,000	219,752	0.019%
JNL Bond Index Fund	Wells Fargo & Company	1/23/2035	5.50	Fixed Income	250,000	264,468	0.023%
JNL Bond Index Fund	Morgan Stanley	1/18/2035	5.47	Fixed Income	250,000	264,566	0.023%
JNL Bond Index Fund	JPMorgan Chase & Co.	1/23/2035	5.34	Fixed Income	250,000	263,827	0.023%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2026	4.25	Fixed Income	2,035,000	2,060,382	0.182%
JNL Bond Index Fund	Asian Development Bank	1/12/2027	4.13	Fixed Income	200,000	203,870	0.018%
JNL Bond Index Fund	International Bank for Reconstruction and Development	1/10/2031	4.00	Fixed Income	500,000	512,865	0.045%
JNL Bond Index Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/7/2029	5.00	Fixed Income	200,000	205,428	0.018%
JNL Bond Index Fund	Trust Financial Corporation	1/24/2035	5.71	Fixed Income	250,000	266,388	0.024%
JNL Bond Index Fund	The PNC Financial Services Group, Inc.	1/22/2035	5.68	Fixed Income	250,000	268,034	0.024%
JNL Bond Index Fund	Treasury, United States Department of	1/31/2029	4.00	Fixed Income	4,500,000	4,606,996	0.408%
JNL Bond Index Fund	Caterpillar Financial Services Corporation	1/8/2034	1.70	Fixed Income	300,000	288,675	0.026%
JNL Bond Index Fund	General Motors Financial Company, Inc.	5/8/2027	5.40	Fixed Income	250,000	264,032	0.023%
JNL Bond Index Fund	John Deere Capital Corporation	3/8/2027	2.35	Fixed Income	300,000	289,260	0.026%
JNL Bond Index Fund	JPMorgan Chase & Co.	2/1/2044	4.85	Fixed Income	300,000	302,181	0.027%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2034	3.85	Fixed Income	3,895,000	3,912,948	0.344%
JNL Bond Index Fund	Philip Morris International Inc.	2/12/2027	4.75	Fixed Income	250,000	255,465	0.023%
JNL Bond Index Fund	American Express Company	2/16/2028	5.10	Fixed Income	250,000	255,916	0.023%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2027	4.13	Fixed Income	2,080,000	2,115,008	0.187%
JNL Bond Index Fund	Bristol-Myers Squibb Company	2/2/2034	5.00	Fixed Income	250,000	258,734	0.023%
JNL Bond Index Fund	Bristol-Myers Squibb Company	2/22/2054	5.55	Fixed Income	135,000	143,994	0.013%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2054	4.25	Fixed Income	2,465,000	2,525,754	0.223%
JNL Bond Index Fund	Marrion International, Inc.	5/15/2034	5.30	Fixed Income	250,000	262,017	0.023%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	5/1/2053	6.00	Fixed Income	481,549	493,181	0.043%
JNL Bond Index Fund	Cisco Systems, Inc.	2/26/2034	5.05	Fixed Income	250,000	264,044	0.023%
JNL Bond Index Fund	AstraZeneca Finance LLC	2/26/2034	5.00	Fixed Income	250,000	261,951	0.023%
JNL Bond Index Fund	Carrier Global Corporation	3/15/2034	5.90	Fixed Income	208,000	227,339	0.020%
JNL Bond Index Fund	The Korea Development Bank	2/15/2027	4.63	Fixed Income	250,000	255,227	0.023%
JNL Bond Index Fund	Eli Lilly and Company	2/9/2027	4.50	Fixed Income	250,000	255,099	0.023%
JNL Bond Index Fund	AstraZeneca Finance LLC	2/26/2027	4.80	Fixed Income	250,000	256,094	0.023%
JNL Bond Index Fund	Cisco Systems, Inc.	2/26/2027	4.80	Fixed Income	250,000	256,100	0.023%
JNL Bond Index Fund	Alexandria Real Estate Equities, Inc.	5/15/2054	5.63	Fixed Income	800,000	818,102	0.073%
JNL Bond Index Fund	Inter-American Investment Corporation	2/14/2029	4.25	Fixed Income	400,000	410,303	0.036%
JNL Bond Index Fund	Air Products and Chemicals, Inc.	2/8/2029	4.60	Fixed Income	300,000	309,424	0.027%
JNL Bond Index Fund	Barrings BDC, Inc.	2/15/2029	7.00	Fixed Income	300,000	316,218	0.028%
JNL Bond Index Fund	Air Products and Chemicals, Inc.	2/8/2034	4.85	Fixed Income	250,000	259,996	0.023%
JNL Bond Index Fund	Marsh & McLennan Companies, Inc.	3/15/2034	5.15	Fixed Income	250,000	261,886	0.023%
JNL Bond Index Fund	PepsiCo Singapore Financing I Pte. Ltd.	2/16/2034	4.70	Fixed Income	250,000	256,405	0.023%
JNL Bond Index Fund	Waste Connections, Inc.	3/1/2034	5.00	Fixed Income	250,000	257,828	0.023%
JNL Bond Index Fund	The Estée Lauder Companies Inc.	2/14/2034	5.00	Fixed Income	250,000	260,223	0.023%
JNL Bond Index Fund	European Investment Bank	2/15/2034	4.13	Fixed Income	250,000	258,734	0.023%
JNL Bond Index Fund	Texas Instruments Incorporated	2/8/2034	4.85	Fixed Income	250,000	261,320	0.023%
JNL Bond Index Fund	American Water Capital Corp.	3/1/2034	5.15	Fixed Income	250,000	261,896	0.023%
JNL Bond Index Fund	Eli Lilly and Company	2/9/2034	4.70	Fixed Income	250,000	257,432	0.023%
JNL Bond Index Fund	Starbucks Corporation	2/15/2034	5.00	Fixed Income	250,000	258,734	0.023%
JNL Bond Index Fund	Citigroup Inc.	2/13/2035	5.83	Fixed Income	95,000	99,938	0.009%
JNL Bond Index Fund	Banco De Desarrollo Para America Latina	4/1/2026	4.75	Fixed Income	698,000	720,127	0.064%
JNL Bond Index Fund	Ford Motor Company	11/1/2046	7.40	Fixed Income	300,000	339,873	0.030%
JNL Bond Index Fund	CHEK, Inc.	6/1/2030	3.25	Fixed Income	250,000	258,989	0.023%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2044	4.50	Fixed Income	615,000	645,249	0.057%
JNL Bond Index Fund	Chemiere Energy Partners, L.P.	6/30/2033	5.95	Fixed Income	200,000	214,729	0.019%
JNL Bond Index Fund	Treasury, United States Department of	2/28/2029	4.25	Fixed Income	3,715,000	3,831,844	0.339%
JNL Bond Index Fund	Treasury, United States Department of	2/28/2031	4.25	Fixed Income	1,620,000	1,681,077	0.149%
JNL Bond Index Fund	Treasury, United States Department of	2/28/2026	4.63	Fixed Income	2,425,000	2,461,507	0.218%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	481,930	489,904	0.043%
JNL Bond Index Fund	Chase Insurance Trust	1/16/2029	4.63	Fixed Income	200,000	205,712	0.018%
JNL Bond Index Fund	Toyota Auto Receivables 2024-A Owner Trust	4/16/2029	4.77	Fixed Income	300,000	305,558	0.027%
JNL Bond Index Fund	Barclays PLC	3/12/2055	6.04	Fixed Income	200,000	218,251	0.019%
JNL Bond Index Fund	Federal Home Loan Mortgage Corporation	11/1/2053	5.00	Fixed Income	724,321	726,777	0.064%
JNL Bond Index Fund	Urzard Rady Ministrow	3/18/2054	5.50	Fixed Income	135,000	138,075	0.012%
JNL Bond Index Fund	Humana Inc.	4/15/2054	5.75	Fixed Income	200,000	211,165	0.019%
JNL Bond Index Fund	Humana Inc.	4/15/2031	5.38	Fixed Income	200,000	213,890	0.019%
JNL Bond Index Fund	Urzard Rady Ministrow	9/18/2034	5.13	Fixed Income	115,000	118,472	0.010%
JNL Bond Index Fund	Smith & Nephew PLC	3/20/2034	5.40	Fixed Income	200,000	209,237	0.018%
JNL Bond Index Fund	Chubb RIA Holdings Inc.	9/15/2030	1.38	Fixed Income	400,000	343,180	0.030%
JNL Bond Index Fund	Consumer Energy Company	5/15/2033	4.63	Fixed Income	300,000	309,478	0.027%
JNL Bond Index Fund	Entergy Utility Enterprises, Inc.	9/1/2033	5.00	Fixed Income	400,000	409,805	0.036%
JNL Bond Index Fund	Appalachian Power Company	4/1/2034	5.65	Fixed Income	200,000	216,377	0.019%
JNL Bond Index Fund	Campbell Soup Company	3/21/2034	5.40	Fixed Income	200,000	209,574	0.019%
JNL Bond Index Fund	Treasury, United States Department of	2/15/2027	4.25	Fixed Income	2,150,000	2,192,800	0.194%
JNL Bond Index Fund	KW	3/1/2027	4.38	Fixed Income	300,000	306,271	0.027%
JNL Bond Index Fund	Keurig Dr Pepper Inc.	3/15/2027	5.10	Fixed Income	200,000	204,964	0.018%
JNL Bond Index Fund	Constellation Energy Generation, LLC	3/15/2054	5.75	Fixed Income	200,000	212,208	0.019%
JNL Bond Index Fund	San Diego Gas & Electric Company	4/15/2054	5.65	Fixed Income	200,000	212,132	0.019%
JNL Bond Index Fund	European Investment Bank	3/19/2027	4.38	Fixed Income	400,000	408,033	0.036%
JNL Bond Index Fund	UnitedHealth Group Incorporated	4/15/2054	5.38	Fixed Income	200,000	213,900	0.019%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2026	6.75	Fixed Income	2,590,000	2,755,588	0.244%
JNL Bond Index Fund	Banco Santander, S.A.	3/14/2030	5.54	Fixed Income	200,000	207,264	0.018%
JNL Bond Index Fund	Keurig Dr Pepper Inc.	3/15/2031	5.20	Fixed Income	200,000	209,242	0.019%
JNL Bond Index Fund	UnitedHealth Group Incorporated	4/15/2031	4.90	Fixed Income	200,000	213,157	0.019%
JNL Bond Index Fund	European Bank for Reconstruction and Development	3/1/2034	4.25	Fixed Income	300,000	308,588	0.027%
JNL Bond Index Fund	Asian Infrastructure Investment Bank	3/13/2034	4.25	Fixed Income	300,000	308,588	0.027%
JNL Bond Index Fund	Entergy Utility Assets, LLC	3/15/2034	5.35	Fixed Income	200,000	209,347	0.019%
JNL Bond Index Fund	CommonSpirit Health	12/1/2034	5.32	Fixed Income	200,000	209,986	0.019%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2026	4.50	Fixed Income	1,305,000	1,318,823	0.117%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2029	4.13	Fixed Income	3,500,000	3,580,240	0.317%
JNL Bond Index Fund	Treasury, United States Department of	3/31/2031	4.13	Fixed Income	1,350,000	1,386,858	0.123%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	11/1/2053	6.00	Fixed Income	713,132	732,603	0.065%
JNL Bond Index Fund	Diamondback Energy, Inc.	4/18/2034	5.40	Fixed Income	200,000	209,385	0.019%
JNL Bond Index Fund	Treasury, United States Department of	4/15/2027	4.50	Fixed Income	1,830,000	2,012,322	0.178%
JNL Bond Index Fund	JPMorgan Chase & Co.	4/22/2035	5.77	Fixed Income	115,000	119,808	0.011%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2029	4.63	Fixed Income	2,690,000	2,861,013	0.253%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2026	4.88	Fixed Income	2,650,000	2,749,195	0.243%
JNL Bond Index Fund	International Bank for Reconstruction and Development	4/10/2031	4.50	Fixed Income	300,000	319,461	0.028%
JNL Bond Index Fund	Boeing Company, The	5/1/2034	6.53	Fixed Income	400,000	440,335	0.039%
JNL Bond Index Fund	Federal Home Loan Bank of Topeka	4/9/2027	4.75	Fixed Income	1,200,000	1,259,480	0.111%
JNL Bond Index Fund	Treasury, United States Department of	4/30/2031	4.63	Fixed Income	1,690,000	1,818,300	0.161%
JNL Bond Index Fund	American Express Credit Account Master Trust	5/15/2028	4.80	Fixed Income	300,000	308,888	0.027%
JNL Bond Index Fund	Verizon Master Trust	7/21/2025	3.67	Fixed Income	300,000	298,225	0.026%
JNL Bond Index Fund	Coca-Cola Company, The	5/13/2054	5.30	Fixed Income	300,000	325,311	0.029%
JNL Bond Index Fund	Caterpillar Financial Services Corporation	5/14/2027	5.00	Fixed Income	300,000	314,079	0.028%
JNL Bond Index Fund	CVS Health Corporation	6/1/2029	5.40	Fixed Income	300,000	317,532	0.028%
JNL Bond Index Fund	HSBC Holdings PLC	5/17/2028	5.60	Fixed Income	300,000	315,234	0.028%
JNL Bond Index Fund	Chemiere Energy Partners, L.P.	8/15/2034	5.75	Fixed Income	300,000	319,452	0.028%
JNL Bond Index Fund	Charter Communications Operating, LLC	6/1/2034	6.55	Fixed Income	300,000	319,302	0.028%
JNL Bond Index Fund	Market Group Inc.	5/16/2054	6.00	Fixed Income	200,000	217,580	0.019%
JNL Bond Index Fund	Blackstone Secured Lending Fund	11/15/2027	5.88	Fixed Income	300,000	310,123	0.026%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2034	4.38	Fixed Income	5,680,000	6,042,776	0.535%
JNL Bond Index Fund	Ford Motor Credit Company LLC	5/17/2027	5.85	Fixed Income	300,000	312,277	0.028%
JNL Bond Index Fund	World Omni Auto Receivables Trust 2024-B	3/15/2028	5.27	Fixed Income	200,000	205,539	0.018%
JNL Bond Index Fund	Treasury, United States Department of	5/3/2027	4.50	Fixed Income	2,225,000	2,312,861	0.206%
JNL Bond Index Fund	Treasury, United States Department of	5/3/2024	4.63	Fixed Income	1,550,000	1,688,300	0.149%
JNL Bond Index Fund	Blue Owl Credit Income Corp.	6/13/2028	7.95	Fixed Income	200,000	218,772	0.019%
JNL Bond Index Fund	Goldman Sachs Bank USA	5/21/2027	5.41	Fixed Income	300,000	310,822	0.027%
JNL Bond Index Fund	Allstate Corporation	5/15/2034	5.50	Fixed Income	300,000	319,728	0.028%
JNL Bond Index Fund	Commonwealth Edison Company	6/1/2054	5.65	Fixed Income	200,000	219,444	0.019%
JNL Bond Index Fund	Dominion Energy, Inc.	2/1/2055	6.88	Fixed Income	300,000	321,224	0.028%
JNL Bond Index Fund	United Parcel Service, Inc.	5/22/2064	5.60	Fixed Income	200,000	217,743</	

Fund Name	Investor	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Bond Index Fund	Treasury, United States Department of	5/15/2044	4.63	Fixed Income	615,000	662,844	0.059%
JNL Bond Index Fund	Microsoft Corporation	6/15/2027	3.40	Fixed Income	200,000	200,639	0.018%
JNL Bond Index Fund	Treasury, United States Department of	6/15/2027	4.63	Fixed Income	2,205,000	2,294,697	0.203%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2029	4.25	Fixed Income	2,520,000	2,621,091	0.232%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2031	4.25	Fixed Income	2,855,000	2,934,179	0.260%
JNL Bond Index Fund	Nomura Holdings, Inc.	7/3/2034	5.78	Fixed Income	300,000	319,884	0.028%
JNL Bond Index Fund	Treasury, United States Department of	6/30/2026	4.63	Fixed Income	2,625,000	2,695,877	0.238%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/1/2054	6.00	Fixed Income	961,726	987,683	0.087%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	12/1/2053	5.50	Fixed Income	983,310	999,662	0.088%
JNL Bond Index Fund	Sumitomo Mitsui Financial Group, Inc.	7/6/2034	5.56	Fixed Income	300,000	322,030	0.028%
JNL Bond Index Fund	Ginnie Mae II	3/20/2054	5.50	Fixed Income	981,553	995,885	0.088%
JNL Bond Index Fund	JPMorgan Chase & Co.	7/22/2035	5.29	Fixed Income	200,000	210,890	0.019%
JNL Bond Index Fund	UnitedHealth Group Incorporated	1/15/2032	4.95	Fixed Income	400,000	417,497	0.037%
JNL Bond Index Fund	Broadcom Inc.	11/15/2031	5.15	Fixed Income	300,000	314,399	0.028%
JNL Bond Index Fund	American Honda Finance Corporation	7/10/2031	5.05	Fixed Income	400,000	416,280	0.037%
JNL Bond Index Fund	Treasury, United States Department of	7/31/2031	4.13	Fixed Income	1,370,000	1,417,838	0.125%
JNL Bond Index Fund	European Investment Bank	10/10/2031	4.38	Fixed Income	300,000	314,668	0.028%
JNL Bond Index Fund	Treasury, United States Department of	7/3/2027	4.38	Fixed Income	2,195,000	2,280,312	0.200%
JNL Bond Index Fund	Treasury, United States Department of	7/31/2029	4.00	Fixed Income	2,355,000	2,415,763	0.214%
JNL Bond Index Fund	Treasury, United States Department of	7/31/2026	4.38	Fixed Income	2,615,000	2,665,737	0.236%
JNL Bond Index Fund	Comision De Promocion De Pena Para La Exportacion Y El Turismo	8/8/2054	4.88	Fixed Income	200,000	211,857	0.019%
JNL Bond Index Fund	Hyundai Auto Receivables Trust 2024-B	11/15/2027	4.84	Fixed Income	200,000	203,807	0.018%
JNL Bond Index Fund	Enterprise Products Operating LLC	2/16/2055	5.55	Fixed Income	150,000	156,269	0.014%
JNL Bond Index Fund	Fiserv, Inc.	3/15/2030	4.75	Fixed Income	150,000	153,804	0.014%
JNL Bond Index Fund	Ford Credit Auto Lease Trust 2024-B	3/15/2027	4.99	Fixed Income	200,000	203,542	0.018%
JNL Bond Index Fund	Entergy Utility Assets, LLC	9/15/2034	4.15	Fixed Income	150,000	155,804	0.014%
JNL Bond Index Fund	Quanta Services, Inc.	8/9/2027	4.75	Fixed Income	200,000	203,443	0.018%
JNL Bond Index Fund	Meta Platforms, Inc.	8/15/2031	4.55	Fixed Income	200,000	206,665	0.018%
JNL Bond Index Fund	The Sherrin-Williams Company	3/1/2028	4.55	Fixed Income	200,000	203,930	0.018%
JNL Bond Index Fund	GE HealthCare Technologies Inc.	8/14/2029	4.80	Fixed Income	150,000	153,269	0.014%
JNL Bond Index Fund	HCA Inc.	9/15/2034	5.45	Fixed Income	200,000	207,289	0.018%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2034	3.88	Fixed Income	4,075,000	4,110,810	0.364%
JNL Bond Index Fund	Ginnie Mae II	5/20/2054	5.50	Fixed Income	748,570	759,500	0.067%
JNL Bond Index Fund	Nomura Holdings, Inc.	7/2/2027	5.59	Fixed Income	300,000	312,839	0.028%
JNL Bond Index Fund	Morgan Stanley	2/7/2039	5.94	Fixed Income	250,000	264,661	0.023%
JNL Bond Index Fund	6297782 LLC	9/1/2027	4.91	Fixed Income	200,000	202,134	0.018%
JNL Bond Index Fund	State Street Corporation	2/20/2029	4.53	Fixed Income	200,000	203,032	0.018%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2027	3.75	Fixed Income	2,180,000	2,200,660	0.195%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.00	Fixed Income	1,675,000	1,740,691	0.154%
JNL Bond Index Fund	Williams Companies, Inc. The	11/15/2054	5.80	Fixed Income	200,000	208,320	0.018%
JNL Bond Index Fund	Public Service Electric And Gas Company	8/1/2054	5.30	Fixed Income	200,000	211,131	0.019%
JNL Bond Index Fund	Maryland Economic Development Corporation	5/31/2056	5.43	Fixed Income	200,000	209,244	0.019%
JNL Bond Index Fund	Qwest Gaming	2/15/2030	4.50	Fixed Income	200,000	209,628	0.017%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2044	4.13	Fixed Income	600,000	598,474	0.053%
JNL Bond Index Fund	Treasury, United States Department of	8/15/2054	4.25	Fixed Income	1,440,000	1,475,477	0.131%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2029	3.63	Fixed Income	4,140,000	4,156,789	0.369%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2031	3.75	Fixed Income	2,730,000	2,743,185	0.243%
JNL Bond Index Fund	Treasury, United States Department of	8/31/2026	3.75	Fixed Income	2,590,000	2,601,959	0.230%
JNL Bond Index Fund	Verallto Corporation	9/18/2028	5.35	Fixed Income	300,000	313,032	0.028%
JNL Bond Index Fund	Uber Technologies, Inc.	9/15/2034	4.80	Fixed Income	300,000	300,121	0.027%
JNL Bond Index Fund	HF Sinclair Corporation	4/15/2027	6.38	Fixed Income	200,000	209,295	0.019%
JNL Bond Index Fund	ONEOK, Inc.	1/1/2054	5.70	Fixed Income	300,000	301,923	0.027%
JNL Bond Index Fund	ONEOK, Inc.	10/15/2029	4.40	Fixed Income	300,000	298,962	0.026%
JNL Bond Index Fund	Aetiv PLC	9/13/2029	4.65	Fixed Income	300,000	299,187	0.026%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	6/01/2039	6.00	Fixed Income	100,000	102,938	0.009%
JNL Bond Index Fund	Hewlett Packard Enterprise Company	10/15/2034	6.00	Fixed Income	100,000	98,997	0.009%
JNL Bond Index Fund	Government National Mortgage Association	10/15/2054	7.00	Fixed Income	650,000	666,628	0.059%
JNL Bond Index Fund	Sonoco Products Company	9/1/2034	5.00	Fixed Income	300,000	297,547	0.026%
JNL Bond Index Fund	Sonoco Products Company	9/1/2036	6.45	Fixed Income	300,000	300,545	0.027%
JNL Bond Index Fund	Fairfax Financial Holdings Limited	3/22/2054	6.35	Fixed Income	200,000	214,338	0.019%
JNL Bond Index Fund	Aptiv PLC	9/13/2054	5.75	Fixed Income	300,000	290,085	0.026%
JNL Bond Index Fund	Banco De Desarrollo Para America Latina	3/7/2028	4.13	Fixed Income	400,000	402,605	0.036%
JNL Bond Index Fund	African Development Bank	9/18/2029	3.50	Fixed Income	400,000	387,916	0.035%
JNL Bond Index Fund	John Deere Capital Corporation	9/9/2031	4.40	Fixed Income	300,000	303,028	0.027%
JNL Bond Index Fund	General Motors Financial Company, Inc.	9/6/2034	5.45	Fixed Income	300,000	299,996	0.027%
JNL Bond Index Fund	Treasury, United States Department of	5/15/2037	5.00	Fixed Income	200,000	227,090	0.020%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2026	3.50	Fixed Income	2,575,000	2,567,758	0.227%
JNL Bond Index Fund	Treasury, United States Department of	9/15/2027	3.38	Fixed Income	2,165,000	2,154,175	0.191%
JNL Bond Index Fund	Treasury, United States Department of	9/30/2029	3.50	Fixed Income	2,615,000	2,607,237	0.231%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	6.00	Fixed Income	75,000	77,255	0.007%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	7.00	Fixed Income	75,000	78,000	0.007%
JNL Bond Index Fund	Treasury, United States Department of	3/30/2031	3.63	Fixed Income	2,750,000	2,714,114	0.243%
JNL Bond Index Fund	Federal National Mortgage Association, Inc.	10/15/2039	1.50	Fixed Income	-50,000	(44,741)	-0.004%
Total Non Derivatives						1,130,385,227	
Derivatives							
Total Derivatives						0	
Total All Investments						1,130,385,227	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Causeway International Value Select Fund	Cash			Cash Equivalent	5,886	5,886	0.000%
JNL/Causeway International Value Select Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	25,218,764	25,325,210	1.258%
JNL/Causeway International Value Select Fund	Shell PLC			Equity	630,558	20,782,832	1.032%
JNL/Causeway International Value Select Fund	GSK PLC			Equity	2,101,851	43,410,369	2.156%
JNL/Causeway International Value Select Fund	NoviWest Group PLC			Equity	2,475,507	11,379,655	0.565%
JNL/Causeway International Value Select Fund	Diageo PLC			Equity	1,331,574	47,512,366	2.350%
JNL/Causeway International Value Select Fund	BP P.L.C.			Equity	9,209,713	48,151,367	2.392%
JNL/Causeway International Value Select Fund	Standard Chartered PLC			Equity	1,879,869	20,105,324	0.999%
JNL/Causeway International Value Select Fund	Prudential Public Limited Company			Equity	5,476,546	51,253,943	2.546%
JNL/Causeway International Value Select Fund	AstraZeneca Pl.C			Equity	270,243	42,156,497	2.094%
JNL/Causeway International Value Select Fund	Legal & General Group PLC			Equity	6,394,001	19,402,348	0.964%
JNL/Causeway International Value Select Fund	British American Tobacco P.L.C.			Equity	902,872	33,710,698	1.674%
JNL/Causeway International Value Select Fund	Check Point Software Technologies Ltd			Equity	59,099	11,394,878	0.566%
JNL/Causeway International Value Select Fund	Allianz SE			Equity	51,426	16,938,508	0.841%
JNL/Causeway International Value Select Fund	Infineon Technologies AG			Equity	1,121,735	39,402,496	1.957%
JNL/Causeway International Value Select Fund	Barclays PLC			Equity	22,934,136	68,816,512	3.418%
JNL/Causeway International Value Select Fund	Sanofi			Equity	295,182	33,965,908	1.687%
JNL/Causeway International Value Select Fund	SAP SE			Equity	187,348	42,807,302	2.126%
JNL/Causeway International Value Select Fund	Camfour			Equity	1,178,228	20,095,579	0.998%
JNL/Causeway International Value Select Fund	Kering			Equity	235,225	67,323,963	3.344%
JNL/Causeway International Value Select Fund	Deutsche Telekom AG			Equity	1,295,833	38,077,370	1.891%
JNL/Causeway International Value Select Fund	Koninklijke Philips N.V.			Equity	1,396,150	45,817,051	2.276%
JNL/Causeway International Value Select Fund	RWE Aktiengesellschaft			Equity	625,387	22,772,723	1.131%
JNL/Causeway International Value Select Fund	Kingfisher PLC			Equity	4,710,508	20,323,601	1.010%
JNL/Causeway International Value Select Fund	Murata Manufacturing Co., Ltd.			Equity	1,071,800	21,256,473	1.056%
JNL/Causeway International Value Select Fund	Fujitsu Limited			Equity	2,078,200	42,812,775	2.127%
JNL/Causeway International Value Select Fund	Shinhan Financial Group Co., Ltd.			Equity	225,729	9,577,695	0.476%
JNL/Causeway International Value Select Fund	FANUC Corporation			Equity	1,647,200	48,266,516	2.397%
JNL/Causeway International Value Select Fund	Takeda Pharmaceutical Co Ltd			Equity	679,400	19,930,645	0.990%
JNL/Causeway International Value Select Fund	SMC Corporation			Equity	52,900	23,687,728	1.177%
JNL/Causeway International Value Select Fund	Renesas Electronics Corporation			Equity	3,540,800	51,589,805	2.563%
JNL/Causeway International Value Select Fund	United Overseas Bank Limited			Equity	833,700	20,830,033	1.035%
JNL/Causeway International Value Select Fund	Samsung Electronics Co., Ltd.			Equity	1,457,250	68,593,379	3.407%
JNL/Causeway International Value Select Fund	Heineken N.V.			Equity	167,371	14,846,397	0.737%
JNL/Causeway International Value Select Fund	AXA			Equity	627,259	24,206,594	1.202%
JNL/Causeway International Value Select Fund	Societe d'exploitation Hoteliere			Equity	125,809	10,297,702	0.512%
JNL/Causeway International Value Select Fund	Roche Holding AG			Equity	166,936	53,179,479	2.642%
JNL/Causeway International Value Select Fund	Enel S.p.A			Equity	6,092,832	48,714,340	2.420%
JNL/Causeway International Value Select Fund	BHP Billiton			Equity	270,140	18,507,527	0.919%
JNL/Causeway International Value Select Fund	Compagnie De Saint-Gobain			Equity	413,396	37,615,520	1.868%
JNL/Causeway International Value Select Fund	Danone			Equity	413,213	30,080,834	1.494%
JNL/Causeway International Value Select Fund	Seven & I Holdings Co., Ltd.			Equity	2,072,600	31,594,636	1.569%
JNL/Causeway International Value Select Fund	Reckitt Benckiser Group PLC			Equity	995,831	60,846,488	3.022%
JNL/Causeway International Value Select Fund	Reix PLC			Equity	435,091	20,568,996	1.022%
JNL/Causeway International Value Select Fund	Alstom			Equity	3,732,457	77,566,287	3.853%
JNL/Causeway International Value Select Fund	L'Air Liquide, societe anonyme pour l'Etude et l'Exploitation des procedes Georges Claude			Equity	110,447	21,331,953	1.060%
JNL/Causeway International Value Select Fund	Amadeus IT Holding, S.A.			Equity	241,047	17,407,993	0.865%
JNL/Causeway International Value Select Fund	Julius Bar Gruppe AG			Equity	279,867	16,853,403	0.837%
JNL/Causeway International Value Select Fund	Rolls-Royce Holdings PLC			Equity	13,238,602	93,748,795	4.637%
JNL/Causeway International Value Select Fund	National Grid PLC			Equity	430,998	5,940,497	0.295%
JNL/Causeway International Value Select Fund	Compass Group PLC			Equity	314,546	10,089,925	0.501%
JNL/Causeway International Value Select Fund	Anheuser-Busch Inbev			Equity	592,300	39,188,420	1.947%
JNL/Causeway International Value Select Fund	ING Groep N.V.			Equity	1,105,824	20,122,403	1.000%
JNL/Causeway International Value Select Fund	Banco Bradesco SA			Equity	2,856,194	7,828,343	0.389%
JNL/Causeway International Value Select Fund	Tencent Holdings Limited			Equity	516,400	28,668,267	1.424%
JNL/Causeway International Value Select Fund	AENA, S.M.E., S.A.			Equity	51,954	11,424,618	0.567%
JNL/Causeway International Value Select Fund	ArceflorMital			Equity	1,151,193	30,310,153	1.506%
JNL/Causeway International Value Select Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	921,979	40,547,533	2.014%
JNL/Causeway International Value Select Fund	SEGRO Public Limited Company			Equity	1,308,788	15,304,570	0.760%
JNL/Causeway International Value Select Fund	Link Real Estate Investment Trust			Equity	2,037,600	10,151,413	0.504%
JNL/Causeway International Value Select Fund	Azko Nobel N.V.			Equity	812,440	57,416,116	2.852%
JNL/Causeway International Value Select Fund	Li Ning Company Limited			Equity	2,564,500	6,318,075	0.314%
JNL/Causeway International Value Select Fund	Canadian Pacific Kansas City Limited			Equity	416,908	35,715,155	1.774%
JNL/Causeway International Value Select Fund	Smurfit Westrock Public Limited Company			Equity	246,539	12,183,908	0.605%
JNL/Causeway International Value Select Fund	The Berkeley Group Holdings PLC			Equity	116,150	7,350,033	0.365%
Total Non Derivatives						2,013,203,292	
Derivatives							
Total Derivatives						0	
Total All Investments						2,013,203,292	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/ClearBridge Large Cap Growth Fund	Cash			Cash Equivalent	168,737	168,737	0.009%
JNL/ClearBridge Large Cap Growth Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	26,518,445	26,698,697	1.455%
JNL/ClearBridge Large Cap Growth Fund	Adobe Inc.			Equity	63,714	32,989,835	1.801%
JNL/ClearBridge Large Cap Growth Fund	Amazon.com, Inc.			Equity	752,940	140,295,310	7.658%
JNL/ClearBridge Large Cap Growth Fund	Apple Inc.			Equity	389,108	90,662,164	4.949%
JNL/ClearBridge Large Cap Growth Fund	Target Corporation			Equity	174,200	27,150,812	1.482%
JNL/ClearBridge Large Cap Growth Fund	NVIDIA Corporation			Equity	1,401,620	170,226,749	9.292%
JNL/ClearBridge Large Cap Growth Fund	Intuit Inc.			Equity	44,600	27,696,600	1.512%
JNL/ClearBridge Large Cap Growth Fund	Salesforce, Inc.			Equity	148,030	40,576,503	2.215%
JNL/ClearBridge Large Cap Growth Fund	W.W. Grainger, Inc.			Equity	34,646	35,990,511	1.965%
JNL/ClearBridge Large Cap Growth Fund	NextEra Energy, Inc.			Equity	173,200	14,640,596	0.799%
JNL/ClearBridge Large Cap Growth Fund	Marsh & McLennan Companies, Inc.			Equity	120,200	26,815,418	1.464%
JNL/ClearBridge Large Cap Growth Fund	Eli Lilly and Company			Equity	38,500	34,108,690	1.862%
JNL/ClearBridge Large Cap Growth Fund	Microsoft Corporation			Equity	320,868	138,069,500	7.536%
JNL/ClearBridge Large Cap Growth Fund	Stryker Corporation			Equity	90,100	32,621,606	1.781%
JNL/ClearBridge Large Cap Growth Fund	Union Pacific Corporation			Equity	97,900	24,130,392	1.317%
JNL/ClearBridge Large Cap Growth Fund	Thermo Fisher Scientific Inc.			Equity	69,355	42,927,971	2.343%
JNL/ClearBridge Large Cap Growth Fund	UnitedHealth Group Incorporated			Equity	96,740	56,561,943	3.057%
JNL/ClearBridge Large Cap Growth Fund	Intuitive Surgical, Inc.			Equity	96,000	47,161,920	2.574%
JNL/ClearBridge Large Cap Growth Fund	The Sherwin-Williams Company			Equity	87,900	33,548,793	1.831%
JNL/ClearBridge Large Cap Growth Fund	Starbucks Corporation			Equity	111,600	10,879,884	0.594%
JNL/ClearBridge Large Cap Growth Fund	Nvidia, Inc.			Equity	92,300	65,465,521	3.573%
JNL/ClearBridge Large Cap Growth Fund	Tesla Inc.			Equity	73,000	19,098,990	1.043%
JNL/ClearBridge Large Cap Growth Fund	Accenture Public Limited Company			Equity	91,100	32,202,028	1.758%
JNL/ClearBridge Large Cap Growth Fund	Visa Inc.			Equity	309,830	85,187,759	4.650%
JNL/ClearBridge Large Cap Growth Fund	Meta Platforms, Inc.			Equity	197,083	112,818,193	6.158%
JNL/ClearBridge Large Cap Growth Fund	Zoetis Inc.			Equity	153,005	29,894,117	1.632%
JNL/ClearBridge Large Cap Growth Fund	Palo Alto Networks, Inc.			Equity	120,979	41,350,622	2.257%
JNL/ClearBridge Large Cap Growth Fund	Eaton Corporation Public Limited Company			Equity	112,630	37,430,087	2.038%
JNL/ClearBridge Large Cap Growth Fund	Worldpay, Inc.			Equity	112,570	27,813,234	1.502%
JNL/ClearBridge Large Cap Growth Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	199,800	34,812,447	1.900%
JNL/ClearBridge Large Cap Growth Fund	Intercontinental Exchange, Inc.			Equity	83,400	13,397,376	0.731%
JNL/ClearBridge Large Cap Growth Fund	ASML Holding N.V.			Equity	35,260	29,380,395	1.604%
JNL/ClearBridge Large Cap Growth Fund	S&P Global Inc.			Equity	65,058	33,610,264	1.835%
JNL/ClearBridge Large Cap Growth Fund	Alphabet Inc.			Equity	185,000	30,682,250	1.675%
JNL/ClearBridge Large Cap Growth Fund	Monster Beverage 1990 Corporation			Equity	448,100	23,377,377	1.276%
JNL/ClearBridge Large Cap Growth Fund	PayPal Holdings, Inc.			Equity	381,749	29,787,874	1.626%
JNL/ClearBridge Large Cap Growth Fund	Equinix, Inc.			Equity	39,254	34,843,028	1.902%
JNL/ClearBridge Large Cap Growth Fund	Alcon AG			Equity	293,680	29,388,558	1.604%
JNL/ClearBridge Large Cap Growth Fund	Uber Technologies, Inc.			Equity	517,620	38,904,319	2.124%
JNL/ClearBridge Large Cap Growth Fund	RTX Corporation			Equity	240,230	29,106,267	1.589%
Total Non Derivatives						1,832,033,537	
Derivatives							
Total Derivatives						0	
Total All Investments						1,832,033,537	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Conservative Allocation Fund	JNL/WMC Equity Income Fund			Fund	963,972	7,267,610	1.252%
JNL Conservative Allocation Fund	JNL Multi-Manager U.S. Select Equity Fund			Fund	1,216,502	18,798,453	3.238%
JNL Conservative Allocation Fund	JNL/JPMorgan Hedged Equity Fund			Fund	345,624	5,792,662	1.000%
JNL Conservative Allocation Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	4,183,736	61,166,215	10.557%
JNL Conservative Allocation Fund	JNL/PMCO Real Return Fund			Fund	706,749	8,653,823	1.494%
JNL Conservative Allocation Fund	JNL/Causeway International Value Select Fund			Fund	321,417	7,238,315	1.249%
JNL Conservative Allocation Fund	JNL/PMCO Income Fund			Fund	3,779,244	45,880,021	7.919%
JNL Conservative Allocation Fund	JNL Multi-Manager Small Cap Value Fund			Fund	260,440	5,771,352	0.996%
JNL Conservative Allocation Fund	JNL Multi-Manager Mid Cap Fund			Fund	274,612	5,786,084	0.999%
JNL Conservative Allocation Fund	JNL Multi-Manager Alternative Fund			Fund	2,290,420	29,431,891	5.080%
JNL Conservative Allocation Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	4,903,477	63,450,988	10.951%
JNL Conservative Allocation Fund	JNL/PPM America Total Return Fund			Fund	4,068,230	54,799,054	9.458%
JNL Conservative Allocation Fund	JNL/GQG Emerging Markets Equity Fund			Fund	525,408	8,627,200	1.489%
JNL Conservative Allocation Fund	JNL/JPMorgan U.S. Value Fund			Fund	375,504	7,266,001	1.254%
JNL Conservative Allocation Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	1,625,632	20,092,806	3.468%
JNL Conservative Allocation Fund	JNL/T. Rowe Price Value Fund			Fund	281,473	8,686,252	1.499%
JNL Conservative Allocation Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	1,378,183	17,158,375	2.961%
JNL Conservative Allocation Fund	JNL/Lord Abbett Short Duration Income Fund			Fund	1,892,538	20,193,377	3.485%
JNL Conservative Allocation Fund	JNL/WCM Focused International Equity Fund			Fund	444,824	7,223,936	1.247%
JNL Conservative Allocation Fund	JNL/T. Rowe Price Capital Appreciation Fund			Fund	1,317,721	37,647,288	6.498%
JNL Conservative Allocation Fund	JNL/PMCO Investment Grade Credit Bond Fund			Fund	895,623	11,535,625	1.991%
JNL Conservative Allocation Fund	JNL/DoubleLine Total Return Fund			Fund	5,634,878	66,050,914	11.400%
JNL Conservative Allocation Fund	JNL/Morningstar Wide Moat Index Fund			Fund	1,000,412	14,485,967	2.500%
JNL Conservative Allocation Fund	Jackson Credit Opportunities Fund			Fund	2,431,000	25,831,931	4.458%
JNL Conservative Allocation Fund	Jackson Real Assets Fund			Fund	847,500	9,073,560	1.566%
JNL Conservative Allocation Fund	JNL/PPM America Investment Grade Credit Fund			Fund	1,069,185	11,536,506	1.991%
Total Non Derivatives						579,396,108	
Derivatives							
Total Derivatives						0	
Total All Investments						579,396,108	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDOFA International Core Equity Fund	Henkel AG & Co. KGaA			Equity	3,079	289,608	0.083%
JNLDOFA International Core Equity Fund	Enlight Renewable Energy Ltd.			Equity	2,740	46,051	0.013%
JNLDOFA International Core Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	327,512	328,732	0.095%
JNLDOFA International Core Equity Fund	The Phoenix Holdings Ltd			Equity	6,249	70,294	0.020%
JNLDOFA International Core Equity Fund	Nicore			Equity	1,708	74,179	0.021%
JNLDOFA International Core Equity Fund	Wipac Ltd.			Equity	9,498	333,654	0.096%
JNLDOFA International Core Equity Fund	Laboratorios Farmaceuticos Rovi, SA			Equity	296	23,626	0.007%
JNLDOFA International Core Equity Fund	Fluidra S.A.			Equity	2,869	75,268	0.022%
JNLDOFA International Core Equity Fund	SWECO Civil AB			Equity	6,034	102,257	0.029%
JNLDOFA International Core Equity Fund	Eurofins Scientific SE			Equity	10,546	666,200	0.192%
JNLDOFA International Core Equity Fund	Chord Energy Corporation			Equity	550	71,627	0.021%
JNLDOFA International Core Equity Fund	Protector Forsikring ASA			Equity	1,672	38,425	0.011%
JNLDOFA International Core Equity Fund	Sol S.P.A.			Equity	2,332	92,880	0.027%
JNLDOFA International Core Equity Fund	Kraai - Investment Co. Ltd.			Equity	53	10,538	0.003%
JNLDOFA International Core Equity Fund	Comet Holding AG			Equity	66	26,125	0.008%
JNLDOFA International Core Equity Fund	Fiat Chrysler Automobiles N.V.			Equity	44,973	626,279	0.180%
JNLDOFA International Core Equity Fund	INPost S.A.			Equity	8,787	166,369	0.048%
JNLDOFA International Core Equity Fund	Industrial Buildings Corporation Ltd			Equity	11,216	28,749	0.008%
JNLDOFA International Core Equity Fund	Airtel Africa PLC			Equity	441,459	674,496	0.194%
JNLDOFA International Core Equity Fund	AUB Group Limited			Equity	1,821	38,894	0.011%
JNLDOFA International Core Equity Fund	Technip Energies N.V.			Equity	35,063	845,452	0.243%
JNLDOFA International Core Equity Fund	OPC Energy Ltd			Equity	9,777	46,753	0.013%
JNLDOFA International Core Equity Fund	Sumitomo Bakelite Co., Ltd.			Equity	13,100	372,393	0.107%
JNLDOFA International Core Equity Fund	Nickel Industries Limited			Equity	242,089	154,974	0.045%
JNLDOFA International Core Equity Fund	Wallenius Wilhelmsen ASA			Equity	2,571	33,112	0.010%
JNLDOFA International Core Equity Fund	Ekem ASA			Equity	42,457	82,695	0.024%
JNLDOFA International Core Equity Fund	Port of Tauranga Limited			Equity	2,437	9,369	0.003%
JNLDOFA International Core Equity Fund	Nordic Semiconductor ASA			Equity	1,650	16,682	0.005%
JNLDOFA International Core Equity Fund	Camek Ltd.			Equity	186	14,967	0.004%
JNLDOFA International Core Equity Fund	CTP N.V.			Equity	5,844	108,758	0.031%
JNLDOFA International Core Equity Fund	Sava Group Holdings Co. Ltd			Equity	67,800	976,534	0.281%
JNLDOFA International Core Equity Fund	BELIMO Holding AG			Equity	663	472,092	0.136%
JNLDOFA International Core Equity Fund	Metsa Board Oyj			Equity	5,521	38,705	0.011%
JNLDOFA International Core Equity Fund	Methanex Corporation			Equity	8,100	334,673	0.096%
JNLDOFA International Core Equity Fund	Resonac Graphic America Inc.			Equity	27,200	202,200	0.058%
JNLDOFA International Core Equity Fund	G&L Beijer Ref AB			Equity	3,361	55,350	0.016%
JNLDOFA International Core Equity Fund	Vestas Wind Systems AS			Equity	9,294	204,761	0.059%
JNLDOFA International Core Equity Fund	Hemmet AB			Equity	1,514	55,899	0.016%
JNLDOFA International Core Equity Fund	Lynas Rare Earths Limited			Equity	79,849	440,938	0.127%
JNLDOFA International Core Equity Fund	Spin Master Corp.			Equity	3,500	79,371	0.023%
JNLDOFA International Core Equity Fund	Sparebank 1 Osløandst			Equity	2,355	32,406	0.009%
JNLDOFA International Core Equity Fund	Litco AB (publ)			Equity	2,538	83,530	0.024%
JNLDOFA International Core Equity Fund	Epiroc Aktiebolag			Equity	4,195	79,100	0.023%
JNLDOFA International Core Equity Fund	Epiroc Aktiebolag			Equity	6,156	133,179	0.038%
JNLDOFA International Core Equity Fund	MARUWA Co., Ltd.			Equity	1,000	293,925	0.085%
JNLDOFA International Core Equity Fund	Hexagon Aktiebolag			Equity	8,274	88,999	0.026%
JNLDOFA International Core Equity Fund	NIBE Industrier AB			Equity	3,679	20,177	0.006%
JNLDOFA International Core Equity Fund	Flex LNG Ltd.			Equity	1,798	46,226	0.013%
JNLDOFA International Core Equity Fund	Endeavour Mining Corporation			Equity	14,770	357,083	0.103%
JNLDOFA International Core Equity Fund	STMicroelectronics N.V.			Equity	1,380	41,152	0.012%
JNLDOFA International Core Equity Fund	DNB Bank ASA			Equity	6,295	169,937	0.049%
JNLDOFA International Core Equity Fund	Pennon Group PLC			Equity	28,670	226,595	0.065%
JNLDOFA International Core Equity Fund	Dassault Systemes			Equity	2,824	112,074	0.032%
JNLDOFA International Core Equity Fund	Y.H. Diem Construction and Development Ltd.			Equity	167	14,881	0.004%
JNLDOFA International Core Equity Fund	Fuchs SE			Equity	1,926	83,558	0.024%
JNLDOFA International Core Equity Fund	Azelis Group			Equity	2,457	54,002	0.016%
JNLDOFA International Core Equity Fund	Universal Music Group N.V.			Equity	11,718	307,311	0.088%
JNLDOFA International Core Equity Fund	Dassault Aviation			Equity	563	116,054	0.033%
JNLDOFA International Core Equity Fund	Ypsomed Holding AG			Equity	81	39,542	0.011%
JNLDOFA International Core Equity Fund	Nomura Holdings, Inc.			Equity	3,800	19,928	0.006%
JNLDOFA International Core Equity Fund	Big Shopping Centers Ltd			Equity	245	27,326	0.008%
JNLDOFA International Core Equity Fund	Pitbara Minerals Limited			Equity	44,246	104,427	0.030%
JNLDOFA International Core Equity Fund	Daimeir Truck Holding AG			Equity	19,388	725,819	0.209%
JNLDOFA International Core Equity Fund	Wise PLC			Equity	4,590	41,201	0.012%
JNLDOFA International Core Equity Fund	Darktrace PLC			Equity	54,041	418,100	0.120%
JNLDOFA International Core Equity Fund	Iveco Group N.V.			Equity	7,729	77,807	0.022%
JNLDOFA International Core Equity Fund	Nippon Express Co., Ltd.			Equity	13,200	693,988	0.200%
JNLDOFA International Core Equity Fund	Shell PLC			Equity	97,460	3,166,785	0.911%
JNLDOFA International Core Equity Fund	Shell PLC			Equity	12,550	827,673	0.238%
JNLDOFA International Core Equity Fund	Olam Group Limited			Equity	14,950	13,006	0.004%
JNLDOFA International Core Equity Fund	Straumann Holding AG			Equity	1,926	315,337	0.091%
JNLDOFA International Core Equity Fund	Georg Fischer AG			Equity	1,638	39,838	0.011%
JNLDOFA International Core Equity Fund	Tate & Lyle Public Limited Company			Equity	33,674	308,731	0.089%
JNLDOFA International Core Equity Fund	Atlas Copco Aktiebolag			Equity	19,805	383,537	0.110%
JNLDOFA International Core Equity Fund	Atlas Copco Aktiebolag			Equity	11,940	204,592	0.059%
JNLDOFA International Core Equity Fund	Whitbys Fastigheter AB			Equity	26,937	610,995	0.176%
JNLDOFA International Core Equity Fund	Woodside Energy Group Ltd			Equity	34,166	617,024	0.178%
JNLDOFA International Core Equity Fund	Woodside Energy Group Ltd			Equity	1,061	19,201	0.006%
JNLDOFA International Core Equity Fund	Woodside Energy Group Ltd			Equity	2,994	53,682	0.015%
JNLDOFA International Core Equity Fund	Bombardier Inc.			Equity	4,728	359,761	0.104%
JNLDOFA International Core Equity Fund	Compagnie Generale des Etablissements Michelin			Equity	12,194	494,914	0.142%
JNLDOFA International Core Equity Fund	EQB Inc.			Equity	4,117	317,348	0.091%
JNLDOFA International Core Equity Fund	Var Energi ASA			Equity	7,464	23,098	0.007%
JNLDOFA International Core Equity Fund	Haleon PLC			Equity	96,297	506,689	0.146%
JNLDOFA International Core Equity Fund	GSK PLC			Equity	800	33,013	0.009%
JNLDOFA International Core Equity Fund	Haleon PLC			Equity	1,000	10,580	0.003%
JNLDOFA International Core Equity Fund	GSK PLC			Equity	43,709	902,869	0.260%
JNLDOFA International Core Equity Fund	Nordea Bank Abp			Equity	52,372	618,301	0.178%
JNLDOFA International Core Equity Fund	Aldridge Group Aktiebolag (publ)			Equity	10,047	108,587	0.032%
JNLDOFA International Core Equity Fund	NavWest Group PLC			Equity	6,682	307,716	0.090%
JNLDOFA International Core Equity Fund	Perion Network Ltd.			Equity	1,116	8,784	0.003%
JNLDOFA International Core Equity Fund	Bluenord ASA			Equity	948	41,610	0.012%
JNLDOFA International Core Equity Fund	Alimentation Couche-Tard Inc.			Equity	7,450	411,972	0.119%
JNLDOFA International Core Equity Fund	Cowell E. Holdings Inc.			Equity	5,000	14,470	0.004%
JNLDOFA International Core Equity Fund	Dr. Ing. h.c. F. Porsche Aktiengesellschaft			Equity	820	65,471	0.019%
JNLDOFA International Core Equity Fund	SITC International Holdings Company Limited			Equity	107,000	289,708	0.083%
JNLDOFA International Core Equity Fund	ATS Corporation			Equity	14,437	419,875	0.121%
JNLDOFA International Core Equity Fund	Whitehaven Coal Limited			Equity	85,055	427,261	0.123%
JNLDOFA International Core Equity Fund	Svenska Cellulosa Aktiebolaget SCA			Equity	8,994	131,359	0.038%
JNLDOFA International Core Equity Fund	Hexol AB			Equity	8,555	88,473	0.025%
JNLDOFA International Core Equity Fund	SSAB AB			Equity	32,771	167,095	0.048%
JNLDOFA International Core Equity Fund	Brookfield Corporation			Equity	9,816	521,338	0.150%
JNLDOFA International Core Equity Fund	Frontline PLC			Equity	3,776	88,792	0.026%
JNLDOFA International Core Equity Fund	Hafnia Limited			Equity	9,211	65,785	0.019%
JNLDOFA International Core Equity Fund	Knor - Brenne Akiengesellschaft			Equity	2,055	628,647	0.181%
JNLDOFA International Core Equity Fund	Domestic Group AB (publ)			Equity	60,288	359,307	0.103%
JNLDOFA International Core Equity Fund	Rio Tinto PLC			Equity	7,110	504,977	0.145%
JNLDOFA International Core Equity Fund	Diageo PLC			Equity	10,268	364,832	0.105%
JNLDOFA International Core Equity Fund	Bellway p.l.c.			Equity	14,359	595,521	0.171%
JNLDOFA International Core Equity Fund	BAE Systems PLC			Equity	22,147	397,227	0.116%
JNLDOFA International Core Equity Fund	Lloyds Banking Group PLC			Equity	671,335	527,147	0.152%
JNLDOFA International Core Equity Fund	Ashland Group Public Limited Company			Equity	9,375	726,897	0.209%
JNLDOFA International Core Equity Fund	BP P.L.C.			Equity	334,885	1,750,887	0.504%
JNLDOFA International Core Equity Fund	Saputo Inc.			Equity	12,258	264,565	0.076%
JNLDOFA International Core Equity Fund	CRH Public Limited Company			Equity	123	11,336	0.003%
JNLDOFA International Core Equity Fund	Canadian Natural Resources Limited			Equity	28,094	943,806	0.272%
JNLDOFA International Core Equity Fund	Tec Resources Limited			Equity	20,682	1,080,244	0.311%
JNLDOFA International Core Equity Fund	Vistry Group PLC			Equity	27,357	479,312	0.138%
JNLDOFA International Core Equity Fund	Banque Nationale Du Canada			Equity	13,933	1,327,315	0.382%
JNLDOFA International Core Equity Fund	Coles Group Limited			Equity	32,398	404,640	0.116%
JNLDOFA International Core Equity Fund	Standard Chartered PLC			Equity	10,957	117,708	0.034%
JNLDOFA International Core Equity Fund	Imperial Brands PLC			Equity	11,987	349,742	0.100%
JNLDOFA International Core Equity Fund	AstraZeneca PLC			Equity	3,929	612,903	0.176%
JNLDOFA International Core Equity Fund	HSBC Holdings PLC			Equity	164,219	1,471,917	0.423%
JNLDOFA International Core Equity Fund	Legal & General Group PLC			Equity	138,504	411,182	0.118%
JNLDOFA International Core Equity Fund	British American Tobacco P.L.C.			Equity	16,408	612,628	0.176%
JNLDOFA International Core Equity Fund	Barrick Gold Corporation			Equity	30,690	610,419	0.176%
JNLDOFA International Core Equity Fund	Bank of Montreal			Equity	10,781	972,837	0.280%
JNLDOFA International Core Equity Fund	Agrico Eagle Mines Limited			Equity	1,188	95,702	0.028%
JNLDOFA International Core Equity Fund	Bank of Nova Scotia, The			Equity	11,492	628,157	0.180%
JNLDOFA International Core Equity Fund	SSE PLC			Equity	13,237	333,414	0.096%
JNLDOFA International Core Equity Fund	Taylor Wimpey PLC			Equity	126,905	279,556	0.080%
JNLDOFA International Core Equity Fund	Weir Group PLC(The)			Equity	5,658	164,291	0.047%
JNLDOFA International Core Equity Fund	ATCO Ltd.			Equity	1,826	277,175	0.080%
JNLDOFA International Core Equity Fund	Serc Group PLC			Equity	46,420	116,375	0.033%
JNLDOFA International Core Equity Fund	Nylosa AB			Equity	21,805	258,729	0.074%
JNLDOFA International Core Equity Fund	Empire Company Limited			Equity	2,900	88,622	0.025%
JNLDOFA International Core Equity Fund	Fortis Inc.			Equity	6,055	275,115	0.079%
JNLDOFA International Core Equity Fund	Fortis Inc.			Equity	1,063	48,303	0.014%
JNLDOFA International Core Equity Fund	Rogers Communications Inc.			Equity	10,775	437,230	0.126%
JNLDOFA International Core Equity Fund	Canadian Imperial Bank of Commerce			Equity	8,327	516,324	0.149%
JNLDOFA International Core Equity Fund	First Quantum Minerals Ltd			Equity	14,008	190,992	0.055%
JNLDOFA International Core Equity Fund	Canadian National Railway Company			Equity	3,900	456,686	0.131%
JNLDOFA International Core Equity Fund	Open Text Corporation			Equity	5,200	173,096	0.050%
JNLDOFA International Core Equity Fund	Canadian Utilities Limited			Equity	5,600	148,690	0.043%
JNLDOFA International Core Equity Fund	CAE Inc.			Equity	9,250	173,653	0.050%
JNLDOFA International Core Equity Fund	Entbridge Inc.			Equity	10,300	418,413	0.120%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA International Core Equity Fund	Imperial Oil Limited			Equity	4,386	310,518	0.089%
JNLDOFA International Core Equity Fund	Canadian Tire Corporation, Limited			Equity	2,360	262,844	0.083%
JNLDOFA International Core Equity Fund	Finning International Inc.			Equity	23,900	784,444	0.226%
JNLDOFA International Core Equity Fund	Great-West Lifeco Inc.			Equity	2,600	88,663	0.026%
JNLDOFA International Core Equity Fund	IGM Financial Inc.			Equity	1,141	34,710	0.010%
JNLDOFA International Core Equity Fund	Emera Incorporated			Equity	4,400	173,371	0.050%
JNLDOFA International Core Equity Fund	Loblaw Companies Limited			Equity	4,123	550,545	0.158%
JNLDOFA International Core Equity Fund	Royal Bank of Canada			Equity	17,297	2,158,848	0.621%
JNLDOFA International Core Equity Fund	Royal Bank of Canada			Equity	369	46,025	0.013%
JNLDOFA International Core Equity Fund	Manulife Financial Corporation			Equity	36,246	1,071,206	0.308%
JNLDOFA International Core Equity Fund	Metro Inc.			Equity	7,400	469,763	0.135%
JNLDOFA International Core Equity Fund	Sun Life Financial Inc.			Equity	12,049	696,912	0.201%
JNLDOFA International Core Equity Fund	Kingspan Group Public Limited Company			Equity	4,220	397,621	0.114%
JNLDOFA International Core Equity Fund	Verbund AG			Equity	881	72,918	0.021%
JNLDOFA International Core Equity Fund	Sartorius Stedim Biotech			Equity	152	31,788	0.009%
JNLDOFA International Core Equity Fund	Allianz SE			Equity	4,337	1,428,505	0.411%
JNLDOFA International Core Equity Fund	Telefonaktiebolaget LM Ericsson			Equity	62,885	474,842	0.137%
JNLDOFA International Core Equity Fund	Bolloré SE			Equity	8,155	54,353	0.016%
JNLDOFA International Core Equity Fund	Mediobanca Banca di Credito Finanziario Societa' Per Azioni			Equity	23,360	398,421	0.115%
JNLDOFA International Core Equity Fund	Beiersdorf Aktiengesellschaft			Equity	759	114,163	0.033%
JNLDOFA International Core Equity Fund	Swisscom AG			Equity	1,098	717,756	0.207%
JNLDOFA International Core Equity Fund	Hang Lung Properties Limited			Equity	25,543	24,677	0.007%
JNLDOFA International Core Equity Fund	Telenor ASA			Equity	7,274	93,043	0.027%
JNLDOFA International Core Equity Fund	Accor			Equity	745	32,424	0.009%
JNLDOFA International Core Equity Fund	Bayer Aktiengesellschaft			Equity	17,065	576,167	0.166%
JNLDOFA International Core Equity Fund	Erste Group Bank AG			Equity	6,228	342,021	0.098%
JNLDOFA International Core Equity Fund	Infinion Technologies AG			Equity	10,485	579,058	0.167%
JNLDOFA International Core Equity Fund	U C B			Equity	1,561	281,585	0.081%
JNLDOFA International Core Equity Fund	Capgemini France			Equity	2,374	512,217	0.147%
JNLDOFA International Core Equity Fund	ANZ Group Holdings Limited			Equity	20,004	422,323	0.122%
JNLDOFA International Core Equity Fund	Stora Enso Oyj			Equity	29,501	377,857	0.108%
JNLDOFA International Core Equity Fund	ThyssenKrupp AG			Equity	8,533	31,341	0.010%
JNLDOFA International Core Equity Fund	L'Oréal			Equity	1,949	872,530	0.251%
JNLDOFA International Core Equity Fund	Freemius Medical Care AG			Equity	7,819	332,276	0.096%
JNLDOFA International Core Equity Fund	Barclays PLC			Equity	289,953	870,037	0.250%
JNLDOFA International Core Equity Fund	Koninklijke Vopak N.V.			Equity	10,343	799,067	0.229%
JNLDOFA International Core Equity Fund	Renault			Equity	16,069	696,298	0.201%
JNLDOFA International Core Equity Fund	Kerry Group Public Limited Company			Equity	2,590	268,547	0.077%
JNLDOFA International Core Equity Fund	Gemfib AIS			Equity	143	34,716	0.010%
JNLDOFA International Core Equity Fund	Asahi Group Holdings, Ltd.			Equity	15,300	297,404	0.086%
JNLDOFA International Core Equity Fund	Sanofi			Equity	5,352	615,842	0.177%
JNLDOFA International Core Equity Fund	KBC Groep			Equity	9,382	746,398	0.215%
JNLDOFA International Core Equity Fund	Telia Company AB			Equity	128,450	415,553	0.120%
JNLDOFA International Core Equity Fund	BAES SE			Equity	17,417	624,127	0.178%
JNLDOFA International Core Equity Fund	Coltury Group			Equity	2,731	131,232	0.038%
JNLDOFA International Core Equity Fund	BT Group PLC			Equity	301,994	598,654	0.172%
JNLDOFA International Core Equity Fund	Continental Aktiengesellschaft			Equity	5,826	377,822	0.109%
JNLDOFA International Core Equity Fund	Solvay			Equity	6,382	450,368	0.129%
JNLDOFA International Core Equity Fund	Munchener Ruckversicherungs-Gesellschaft Aktiengesellschaft in Munchen			Equity	2,253	1,243,933	0.358%
JNLDOFA International Core Equity Fund	Skandinaviska Enskilda Banken AB			Equity	18,151	277,409	0.080%
JNLDOFA International Core Equity Fund	Interx Group Plc			Equity	5,980	417,636	0.120%
JNLDOFA International Core Equity Fund	Teleperformance SE			Equity	3,138	523,428	0.149%
JNLDOFA International Core Equity Fund	Glanbia Public Limited Company			Equity	11,824	210,570	0.061%
JNLDOFA International Core Equity Fund	Banco Santander, S.A.			Equity	143,745	735,499	0.212%
JNLDOFA International Core Equity Fund	MERCK Kommanditgesellschaft auf Aktien			Equity	852	150,217	0.043%
JNLDOFA International Core Equity Fund	SAP SE			Equity	2,491	569,172	0.164%
JNLDOFA International Core Equity Fund	Hertel AG & Co. KGaA			Equity	91	7,741	0.002%
JNLDOFA International Core Equity Fund	Volters Kluwer N.V.			Equity	7,497	1,263,891	0.364%
JNLDOFA International Core Equity Fund	Publicis Groupe SA			Equity	4,148	453,793	0.131%
JNLDOFA International Core Equity Fund	Toronto-Dominion Bank, The			Equity	9,411	595,089	0.171%
JNLDOFA International Core Equity Fund	Toronto-Dominion Bank, The			Equity	5,133	199,067	0.057%
JNLDOFA International Core Equity Fund	Siemens Aktiengesellschaft			Equity	5,944	1,203,498	0.346%
JNLDOFA International Core Equity Fund	Carrefour			Equity	27,654	471,660	0.136%
JNLDOFA International Core Equity Fund	Mercedes-Benz Group AG			Equity	18,676	1,209,975	0.348%
JNLDOFA International Core Equity Fund	Toromont Industries Ltd.			Equity	9,773	97,743	0.027%
JNLDOFA International Core Equity Fund	Orange			Equity	102,523	1,175,357	0.338%
JNLDOFA International Core Equity Fund	ASMP T Limited			Equity	22,100	267,394	0.077%
JNLDOFA International Core Equity Fund	Kering			Equity	769	220,096	0.063%
JNLDOFA International Core Equity Fund	OMV Aktiengesellschaft			Equity	5,981	517,462	0.148%
JNLDOFA International Core Equity Fund	Deutsche Telekom AG			Equity	73,072	2,147,182	0.618%
JNLDOFA International Core Equity Fund	ASICS Corporation			Equity	12,000	256,345	0.074%
JNLDOFA International Core Equity Fund	Subsea 7 S.A.			Equity	1,295	20,970	0.006%
JNLDOFA International Core Equity Fund	SEA Group Aktiengesellschaft			Equity	12,956	634,963	0.183%
JNLDOFA International Core Equity Fund	Zurich Insurance Group AG			Equity	1,365	823,293	0.237%
JNLDOFA International Core Equity Fund	Deutsche Bank Aktiengesellschaft			Equity	38,117	659,321	0.190%
JNLDOFA International Core Equity Fund	Deutsche Bank Aktiengesellschaft			Equity	5,241	90,722	0.026%
JNLDOFA International Core Equity Fund	Telefonica, S.A.			Equity	180,437	863,730	0.246%
JNLDOFA International Core Equity Fund	Thales			Equity	2,227	354,358	0.102%
JNLDOFA International Core Equity Fund	Koninklijke Philips N.V.			Equity	14,454	474,333	0.136%
JNLDOFA International Core Equity Fund	Assicurazioni Generali Societa' Per Azioni			Equity	13,347	385,832	0.111%
JNLDOFA International Core Equity Fund	Hermes International			Equity	202	486,265	0.143%
JNLDOFA International Core Equity Fund	E.ON SE			Equity	34,470	512,849	0.148%
JNLDOFA International Core Equity Fund	Nokia Oyj			Equity	66,047	287,983	0.083%
JNLDOFA International Core Equity Fund	Elisa Oyj			Equity	8,606	456,269	0.131%
JNLDOFA International Core Equity Fund	A.P. Moller - Maersk AIS			Equity	34	57,184	0.016%
JNLDOFA International Core Equity Fund	EDP, S.A.			Equity	33,564	153,261	0.044%
JNLDOFA International Core Equity Fund	Tower Semiconductor Ltd.			Equity	495	21,909	0.006%
JNLDOFA International Core Equity Fund	UPM-Kymmene Oyj			Equity	6,100	204,399	0.059%
JNLDOFA International Core Equity Fund	A.P. Moller - Maersk AIS			Equity	56	90,812	0.026%
JNLDOFA International Core Equity Fund	Pernod Ricard			Equity	1,010	132,441	0.038%
JNLDOFA International Core Equity Fund	Singapore Technologies Engineering Ltd			Equity	21,300	77,023	0.022%
JNLDOFA International Core Equity Fund	Intesa Sanpaolo S.p.A.			Equity	101,041	432,867	0.125%
JNLDOFA International Core Equity Fund	ST Microelectronics N.V.			Equity	13,710	407,916	0.117%
JNLDOFA International Core Equity Fund	Hedelberg Materials AG			Equity	4,644	605,125	0.173%
JNLDOFA International Core Equity Fund	Bankinter Sociedad Anonima			Equity	70,466	620,906	0.179%
JNLDOFA International Core Equity Fund	Volkswagen Aktiengesellschaft			Equity	726	81,237	0.023%
JNLDOFA International Core Equity Fund	voestalpine AG			Equity	4,889	127,595	0.037%
JNLDOFA International Core Equity Fund	Varisla Oyj Abp			Equity	12,628	262,787	0.076%
JNLDOFA International Core Equity Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	6,494	574,006	0.165%
JNLDOFA International Core Equity Fund	Schneider Electric SE			Equity	1,686	444,469	0.128%
JNLDOFA International Core Equity Fund	Next PLC			Equity	2,574	337,409	0.097%
JNLDOFA International Core Equity Fund	Securitas AB			Equity	9,794	111,617	0.032%
JNLDOFA International Core Equity Fund	Foniva			Equity	6,537	67,294	0.019%
JNLDOFA International Core Equity Fund	Freemius SE & Co. KGaA			Equity	10,734	409,930	0.118%
JNLDOFA International Core Equity Fund	Banco Bilbao Vizcaya Argentaria, S.A.			Equity	83,369	898,740	0.259%
JNLDOFA International Core Equity Fund	Barry Callebaut AG			Equity	25	46,262	0.013%
JNLDOFA International Core Equity Fund	Deutsche Post AG			Equity	18,091	806,645	0.232%
JNLDOFA International Core Equity Fund	Endesa, S.A.			Equity	10,445	228,134	0.066%
JNLDOFA International Core Equity Fund	Carlsberg AIS			Equity	2,589	308,422	0.089%
JNLDOFA International Core Equity Fund	LVMH Moet Hennessy Louis Vuitton			Equity	2,451	1,878,874	0.541%
JNLDOFA International Core Equity Fund	Sveabank AB			Equity	6,264	133,433	0.038%
JNLDOFA International Core Equity Fund	HOCHTIEF Aktiengesellschaft			Equity	133	16,406	0.005%
JNLDOFA International Core Equity Fund	RWE Aktiengesellschaft			Equity	14,633	532,843	0.153%
JNLDOFA International Core Equity Fund	Givaudan SA			Equity	78	427,321	0.123%
JNLDOFA International Core Equity Fund	Alps Alpine Co., Ltd.			Equity	3,900	42,850	0.012%
JNLDOFA International Core Equity Fund	Randstad N.V.			Equity	6,024	308,089	0.089%
JNLDOFA International Core Equity Fund	Marks and Spencer Group P.L.C.			Equity	243,369	1,215,156	0.350%
JNLDOFA International Core Equity Fund	Arcadis N.V.			Equity	7,203	499,735	0.144%
JNLDOFA International Core Equity Fund	Danske Bank AIS			Equity	23,918	720,543	0.207%
JNLDOFA International Core Equity Fund	Hannover Ruck SE			Equity	521	148,908	0.043%
JNLDOFA International Core Equity Fund	Kingfisher PLC			Equity	375,052	1,618,171	0.466%
JNLDOFA International Core Equity Fund	Societe Generale			Equity	15,720	391,588	0.113%
JNLDOFA International Core Equity Fund	Bouygues			Equity	4,574	153,119	0.044%
JNLDOFA International Core Equity Fund	Regipol SA			Equity	50,562	665,237	0.191%
JNLDOFA International Core Equity Fund	Veolia Environnement			Equity	6,142	201,870	0.058%
JNLDOFA International Core Equity Fund	Ajinomoto Co., Inc.			Equity	5,200	202,404	0.058%
JNLDOFA International Core Equity Fund	Asahi Kasei Corporation			Equity	9,004	69,063	0.020%
JNLDOFA International Core Equity Fund	Adidas AG			Equity	1,975	523,054	0.150%
JNLDOFA International Core Equity Fund	AGC Inc.			Equity	5,400	175,002	0.050%
JNLDOFA International Core Equity Fund	H & M Hennes & Mauritz AB			Equity	10,072	171,673	0.049%
JNLDOFA International Core Equity Fund	Ramsey Health Care Limited			Equity	3,025	87,251	0.025%
JNLDOFA International Core Equity Fund	Artibeo SE			Equity	5,912	866,415	0.249%
JNLDOFA International Core Equity Fund	Deutsche Lufthansa Aktiengesellschaft			Equity	34,752	254,742	0.073%
JNLDOFA International Core Equity Fund	Koninklijke KPN N.V.			Equity	119,608	488,699	0.141%
JNLDOFA International Core Equity Fund	ITCCHU Corporation			Equity	9,200	501,502	0.144%
JNLDOFA International Core Equity Fund	ASX Limited			Equity	1,115	49,336	0.014%
JNLDOFA International Core Equity Fund	Kintetsu Group Holdings Co. Ltd			Equity	7,100	177,573	0.051%
JNLDOFA International Core Equity Fund	Hang Seng Bank, Limited			Equity	5,100	63,510	0.018%
JNLDOFA International Core Equity Fund	Singapore Exchange Limited			Equity	35,200	311,917	0.090%
JNLDOFA International Core Equity Fund	CGC Holdings Corporation			Equity	11,500	100,150	0.029%
JNLDOFA International Core Equity Fund	Manu Group Co.Ltd.			Equity	41,300	703,434	0.202%
JNLDOFA International Core Equity Fund	Trend Micro Incorporated			Equity	2,900	171,875	0.049%
JNLDOFA International Core Equity Fund	Galaxy Entertainment Group Limited			Equity	8,000	40,015	0.012%
JNLDOFA International Core Equity Fund	Konami Holdings Corporation			Equity	1,600	163,434	0.047%
JNLDOFA International Core Equity Fund	Sumitomo Mitsui Trust Bank, Limited			Equity	12,600	304,866	0.088%
JNLDOFA International Core Equity Fund	City Developments Limited			Equity	15,500	64,938	0.019%
JNLDOFA International Core Equity Fund	Honda Motor Co., Ltd.			Equity	42,200	458,866	0.132%
JNLDOFA International Core Equity Fund	Chocoladefabriken Lindt & Sprungli AG			Equity	1	127,385	0.037%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA International Core Equity Fund	Fortescue Ltd			Equity	31,377	447,732	0.129%
JNLDOFA International Core Equity Fund	Rakuten Group, Inc.			Equity	1,600	48,999	0.014%
JNLDOFA International Core Equity Fund	Resona Holdings, Inc.			Equity	39,500	278,395	0.080%
JNLDOFA International Core Equity Fund	Elbit Systems Ltd.			Equity	170	34,017	0.010%
JNLDOFA International Core Equity Fund	DISCO Corporation			Equity	1,500	400,396	0.115%
JNLDOFA International Core Equity Fund	OBSC Co., Ltd.			Equity	4,000	141,347	0.041%
JNLDOFA International Core Equity Fund	Kirin Holdings Company, Limited			Equity	9,000	137,038	0.039%
JNLDOFA International Core Equity Fund	Mitsubishi HC Capital Inc.			Equity	35,900	259,111	0.075%
JNLDOFA International Core Equity Fund	Insurance Australia Group Limited			Equity	72,302	369,182	0.106%
JNLDOFA International Core Equity Fund	Jardine Cycle & Carriage Limited			Equity	4,000	87,145	0.025%
JNLDOFA International Core Equity Fund	Japan Airport Terminal Co., Ltd.			Equity	5,300	192,104	0.055%
JNLDOFA International Core Equity Fund	Harvey Norman Holdings Ltd			Equity	47,466	162,882	0.047%
JNLDOFA International Core Equity Fund	Keyence Corporation			Equity	800	382,855	0.110%
JNLDOFA International Core Equity Fund	Mitsubishi Estate Co., Ltd.			Equity	5,200	82,797	0.024%
JNLDOFA International Core Equity Fund	BHP Group Limited			Equity	5,874	198,312	0.056%
JNLDOFA International Core Equity Fund	BHP Group Limited			Equity	29,223	946,000	0.272%
JNLDOFA International Core Equity Fund	Mitsubishi Heavy Industries, Ltd.			Equity	38,000	565,961	0.163%
JNLDOFA International Core Equity Fund	Mitsubishi Electric Corporation			Equity	9,000	147,070	0.042%
JNLDOFA International Core Equity Fund	Mitsubishi Corporation			Equity	29,300	611,765	0.178%
JNLDOFA International Core Equity Fund	Kyushu Electric Power Co., Inc.			Equity	8,100	89,720	0.026%
JNLDOFA International Core Equity Fund	Nufarm Limited			Equity	9,972	27,425	0.008%
JNLDOFA International Core Equity Fund	IHI Corporation			Equity	1,500	79,026	0.023%
JNLDOFA International Core Equity Fund	ICL Group Ltd			Equity	1,349	5,750	0.002%
JNLDOFA International Core Equity Fund	Mitsui Fudosan Co., Ltd.			Equity	16,800	158,991	0.046%
JNLDOFA International Core Equity Fund	Subaru Corporation			Equity	33,500	602,035	0.173%
JNLDOFA International Core Equity Fund	Flight Centre Travel Group Limited			Equity	34,079	532,796	0.153%
JNLDOFA International Core Equity Fund	Mitsui Chemicals, Inc.			Equity	1,500	49,751	0.014%
JNLDOFA International Core Equity Fund	Mitsubishi UFJ Financial Group Inc			Equity	71,600	741,985	0.213%
JNLDOFA International Core Equity Fund	Westpac Banking Corporation			Equity	30,587	671,939	0.193%
JNLDOFA International Core Equity Fund	Yue Yuen Industrial (Holdings) Limited			Equity	99,500	193,011	0.056%
JNLDOFA International Core Equity Fund	Central Japan Railway Company			Equity	3,000	89,491	0.026%
JNLDOFA International Core Equity Fund	HASECO Corporation			Equity	6,400	98,035	0.028%
JNLDOFA International Core Equity Fund	Japan Tobacco Inc.			Equity	13,500	393,407	0.113%
JNLDOFA International Core Equity Fund	Panasonic Holdings Corporation			Equity	31,300	277,657	0.080%
JNLDOFA International Core Equity Fund	Bank of East Asia, Limited, The			Equity	197,313	262,328	0.075%
JNLDOFA International Core Equity Fund	Osaka Corporation			Equity	3,600	89,910	0.026%
JNLDOFA International Core Equity Fund	Hankyu Hanshin Holdings, Inc.			Equity	4,200	130,206	0.037%
JNLDOFA International Core Equity Fund	Nagoya Railroad Co., Ltd.			Equity	11,400	138,261	0.040%
JNLDOFA International Core Equity Fund	Canon Inc.			Equity	5,200	169,693	0.049%
JNLDOFA International Core Equity Fund	DBS Group Holdings Ltd			Equity	20,398	605,128	0.174%
JNLDOFA International Core Equity Fund	MTR Corporation Limited			Equity	15,000	56,175	0.016%
JNLDOFA International Core Equity Fund	Hoya Corporation			Equity	2,400	332,273	0.096%
JNLDOFA International Core Equity Fund	Komatsu Ltd.			Equity	10,000	284,334	0.082%
JNLDOFA International Core Equity Fund	Bridgestone Corporation			Equity	8,700	334,165	0.096%
JNLDOFA International Core Equity Fund	ComfortDelGro Corporation Limited			Equity	59,200	69,616	0.020%
JNLDOFA International Core Equity Fund	Suncorp Group Limited			Equity	31,299	393,001	0.113%
JNLDOFA International Core Equity Fund	Chubu Electric Power Co., Ltd.			Equity	7,700	91,736	0.026%
JNLDOFA International Core Equity Fund	Dai Nippon Printing Co., Ltd.			Equity	7,800	140,166	0.040%
JNLDOFA International Core Equity Fund	Kuraray Co., Ltd.			Equity	19,100	283,403	0.082%
JNLDOFA International Core Equity Fund	Fast Retailing Co., Ltd.			Equity	1,200	399,278	0.115%
JNLDOFA International Core Equity Fund	Kao Corporation			Equity	3,800	188,102	0.054%
JNLDOFA International Core Equity Fund	Bezeq Israel Communications Company Ltd			Equity	99,982	47,624	0.014%
JNLDOFA International Core Equity Fund	CLP Holdings Limited			Equity	17,500	153,669	0.044%
JNLDOFA International Core Equity Fund	Niterra Co., Ltd.			Equity	1,100	31,571	0.009%
JNLDOFA International Core Equity Fund	Kurita Water Industries Ltd.			Equity	4,500	195,310	0.056%
JNLDOFA International Core Equity Fund	Daiichi Industries, Ltd.			Equity	2,100	284,044	0.085%
JNLDOFA International Core Equity Fund	Suzuki Motors Limited			Equity	30,000	417,260	0.120%
JNLDOFA International Core Equity Fund	BlueScope Steel Limited			Equity	11,864	184,339	0.053%
JNLDOFA International Core Equity Fund	Murata Manufacturing Co., Ltd.			Equity	14,700	291,538	0.084%
JNLDOFA International Core Equity Fund	Daito Trust Construction Co., Ltd.			Equity	1,700	209,794	0.060%
JNLDOFA International Core Equity Fund	Kawasaki Heavy Industries, Ltd.			Equity	6,400	295,048	0.086%
JNLDOFA International Core Equity Fund	Daifuku Co., Ltd.			Equity	6,100	118,626	0.034%
JNLDOFA International Core Equity Fund	Chugai Pharmaceutical Co., Ltd.			Equity	4,800	234,239	0.067%
JNLDOFA International Core Equity Fund	Esaki Co., Ltd.			Equity	1,400	52,887	0.015%
JNLDOFA International Core Equity Fund	Fujitsu Limited			Equity	17,000	350,215	0.101%
JNLDOFA International Core Equity Fund	Daiwa House Industry Co., Ltd.			Equity	10,700	340,620	0.098%
JNLDOFA International Core Equity Fund	KYOCERA Corporation			Equity	20,400	241,216	0.069%
JNLDOFA International Core Equity Fund	Computershare Limited			Equity	13,969	243,902	0.070%
JNLDOFA International Core Equity Fund	Hikokan Corporation			Equity	8,200	93,774	0.027%
JNLDOFA International Core Equity Fund	Mitsui O.S.K. Lines, Ltd.			Equity	7,200	257,444	0.074%
JNLDOFA International Core Equity Fund	Hitachi, Ltd.			Equity	62,000	1,615,537	0.465%
JNLDOFA International Core Equity Fund	Marubeni Corporation			Equity	13,500	226,569	0.065%
JNLDOFA International Core Equity Fund	Malika Corporation			Equity	2,700	81,663	0.024%
JNLDOFA International Core Equity Fund	AEON MALL Co., Ltd.			Equity	400	5,884	0.002%
JNLDOFA International Core Equity Fund	AEON Co., Ltd.			Equity	9,300	253,597	0.073%
JNLDOFA International Core Equity Fund	Onica Limited			Equity	38,262	491,372	0.141%
JNLDOFA International Core Equity Fund	Power Assets Holdings Limited			Equity	10,000	63,670	0.018%
JNLDOFA International Core Equity Fund	Commonwealth Bank of Australia			Equity	11,500	1,078,409	0.310%
JNLDOFA International Core Equity Fund	Mandarin Oriental International Limited			Equity	12,200	20,994	0.006%
JNLDOFA International Core Equity Fund	BOC Hong Kong (Holdings) Limited			Equity	42,000	133,251	0.038%
JNLDOFA International Core Equity Fund	Bank Leumi Le-Israel B.M.			Equity	30,936	283,125	0.081%
JNLDOFA International Core Equity Fund	Rio Tinto Limited			Equity	6,465	576,297	0.166%
JNLDOFA International Core Equity Fund	CSL Limited			Equity	1,764	352,667	0.101%
JNLDOFA International Core Equity Fund	Cochlear Limited			Equity	1,176	231,518	0.067%
JNLDOFA International Core Equity Fund	Konica Minolta, Inc.			Equity	250,400	724,421	0.208%
JNLDOFA International Core Equity Fund	Hyson Development Company Limited			Equity	19,000	43,148	0.012%
JNLDOFA International Core Equity Fund	Hongkong Land Holdings Limited			Equity	11,500	42,806	0.012%
JNLDOFA International Core Equity Fund	Lendlease Corporation Limited			Equity	44,428	218,133	0.063%
JNLDOFA International Core Equity Fund	Golden Agri-Resources Ltd.			Equity	563,600	122,359	0.035%
JNLDOFA International Core Equity Fund	Mizuho Financial Group, Inc.			Equity	19,390	323,936	0.093%
JNLDOFA International Core Equity Fund	NTT DATA Corporation			Equity	6,100	110,341	0.032%
JNLDOFA International Core Equity Fund	Australian Pipeline Trust			Equity	14,001	75,187	0.022%
JNLDOFA International Core Equity Fund	SBI Holdings, Inc.			Equity	4,600	107,266	0.031%
JNLDOFA International Core Equity Fund	East Japan Railway Company			Equity	4,200	84,024	0.024%
JNLDOFA International Core Equity Fund	KDDI Corporation			Equity	15,100	490,573	0.141%
JNLDOFA International Core Equity Fund	Telstra Corporation Limited			Equity	56,774	152,478	0.044%
JNLDOFA International Core Equity Fund	Pan Pacific International Holdings Corporation			Equity	6,300	162,593	0.047%
JNLDOFA International Core Equity Fund	FAIUC Corporation			Equity	2,400	79,235	0.023%
JNLDOFA International Core Equity Fund	Kubota Corporation			Equity	4,100	58,406	0.017%
JNLDOFA International Core Equity Fund	Daiwa Securities Group Inc.			Equity	26,000	186,958	0.054%
JNLDOFA International Core Equity Fund	Fisher & Paykel Healthcare Corporation Limited			Equity	2,591	57,060	0.016%
JNLDOFA International Core Equity Fund	Israel Discount Bank Limited			Equity	31,095	173,670	0.050%
JNLDOFA International Core Equity Fund	Maubuchi Motor Co., Ltd.			Equity	22,800	354,154	0.102%
JNLDOFA International Core Equity Fund	SATS Ltd.			Equity	6,900	19,422	0.006%
JNLDOFA International Core Equity Fund	Mitsui & Co., Ltd.			Equity	16,600	374,788	0.108%
JNLDOFA International Core Equity Fund	Kelown Electric Railway Co., Ltd.			Equity	400	11,918	0.003%
JNLDOFA International Core Equity Fund	Tokai Marine Holdings, Inc.			Equity	19,100	709,210	0.204%
JNLDOFA International Core Equity Fund	LY Corporation			Equity	35,400	103,509	0.030%
JNLDOFA International Core Equity Fund	Fletcher Building Limited			Equity	41,931	78,411	0.023%
JNLDOFA International Core Equity Fund	Ryman Healthcare Limited			Equity	9,419	25,790	0.007%
JNLDOFA International Core Equity Fund	Transurban Holdings Limited			Equity	14,600	133,667	0.038%
JNLDOFA International Core Equity Fund	FUJIFILM Holdings Corporation			Equity	5,700	148,072	0.043%
JNLDOFA International Core Equity Fund	Bank Hapoalim Ltd			Equity	23,130	231,297	0.067%
JNLDOFA International Core Equity Fund	Nomura Holdings, Inc.			Equity	58,100	305,171	0.088%
JNLDOFA International Core Equity Fund	Hamamatsu Photonics K.K.			Equity	18,800	248,934	0.072%
JNLDOFA International Core Equity Fund	Dowia Holdings Co., Ltd.			Equity	24,800	910,855	0.262%
JNLDOFA International Core Equity Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	22,500	488,447	0.141%
JNLDOFA International Core Equity Fund	The a2 Milk Company Limited			Equity	4,230	18,334	0.005%
JNLDOFA International Core Equity Fund	Sohyo Security Services Co., Ltd.			Equity	69,500	479,071	0.138%
JNLDOFA International Core Equity Fund	Hong Kong Exchanges and Clearing Limited			Equity	8,270	339,787	0.098%
JNLDOFA International Core Equity Fund	Capcom Co., Ltd.			Equity	7,400	173,079	0.050%
JNLDOFA International Core Equity Fund	Nomura Research Institute, Ltd.			Equity	6,300	233,794	0.067%
JNLDOFA International Core Equity Fund	Aristocrat Leisure Limited			Equity	12,620	112,993	0.033%
JNLDOFA International Core Equity Fund	Westlanners Limited			Equity	8,057	399,254	0.115%
JNLDOFA International Core Equity Fund	UBE Corporation			Equity	45,100	857,849	0.247%
JNLDOFA International Core Equity Fund	Centrica PLC			Equity	521,266	814,404	0.234%
JNLDOFA International Core Equity Fund	West Japan Railway Company			Equity	1,600	146,139	0.042%
JNLDOFA International Core Equity Fund	Tsumura & Co.			Equity	1,200	38,438	0.011%
JNLDOFA International Core Equity Fund	Nippon Paint Holdings Co., Ltd.			Equity	4,800	36,572	0.011%
JNLDOFA International Core Equity Fund	Saffron			Equity	2,962	697,546	0.201%
JNLDOFA International Core Equity Fund	Santen Pharmaceutical Co., Ltd.			Equity	46,900	572,316	0.165%
JNLDOFA International Core Equity Fund	Sumitomo Chemical Company, Limited			Equity	346,200	888,985	0.255%
JNLDOFA International Core Equity Fund	TOHO GAS Co., Ltd.			Equity	2,600	72,635	0.021%
JNLDOFA International Core Equity Fund	Terumo Corporation			Equity	4,800	91,125	0.026%
JNLDOFA International Core Equity Fund	Northern Star Resources Ltd			Equity	11,901	130,948	0.038%
JNLDOFA International Core Equity Fund	Minebeamium Inc.			Equity	7,300	145,123	0.042%
JNLDOFA International Core Equity Fund	Nec Corporation			Equity	3,100	299,199	0.086%
JNLDOFA International Core Equity Fund	ABB Ltd			Equity	23,554	1,366,649	0.393%
JNLDOFA International Core Equity Fund	Yamato Holdings Co., Ltd.			Equity	33,900	391,276	0.113%
JNLDOFA International Core Equity Fund	RENESAS Corporation			Equity	9,800	149,129	0.043%
JNLDOFA International Core Equity Fund	Nippon Steel Corporation			Equity	15,900	363,485	0.105%
JNLDOFA International Core Equity Fund	Tokyo Gas Co., Ltd.			Equity	5,100	119,773	0.034%
JNLDOFA International Core Equity Fund	Euronav			Equity	1,391	23,494	0.007%
JNLDOFA International Core Equity Fund	Nippon Yusen Kabushiki Kaisha			Equity	17,600	659,610	0.190%
JNLDOFA International Core Equity Fund	Olympus Corporation			Equity	7,400	140,838	0.041%
JNLDOFA International Core Equity Fund	Tokyo Electron Limited			Equity	2,700	484,256	0.139%
JNLDOFA International Core Equity Fund	Takeda Pharmaceutical Co Ltd			Equity	16,500	484,038	0.139%
JNLDOFA International Core Equity Fund	Otsu Pharmaceutical Co., Ltd.			Equity	11,400	155,871	0.045%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA International Core Equity Fund	Nestle S.A.			Equity	25,828	2,593,128	0.746%
JNLDOFA International Core Equity Fund	Nissan Chemical Corporation			Equity	18,400	487,267	0.132%
JNLDOFA International Core Equity Fund	Nidec Corporation			Equity	5,600	118,533	0.034%
JNLDOFA International Core Equity Fund	Tokuy Corporation			Equity	4,800	62,324	0.018%
JNLDOFA International Core Equity Fund	Nippon Telegraph and Telephone Corporation			Equity	150,000	156,066	0.045%
JNLDOFA International Core Equity Fund	Mitsubishi Denko Corporation			Equity	24,000	469,047	0.137%
JNLDOFA International Core Equity Fund	Clariant AG			Equity	4,051	61,425	0.018%
JNLDOFA International Core Equity Fund	Shimano Inc.			Equity	1,500	283,299	0.082%
JNLDOFA International Core Equity Fund	Euraszoo			Equity	7,414	609,902	0.175%
JNLDOFA International Core Equity Fund	Unicharm Corporation			Equity	2,000	72,237	0.021%
JNLDOFA International Core Equity Fund	Nissan Motor Co., Ltd.			Equity	64,400	184,340	0.053%
JNLDOFA International Core Equity Fund	Terna - Rete Elettrica Nazionale Societa Per Azioni			Equity	29,112	262,471	0.076%
JNLDOFA International Core Equity Fund	Osaka Gas Co., Ltd.			Equity	3,200	73,050	0.021%
JNLDOFA International Core Equity Fund	Sony Group Corporation			Equity	65,500	1,278,455	0.368%
JNLDOFA International Core Equity Fund	Aseslas Pharma Inc.			Equity	12,600	147,577	0.042%
JNLDOFA International Core Equity Fund	SMC Corporation			Equity	200	89,557	0.026%
JNLDOFA International Core Equity Fund	Enagas S.A.			Equity	10,804	165,656	0.048%
JNLDOFA International Core Equity Fund	Toray Industries, Inc.			Equity	28,400	168,907	0.049%
JNLDOFA International Core Equity Fund	SoftBank Group Corp			Equity	10,000	591,967	0.170%
JNLDOFA International Core Equity Fund	Telecom Italia S.p.A.			Equity	1,239,909	345,116	0.099%
JNLDOFA International Core Equity Fund	Woolworths Group Limited			Equity	8,282	191,018	0.055%
JNLDOFA International Core Equity Fund	OMRON Corporation			Equity	1,800	82,938	0.024%
JNLDOFA International Core Equity Fund	Equinox ASA			Equity	13,705	346,796	0.100%
JNLDOFA International Core Equity Fund	Venture Corporation Limited			Equity	8,900	97,156	0.028%
JNLDOFA International Core Equity Fund	Yakult Honsha Co., Ltd.			Equity	5,200	121,318	0.035%
JNLDOFA International Core Equity Fund	LIXIL Corporation			Equity	96,400	1,182,223	0.340%
JNLDOFA International Core Equity Fund	ACS, Actividades de Construccion y Servicios, S.A.			Equity	10,039	462,684	0.132%
JNLDOFA International Core Equity Fund	Santos Limited			Equity	125,738	612,204	0.176%
JNLDOFA International Core Equity Fund	Skanska AB			Equity	7,307	152,325	0.044%
JNLDOFA International Core Equity Fund	Tosoh Corporation			Equity	22,100	301,565	0.087%
JNLDOFA International Core Equity Fund	Yamaha Corporation			Equity	43,800	383,795	0.109%
JNLDOFA International Core Equity Fund	Singapore Telecommunications Limited			Equity	23,900	60,009	0.017%
JNLDOFA International Core Equity Fund	Telecom Italia S.p.A.			Equity	25,041	7,965	0.002%
JNLDOFA International Core Equity Fund	Yamaha Motor Co., Ltd.			Equity	52,300	469,449	0.135%
JNLDOFA International Core Equity Fund	M3, Inc.			Equity	7,400	74,106	0.021%
JNLDOFA International Core Equity Fund	Nice Ltd			Equity	180	31,328	0.009%
JNLDOFA International Core Equity Fund	Snam S.P.A.			Equity	33,738	171,807	0.049%
JNLDOFA International Core Equity Fund	New Hope Corporation Limited			Equity	53,585	193,799	0.056%
JNLDOFA International Core Equity Fund	Ship Healthcare Holdings, Inc.			Equity	70,800	1,154,287	0.332%
JNLDOFA International Core Equity Fund	Oro Asia			Equity	18,830	124,377	0.036%
JNLDOFA International Core Equity Fund	Spark New Zealand Limited			Equity	14,763	30,000	0.009%
JNLDOFA International Core Equity Fund	Shimadzu Corporation			Equity	4,800	160,589	0.046%
JNLDOFA International Core Equity Fund	Toyota Motor Corporation			Equity	151,000	2,733,812	0.778%
JNLDOFA International Core Equity Fund	Singapore Airlines Limited			Equity	61,200	189,113	0.054%
JNLDOFA International Core Equity Fund	Toyota Tsusho Corporation			Equity	20,700	381,036	0.107%
JNLDOFA International Core Equity Fund	Tokyo Electric Power Company Holdings, Inc.			Equity	20,000	88,895	0.026%
JNLDOFA International Core Equity Fund	Lonz Group AG			Equity	821	520,197	0.150%
JNLDOFA International Core Equity Fund	Renesas Electronics Corporation			Equity	13,700	189,611	0.053%
JNLDOFA International Core Equity Fund	Sino Land Company Limited			Equity	156,523	171,309	0.049%
JNLDOFA International Core Equity Fund	National Australia Bank Limited			Equity	33,086	855,618	0.246%
JNLDOFA International Core Equity Fund	Sumitomo Corporation			Equity	9,700	221,759	0.064%
JNLDOFA International Core Equity Fund	United Overseas Bank Limited			Equity	19,900	487,020	0.139%
JNLDOFA International Core Equity Fund	Secom Co., Ltd.			Equity	2,400	89,344	0.026%
JNLDOFA International Core Equity Fund	Toyo Suisan Kaisha, Ltd.			Equity	400	26,456	0.008%
JNLDOFA International Core Equity Fund	Heineken N.V.			Equity	1,708	151,506	0.044%
JNLDOFA International Core Equity Fund	Ajinom Holding S.p.A.			Equity	9,870	254,778	0.073%
JNLDOFA International Core Equity Fund	Shinogi & Co. Ltd.			Equity	12,300	178,516	0.051%
JNLDOFA International Core Equity Fund	AXA			Equity	13,276	512,335	0.147%
JNLDOFA International Core Equity Fund	Shin-Etsu Chemical Co., Ltd.			Equity	14,500	612,194	0.176%
JNLDOFA International Core Equity Fund	Inditex Pwot Limited			Equity	239,306	516,062	0.148%
JNLDOFA International Core Equity Fund	Sumitomo Electric Industries, Ltd.			Equity	21,400	351,428	0.099%
JNLDOFA International Core Equity Fund	Teijin Limited			Equity	63,900	637,037	0.183%
JNLDOFA International Core Equity Fund	Oriental Land Co., Ltd.			Equity	7,100	183,367	0.053%
JNLDOFA International Core Equity Fund	Holcim AG			Equity	10,829	1,058,786	0.305%
JNLDOFA International Core Equity Fund	Shiende Company, Limited			Equity	4,600	124,285	0.036%
JNLDOFA International Core Equity Fund	Yara International ASA			Equity	2,796	88,627	0.025%
JNLDOFA International Core Equity Fund	Nippon Sanso Holdings Corporation			Equity	4,300	157,341	0.045%
JNLDOFA International Core Equity Fund	Nippon Corporation			Equity	18,700	187,374	0.054%
JNLDOFA International Core Equity Fund	Deutsche Boerse Aktiengesellschaft			Equity	2,782	653,122	0.188%
JNLDOFA International Core Equity Fund	Swire Pacific Limited			Equity	2,000	17,378	0.005%
JNLDOFA International Core Equity Fund	Intact Financial Corporation			Equity	2,721	522,492	0.150%
JNLDOFA International Core Equity Fund	Technic Industries Company Limited			Equity	22,500	338,116	0.097%
JNLDOFA International Core Equity Fund	Sumitomo Realty & Development Co., Ltd.			Equity	5,900	109,613	0.031%
JNLDOFA International Core Equity Fund	Societe d'exploitation Hoteliere			Equity	2,904	237,698	0.068%
JNLDOFA International Core Equity Fund	Sekisui Chemical Co., Ltd.			Equity	16,600	262,641	0.076%
JNLDOFA International Core Equity Fund	Sun Hung Kai Properties Limited			Equity	10,500	114,166	0.033%
JNLDOFA International Core Equity Fund	J Sainsbury PLC			Equity	66,041	261,382	0.075%
JNLDOFA International Core Equity Fund	T&D Holdings, Inc.			Equity	10,400	184,898	0.053%
JNLDOFA International Core Equity Fund	Roche Holding AG			Equity	7,049	2,245,544	0.646%
JNLDOFA International Core Equity Fund	Enel S.p.A.			Equity	89,940	719,102	0.207%
JNLDOFA International Core Equity Fund	Syngene Corporation			Equity	14,100	279,582	0.080%
JNLDOFA International Core Equity Fund	JCBaux SE			Equity	11,004	246,385	0.071%
JNLDOFA International Core Equity Fund	Toyota Industries Corporation			Equity	1,000	78,053	0.022%
JNLDOFA International Core Equity Fund	Sekisui House, Ltd.			Equity	11,300	314,094	0.090%
JNLDOFA International Core Equity Fund	Sonova Holding AG			Equity	764	274,974	0.079%
JNLDOFA International Core Equity Fund	UCL Group Limited			Equity	15,900	64,851	0.019%
JNLDOFA International Core Equity Fund	EssilorLuxoft			Equity	1,204	284,577	0.082%
JNLDOFA International Core Equity Fund	AMP Limited			Equity	157,856	145,590	0.042%
JNLDOFA International Core Equity Fund	Credit Agricole SA			Equity	14,995	229,635	0.066%
JNLDOFA International Core Equity Fund	BNP Paribas			Equity	6,740	461,763	0.133%
JNLDOFA International Core Equity Fund	Mowl ASA			Equity	3,243	58,368	0.017%
JNLDOFA International Core Equity Fund	Nilton Holdings Co., Ltd.			Equity	1,500	223,541	0.064%
JNLDOFA International Core Equity Fund	ORIX Corporation			Equity	18,300	431,405	0.124%
JNLDOFA International Core Equity Fund	Japan Exchange Group, Inc.			Equity	30,000	393,020	0.112%
JNLDOFA International Core Equity Fund	Mizuhoi Tefahot Bank Ltd			Equity	2,740	107,150	0.031%
JNLDOFA International Core Equity Fund	Yaskawa Electric Corporation			Equity	4,400	154,970	0.045%
JNLDOFA International Core Equity Fund	OBE Insurance Group Limited			Equity	34,535	396,434	0.114%
JNLDOFA International Core Equity Fund	Kinross Gold Corporation			Equity	90,225	845,244	0.239%
JNLDOFA International Core Equity Fund	Taiheyo Cement Corporation			Equity	5,600	133,301	0.038%
JNLDOFA International Core Equity Fund	Alfa Laval AB			Equity	2,500	120,147	0.035%
JNLDOFA International Core Equity Fund	Proximus			Equity	5,660	44,122	0.013%
JNLDOFA International Core Equity Fund	Compagnie Des Saint-Gobain			Equity	13,775	1,263,498	0.361%
JNLDOFA International Core Equity Fund	Pvohin Kalkaku Co., Ltd.			Equity	9,900	183,106	0.053%
JNLDOFA International Core Equity Fund	Qantas Airways Limited			Equity	7,432	38,180	0.011%
JNLDOFA International Core Equity Fund	Par24 Co., Ltd.			Equity	6,900	86,390	0.025%
JNLDOFA International Core Equity Fund	Taisei Corporation			Equity	3,700	163,416	0.047%
JNLDOFA International Core Equity Fund	ROHM Co., Ltd.			Equity	10,500	119,890	0.034%
JNLDOFA International Core Equity Fund	Sonic Healthcare Limited			Equity	15,243	287,968	0.083%
JNLDOFA International Core Equity Fund	TOBU Railway Co., LTD.			Equity	800	14,093	0.004%
JNLDOFA International Core Equity Fund	Suzuki Motor Corporation			Equity	21,600	242,554	0.070%
JNLDOFA International Core Equity Fund	TDK Corporation			Equity	39,500	511,656	0.147%
JNLDOFA International Core Equity Fund	Addeco Group AG			Equity	2,067	70,515	0.020%
JNLDOFA International Core Equity Fund	Experian PLC			Equity	14,797	779,819	0.224%
JNLDOFA International Core Equity Fund	Domini's Pizza Enterprises Limited			Equity	6,675	164,002	0.047%
JNLDOFA International Core Equity Fund	Novartis AG			Equity	21,184	2,443,082	0.703%
JNLDOFA International Core Equity Fund	Sumitomo Metal Mining Co., Ltd.			Equity	9,200	277,842	0.080%
JNLDOFA International Core Equity Fund	Eni S.P.A.			Equity	49,254	750,701	0.216%
JNLDOFA International Core Equity Fund	Nintendo Co., Ltd.			Equity	7,300	402,105	0.116%
JNLDOFA International Core Equity Fund	Severn Trent PLC			Equity	5,639	199,260	0.057%
JNLDOFA International Core Equity Fund	Danone			Equity	6,389	465,103	0.134%
JNLDOFA International Core Equity Fund	Aktiebolaget SKF			Equity	9,807	195,164	0.056%
JNLDOFA International Core Equity Fund	Seven & I Holdings Co., Ltd.			Equity	46,500	708,064	0.204%
JNLDOFA International Core Equity Fund	Kipnet Ltd			Equity	21,500	110,590	0.032%
JNLDOFA International Core Equity Fund	Swiss Prime Site AG			Equity	14,654	1,644,169	0.473%
JNLDOFA International Core Equity Fund	Andritz AG			Equity	3,507	249,082	0.072%
JNLDOFA International Core Equity Fund	CaxosBank, S.A.			Equity	85,653	510,302	0.147%
JNLDOFA International Core Equity Fund	Bunzl Public Limited Company			Equity	5,894	179,031	0.050%
JNLDOFA International Core Equity Fund	Unilever PLC			Equity	12,607	817,827	0.235%
JNLDOFA International Core Equity Fund	Mitsubishi Chemical Group Corporation			Equity	72,500	473,013	0.136%
JNLDOFA International Core Equity Fund	Rediff Benckiser Group PLC			Equity	7,658	467,913	0.135%
JNLDOFA International Core Equity Fund	DW Property Invest GmbH			Equity	623	17,271	0.005%
JNLDOFA International Core Equity Fund	Orion Oy			Equity	3,661	200,571	0.058%
JNLDOFA International Core Equity Fund	BCE Inc			Equity	1,390	49,351	0.014%
JNLDOFA International Core Equity Fund	Mapfre SA			Equity	27,257	72,515	0.021%
JNLDOFA International Core Equity Fund	Raffaelsen Bank International AG			Equity	1,152	22,969	0.007%
JNLDOFA International Core Equity Fund	Oversea-Chinese Banking Corporation Limited			Equity	26,766	337,167	0.097%
JNLDOFA International Core Equity Fund	Banco De Sabadell, S.A.			Equity	381,404	843,471	0.243%
JNLDOFA International Core Equity Fund	VINCI			Equity	6,959	813,464	0.234%
JNLDOFA International Core Equity Fund	Logitech International S.A.			Equity	224	20,039	0.006%
JNLDOFA International Core Equity Fund	Franco Nevada Corporation			Equity	610	75,765	0.022%
JNLDOFA International Core Equity Fund	Gernsheimer AG			Equity	1,371	122,290	0.035%
JNLDOFA International Core Equity Fund	Wilmar International Limited			Equity	107,700	279,680	0.080%
JNLDOFA International Core Equity Fund	Effrag			Equity	6,391	617,056	0.178%
JNLDOFA International Core Equity Fund	Engie			Equity	60,813	864,368	0.247%
JNLDOFA International Core Equity Fund	Aalberts N.V.			Equity	7,510	306,158	0.088%
JNLDOFA International Core Equity Fund	Partners Group Holding AG			Equity	600	901,345	0.259%
JNLDOFA International Core Equity Fund	MTU Aero Engines AG			Equity	558	174,139	0.050%
JNLDOFA International Core Equity Fund	Kone Corporation			Equity	4,438	265,435	0.076%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA International Core Equity Fund	Recordati Industria Chimica E Farmaceutica S.P.A. In Breve Recordati S.P.A.			Equity	1,755	99,212	0.029%
JNLDOFA International Core Equity Fund	Brambles Limited			Equity	30,793	4,260	0.118%
JNLDOFA International Core Equity Fund	Gebert AG			Equity	1,180	771,164	0.222%
JNLDOFA International Core Equity Fund	Galp Energia, SGPS, S.A.			Equity	22,461	420,064	0.121%
JNLDOFA International Core Equity Fund	Constellation Software Inc.			Equity	200	650,871	0.187%
JNLDOFA International Core Equity Fund	RTL Group S.A.			Equity	6,699	227,535	0.065%
JNLDOFA International Core Equity Fund	Sandoz Aktiebolag			Equity	12,766	285,338	0.082%
JNLDOFA International Core Equity Fund	Leonardo S.p.A.			Equity	9,988	223,467	0.064%
JNLDOFA International Core Equity Fund	Macquarie Group Limited			Equity	1,799	289,317	0.083%
JNLDOFA International Core Equity Fund	Gelink S.E.			Equity	16,397	292,618	0.084%
JNLDOFA International Core Equity Fund	Aktiebolaget Volvo			Equity	29,649	784,080	0.220%
JNLDOFA International Core Equity Fund	Norsk Hydro ASA			Equity	11,378	73,922	0.021%
JNLDOFA International Core Equity Fund	Legrand			Equity	2,185	251,358	0.072%
JNLDOFA International Core Equity Fund	Metro Oyj			Equity	64,669	701,306	0.202%
JNLDOFA International Core Equity Fund	3i Group PLC			Equity	37,103	1,693,178	0.473%
JNLDOFA International Core Equity Fund	Rexel			Equity	3,647	105,626	0.030%
JNLDOFA International Core Equity Fund	SJM Holdings Limited			Equity	99,000	39,030	0.011%
JNLDOFA International Core Equity Fund	London Stock Exchange Group PLC			Equity	2,713	370,487	0.107%
JNLDOFA International Core Equity Fund	Relx PLC			Equity	8,592	405,422	0.117%
JNLDOFA International Core Equity Fund	Bandal Namco Holdings Inc.			Equity	8,300	190,366	0.055%
JNLDOFA International Core Equity Fund	Bureau Veritas			Equity	9,821	324,627	0.093%
JNLDOFA International Core Equity Fund	Astom			Equity	11,544	239,902	0.069%
JNLDOFA International Core Equity Fund	Neste Oyj			Equity	5,732	110,725	0.032%
JNLDOFA International Core Equity Fund	Impex Corporation			Equity	44,100	602,764	0.173%
JNLDOFA International Core Equity Fund	Fukuoka Financial Group, Inc.			Equity	2,400	62,670	0.018%
JNLDOFA International Core Equity Fund	Orkla ASA			Equity	5,372	50,623	0.015%
JNLDOFA International Core Equity Fund	Smiths Group PLC			Equity	3,036	67,930	0.020%
JNLDOFA International Core Equity Fund	SUMCO Corporation			Equity	18,800	202,536	0.058%
JNLDOFA International Core Equity Fund	Daichi Sankyo Company, Limited			Equity	1,700	56,210	0.016%
JNLDOFA International Core Equity Fund	Renold Int'l PLC			Equity	29,955	146,777	0.042%
JNLDOFA International Core Equity Fund	MasseyDunlopCook & Co.			Equity	6,100	101,117	0.028%
JNLDOFA International Core Equity Fund	Anglo American PLC			Equity	26,642	866,241	0.243%
JNLDOFA International Core Equity Fund	Husvarna Aktiebolag			Equity	12,496	87,433	0.025%
JNLDOFA International Core Equity Fund	Bucher Industries AG			Equity	988	448,978	0.129%
JNLDOFA International Core Equity Fund	DSV AS			Equity	2,274	469,143	0.135%
JNLDOFA International Core Equity Fund	Aker BP ASA			Equity	7,671	163,988	0.047%
JNLDOFA International Core Equity Fund	TotalEnergies SE			Equity	53,337	3,517,571	1.012%
JNLDOFA International Core Equity Fund	Idemitsu Korean Co., Ltd.			Equity	102,300	752,821	0.217%
JNLDOFA International Core Equity Fund	Xinyi Glass Holdings Limited			Equity	133,844	162,691	0.047%
JNLDOFA International Core Equity Fund	Bertrand, Societe Anonima			Equity	38,226	691,178	0.197%
JNLDOFA International Core Equity Fund	L'Air Liquide, societe anonyme pour l'Etude et l'Exploitation des procedes Georges Claude			Equity	3,543	684,302	0.197%
JNLDOFA International Core Equity Fund	Schindler Holding AG			Equity	599	170,406	0.049%
JNLDOFA International Core Equity Fund	NEXON Co., Ltd.			Equity	2,300	45,368	0.013%
JNLDOFA International Core Equity Fund	Jerome Martin, SGPS, S.A.			Equity	3,518	59,114	0.020%
JNLDOFA International Core Equity Fund	Pembina Pipeline Corporation			Equity	7,448	307,018	0.088%
JNLDOFA International Core Equity Fund	Entain PLC			Equity	4,819	49,219	0.014%
JNLDOFA International Core Equity Fund	Brentland SE			Equity	8,629	643,779	0.185%
JNLDOFA International Core Equity Fund	MIRANT ONE Corporation			Equity	63,700	959,670	0.276%
JNLDOFA International Core Equity Fund	Sompo Holdings, Inc.			Equity	11,900	272,132	0.078%
JNLDOFA International Core Equity Fund	AIA Group Limited			Equity	101,200	880,529	0.253%
JNLDOFA International Core Equity Fund	Meiji Holdings Co., Ltd.			Equity	7,700	195,114	0.056%
JNLDOFA International Core Equity Fund	Daichi Life Holdings, Inc.			Equity	9,900	190,690	0.055%
JNLDOFA International Core Equity Fund	Glencore PLC			Equity	214,123	1,221,889	0.352%
JNLDOFA International Core Equity Fund	Element Fleet Management Corp.			Equity	27,473	586,654	0.169%
JNLDOFA International Core Equity Fund	Gjensidige Forsikring ASA			Equity	1,377	25,774	0.007%
JNLDOFA International Core Equity Fund	Dallmeier Inc.			Equity	6,200	635,105	0.183%
JNLDOFA International Core Equity Fund	Osaka Holdings Co., Ltd.			Equity	2,000	113,568	0.033%
JNLDOFA International Core Equity Fund	Azieli Group Ltd.			Equity	657	45,796	0.013%
JNLDOFA International Core Equity Fund	Swiss Re AG			Equity	1,737	239,991	0.069%
JNLDOFA International Core Equity Fund	Brunello Cucinelli S.p.A.			Equity	7,745	836,513	0.241%
JNLDOFA International Core Equity Fund	Tourmaline Oil Corp			Equity	19,611	984,328	0.284%
JNLDOFA International Core Equity Fund	Novocymex AS			Equity	6,286	452,705	0.130%
JNLDOFA International Core Equity Fund	Amadeus IT Holding, S.A.			Equity	6,485	468,325	0.135%
JNLDOFA International Core Equity Fund	Sandis China Ltd.			Equity	14,000	35,316	0.010%
JNLDOFA International Core Equity Fund	Evolution Mining Limited			Equity	93,987	174,255	0.050%
JNLDOFA International Core Equity Fund	Treasury Wine Estates Limited			Equity	32,299	272,469	0.078%
JNLDOFA International Core Equity Fund	ENOS Holdings, Inc.			Equity	162,800	902,112	0.260%
JNLDOFA International Core Equity Fund	Ederred			Equity	4,274	161,752	0.047%
JNLDOFA International Core Equity Fund	ARC Resources Ltd.			Equity	23,100	393,355	0.113%
JNLDOFA International Core Equity Fund	MSAD Insurance Group Holdings, Inc.			Equity	12,900	307,661	0.089%
JNLDOFA International Core Equity Fund	NMC Health PLC			Equity	709	0	0.000%
JNLDOFA International Core Equity Fund	Pandora AIS			Equity	4,616	761,010	0.219%
JNLDOFA International Core Equity Fund	HKT Trust			Equity	203,000	269,000	0.076%
JNLDOFA International Core Equity Fund	United Utilities PLC			Equity	13,084	182,934	0.053%
JNLDOFA International Core Equity Fund	Man Wah Holdings Limited			Equity	59,200	49,118	0.014%
JNLDOFA International Core Equity Fund	Julius Baer Gruppe AG			Equity	25,273	1,521,923	0.438%
JNLDOFA International Core Equity Fund	Suncor Energy Inc.			Equity	32,641	1,204,895	0.347%
JNLDOFA International Core Equity Fund	Rolls-Royce Holdings PLC			Equity	180,210	1,276,152	0.367%
JNLDOFA International Core Equity Fund	MGM China Holdings Limited			Equity	14,800	24,086	0.007%
JNLDOFA International Core Equity Fund	Cenovus Energy Inc.			Equity	29,903	500,134	0.144%
JNLDOFA International Core Equity Fund	Italgas S.p.A.			Equity	24,838	149,800	0.043%
JNLDOFA International Core Equity Fund	Nutrien Ltd.			Equity	19,630	953,871	0.274%
JNLDOFA International Core Equity Fund	Valero			Equity	6,726	80,984	0.023%
JNLDOFA International Core Equity Fund	Aurizon Holdings Limited			Equity	92,519	226,146	0.065%
JNLDOFA International Core Equity Fund	Kon Group AG			Equity	5,433	370,688	0.107%
JNLDOFA International Core Equity Fund	Bank of Ireland Group Public Limited Company			Equity	50,267	562,538	0.162%
JNLDOFA International Core Equity Fund	Siemens Healthineers AG			Equity	2,204	132,304	0.038%
JNLDOFA International Core Equity Fund	Suntory Beverage & Food Limited			Equity	2,100	79,250	0.023%
JNLDOFA International Core Equity Fund	Compagnie Financiere Richemont SA			Equity	2,867	443,265	0.128%
JNLDOFA International Core Equity Fund	Ferrari N.V.			Equity	174	81,534	0.023%
JNLDOFA International Core Equity Fund	Ferrari N.V.			Equity	711	334,248	0.096%
JNLDOFA International Core Equity Fund	Tele2 AB			Equity	14,416	163,298	0.047%
JNLDOFA International Core Equity Fund	Kyushu Railway Company			Equity	5,900	171,852	0.049%
JNLDOFA International Core Equity Fund	Wheaton Precious Metals Corp.			Equity	2,728	296,356	0.085%
JNLDOFA International Core Equity Fund	Novonia SE			Equity	6,913	252,430	0.073%
JNLDOFA International Core Equity Fund	Koninklijke Ahold Delhaize N.V.			Equity	38,217	1,322,743	0.381%
JNLDOFA International Core Equity Fund	Concordia Financial Group, Ltd.			Equity	91,100	515,782	0.148%
JNLDOFA International Core Equity Fund	National Grid PLC			Equity	14,368	148,936	0.043%
JNLDOFA International Core Equity Fund	ASML Holding N.V.			Equity	2,080	1,737,624	0.500%
JNLDOFA International Core Equity Fund	Redeia Corporation SA			Equity	9,944	193,140	0.056%
JNLDOFA International Core Equity Fund	Tokuy Sodafoods Holdings Co., Ltd.			Equity	85,600	601,665	0.173%
JNLDOFA International Core Equity Fund	Colephed AIS			Equity	2,717	354,967	0.102%
JNLDOFA International Core Equity Fund	The Sage Group PLC			Equity	11,014	151,444	0.044%
JNLDOFA International Core Equity Fund	Apeas SAINV			Equity	6,841	365,273	0.105%
JNLDOFA International Core Equity Fund	Genring Singapore Limited			Equity	131,700	89,564	0.026%
JNLDOFA International Core Equity Fund	LEO ImmoBlen SE			Equity	14,620	379,296	0.109%
JNLDOFA International Core Equity Fund	HK Electric Investments Limited			Equity	72,000	48,914	0.014%
JNLDOFA International Core Equity Fund	Compass Group PLC			Equity	11,652	373,770	0.108%
JNLDOFA International Core Equity Fund	NN Group N.V.			Equity	12,051	598,945	0.172%
JNLDOFA International Core Equity Fund	Anheuser-Busch InBev			Equity	9,858	652,236	0.188%
JNLDOFA International Core Equity Fund	Rio Tinto PLC			Equity	10,534	749,705	0.216%
JNLDOFA International Core Equity Fund	Osisko Gold Royalties Ltd			Equity	4,000	74,280	0.021%
JNLDOFA International Core Equity Fund	AstraZeneca PLC			Equity	9,059	705,787	0.203%
JNLDOFA International Core Equity Fund	Teva Pharmaceutical Industries Ltd			Equity	4,087	73,648	0.021%
JNLDOFA International Core Equity Fund	Pirelli & C. S.p.A.			Equity	28,993	175,927	0.050%
JNLDOFA International Core Equity Fund	ING Groep N.V.			Equity	23,232	422,747	0.122%
JNLDOFA International Core Equity Fund	SES			Equity	4,706	23,527	0.007%
JNLDOFA International Core Equity Fund	Moncler S.p.A.			Equity	3,772	239,826	0.069%
JNLDOFA International Core Equity Fund	ASN AMRO Bank N.V.			Equity	87,056	670,648	0.193%
JNLDOFA International Core Equity Fund	Alamos Gold Inc.			Equity	8,948	178,305	0.051%
JNLDOFA International Core Equity Fund	BP P.L.C.			Equity	8,089	253,914	0.073%
JNLDOFA International Core Equity Fund	Bank Of Georgia Group PLC			Equity	7,116	358,804	0.103%
JNLDOFA International Core Equity Fund	Sika AG			Equity	1,443	178,937	0.051%
JNLDOFA International Core Equity Fund	James Hardie Industries Public Limited Company			Equity	7,403	295,786	0.085%
JNLDOFA International Core Equity Fund	WH Group Limited			Equity	400,279	314,802	0.091%
JNLDOFA International Core Equity Fund	AB Group Public Limited Company			Equity	13,291	76,383	0.022%
JNLDOFA International Core Equity Fund	Umicore			Equity	16,089	209,139	0.060%
JNLDOFA International Core Equity Fund	Wharf Real Estate Investment Company Limited			Equity	23,000	80,438	0.023%
JNLDOFA International Core Equity Fund	Informa PLC			Equity	54,744	602,097	0.173%
JNLDOFA International Core Equity Fund	Vodafone Group Public Limited Company			Equity	920,572	922,925	0.266%
JNLDOFA International Core Equity Fund	ASML Holding N.V.			Equity	921,106	921,575	0.265%
JNLDOFA International Core Equity Fund	Nokio Oyj			Equity	17,127	74,845	0.022%
JNLDOFA International Core Equity Fund	Essity Aktiebolag (publ)			Equity	10,070	314,549	0.091%
JNLDOFA International Core Equity Fund	Koninklijke Philips N.V.			Equity	2,033	66,520	0.019%
JNLDOFA International Core Equity Fund	Novartis AG			Equity	11,241	1,292,940	0.372%
JNLDOFA International Core Equity Fund	PrairieSky Royalty Ltd.			Equity	14,146	290,148	0.083%
JNLDOFA International Core Equity Fund	Auckland International Airport Limited			Equity	10,238	49,009	0.014%
JNLDOFA International Core Equity Fund	Waste Connections, Inc.			Equity	1,100	196,625	0.057%
JNLDOFA International Core Equity Fund	AGL Energy Limited			Equity	15,398	126,179	0.036%
JNLDOFA International Core Equity Fund	Shopify Inc.			Equity	370	29,652	0.009%
JNLDOFA International Core Equity Fund	Shopify Inc.			Equity	500	40,057	0.012%
JNLDOFA International Core Equity Fund	Zalando SE			Equity	3,315	109,485	0.032%
JNLDOFA International Core Equity Fund	Poste Italiane - Societa' Per Azioni			Equity	7,181	100,690	0.029%
JNLDOFA International Core Equity Fund	Plutur Entertainment Public Limited Company			Equity	651	153,213	0.044%
JNLDOFA International Core Equity Fund	Hydro One Limited			Equity	1,988	68,910	0.020%
JNLDOFA International Core Equity Fund	Covestro AG			Equity	11,814	735,683	0.212%
JNLDOFA International Core Equity Fund	CK Hutchison Holdings Limited			Equity	44,000	250,104	0.072%
JNLDOFA International Core Equity Fund	TechnoPro Holdings, Inc.			Equity	21,200	410,559	0.118%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA International Core Equity Fund	ASSA ABLOY AB			Equity	2,997	100,872	0.029%
JNLDOFA International Core Equity Fund	Resnat Holdings Co. Ltd.			Equity	9,700	581,179	0.170%
JNLDOFA International Core Equity Fund	Orsted A/S			Equity	713	47,282	0.014%
JNLDOFA International Core Equity Fund	Banca Mediolanum SpA			Equity	3,883	48,948	0.014%
JNLDOFA International Core Equity Fund	Celnex Telecom. S.A.			Equity	3,331	134,986	0.039%
JNLDOFA International Core Equity Fund	Japan Post Bank Co. Ltd.			Equity	9,300	86,780	0.025%
JNLDOFA International Core Equity Fund	South3 Limited			Equity	47,761	126,128	0.036%
JNLDOFA International Core Equity Fund	Meridian Energy Limited			Equity	7,263	27,333	0.008%
JNLDOFA International Core Equity Fund	Medibank Private Limited			Equity	10,784	27,311	0.008%
JNLDOFA International Core Equity Fund	Atlas Arteria Limited			Equity	32,751	115,522	0.033%
JNLDOFA International Core Equity Fund	AENA, S.M.E. S.A.			Equity	1,103	242,548	0.070%
JNLDOFA International Core Equity Fund	ArceflorMital			Equity	618	16,272	0.005%
JNLDOFA International Core Equity Fund	Restaurant Brands International Limited Partnership			Equity	4,500	327,328	0.094%
JNLDOFA International Core Equity Fund	Auto Trader Group PLC			Equity	8,481	98,866	0.028%
JNLDOFA International Core Equity Fund	CK Asset Holdings Limited			Equity	35,302	153,738	0.044%
JNLDOFA International Core Equity Fund	Svenska Handelsbanken AB			Equity	10,492	107,752	0.031%
JNLDOFA International Core Equity Fund	Industria de Diseno Textil, S.A.			Equity	8,887	526,198	0.151%
JNLDOFA International Core Equity Fund	Japan Post Holdings Co. Ltd.			Equity	11,600	113,032	0.033%
JNLDOFA International Core Equity Fund	Trigg A/S			Equity	18,167	430,974	0.124%
JNLDOFA International Core Equity Fund	Demant A/S			Equity	11,551	451,962	0.130%
JNLDOFA International Core Equity Fund	Schibsted ASA			Equity	5,679	171,532	0.049%
JNLDOFA International Core Equity Fund	UBS Group AG			Equity	25,866	801,010	0.230%
JNLDOFA International Core Equity Fund	UBS Group AG			Equity	417	12,889	0.004%
JNLDOFA International Core Equity Fund	CK Infrastructure Holdings Limited			Equity	4,000	27,210	0.008%
JNLDOFA International Core Equity Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	27,261	1,198,906	0.345%
JNLDOFA International Core Equity Fund	Thule Group AB			Equity	1,915	58,444	0.017%
JNLDOFA International Core Equity Fund	Golden Ocean Group Limited			Equity	1,734	23,283	0.007%
JNLDOFA International Core Equity Fund	Elis Services			Equity	3,855	80,994	0.023%
JNLDOFA International Core Equity Fund	Adyen N.V.			Equity	92	144,159	0.041%
JNLDOFA International Core Equity Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	1,225	101,653	0.029%
JNLDOFA International Core Equity Fund	Volkswagen Aktiengesellschaft			Equity	4,527	489,575	0.140%
JNLDOFA International Core Equity Fund	la Scaie Francaise Inc.			Equity	8,800	729,402	0.210%
JNLDOFA International Core Equity Fund	SoftBank Corp.			Equity	186,000	248,273	0.071%
JNLDOFA International Core Equity Fund	Nexans			Equity	667	97,794	0.028%
JNLDOFA International Core Equity Fund	Azko Nobel N.V.			Equity	3,786	267,561	0.077%
JNLDOFA International Core Equity Fund	Gauchtransport Et Technipaz			Equity	2,940	414,163	0.119%
JNLDOFA International Core Equity Fund	CGI Inc.			Equity	380	43,685	0.013%
JNLDOFA International Core Equity Fund	CGI Inc.			Equity	5,680	653,571	0.188%
JNLDOFA International Core Equity Fund	Nova Ltd.			Equity	300	62,502	0.018%
JNLDOFA International Core Equity Fund	Contact Energy Limited			Equity	15,985	91,485	0.026%
JNLDOFA International Core Equity Fund	Roche Holding AG			Equity	325	110,954	0.032%
JNLDOFA International Core Equity Fund	Castellum Aktiebolag			Equity	5,771	84,576	0.024%
JNLDOFA International Core Equity Fund	TGS-NOPEC Geophysical Company			Equity	8,076	75,602	0.022%
JNLDOFA International Core Equity Fund	First International Bank of Israel Ltd.			Equity	2,210	91,491	0.026%
JNLDOFA International Core Equity Fund	Amdod AB			Equity	7,232	203,864	0.059%
JNLDOFA International Core Equity Fund	Laserteck Co. Ltd.			Equity	1,400	231,611	0.067%
JNLDOFA International Core Equity Fund	Tenaris S.A.			Equity	990	31,472	0.009%
JNLDOFA International Core Equity Fund	Tom P.L.C.			Equity	4,189	143,144	0.041%
JNLDOFA International Core Equity Fund	Samsonite International S.A.			Equity	72,900	197,412	0.057%
JNLDOFA International Core Equity Fund	Bper Banca S.P.A.			Equity	137,843	777,915	0.224%
JNLDOFA International Core Equity Fund	Alcon AG			Equity	5,330	536,638	0.154%
JNLDOFA International Core Equity Fund	Alcon AG			Equity	8,215	621,935	0.179%
JNLDOFA International Core Equity Fund	Avanza Bank Holding AB			Equity	6,543	162,324	0.047%
JNLDOFA International Core Equity Fund	Croda International Public Limited Company			Equity	2,387	135,915	0.039%
JNLDOFA International Core Equity Fund	Bausch Health Companies Inc.			Equity	6,497	53,035	0.015%
JNLDOFA International Core Equity Fund	TC Energy Corporation			Equity	25,678	1,238,855	0.356%
JNLDOFA International Core Equity Fund	FirstService Corporation			Equity	2,500	457,407	0.132%
JNLDOFA International Core Equity Fund	Man Group PLC			Equity	114,590	323,839	0.093%
JNLDOFA International Core Equity Fund	Quebecor Inc.			Equity	4,262	111,273	0.032%
JNLDOFA International Core Equity Fund	Carl Zeiss Meditec AG			Equity	141	11,181	0.003%
JNLDOFA International Core Equity Fund	Adventist Corporation			Equity	11,200	53,823	0.015%
JNLDOFA International Core Equity Fund	Mitsui Mining & Smelting Co. Ltd.			Equity	20,800	729,454	0.210%
JNLDOFA International Core Equity Fund	Tokai Carbon Co. Ltd.			Equity	93,000	599,942	0.173%
JNLDOFA International Core Equity Fund	Melchior Limited			Equity	122,584	303,825	0.087%
JNLDOFA International Core Equity Fund	Lindab International AB			Equity	6,491	181,445	0.052%
JNLDOFA International Core Equity Fund	Rubis			Equity	2,408	65,760	0.019%
JNLDOFA International Core Equity Fund	TransAlta Corporation			Equity	9,779	102,024	0.029%
JNLDOFA International Core Equity Fund	Whitcap Resources Inc.			Equity	88,580	665,491	0.191%
JNLDOFA International Core Equity Fund	Northland Power Inc.			Equity	1	17	0.000%
JNLDOFA International Core Equity Fund	TFI International Inc.			Equity	2,118	290,954	0.084%
JNLDOFA International Core Equity Fund	Diageo PLC			Equity	1,244	177,717	0.051%
JNLDOFA International Core Equity Fund	Relx PLC			Equity	5,212	247,362	0.071%
JNLDOFA International Core Equity Fund	Unilever PLC			Equity	8,425	547,288	0.157%
JNLDOFA International Core Equity Fund	HSBC Holdings PLC			Equity	8,115	366,717	0.106%
JNLDOFA International Core Equity Fund	InterContinental Hotels Group PLC			Equity	772	85,298	0.025%
JNLDOFA International Core Equity Fund	National Grid PLC			Equity	1,845	128,541	0.037%
JNLDOFA International Core Equity Fund	Air Canada			Equity	9,181	99,143	0.029%
JNLDOFA International Core Equity Fund	DS Smith PLC			Equity	134,983	855,050	0.246%
JNLDOFA International Core Equity Fund	Games Workshop Group PLC			Equity	11,303	1,628,826	0.469%
JNLDOFA International Core Equity Fund	Acciona S.A.			Equity	1,333	188,727	0.054%
JNLDOFA International Core Equity Fund	Buzzi S.A.			Equity	2,405	95,753	0.028%
JNLDOFA International Core Equity Fund	Bechtle Aktiengesellschaft			Equity	9,652	431,201	0.124%
JNLDOFA International Core Equity Fund	Alten			Equity	2,763	308,262	0.089%
JNLDOFA International Core Equity Fund	Cathay Pacific Airways Limited			Equity	64,000	70,208	0.020%
JNLDOFA International Core Equity Fund	Bure Equity AB			Equity	1,021	41,467	0.012%
JNLDOFA International Core Equity Fund	Ackermans			Equity	1,968	418,405	0.120%
JNLDOFA International Core Equity Fund	Kesko Oyj			Equity	6,463	137,958	0.040%
JNLDOFA International Core Equity Fund	Wienerberger AG			Equity	3,862	127,677	0.037%
JNLDOFA International Core Equity Fund	Sudzucker AG			Equity	3,145	39,530	0.011%
JNLDOFA International Core Equity Fund	Sot SE			Equity	1,251	92,220	0.027%
JNLDOFA International Core Equity Fund	Webjet Limited			Equity	15,386	78,452	0.023%
JNLDOFA International Core Equity Fund	CLAL Insurance Enterprises Holdings Ltd			Equity	8,135	138,188	0.040%
JNLDOFA International Core Equity Fund	Lotus Bakeries			Equity	52	698,539	0.201%
JNLDOFA International Core Equity Fund	Dalmeida Holdings Co. Ltd.			Equity	10,400	199,565	0.057%
JNLDOFA International Core Equity Fund	Strauss Group Ltd			Equity	1,288	20,524	0.006%
JNLDOFA International Core Equity Fund	Air New Zealand Limited			Equity	113,235	38,057	0.011%
JNLDOFA International Core Equity Fund	Maintreight Limited			Equity	1,392	63,065	0.018%
JNLDOFA International Core Equity Fund	EBARA Corporation			Equity	27,000	359,017	0.102%
JNLDOFA International Core Equity Fund	The Hachijuni Bank, Ltd.			Equity	221,200	1,318,566	0.379%
JNLDOFA International Core Equity Fund	Nagase & Co., Ltd.			Equity	47,600	1,080,144	0.311%
JNLDOFA International Core Equity Fund	Melicon Limited			Equity	326	24,738	0.007%
JNLDOFA International Core Equity Fund	Nippon Gas Co. Ltd.			Equity	70,000	1,142,984	0.329%
JNLDOFA International Core Equity Fund	Pacific Basin Shipping Limited			Equity	225,000	70,939	0.020%
JNLDOFA International Core Equity Fund	Japan Petroleum Exploration Co. Ltd.			Equity	9,500	71,072	0.020%
JNLDOFA International Core Equity Fund	JB HS-FI Limited			Equity	7,840	434,756	0.125%
JNLDOFA International Core Equity Fund	Mifco Inc.			Equity	13,100	338,138	0.097%
JNLDOFA International Core Equity Fund	Matrix T. Ltd			Equity	9,567	184,890	0.053%
JNLDOFA International Core Equity Fund	Toyot Tire Corporation			Equity	32,500	476,948	0.137%
JNLDOFA International Core Equity Fund	Shikoku Electric Power Company, Incorporated			Equity	3,400	30,662	0.009%
JNLDOFA International Core Equity Fund	SKY CITY Entertainment Group Limited			Equity	43,253	37,974	0.011%
JNLDOFA International Core Equity Fund	Konecranes Abp			Equity	2,432	182,549	0.053%
JNLDOFA International Core Equity Fund	Zealand Pharma A/S			Equity	993	121,026	0.035%
JNLDOFA International Core Equity Fund	Mineral Resources Limited			Equity	8,276	297,139	0.085%
JNLDOFA International Core Equity Fund	Swedish Orphan Biovitrum AB (Publ)			Equity	2,433	78,242	0.023%
JNLDOFA International Core Equity Fund	Alsa ASA			Equity	6,014	77,895	0.022%
JNLDOFA International Core Equity Fund	Seven Group Holdings Limited			Equity	627	18,669	0.005%
JNLDOFA International Core Equity Fund	Chow Tai Fook Jewellery Group Limited			Equity	44,000	48,829	0.014%
JNLDOFA International Core Equity Fund	Sparebank 1 -Sj-Bank Asa			Equity	8,019	103,792	0.030%
JNLDOFA International Core Equity Fund	Bonapard ASA			Equity	4,212	79,265	0.023%
JNLDOFA International Core Equity Fund	Summerset Group Holdings Limited			Equity	13,792	104,615	0.030%
JNLDOFA International Core Equity Fund	Mercury NZ Limited			Equity	3,085	12,619	0.004%
JNLDOFA International Core Equity Fund	Talans Aktiengesellschaft			Equity	985	83,400	0.024%
JNLDOFA International Core Equity Fund	Pfz Basketball Sales			Equity	754	43,368	0.012%
JNLDOFA International Core Equity Fund	AAK AB (publ)			Equity	2,437	80,024	0.023%
JNLDOFA International Core Equity Fund	Odjelt Drilling Ltd.			Equity	11,938	57,890	0.017%
JNLDOFA International Core Equity Fund	IDP Education Limited			Equity	15,681	172,198	0.050%
JNLDOFA International Core Equity Fund	Ringkjolding Landobank. Aktieselskab			Equity	6,697	1,056,983	0.304%
JNLDOFA International Core Equity Fund	IMI PLC			Equity	28,336	689,179	0.198%
JNLDOFA International Core Equity Fund	IMcD N.V.			Equity	1,244	216,538	0.062%
JNLDOFA International Core Equity Fund	Valmet Oy			Equity	21,034	689,949	0.199%
JNLDOFA International Core Equity Fund	BE Semiconductor Industries N.V.			Equity	3,366	427,845	0.123%
JNLDOFA International Core Equity Fund	Genesis Energy Limited			Equity	22,171	30,320	0.009%
JNLDOFA International Core Equity Fund	Euronext N.V.			Equity	3,543	384,883	0.111%
JNLDOFA International Core Equity Fund	ASM International N.V.			Equity	1,395	919,099	0.264%
JNLDOFA International Core Equity Fund	HMS Networks AB			Equity	2,801	111,485	0.032%
JNLDOFA International Core Equity Fund	Baycurrent Inc.			Equity	2,500	92,195	0.027%
JNLDOFA International Core Equity Fund	Siltronix AG			Equity	1,745	132,758	0.038%
JNLDOFA International Core Equity Fund	MH Development Limited			Equity	12,000	0	0.000%
JNLDOFA International Core Equity Fund	Banco BPM Societa Per Azioni			Equity	126,398	853,689	0.246%
JNLDOFA International Core Equity Fund	Trellborg AB			Equity	3,520	135,444	0.039%
JNLDOFA International Core Equity Fund	Rockwood A/S			Equity	162	76,190	0.022%
JNLDOFA International Core Equity Fund	Reply S.p.A.			Equity	417	62,894	0.018%
JNLDOFA International Core Equity Fund	Sple SA			Equity	1,267	48,475	0.014%
JNLDOFA International Core Equity Fund	Banco Comercial Portugues S.A.			Equity	887,221	392,344	0.113%
JNLDOFA International Core Equity Fund	RS Group PLC			Equity	58,753	635,954	0.183%
JNLDOFA International Core Equity Fund	CTS Eventim AG & Co. KGaA			Equity	5,581	581,648	0.167%
JNLDOFA International Core Equity Fund	Sotlec			Equity	617	61,438	0.018%
JNLDOFA International Core Equity Fund	SCREEN Holdings Co. Ltd.			Equity	1,800	127,966	0.037%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA International Core Equity Fund	Rheinmetall Aktiengesellschaft			Equity	1,887	1,025,767	0.295%
JNLDOFA International Core Equity Fund	Vacoco Holdings Corp.			Equity	1,500	47,214	0.014%
JNLDOFA International Core Equity Fund	Ela Group			Equity	629	71,936	0.021%
JNLDOFA International Core Equity Fund	Chorus Limited			Equity	15,117	86,378	0.025%
JNLDOFA International Core Equity Fund	Sapporo Holdings Limited			Equity	6,900	379,950	0.109%
JNLDOFA International Core Equity Fund	Ireinet AG			Equity	11,291	336,257	0.097%
JNLDOFA International Core Equity Fund	Kagome Co., Ltd.			Equity	1,000	22,366	0.006%
JNLDOFA International Core Equity Fund	JEOL Ltd.			Equity	700	27,489	0.008%
JNLDOFA International Core Equity Fund	Fujikura Ltd.			Equity	2,600	88,427	0.025%
JNLDOFA International Core Equity Fund	Formula Systems (1985) Ltd.			Equity	1,707	136,673	0.039%
JNLDOFA International Core Equity Fund	Sankyu Inc.			Equity	21,000	717,549	0.209%
JNLDOFA International Core Equity Fund	Sotetsu Holdings Inc.			Equity	11,400	191,572	0.055%
JNLDOFA International Core Equity Fund	Azbil Corporation			Equity	8,800	71,994	0.021%
JNLDOFA International Core Equity Fund	Brivac PLC			Equity	8,722	148,790	0.043%
JNLDOFA International Core Equity Fund	WIENNA INSURANCE GROUP AG Wiener Versicherung Gruppe			Equity	3,542	117,806	0.034%
JNLDOFA International Core Equity Fund	YIS Inc.			Equity	8,000	205,674	0.059%
JNLDOFA International Core Equity Fund	Datwyler Holding AG			Equity	1,443	294,440	0.085%
JNLDOFA International Core Equity Fund	Sanken Electric Co. Ltd.			Equity	9,100	426,146	0.123%
JNLDOFA International Core Equity Fund	EROS Group Limited			Equity	1,872	42,979	0.012%
JNLDOFA International Core Equity Fund	Sulzer AG			Equity	1,384	227,003	0.065%
JNLDOFA International Core Equity Fund	Telekom Austria Aktiengesellschaft			Equity	6,567	64,241	0.018%
JNLDOFA International Core Equity Fund	Arow Properties & Lodgings Ltd.			Equity	106	3,788	0.001%
JNLDOFA International Core Equity Fund	Billerud Aktiefond (publ)			Equity	7,688	89,991	0.025%
JNLDOFA International Core Equity Fund	Stolt-Nielsen M.S. Ltd.			Equity	505	18,689	0.005%
JNLDOFA International Core Equity Fund	Artizia, Inc.			Equity	4,600	172,885	0.050%
JNLDOFA International Core Equity Fund	NetLink NBN Trust			Equity	83,000	59,148	0.017%
JNLDOFA International Core Equity Fund	Beazley Ireland Holdings PLC			Equity	151,400	1,545,103	0.445%
JNLDOFA International Core Equity Fund	Hapag-Lloyd Aktiengesellschaft			Equity	546	99,097	0.029%
JNLDOFA International Core Equity Fund	Savills PLC			Equity	3,406	54,081	0.016%
JNLDOFA International Core Equity Fund	Eldorado Gold Corporation			Equity	63,617	1,105,871	0.318%
JNLDOFA International Core Equity Fund	ALSO Holding AG			Equity	450	144,237	0.041%
JNLDOFA International Core Equity Fund	3iC PLC			Equity	3,689	68,904	0.020%
JNLDOFA International Core Equity Fund	Dietzen Group			Equity	238	50,417	0.015%
JNLDOFA International Core Equity Fund	NV Bekaert SA			Equity	912	37,497	0.011%
JNLDOFA International Core Equity Fund	Super Retail Group Limited			Equity	3,390	42,751	0.012%
JNLDOFA International Core Equity Fund	MEO Energy Corp.			Equity	10,030	79,549	0.024%
JNLDOFA International Core Equity Fund	Evolution AB (publ)			Equity	1,579	155,147	0.045%
JNLDOFA International Core Equity Fund	Prosus N.V.			Equity	10,555	462,873	0.133%
JNLDOFA International Core Equity Fund	Pan American Silver Corp.			Equity	4,850	101,271	0.029%
JNLDOFA International Core Equity Fund	Budweiser Brewing Company APAC Limited			Equity	83,100	110,231	0.031%
JNLDOFA International Core Equity Fund	TMX Group Limited			Equity	2,600	81,492	0.023%
JNLDOFA International Core Equity Fund	Harel Insurance Investments & Financial Services Ltd.			Equity	4,911	47,792	0.014%
JNLDOFA International Core Equity Fund	Honda Motor Co., Ltd.			Equity	732	23,226	0.007%
JNLDOFA International Core Equity Fund	Hera S.p.A.			Equity	83,923	334,471	0.096%
JNLDOFA International Core Equity Fund	Freightways Group Limited			Equity	7,990	47,327	0.014%
JNLDOFA International Core Equity Fund	Drax Group PLC			Equity	6,608	57,811	0.017%
JNLDOFA International Core Equity Fund	ESR Group Limited			Equity	77,200	122,495	0.035%
JNLDOFA International Core Equity Fund	Xero Limited			Equity	1,724	178,739	0.051%
JNLDOFA International Core Equity Fund	Fuji Corporation Co., Ltd.			Equity	37,100	601,954	0.173%
JNLDOFA International Core Equity Fund	Viscovan, S.A.			Equity	4,357	309,158	0.089%
JNLDOFA International Core Equity Fund	Oil Refineries Ltd			Equity	278,956	72,012	0.021%
JNLDOFA International Core Equity Fund	La Francaise Des Jaux			Equity	9,964	245,067	0.071%
JNLDOFA International Core Equity Fund	BKW Energie AG			Equity	512	92,800	0.027%
JNLDOFA International Core Equity Fund	Infratil Limited			Equity	8,531	66,411	0.019%
JNLDOFA International Core Equity Fund	Aktiefondaget Volvo			Equity	3,946	105,315	0.030%
JNLDOFA International Core Equity Fund	EDP Renovaveis, S.A.			Equity	6,185	108,037	0.031%
JNLDOFA International Core Equity Fund	Rochow AG			Equity	50	23,246	0.007%
JNLDOFA International Core Equity Fund	Gav-Yam Land Corporation Ltd.			Equity	3,524	29,254	0.008%
JNLDOFA International Core Equity Fund	NEXTDC Limited			Equity	24,961	303,543	0.087%
JNLDOFA International Core Equity Fund	Vitec Software Group AB (publ)			Equity	1,630	84,509	0.024%
JNLDOFA International Core Equity Fund	Tellevent Oy			Equity	3,703	79,549	0.023%
JNLDOFA International Core Equity Fund	United Laboratories International Holdings Ltd			Equity	50,000	65,661	0.019%
JNLDOFA International Core Equity Fund	Scandic Hotels Group AB			Equity	5,406	37,518	0.011%
JNLDOFA International Core Equity Fund	Sieghred Holding AG			Equity	319	429,419	0.124%
JNLDOFA International Core Equity Fund	Bonheur ASA			Equity	593	10,011	0.004%
JNLDOFA International Core Equity Fund	Premium Brands Holdings Corporation			Equity	3,904	278,905	0.080%
JNLDOFA International Core Equity Fund	First Resources Limited			Equity	21,300	24,364	0.007%
JNLDOFA International Core Equity Fund	Electra Ltd			Equity	98	39,469	0.011%
JNLDOFA International Core Equity Fund	BRP Inc.			Equity	1,300	77,548	0.022%
JNLDOFA International Core Equity Fund	Entra ASA			Equity	1,035	13,466	0.004%
JNLDOFA International Core Equity Fund	CIE Automotive Sociedad Anonima			Equity	3,381	97,214	0.028%
JNLDOFA International Core Equity Fund	Capital Power Corporation			Equity	8,200	302,074	0.087%
JNLDOFA International Core Equity Fund	Alony Hatz Properties & Investments Ltd			Equity	1,842	14,123	0.004%
JNLDOFA International Core Equity Fund	Veidekke ASA			Equity	14,351	167,763	0.048%
JNLDOFA International Core Equity Fund	Shufersal Ltd.			Equity	4,198	37,314	0.011%
JNLDOFA International Core Equity Fund	Iscard Ltd			Equity	31,473	115,976	0.033%
JNLDOFA International Core Equity Fund	CFL Environmental Inc.			Equity	2,314	82,307	0.024%
JNLDOFA International Core Equity Fund	Keppel Infrastructure Trust			Equity	121,945	44,222	0.013%
JNLDOFA International Core Equity Fund	Electrolux Professional AB (publ)			Equity	37,397	246,343	0.071%
JNLDOFA International Core Equity Fund	BHP Group Limited			Equity	8,285	526,843	0.152%
JNLDOFA International Core Equity Fund	Lloyds Banking Group PLC			Equity	16,514	53,524	0.015%
JNLDOFA International Core Equity Fund	Horizon Parent Holdings S.r.l.			Equity	7,387	216,045	0.062%
JNLDOFA International Core Equity Fund	Finecobank Banca Fineco S.p.A.			Equity	11,611	199,344	0.057%
JNLDOFA International Core Equity Fund	CA Immobilien Anlagen Aktiengesellschaft			Equity	2,617	78,162	0.022%
JNLDOFA International Core Equity Fund	Starline Inc.			Equity	2,184	175,970	0.051%
JNLDOFA International Core Equity Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	37,000	37,000	0.011%
JNLDOFA International Core Equity Fund	Technology One Limited			Equity	25,770	426,691	0.123%
JNLDOFA International Core Equity Fund	Sheng Shong Group Ltd.			Equity	42,000	50,042	0.014%
JNLDOFA International Core Equity Fund	Hellmuth SE			Equity	6,645	68,160	0.020%
JNLDOFA International Core Equity Fund	Equibit Ltd.			Equity	2,073	68,923	0.020%
JNLDOFA International Core Equity Fund	Kongsberg Gruppen ASA			Equity	514	50,377	0.014%
JNLDOFA International Core Equity Fund	Teva Pharmaceutical Industries Ltd			Equity	3,992	71,795	0.021%
JNLDOFA International Core Equity Fund	Essity Aktiefond (publ)			Equity	453	14,162	0.004%
JNLDOFA International Core Equity Fund	argem SE			Equity	144	77,787	0.022%
JNLDOFA International Core Equity Fund	BAWAG Group AG			Equity	3,309	256,747	0.074%
JNLDOFA International Core Equity Fund	Telefonaktiebolaget LM Ericsson			Equity	883	6,680	0.002%
JNLDOFA International Core Equity Fund	Svenska Cellulosa Aktiefondaget SCA			Equity	1,070	15,549	0.004%
JNLDOFA International Core Equity Fund	Reliance Worldwide Corporation Limited			Equity	70,809	314,309	0.090%
JNLDOFA International Core Equity Fund	Smith & Nephew PLC			Equity	5,488	170,896	0.049%
JNLDOFA International Core Equity Fund	Kaga Electronics Co., Ltd.			Equity	9,400	187,307	0.054%
JNLDOFA International Core Equity Fund	Swissquote Group Holding SA			Equity	1,167	421,442	0.121%
JNLDOFA International Core Equity Fund	Amper Limited			Equity	14,207	402,665	0.087%
JNLDOFA International Core Equity Fund	Mura Co., Ltd.			Equity	8,200	202,341	0.058%
JNLDOFA International Core Equity Fund	Partner Communications Ltd			Equity	2,499	10,775	0.003%
JNLDOFA International Core Equity Fund	Loomis AB			Equity	8,512	280,018	0.081%
JNLDOFA International Core Equity Fund	Scatec ASA			Equity	12,368	87,407	0.026%
JNLDOFA International Core Equity Fund	Itikhu Capital			Equity	4,936	132,834	0.038%
JNLDOFA International Core Equity Fund	Banco Bilbao Vizcaya Argentaria, S.A.			Equity	14,142	153,299	0.044%
JNLDOFA International Core Equity Fund	AB Saipax			Equity	2,703	76,999	0.022%
JNLDOFA International Core Equity Fund	Mycronic AB (publ)			Equity	3,887	151,249	0.044%
JNLDOFA International Core Equity Fund	Yoshino Holdings Co., Ltd.			Equity	34,800	763,898	0.220%
JNLDOFA International Core Equity Fund	New World Development Company Limited			Equity	394,750	484,567	0.139%
JNLDOFA International Core Equity Fund	Barclays PLC			Equity	5,602	68,064	0.020%
JNLDOFA International Core Equity Fund	Descartes Systems Group Inc., The			Equity	1,200	123,483	0.036%
JNLDOFA International Core Equity Fund	Aurubis AG			Equity	3,308	242,865	0.070%
JNLDOFA International Core Equity Fund	Peab AB			Equity	24,415	195,925	0.056%
JNLDOFA International Core Equity Fund	Nemetschek SE			Equity	1,883	195,777	0.056%
JNLDOFA International Core Equity Fund	Beach Energy Limited			Equity	386,514	327,763	0.094%
JNLDOFA International Core Equity Fund	IGO Limited			Equity	1,871	31,901	0.009%
JNLDOFA International Core Equity Fund	Downer EDI Limited			Equity	24,153	93,499	0.027%
JNLDOFA International Core Equity Fund	PSP Swiss Property AG			Equity	2,226	326,205	0.094%
JNLDOFA International Core Equity Fund	Pigeon Corporation			Equity	45,400	532,361	0.153%
JNLDOFA International Core Equity Fund	MonstarO Co., Ltd			Equity	6,700	111,648	0.032%
JNLDOFA International Core Equity Fund	Elekta AB (publ)			Equity	15,958	113,902	0.033%
JNLDOFA International Core Equity Fund	SalMar ASA			Equity	263	13,805	0.004%
JNLDOFA International Core Equity Fund	Nihon M&A Center Holdings Inc.			Equity	17,200	80,904	0.023%
JNLDOFA International Core Equity Fund	Paz Oil Company Limited			Equity	1,128	17,347	0.005%
JNLDOFA International Core Equity Fund	Industrie Aktiefond			Equity	5,678	176,757	0.051%
JNLDOFA International Core Equity Fund	ALS Limited			Equity	16,401	163,764	0.047%
JNLDOFA International Core Equity Fund	Nine Entertainment Co. Holdings Limited			Equity	369,229	332,491	0.096%
JNLDOFA International Core Equity Fund	Alex Solutions ASA			Equity	12,798	49,156	0.014%
JNLDOFA International Core Equity Fund	Medcover AB			Equity	7,714	144,719	0.042%
JNLDOFA International Core Equity Fund	Spirax Group PLC			Equity	2,646	266,825	0.077%
JNLDOFA International Core Equity Fund	ASR Nederland N.V.			Equity	3,140	154,154	0.044%
JNLDOFA International Core Equity Fund	Cosmo Energy Holdings Co., Ltd.			Equity	3,400	190,096	0.055%
JNLDOFA International Core Equity Fund	Bilia AB			Equity	5,478	64,961	0.019%
JNLDOFA International Core Equity Fund	Just Eat Takeaway Com N.V.			Equity	16,362	244,299	0.070%
JNLDOFA International Core Equity Fund	Vitolife AB			Equity	8,498	213,782	0.062%
JNLDOFA International Core Equity Fund	Orora Limited			Equity	406,812	784,486	0.226%
JNLDOFA International Core Equity Fund	Netwealth Group Limited			Equity	19,659	339,452	0.097%
JNLDOFA International Core Equity Fund	VAT Group AG			Equity	552	281,510	0.081%
JNLDOFA International Core Equity Fund	Halma Public Limited Company			Equity	2,712	94,822	0.027%
JNLDOFA International Core Equity Fund	Storebrand ASA			Equity	15,101	166,131	0.048%
JNLDOFA International Core Equity Fund	Sumitomo Forestry Co., Ltd.			Equity	4,500	271,726	0.078%
JNLDOFA International Core Equity Fund	EXEO Group, Inc.			Equity	27,800	308,199	0.089%
JNLDOFA International Core Equity Fund	Net One Systems Co., Ltd.			Equity	47,100	1,189,865	0.342%
JNLDOFA International Core Equity Fund	ULVAC, Inc.			Equity	2,200	117,002	0.034%
JNLDOFA International Core Equity Fund	Hensoldt AG			Equity	372	12,239	0.004%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/DFA International Core Equity Fund	Siemens Energy AG			Equity	14,116	520,491	0.150%
JNL/DFA International Core Equity Fund	Logista Integral SA			Equity	3,663	110,556	0.032%
JNL/DFA International Core Equity Fund	Lagercrantz Group Aktiebolag			Equity	31	585	0.000%
JNL/DFA International Core Equity Fund	Adisse AB			Equity	17,478	279,193	0.080%
JNL/DFA International Core Equity Fund	KC48 Group AB (publ)			Equity	6,478	431,781	0.124%
JNL/DFA International Core Equity Fund	SGS SA			Equity	233	26,016	0.007%
JNL/DFA International Core Equity Fund	Canadian Pacific Kansas City Limited			Equity	2,000	171,334	0.049%
JNL/DFA International Core Equity Fund	Melrose Industries PLC			Equity	70,626	431,781	0.124%
JNL/DFA International Core Equity Fund	DSM-Firmenich AG			Equity	650	89,751	0.026%
JNL/DFA International Core Equity Fund	Fatfat Holdings (1998) Ltd.			Equity	354	40,481	0.012%
JNL/DFA International Core Equity Fund	Bolden AB			Equity	9,649	326,728	0.094%
JNL/DFA International Core Equity Fund	Fervolux SE			Equity	1,015	43,549	0.013%
JNL/DFA International Core Equity Fund	Thomson Reuters Corporation			Equity	689	117,556	0.034%
JNL/DFA International Core Equity Fund	Webuiid S.p.A.	8/30/2030		Equity	252	452	0.000%
JNL/DFA International Core Equity Fund	Socionext Inc.			Equity	8,100	162,714	0.047%
JNL/DFA International Core Equity Fund	Constellation Software Inc.	8/22/2028		Equity	200	0	0.000%
JNL/DFA International Core Equity Fund	Paz Ashdod Refinery Ltd			Equity	808	123,448	0.033%
JNL/DFA International Core Equity Fund	Novo Nordisk A/S			Equity	26,513	3,141,810	0.904%
JNL/DFA International Core Equity Fund	Fortnox Aktiebolag			Equity	33,327	207,034	0.060%
JNL/DFA International Core Equity Fund	EuroTelSites AG			Equity	1,642	8,712	0.003%
JNL/DFA International Core Equity Fund	Blue Square Real Estate Ltd			Equity	208	16,261	0.005%
JNL/DFA International Core Equity Fund	Sampo Oyj			Equity	15,313	714,203	0.205%
JNL/DFA International Core Equity Fund	Mandatum Holding Oy			Equity	1,505	7,460	0.002%
JNL/DFA International Core Equity Fund	Aegion Ltd.			Equity	5,444	34,787	0.010%
JNL/DFA International Core Equity Fund	Sandoz Group AG			Equity	988	41,227	0.012%
JNL/DFA International Core Equity Fund	Sandoz Group AG			Equity	157	6,532	0.002%
JNL/DFA International Core Equity Fund	Tenaris S.A.			Equity	6,676	105,864	0.030%
JNL/DFA International Core Equity Fund	OBIC Business Consultants Co., Ltd.			Equity	500	26,068	0.008%
JNL/DFA International Core Equity Fund	Morris PLC			Equity	4,475	85,222	0.025%
JNL/DFA International Core Equity Fund	Qiagen N.V.			Equity	1,899	85,902	0.025%
JNL/DFA International Core Equity Fund	Qiagen N.V.			Equity	2,013	91,721	0.026%
JNL/DFA International Core Equity Fund	Boyd Group Services Inc.			Equity	2,032	308,169	0.089%
JNL/DFA International Core Equity Fund	Hogshi Autboms ASA			Equity	6,831	75,429	0.022%
JNL/DFA International Core Equity Fund	Volvo Cars AB			Equity	15,304	42,107	0.012%
JNL/DFA International Core Equity Fund	Switzer Group A/S			Equity	180	7,534	0.002%
JNL/DFA International Core Equity Fund	Seatrump Limited			Equity	279,951	389,169	0.112%
JNL/DFA International Core Equity Fund	Vieren Inc.			Equity	117,134	131,411	0.038%
JNL/DFA International Core Equity Fund	Avance Gas As			Equity	2,873	28,783	0.008%
JNL/DFA International Core Equity Fund	Bw Lpg Limited			Equity	14,505	207,005	0.060%
JNL/DFA International Core Equity Fund	Betsson AB			Equity	19,972	245,244	0.071%
JNL/DFA International Core Equity Fund	Next Vision Stabilized Systems Ltd			Equity	1,193	20,526	0.006%
JNL/DFA International Core Equity Fund	Webster Group Limited			Equity	15,386	10,857	0.003%
Total Non Derivatives						347,567,656	
Derivatives						0	
Total Derivatives						0	
Total All Investments						347,567,656	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDOFA U.S. Core Equity Fund	Cash			Cash Equivalent	433.854	433.854	0.030%
JNLDOFA U.S. Core Equity Fund	Array Tech, Inc.			Equity	3.100	20.460	0.001%
JNLDOFA U.S. Core Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	920.595	931.024	0.064%
JNLDOFA U.S. Core Equity Fund	Phx Minerals Inc.			Equity	1.538	5.198	0.000%
JNLDOFA U.S. Core Equity Fund	California Resources Corporation			Equity	4.987	240.690	0.017%
JNLDOFA U.S. Core Equity Fund	Forum Energy Technologies, Inc.			Equity	5.444	5.410	0.001%
JNLDOFA U.S. Core Equity Fund	Viatris Inc.			Equity	44.216	513.348	0.035%
JNLDOFA U.S. Core Equity Fund	FuelCell Energy, Inc.			Equity	12.611	4.792	0.000%
JNLDOFA U.S. Core Equity Fund	Telus Corporation			Equity	5.330	19.135	0.001%
JNLDOFA U.S. Core Equity Fund	Checo Corporation			Equity	463	18.146	0.001%
JNLDOFA U.S. Core Equity Fund	Sotera Health LLC			Equity	12.672	211.622	0.015%
JNLDOFA U.S. Core Equity Fund	Marava LifeSciences Holdings, Inc.			Equity	4.911	40.810	0.003%
JNLDOFA U.S. Core Equity Fund	Chord Energy Corporation			Equity	3.030	394.623	0.027%
JNLDOFA U.S. Core Equity Fund	Inari Medical, Inc.			Equity	1.813	20.768	0.001%
JNLDOFA U.S. Core Equity Fund	Celsus Holdings, Inc.			Equity	4.335	135.946	0.009%
JNLDOFA U.S. Core Equity Fund	CarParts.com, Inc.			Equity	1.717	1.556	0.000%
JNLDOFA U.S. Core Equity Fund	Kymira Therapeutics, Inc.			Equity	916	43.354	0.003%
JNLDOFA U.S. Core Equity Fund	Baldwin Insurance Group, Inc. , The			Equity	1.179	58.714	0.004%
JNLDOFA U.S. Core Equity Fund	Vertex, Inc.			Equity	1.941	74.748	0.005%
JNLDOFA U.S. Core Equity Fund	Montrose Environmental Group, Inc.			Equity	1.529	40.213	0.003%
JNLDOFA U.S. Core Equity Fund	Vital Farms, Inc.			Equity	2.540	89.078	0.006%
JNLDOFA U.S. Core Equity Fund	Silme Corporation			Equity	843	144.583	0.010%
JNLDOFA U.S. Core Equity Fund	Zentaris Pharmaceuticals, Inc.			Equity	3.338	12.284	0.001%
JNLDOFA U.S. Core Equity Fund	Relay Therapeutics, Inc.			Equity	2.192	15.519	0.001%
JNLDOFA U.S. Core Equity Fund	PROG Holdings, Inc.			Equity	5.747	278.672	0.019%
JNLDOFA U.S. Core Equity Fund	Open Lending Corporation			Equity	3.000	19.260	0.001%
JNLDOFA U.S. Core Equity Fund	Accolade, Inc.			Equity	8.350	32.148	0.002%
JNLDOFA U.S. Core Equity Fund	Nurix Therapeutics, Inc.			Equity	1.340	30.110	0.002%
JNLDOFA U.S. Core Equity Fund	UTZ Brands, Inc.			Equity	2.348	41.724	0.003%
JNLDOFA U.S. Core Equity Fund	Horizon Optien LLC			Equity	1.541	3.097	0.000%
JNLDOFA U.S. Core Equity Fund	Seer, Inc.			Equity	7.945	15.625	0.001%
JNLDOFA U.S. Core Equity Fund	PPHM, Inc.			Equity	2.571	29.258	0.002%
JNLDOFA U.S. Core Equity Fund	Organogenesis Holdings Inc.			Equity	8.257	23.615	0.002%
JNLDOFA U.S. Core Equity Fund	Sapiens International Corporation N.V.			Equity	814	30.338	0.002%
JNLDOFA U.S. Core Equity Fund	DoorDash, Inc.			Equity	4.917	726.493	0.050%
JNLDOFA U.S. Core Equity Fund	PubMatic, Inc.			Equity	2.928	43.539	0.003%
JNLDOFA U.S. Core Equity Fund	Airturb, Inc.			Equity	4.670	592.203	0.041%
JNLDOFA U.S. Core Equity Fund	Centara, Inc.			Equity	10.675	125.004	0.009%
JNLDOFA U.S. Core Equity Fund	Sutro Biopharma, Inc.			Equity	6.021	6.016	0.000%
JNLDOFA U.S. Core Equity Fund	Stride, Inc.			Equity	4.565	389.440	0.027%
JNLDOFA U.S. Core Equity Fund	Fortitude Gold Corporation			Equity	1.255	6.412	0.000%
JNLDOFA U.S. Core Equity Fund	Unity Software Inc.			Equity	6.867	155.332	0.011%
JNLDOFA U.S. Core Equity Fund	ARKO Corp.			Equity	2.863	20.800	0.001%
JNLDOFA U.S. Core Equity Fund	NOV Inc.			Equity	26.551	424.019	0.029%
JNLDOFA U.S. Core Equity Fund	BM Technologies, Inc.			Equity	508	1.727	0.000%
JNLDOFA U.S. Core Equity Fund	Quantumscape Battery, Inc.			Equity	3.000	17.250	0.001%
JNLDOFA U.S. Core Equity Fund	AdaptHealth LLC			Equity	11.451	138.595	0.009%
JNLDOFA U.S. Core Equity Fund	ModuCare Inc.			Equity	1.568	22.391	0.002%
JNLDOFA U.S. Core Equity Fund	Comstock Resources, Inc.			Equity	26.952	299.976	0.021%
JNLDOFA U.S. Core Equity Fund	Information Services Group, Inc.			Equity	3.802	12.718	0.001%
JNLDOFA U.S. Core Equity Fund	Texas Pacific Land Corporation			Equity	825	729.911	0.050%
JNLDOFA U.S. Core Equity Fund	Cambium Networks Corp.			Equity	610	1.116	0.000%
JNLDOFA U.S. Core Equity Fund	Liberty Energy Inc.			Equity	16.565	316.226	0.022%
JNLDOFA U.S. Core Equity Fund	Alto Ingredients, Inc.			Equity	9.737	15.677	0.001%
JNLDOFA U.S. Core Equity Fund	Affirm Holdings, Inc.			Equity	6.677	354.195	0.024%
JNLDOFA U.S. Core Equity Fund	Open Doors Technology Inc.			Equity	52.132	104.284	0.007%
JNLDOFA U.S. Core Equity Fund	Driven Brands Holdings Inc.			Equity	2.388	34.077	0.002%
JNLDOFA U.S. Core Equity Fund	HBT Financial, Inc.			Equity	661	14.463	0.001%
JNLDOFA U.S. Core Equity Fund	Shoals Technologies Group, Inc.			Equity	2.300	12.903	0.001%
JNLDOFA U.S. Core Equity Fund	Dime Community Bancshares, Inc.			Equity	4.392	72.493	0.005%
JNLDOFA U.S. Core Equity Fund	Parke Bancorp, Inc.			Equity	694	14.505	0.001%
JNLDOFA U.S. Core Equity Fund	Alpha Metallurgical Resources, Inc.			Equity	1.268	299.476	0.021%
JNLDOFA U.S. Core Equity Fund	EZopen Parent Holdings, Inc.			Equity	20.331	89.660	0.006%
JNLDOFA U.S. Core Equity Fund	Chesapeake Energy Corporation			Equity	11.518	9.954	0.000%
JNLDOFA U.S. Core Equity Fund	Bumble Inc.			Equity	1.835	11.707	0.001%
JNLDOFA U.S. Core Equity Fund	Uranium Energy Corp.			Equity	11.707	72.700	0.005%
JNLDOFA U.S. Core Equity Fund	Travel + Leisure Co.			Equity	4.145	191.002	0.013%
JNLDOFA U.S. Core Equity Fund	Allegro Microsystems Inc.			Equity	6.225	145.266	0.010%
JNLDOFA U.S. Core Equity Fund	CarGenus, Inc.			Equity	3.056	91.772	0.006%
JNLDOFA U.S. Core Equity Fund	Monocle Acquisition Corporation			Equity	2.351	11.873	0.001%
JNLDOFA U.S. Core Equity Fund	Rimini Street, Inc.			Equity	3.177	5.877	0.000%
JNLDOFA U.S. Core Equity Fund	Amalgamated Financial Corp.			Equity	2.200	69.074	0.005%
JNLDOFA U.S. Core Equity Fund	SinusPoint Ltd.			Equity	11.515	165.125	0.011%
JNLDOFA U.S. Core Equity Fund	Centrus Energy Corp.			Equity	1.101	60.390	0.004%
JNLDOFA U.S. Core Equity Fund	Apa Corp.			Equity	16.275	398.087	0.027%
JNLDOFA U.S. Core Equity Fund	ADMA Biologics, Inc.			Equity	7.279	145.507	0.010%
JNLDOFA U.S. Core Equity Fund	Concrete Pumping Holdings, Inc.			Equity	1.232	7.133	0.000%
JNLDOFA U.S. Core Equity Fund	Coastal Financial Corporation			Equity	252	13.605	0.001%
JNLDOFA U.S. Core Equity Fund	Fulcrum Therapeutics, Inc.			Equity	2.262	8.075	0.001%
JNLDOFA U.S. Core Equity Fund	Lesire's, Inc.			Equity	2.704	8.545	0.001%
JNLDOFA U.S. Core Equity Fund	OptimizeRX Corporation			Equity	2.500	19.300	0.001%
JNLDOFA U.S. Core Equity Fund	Mayville Engineering Company, Inc.			Equity	935	19.710	0.001%
JNLDOFA U.S. Core Equity Fund	Roblox Corporation			Equity	3.070	135.878	0.009%
JNLDOFA U.S. Core Equity Fund	Norwood Financial Corp.			Equity	317	8.743	0.001%
JNLDOFA U.S. Core Equity Fund	Cruising, Inc.			Equity	12.405	334.543	0.021%
JNLDOFA U.S. Core Equity Fund	New Fortress Energy Inc.			Equity	7.160	65.084	0.004%
JNLDOFA U.S. Core Equity Fund	Olo Inc.			Equity	12.636	62.675	0.004%
JNLDOFA U.S. Core Equity Fund	Reynolds Group Holdings Limited			Equity	2.458	28.292	0.002%
JNLDOFA U.S. Core Equity Fund	Academy Sports & Outdoors, Inc.			Equity	6.061	354.387	0.024%
JNLDOFA U.S. Core Equity Fund	Unity Bancorp, Inc.			Equity	383	13.045	0.001%
JNLDOFA U.S. Core Equity Fund	MP Materials Corp.			Equity	5.875	103.694	0.007%
JNLDOFA U.S. Core Equity Fund	DigitalOcean Holdings, Inc.			Equity	3.094	124.967	0.009%
JNLDOFA U.S. Core Equity Fund	ACV Auctions Inc.			Equity	9.455	9.523	0.000%
JNLDOFA U.S. Core Equity Fund	Vizio Holding Corp.			Equity	6.709	74.940	0.005%
JNLDOFA U.S. Core Equity Fund	Prims Financial Corp.			Equity	3.092	37.661	0.003%
JNLDOFA U.S. Core Equity Fund	First Western Financial, Inc.			Equity	516	10.320	0.001%
JNLDOFA U.S. Core Equity Fund	Kinwalk Holdings Inc.			Equity	1.874	84.217	0.006%
JNLDOFA U.S. Core Equity Fund	South Plains Financial, Inc.			Equity	780	26.458	0.002%
JNLDOFA U.S. Core Equity Fund	Red River Bancshares, Inc.			Equity	186	9.672	0.001%
JNLDOFA U.S. Core Equity Fund	ON24, Inc.			Equity	6.295	38.525	0.003%
JNLDOFA U.S. Core Equity Fund	Corbuse Global			Equity	3.199	569.661	0.039%
JNLDOFA U.S. Core Equity Fund	Alkami Technology, Inc.			Equity	1.255	39.583	0.003%
JNLDOFA U.S. Core Equity Fund	Aqilion Health Management, Inc.			Equity	7.936	31.188	0.002%
JNLDOFA U.S. Core Equity Fund	Oscar Health, Inc.			Equity	8.379	177.719	0.012%
JNLDOFA U.S. Core Equity Fund	Avast Networks, Inc.			Equity	1.116	24.139	0.002%
JNLDOFA U.S. Core Equity Fund	Capital Bancorp, Inc.			Equity	426	11.004	0.001%
JNLDOFA U.S. Core Equity Fund	Marvell Technology, Inc.			Equity	14.335	1,033.851	0.071%
JNLDOFA U.S. Core Equity Fund	Upiath, Inc.			Equity	13.798	176.614	0.012%
JNLDOFA U.S. Core Equity Fund	JAMF Holding Corp.			Equity	2.200	38.170	0.003%
JNLDOFA U.S. Core Equity Fund	Conair Gaming, Inc.			Equity	8.766	61.011	0.004%
JNLDOFA U.S. Core Equity Fund	Eastern Bankshares, Inc.			Equity	3.372	55.267	0.004%
JNLDOFA U.S. Core Equity Fund	Warner Music Group Corp.			Equity	4.677	146.390	0.010%
JNLDOFA U.S. Core Equity Fund	Coursera, Inc.			Equity	3.872	30.744	0.002%
JNLDOFA U.S. Core Equity Fund	Frontier Communications Parent, Inc.			Equity	11.123	395.200	0.027%
JNLDOFA U.S. Core Equity Fund	Carter Bankshares, Inc.			Equity	2.438	42.397	0.003%
JNLDOFA U.S. Core Equity Fund	Valanis Limited			Equity	1.781	99.291	0.007%
JNLDOFA U.S. Core Equity Fund	Seagate Technology Holdings Public Limited Company			Equity	5.578	614.863	0.042%
JNLDOFA U.S. Core Equity Fund	Gulfport Energy Operating Corporation			Equity	899	136.064	0.009%
JNLDOFA U.S. Core Equity Fund	Procore Technologies, Inc.			Equity	1.892	116.774	0.008%
JNLDOFA U.S. Core Equity Fund	Trustco Bank Corp N Y			Equity	2.251	75.251	0.005%
JNLDOFA U.S. Core Equity Fund	Mid Penn Bancorp, Inc.			Equity	571	17.033	0.001%
JNLDOFA U.S. Core Equity Fund	Organo & Co.			Equity	16.273	311.302	0.021%
JNLDOFA U.S. Core Equity Fund	SoFi Technologies, Inc.			Equity	14.279	112.233	0.008%
JNLDOFA U.S. Core Equity Fund	McCormick & Company, Incorporated			Equity	610	50.349	0.003%
JNLDOFA U.S. Core Equity Fund	Marqeta, Inc.			Equity	6.589	32.418	0.002%
JNLDOFA U.S. Core Equity Fund	Duckhorn Portfolio Inc. , The			Equity	3.174	18.1441	0.001%
JNLDOFA U.S. Core Equity Fund	Nuvation Bio Operating Company LLC			Equity	6.941	15.895	0.001%
JNLDOFA U.S. Core Equity Fund	Hayward Holdings, Inc.			Equity	3.150	48.321	0.003%
JNLDOFA U.S. Core Equity Fund	JFRGG Ltd			Equity	3.781	109.800	0.008%
JNLDOFA U.S. Core Equity Fund	Adventure Solutions, Inc.			Equity	11.066	37.956	0.003%
JNLDOFA U.S. Core Equity Fund	Global Industrial Company			Equity	3.188	108.636	0.007%
JNLDOFA U.S. Core Equity Fund	Hims & Hers Health, Inc.			Equity	2.756	50.766	0.003%
JNLDOFA U.S. Core Equity Fund	ApplLovin Corporation			Equity	8.941	1,167.248	0.080%
JNLDOFA U.S. Core Equity Fund	Doximity, Inc.			Equity	2.622	114.241	0.008%
JNLDOFA U.S. Core Equity Fund	Pangaea Logistics Solutions Ltd.			Equity	3.386	24.481	0.002%
JNLDOFA U.S. Core Equity Fund	Clear Secure, Inc.			Equity	2.069	68.567	0.005%
JNLDOFA U.S. Core Equity Fund	SentinelOne, Inc.			Equity	4.732	113.189	0.008%
JNLDOFA U.S. Core Equity Fund	DT Midstream, Inc.			Equity	6.753	536.154	0.037%
JNLDOFA U.S. Core Equity Fund	Alight, Inc.			Equity	12.157	89.962	0.006%
JNLDOFA U.S. Core Equity Fund	Hillman Solutions Corp.			Equity	11.133	117.564	0.008%
JNLDOFA U.S. Core Equity Fund	N-Able, Inc.			Equity	5.666	73.998	0.005%
JNLDOFA U.S. Core Equity Fund	Duoling, Inc.			Equity	677	190.929	0.013%
JNLDOFA U.S. Core Equity Fund	General Electric Company			Equity	16.617	5,138.287	0.216%
JNLDOFA U.S. Core Equity Fund	SolarWinds Corporation			Equity	4.584	59.821	0.004%
JNLDOFA U.S. Core Equity Fund	GXO Logistics Inc.			Equity	8.432	439.054	0.030%
JNLDOFA U.S. Core Equity Fund	Dream Finders Homes, Inc.			Equity	2.445	88.533	0.006%
JNLDOFA U.S. Core Equity Fund	CCC Intelligent Solutions Holdings Inc.			Equity	8.569	94.908	0.007%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDDFA U.S. Core Equity Fund	Ecovyst Inc.			Equity	4,079	27,943	0.002%
JNLDDFA U.S. Core Equity Fund	Bath & Body Works, Inc.			Equity	11,717	374,007	0.006%
JNLDDFA U.S. Core Equity Fund	Victoria's Secret & Co.			Equity	4,913	126,264	0.009%
JNLDDFA U.S. Core Equity Fund	Adaptek Metal Packaging S.A.			Equity	6,963	26,251	0.002%
JNLDDFA U.S. Core Equity Fund	Baycom Corp			Equity	912	21,724	0.001%
JNLDDFA U.S. Core Equity Fund	Plyware Corporation			Equity	398	6,523	0.000%
JNLDDFA U.S. Core Equity Fund	Cintraque, Inc.			Equity	2,469	18,271	0.001%
JNLDDFA U.S. Core Equity Fund	Hovnanian Enterprises, Inc.			Equity	528	107,907	0.007%
JNLDDFA U.S. Core Equity Fund	Lucid Group, Inc.			Equity	12,551	44,305	0.003%
JNLDDFA U.S. Core Equity Fund	Thrivy Holdings, Inc.			Equity	2,564	44,178	0.003%
JNLDDFA U.S. Core Equity Fund	Freshworks, Inc.			Equity	5,662	65,000	0.004%
JNLDDFA U.S. Core Equity Fund	Toast, Inc.			Equity	8,378	237,181	0.016%
JNLDDFA U.S. Core Equity Fund	Sterling Check Corp.			Equity	1,107	18,509	0.001%
JNLDDFA U.S. Core Equity Fund	The One Group Hospitality, Inc.			Equity	1,505	5,538	0.000%
JNLDDFA U.S. Core Equity Fund	Arco Financial, Inc.			Equity	5,108	301,191	0.022%
JNLDDFA U.S. Core Equity Fund	Warby Parker Inc.			Equity	2,311	37,739	0.003%
JNLDDFA U.S. Core Equity Fund	Sylvamo Corporation			Equity	2,618	224,763	0.015%
JNLDDFA U.S. Core Equity Fund	First Watch Restaurant Group, Inc.			Equity	3,130	48,828	0.003%
JNLDDFA U.S. Core Equity Fund	VolvoSpeed, Inc.			Equity	2,728	26,462	0.002%
JNLDDFA U.S. Core Equity Fund	Zum ElKay Water Solutions Corporation			Equity	2,765	99,374	0.007%
JNLDDFA U.S. Core Equity Fund	Metrocly Bankshares, Inc.			Equity	880	26,946	0.002%
JNLDDFA U.S. Core Equity Fund	Life Time Group Holdings, Inc.			Equity	5,922	144,615	0.010%
JNLDDFA U.S. Core Equity Fund	Consensus Cloud Solutions, Inc.			Equity	1,435	33,794	0.002%
JNLDDFA U.S. Core Equity Fund	Avdxchange Holdings, Inc.			Equity	12,262	99,445	0.007%
JNLDDFA U.S. Core Equity Fund	Hammy Biosciences Holdings Inc.			Equity	1,733	69,320	0.005%
JNLDDFA U.S. Core Equity Fund	Via Coco Company, Inc., The			Equity	994	28,140	0.002%
JNLDDFA U.S. Core Equity Fund	Possida Therapeutics, Inc.			Equity	4,936	14,117	0.001%
JNLDDFA U.S. Core Equity Fund	Informatica Inc.			Equity	4,628	116,996	0.008%
JNLDDFA U.S. Core Equity Fund	Cleaway Energy, Inc.			Equity	3,606	102,663	0.007%
JNLDDFA U.S. Core Equity Fund	Cleaway Energy, Inc.			Equity	6,234	191,259	0.013%
JNLDDFA U.S. Core Equity Fund	Cadence Bank			Equity	15,494	487,357	0.034%
JNLDDFA U.S. Core Equity Fund	Globalandries Inc.			Equity	2,255	90,764	0.006%
JNLDDFA U.S. Core Equity Fund	Kyndryl Holdings, Inc.			Equity	16,331	375,286	0.026%
JNLDDFA U.S. Core Equity Fund	Hertz Global Holdings, Inc.			Equity	22,206	73,280	0.005%
JNLDDFA U.S. Core Equity Fund	Rivian Automotive, Inc.			Equity	16,444	184,502	0.013%
JNLDDFA U.S. Core Equity Fund	Sweetgreen, Inc.			Equity	3,386	13,087	0.001%
JNLDDFA U.S. Core Equity Fund	Provident Bancorp Inc.			Equity	1,165	12,570	0.001%
JNLDDFA U.S. Core Equity Fund	TeraWulf Inc.			Equity	12,115	56,698	0.004%
JNLDDFA U.S. Core Equity Fund	Samsara Inc.			Equity	4,683	225,346	0.016%
JNLDDFA U.S. Core Equity Fund	FirstCash, Inc.			Equity	3,501	401,915	0.029%
JNLDDFA U.S. Core Equity Fund	Powerschool Holdings, Inc.			Equity	6,232	142,152	0.010%
JNLDDFA U.S. Core Equity Fund	Payoneer Global Inc.			Equity	21,928	165,118	0.011%
JNLDDFA U.S. Core Equity Fund	DoubleVerify Holdings, Inc.			Equity	1,835	30,901	0.002%
JNLDDFA U.S. Core Equity Fund	Dutch Bros Inc.			Equity	1,009	17,518	0.001%
JNLDDFA U.S. Core Equity Fund	FIGS, Inc.			Equity	8,730	59,713	0.004%
JNLDDFA U.S. Core Equity Fund	Core & Main, Inc.			Equity	8,238	365,767	0.025%
JNLDDFA U.S. Core Equity Fund	Mister Car Wash, Inc.			Equity	14,079	91,654	0.006%
JNLDDFA U.S. Core Equity Fund	Paycor HCM, Inc.			Equity	2,176	30,917	0.002%
JNLDDFA U.S. Core Equity Fund	First Advantage Corporation			Equity	3,810	75,629	0.005%
JNLDDFA U.S. Core Equity Fund	Douglas Elliman Inc.			Equity	5,772	10,562	0.001%
JNLDDFA U.S. Core Equity Fund	Apollo Global Management, Inc.			Equity	7,120	899,359	0.061%
JNLDDFA U.S. Core Equity Fund	Cinco OpCo.			Equity	2,270	71,709	0.005%
JNLDDFA U.S. Core Equity Fund	Constellation Energy Group, Inc.			Equity	7,537	1,959,771	0.135%
JNLDDFA U.S. Core Equity Fund	C4 Therapeutics, Inc.			Equity	7,056	40,219	0.003%
JNLDDFA U.S. Core Equity Fund	Merion Technologies (US), Inc.			Equity	3,804	42,110	0.003%
JNLDDFA U.S. Core Equity Fund	Elanco Animal Health Incorporated			Equity	23,439	344,324	0.024%
JNLDDFA U.S. Core Equity Fund	Gannett Motion Inc.			Equity	2,967	24,270	0.002%
JNLDDFA U.S. Core Equity Fund	ZimVie Inc.			Equity	603	9,565	0.001%
JNLDDFA U.S. Core Equity Fund	Bellring Intermediate Holdings, Inc.			Equity	7,367	447,331	0.031%
JNLDDFA U.S. Core Equity Fund	HF Sinclair Corporation			Equity	16,830	750,113	0.052%
JNLDDFA U.S. Core Equity Fund	MeridianLink, Inc.			Equity	1,696	21,518	0.002%
JNLDDFA U.S. Core Equity Fund	Embesta Corp.			Equity	925	13,043	0.001%
JNLDDFA U.S. Core Equity Fund	Enovis Corporation			Equity	3,331	143,400	0.010%
JNLDDFA U.S. Core Equity Fund	ESAB Corporation			Equity	3,331	354,385	0.024%
JNLDDFA U.S. Core Equity Fund	Warner Bros. Discovery, Inc.			Equity	77,807	601,905	0.044%
JNLDDFA U.S. Core Equity Fund	Credo Technology Group Holding Ltd			Equity	1,842	56,734	0.004%
JNLDDFA U.S. Core Equity Fund	DK Crown Holdings Inc.			Equity	8,679	340,217	0.023%
JNLDDFA U.S. Core Equity Fund	Aspen Technology, Inc.			Equity	2,014	480,960	0.033%
JNLDDFA U.S. Core Equity Fund	Crane Nat. Co.			Equity	4,609	258,565	0.018%
JNLDDFA U.S. Core Equity Fund	PVCBankcorp, Inc.			Equity	1,588	20,723	0.001%
JNLDDFA U.S. Core Equity Fund	Quidelortho Corporation			Equity	738	33,653	0.002%
JNLDDFA U.S. Core Equity Fund	Symbolic Inc.			Equity	943	23,000	0.002%
JNLDDFA U.S. Core Equity Fund	Integral Ad Science Holding Corp.			Equity	3,897	42,127	0.003%
JNLDDFA U.S. Core Equity Fund	R1 RCM Hldco Inc.			Equity	7,313	103,625	0.007%
JNLDDFA U.S. Core Equity Fund	Enhabit Inc.			Equity	3,933	31,071	0.002%
JNLDDFA U.S. Core Equity Fund	Willis Lease Finance Corporation			Equity	235	34,970	0.002%
JNLDDFA U.S. Core Equity Fund	Velocity Financial Inc.			Equity	893	17,612	0.001%
JNLDDFA U.S. Core Equity Fund	Progenics Pharmaceuticals, Inc.	12/31/2049		Equity	325	160	0.000%
JNLDDFA U.S. Core Equity Fund	Frontdoor, Inc.			Equity	5,638	270,568	0.019%
JNLDDFA U.S. Core Equity Fund	SPX Technologies, Inc.			Equity	2,758	439,791	0.030%
JNLDDFA U.S. Core Equity Fund	Northwest Natural Holding Company			Equity	2,099	85,681	0.006%
JNLDDFA U.S. Core Equity Fund	Asserto Holdings, Inc.			Equity	497	8,597	0.000%
JNLDDFA U.S. Core Equity Fund	Jacobs Solutions Inc.			Equity	4,338	567,844	0.039%
JNLDDFA U.S. Core Equity Fund	Robinson Markets, Inc.			Equity	26,482	620,208	0.043%
JNLDDFA U.S. Core Equity Fund	Permian Resources Corporation			Equity	28,113	362,618	0.026%
JNLDDFA U.S. Core Equity Fund	Blue Foundry Bancorp.			Equity	1,522	15,691	0.001%
JNLDDFA U.S. Core Equity Fund	Coherent Corp.			Equity	7,163	636,862	0.044%
JNLDDFA U.S. Core Equity Fund	Corebridge Financial, Inc.			Equity	11,853	245,633	0.024%
JNLDDFA U.S. Core Equity Fund	EdgeWise Therapeutics, Inc.			Equity	1,176	31,387	0.002%
JNLDDFA U.S. Core Equity Fund	LivellRamp Holdings, Inc.			Equity	5,062	13,006	0.001%
JNLDDFA U.S. Core Equity Fund	Noble Corporation PLC			Equity	2,122	76,689	0.005%
JNLDDFA U.S. Core Equity Fund	Altaesian Corporation			Equity	967	153,569	0.011%
JNLDDFA U.S. Core Equity Fund	Xperi Inc.			Equity	5,840	53,962	0.004%
JNLDDFA U.S. Core Equity Fund	Alida Inc.			Equity	14,600	136,886	0.012%
JNLDDFA U.S. Core Equity Fund	Stellar Bancorp, Inc.			Equity	1,285	33,269	0.002%
JNLDDFA U.S. Core Equity Fund	IBEX Limited			Equity	850	16,983	0.001%
JNLDDFA U.S. Core Equity Fund	Pioneer Bancorp, Inc.			Equity	1,153	12,648	0.001%
JNLDDFA U.S. Core Equity Fund	Taskus, Inc.			Equity	500	6,460	0.000%
JNLDDFA U.S. Core Equity Fund	The Honest Company, Inc.			Equity	12,714	45,389	0.003%
JNLDDFA U.S. Core Equity Fund	RXO Inc.			Equity	6,644	186,032	0.013%
JNLDDFA U.S. Core Equity Fund	OmnAB, Inc.			Equity	6,130	25,930	0.002%
JNLDDFA U.S. Core Equity Fund	OmnAB, Inc.			Equity	474	0	0.000%
JNLDDFA U.S. Core Equity Fund	OmnAB, Inc.			Equity	474	0	0.000%
JNLDDFA U.S. Core Equity Fund	Coigent Biosciences, Inc.			Equity	1,733	18,716	0.001%
JNLDDFA U.S. Core Equity Fund	U-Haul Holding Company			Equity	8,395	604,440	0.042%
JNLDDFA U.S. Core Equity Fund	Day One Biopharmaceuticals, Inc.			Equity	1,248	17,248	0.001%
JNLDDFA U.S. Core Equity Fund	F&G Annulites & Life, Inc.			Equity	1,571	70,252	0.005%
JNLDDFA U.S. Core Equity Fund	Sight Sciences, Inc.			Equity	2,679	16,878	0.001%
JNLDDFA U.S. Core Equity Fund	Paysafe Limited			Equity	6,328	141,937	0.010%
JNLDDFA U.S. Core Equity Fund	Masterbrand, Inc.			Equity	11,417	211,671	0.015%
JNLDDFA U.S. Core Equity Fund	GE Healthcare Technologies Inc.			Equity	14,146	1,357,602	0.091%
JNLDDFA U.S. Core Equity Fund	Stagwell, Inc.			Equity	2,875	20,183	0.001%
JNLDDFA U.S. Core Equity Fund	Elastic N.V.			Equity	1,967	150,987	0.010%
JNLDDFA U.S. Core Equity Fund	ABXMEMD, Inc.	1/1/2031		Equity	893	1,563	0.000%
JNLDDFA U.S. Core Equity Fund	STR Sub Inc.			Equity	2,605	54,288	0.004%
JNLDDFA U.S. Core Equity Fund	Zymeworks Inc.			Equity	1,767	22,176	0.002%
JNLDDFA U.S. Core Equity Fund	Bowman Consulting Group Ltd.			Equity	1,326	31,930	0.002%
JNLDDFA U.S. Core Equity Fund	Wessex Energy, Inc.			Equity	2,119	50,898	0.004%
JNLDDFA U.S. Core Equity Fund	Napco Security Technologies, Inc.			Equity	1,958	79,465	0.005%
JNLDDFA U.S. Core Equity Fund	Mr. Cooper Group Inc.			Equity	5,201	479,428	0.033%
JNLDDFA U.S. Core Equity Fund	MonqoDB, Inc.			Equity	846	228,716	0.016%
JNLDDFA U.S. Core Equity Fund	Resideo Technologies, Inc.			Equity	13,087	263,572	0.018%
JNLDDFA U.S. Core Equity Fund	YETI Holdings, Inc.			Equity	4,731	134,113	0.013%
JNLDDFA U.S. Core Equity Fund	Vericel Corporation			Equity	1,743	73,642	0.005%
JNLDDFA U.S. Core Equity Fund	PennyMac Financial Services, Inc.			Equity	1,039	118,415	0.008%
JNLDDFA U.S. Core Equity Fund	Arcoxia, Inc.			Equity	3,819	361,888	0.025%
JNLDDFA U.S. Core Equity Fund	Guaranty Bancshares, Inc.			Equity	415	14,387	0.001%
JNLDDFA U.S. Core Equity Fund	Dayforce, Inc.			Equity	4,420	270,725	0.019%
JNLDDFA U.S. Core Equity Fund	Yum! Brands, Inc.			Equity	6,684	933,822	0.064%
JNLDDFA U.S. Core Equity Fund	F.N.B. Corporation			Equity	30,309	427,660	0.029%
JNLDDFA U.S. Core Equity Fund	CECO Environmental Corp.			Equity	3,175	89,535	0.006%
JNLDDFA U.S. Core Equity Fund	Boyd Gaming Corporation			Equity	4,235	274,513	0.019%
JNLDDFA U.S. Core Equity Fund	United Rentals, Inc.			Equity	3,041	2,462,389	0.169%
JNLDDFA U.S. Core Equity Fund	Steelcase Inc.			Equity	9,239	125,558	0.009%
JNLDDFA U.S. Core Equity Fund	SLM Corporation			Equity	17,093	390,917	0.027%
JNLDDFA U.S. Core Equity Fund	Inspire, Inc.			Equity	1,461	139,328	0.009%
JNLDDFA U.S. Core Equity Fund	Verizon Communications Inc.			Equity	184,309	8,277,317	0.570%
JNLDDFA U.S. Core Equity Fund	ONEOK, Inc.			Equity	13,189	1,201,914	0.083%
JNLDDFA U.S. Core Equity Fund	Group 1 Automotive, Inc.			Equity	1,254	480,332	0.033%
JNLDDFA U.S. Core Equity Fund	MetLife Toledo International Inc.			Equity	540	1,000	0.000%
JNLDDFA U.S. Core Equity Fund	Valero Energy Corporation			Equity	18,901	2,562,202	0.176%
JNLDDFA U.S. Core Equity Fund	Simulations Plus, Inc.			Equity	1,586	50,784	0.003%
JNLDDFA U.S. Core Equity Fund	FedEx Corporation			Equity	7,831	2,153,995	0.148%
JNLDDFA U.S. Core Equity Fund	Ball Corporation			Equity	12,585	854,647	0.059%
JNLDDFA U.S. Core Equity Fund	Amesday, Inc.			Equity	2,205	212,805	0.015%
JNLDDFA U.S. Core Equity Fund	AFLAC Incorporated			Equity	15,346	1,715,683	0.118%
JNLDDFA U.S. Core Equity Fund	FARO Technologies, Inc.			Equity	1,125	21,533	0.001%
JNLDDFA U.S. Core Equity Fund	Mation Corporation			Equity	1,580	177,857	0.012%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Azenia, Inc.			Equity	1,578	76,438	0.005%
JNLDOFA U.S. Core Equity Fund	Brady Corporation			Equity	4,121	315,782	0.022%
JNLDOFA U.S. Core Equity Fund	Choice Hotels International, Inc.			Equity	2,330	303,599	0.021%
JNLDOFA U.S. Core Equity Fund	Power Integrations, Inc.			Equity	3,713	238,078	0.016%
JNLDOFA U.S. Core Equity Fund	Avery Dennison Corporation			Equity	3,905	862,068	0.059%
JNLDOFA U.S. Core Equity Fund	Provident Financial Holdings, Inc.			Equity	410	5,684	0.000%
JNLDOFA U.S. Core Equity Fund	Benchmark Electronics, Inc.			Equity	4,804	213,730	0.015%
JNLDOFA U.S. Core Equity Fund	Archer-Daniels-Midland Company			Equity	922	55,080	0.004%
JNLDOFA U.S. Core Equity Fund	Casella Waste Systems, Inc.			Equity	2,899	288,422	0.020%
JNLDOFA U.S. Core Equity Fund	Comcast Corporation			Equity	162,995	6,808,301	0.489%
JNLDOFA U.S. Core Equity Fund	International Business Machines Corporation			Equity	23,472	5,189,130	0.374%
JNLDOFA U.S. Core Equity Fund	Pinnacle West Capital Corporation			Equity	6,316	559,534	0.039%
JNLDOFA U.S. Core Equity Fund	Stoneridge, Inc.			Equity	3,090	34,577	0.002%
JNLDOFA U.S. Core Equity Fund	NVE Corporation			Equity	466	37,219	0.003%
JNLDOFA U.S. Core Equity Fund	Adobe Inc.			Equity	9,537	4,588,068	0.340%
JNLDOFA U.S. Core Equity Fund	Amesren Corporation			Equity	5,811	508,230	0.035%
JNLDOFA U.S. Core Equity Fund	W. R. Berkley Corporation			Equity	14,305	811,523	0.056%
JNLDOFA U.S. Core Equity Fund	Analog Devices, Inc.			Equity	9,383	2,159,885	0.149%
JNLDOFA U.S. Core Equity Fund	Consolidated Water Co. Ltd.			Equity	1,844	46,487	0.003%
JNLDOFA U.S. Core Equity Fund	Albemarle Corporation			Equity	3,732	354,969	0.024%
JNLDOFA U.S. Core Equity Fund	Mercer International Inc.			Equity	10,982	75,172	0.005%
JNLDOFA U.S. Core Equity Fund	REX American Resources Corporation			Equity	510	23,608	0.002%
JNLDOFA U.S. Core Equity Fund	Barnes Group Inc.			Equity	4,572	184,755	0.013%
JNLDOFA U.S. Core Equity Fund	Baxter International Inc.			Equity	15,910	608,717	0.042%
JNLDOFA U.S. Core Equity Fund	Autoliv, Inc.			Equity	7,544	704,383	0.048%
JNLDOFA U.S. Core Equity Fund	Boeing Company, The			Equity	11,571	1,759,255	0.121%
JNLDOFA U.S. Core Equity Fund	Abercrombie & Fitch Co.			Equity	4,035	564,497	0.039%
JNLDOFA U.S. Core Equity Fund	Apogee Enterprises, Inc.			Equity	3,505	245,403	0.017%
JNLDOFA U.S. Core Equity Fund	VenSion, Inc.			Equity	2,908	552,404	0.038%
JNLDOFA U.S. Core Equity Fund	BandFirst Corporation			Equity	2,900	306,559	0.021%
JNLDOFA U.S. Core Equity Fund	Universal Technical Institute, Inc.			Equity	1,680	26,992	0.002%
JNLDOFA U.S. Core Equity Fund	Affiliated Managers Group, Inc.			Equity	3,038	540,158	0.037%
JNLDOFA U.S. Core Equity Fund	Berkshire Hathaway Inc.			Equity	31,478	14,488,064	0.997%
JNLDOFA U.S. Core Equity Fund	Take-Two Interactive Software, Inc.			Equity	5,523	848,947	0.058%
JNLDOFA U.S. Core Equity Fund	Autodesk, Inc.			Equity	5,714	1,574,093	0.108%
JNLDOFA U.S. Core Equity Fund	The AES Corporation			Equity	20,325	301,120	0.024%
JNLDOFA U.S. Core Equity Fund	PetMed Express, Inc.			Equity	2,303	8,475	0.001%
JNLDOFA U.S. Core Equity Fund	BOK Financial Corporation			Equity	4,411	461,479	0.032%
JNLDOFA U.S. Core Equity Fund	MasterCraft Boat Holdings, Inc.			Equity	800	14,568	0.001%
JNLDOFA U.S. Core Equity Fund	Alamo Group Inc.			Equity	811	146,019	0.010%
JNLDOFA U.S. Core Equity Fund	National HealthCare Corporation			Equity	1,962	247,958	0.017%
JNLDOFA U.S. Core Equity Fund	Bassett Furniture Industries, Incorporated			Equity	500	7,225	0.000%
JNLDOFA U.S. Core Equity Fund	Best Buy Co., Inc.			Equity	12,977	1,352,722	0.093%
JNLDOFA U.S. Core Equity Fund	Associated Banc-Corp			Equity	13,974	301,000	0.021%
JNLDOFA U.S. Core Equity Fund	OceanFirst Financial Corp.			Equity	7,077	131,555	0.009%
JNLDOFA U.S. Core Equity Fund	Alaska Air Group, Inc.			Equity	8,704	393,508	0.027%
JNLDOFA U.S. Core Equity Fund	Helix Energy Solutions Group, Inc.			Equity	21,682	240,670	0.017%
JNLDOFA U.S. Core Equity Fund	Bristol Myers Squibb Company			Equity	64,810	3,353,260	0.231%
JNLDOFA U.S. Core Equity Fund	Automatic Data Processing, Inc.			Equity	11,174	3,107,825	0.214%
JNLDOFA U.S. Core Equity Fund	Albany International Corp.			Equity	2,042	181,963	0.013%
JNLDOFA U.S. Core Equity Fund	Arnel, Inc.			Equity	8,255	448,329	0.031%
JNLDOFA U.S. Core Equity Fund	Advanced Micro Devices, Inc.			Equity	25,236	1,440,723	0.285%
JNLDOFA U.S. Core Equity Fund	Nordic American Tankers Limited			Equity	30,504	115,610	0.008%
JNLDOFA U.S. Core Equity Fund	Mercury Systems, Inc.			Equity	3,034	112,258	0.008%
JNLDOFA U.S. Core Equity Fund	C.H. Robinson Worldwide, Inc.			Equity	6,180	685,918	0.047%
JNLDOFA U.S. Core Equity Fund	American Electric Power Company, Inc.			Equity	9,476	972,238	0.067%
JNLDOFA U.S. Core Equity Fund	ASM Industries Incorporated			Equity	4,660	245,862	0.017%
JNLDOFA U.S. Core Equity Fund	AutoZone, Inc.			Equity	366	1,152,915	0.079%
JNLDOFA U.S. Core Equity Fund	Jones Lang LaSalle Incorporated			Equity	3,196	862,313	0.059%
JNLDOFA U.S. Core Equity Fund	Limnoria Company			Equity	1,078	28,567	0.002%
JNLDOFA U.S. Core Equity Fund	Balchem Corporation			Equity	1,895	351,120	0.024%
JNLDOFA U.S. Core Equity Fund	U-Haul Holding Company			Equity	1,118	86,623	0.006%
JNLDOFA U.S. Core Equity Fund	Camden National Corporation			Equity	1,898	78,425	0.005%
JNLDOFA U.S. Core Equity Fund	Quanta Services, Inc.			Equity	5,128	1,528,913	0.105%
JNLDOFA U.S. Core Equity Fund	FirstEnergy Corp			Equity	15,139	171,415	0.014%
JNLDOFA U.S. Core Equity Fund	American Express Company			Equity	13,567	3,679,370	0.253%
JNLDOFA U.S. Core Equity Fund	Osi Systems, Inc.			Equity	1,115	169,290	0.012%
JNLDOFA U.S. Core Equity Fund	Alco, Inc.			Equity	823	23,060	0.002%
JNLDOFA U.S. Core Equity Fund	AAR Corp.			Equity	3,493	238,302	0.016%
JNLDOFA U.S. Core Equity Fund	Asdec Industries, Inc.			Equity	1,675	53,500	0.004%
JNLDOFA U.S. Core Equity Fund	American Vanguard Corporation			Equity	3,559	18,863	0.001%
JNLDOFA U.S. Core Equity Fund	Black Hills Corporation			Equity	3,347	204,569	0.014%
JNLDOFA U.S. Core Equity Fund	Arrow Financial Corporation			Equity	2,138	61,236	0.004%
JNLDOFA U.S. Core Equity Fund	Arrow Electronics, Inc.			Equity	5,225	694,037	0.048%
JNLDOFA U.S. Core Equity Fund	Anika Therapeutics, Inc.			Equity	1,486	36,704	0.003%
JNLDOFA U.S. Core Equity Fund	American International Group, Inc.			Equity	22,596	1,654,705	0.114%
JNLDOFA U.S. Core Equity Fund	American Financial Group, Inc.			Equity	5,224	1,032,150	0.048%
JNLDOFA U.S. Core Equity Fund	Honeywell International Inc.			Equity	16,410	3,392,111	0.233%
JNLDOFA U.S. Core Equity Fund	ANSYS, Inc.			Equity	1,877	598,069	0.041%
JNLDOFA U.S. Core Equity Fund	Brunswick Corporation			Equity	7,054	591,266	0.041%
JNLDOFA U.S. Core Equity Fund	BorgWarner Inc.			Equity	16,305	591,708	0.041%
JNLDOFA U.S. Core Equity Fund	Astronics Corporation			Equity	2,214	43,129	0.003%
JNLDOFA U.S. Core Equity Fund	American Eagle Outfitters, Inc.			Equity	17,456	390,840	0.027%
JNLDOFA U.S. Core Equity Fund	Brown-Forman Corporation			Equity	3,150	152,138	0.010%
JNLDOFA U.S. Core Equity Fund	8X5, Inc.			Equity	16,038	32,718	0.002%
JNLDOFA U.S. Core Equity Fund	Applied Materials, Inc.			Equity	19,414	3,922,589	0.270%
JNLDOFA U.S. Core Equity Fund	American Woodmark Corporation			Equity	1,198	111,953	0.008%
JNLDOFA U.S. Core Equity Fund	American Software, Inc.			Equity	1,774	19,851	0.001%
JNLDOFA U.S. Core Equity Fund	TD SYNNEX Corporation			Equity	5,684	682,535	0.047%
JNLDOFA U.S. Core Equity Fund	MasTec, Inc.			Equity	6,831	596,738	0.045%
JNLDOFA U.S. Core Equity Fund	Applied Industrial Technologies, Inc.			Equity	2,892	645,292	0.044%
JNLDOFA U.S. Core Equity Fund	Cass Information Systems, Inc.			Equity	1,246	51,684	0.004%
JNLDOFA U.S. Core Equity Fund	AZZ, Inc.			Equity	2,598	214,621	0.015%
JNLDOFA U.S. Core Equity Fund	Altilate Corporation, The			Equity	7,472	1,423,939	0.098%
JNLDOFA U.S. Core Equity Fund	Boston Scientific Corporation			Equity	25,166	2,108,911	0.145%
JNLDOFA U.S. Core Equity Fund	Comfort Systems USA, Inc.			Equity	2,241	874,774	0.060%
JNLDOFA U.S. Core Equity Fund	Del Monte Fresh Produce Company			Equity	5,458	161,229	0.011%
JNLDOFA U.S. Core Equity Fund	Sempra			Equity	12,225	1,029,956	0.071%
JNLDOFA U.S. Core Equity Fund	Bio-Rad Laboratories, Inc.			Equity	937	313,501	0.022%
JNLDOFA U.S. Core Equity Fund	Brown-Forman Corporation			Equity	9,017	445,600	0.031%
JNLDOFA U.S. Core Equity Fund	AptarGroup, Inc.			Equity	4,508	722,137	0.050%
JNLDOFA U.S. Core Equity Fund	Maximus, Inc.			Equity	4,218	892,949	0.062%
JNLDOFA U.S. Core Equity Fund	Abbott Laboratories			Equity	30,462	3,472,973	0.239%
JNLDOFA U.S. Core Equity Fund	Amgen Inc.			Equity	14,268	4,597,292	0.316%
JNLDOFA U.S. Core Equity Fund	AMETEK, Inc.			Equity	7,393	1,269,452	0.087%
JNLDOFA U.S. Core Equity Fund	Amazon.com, Inc.			Equity	186,238	34,701,727	2.388%
JNLDOFA U.S. Core Equity Fund	Nicolet Bankshares, Inc.			Equity	1,261	120,589	0.008%
JNLDOFA U.S. Core Equity Fund	Robert Half Inc.			Equity	8,198	552,627	0.038%
JNLDOFA U.S. Core Equity Fund	Sandy Spring Bancorp., Inc.			Equity	4,662	146,247	0.010%
JNLDOFA U.S. Core Equity Fund	Bank of Hawaii Corporation			Equity	3,101	194,650	0.013%
JNLDOFA U.S. Core Equity Fund	Boston Beer Company, Inc., The			Equity	154	160,184	0.011%
JNLDOFA U.S. Core Equity Fund	Advanced Energy Industries, Inc.			Equity	2,665	280,465	0.019%
JNLDOFA U.S. Core Equity Fund	Hanover Insurance Group Inc, The			Equity	2,786	412,634	0.028%
JNLDOFA U.S. Core Equity Fund	Air Products and Chemicals, Inc.			Equity	4,304	1,281,473	0.088%
JNLDOFA U.S. Core Equity Fund	AdCo Corporation			Equity	6,392	625,521	0.043%
JNLDOFA U.S. Core Equity Fund	Sonic Automotive, Inc.			Equity	3,088	181,513	0.012%
JNLDOFA U.S. Core Equity Fund	Hess Corporation			Equity	12,022	1,632,588	0.112%
JNLDOFA U.S. Core Equity Fund	Adams Resources & Energy, Inc.			Equity	247	6,869	0.000%
JNLDOFA U.S. Core Equity Fund	Barnett Business Services, Inc.			Equity	4,660	174,797	0.012%
JNLDOFA U.S. Core Equity Fund	H & R Block, Inc.			Equity	8,690	555,508	0.038%
JNLDOFA U.S. Core Equity Fund	PriceSmart, Inc.			Equity	2,294	210,543	0.014%
JNLDOFA U.S. Core Equity Fund	Badger Meter, Inc.			Equity	1,437	313,955	0.022%
JNLDOFA U.S. Core Equity Fund	Ameco-Pittsburgh Corporation			Equity	889	1,776	0.000%
JNLDOFA U.S. Core Equity Fund	Amphenol Corporation			Equity	28,158	1,839,421	0.127%
JNLDOFA U.S. Core Equity Fund	Northwest Pipe Company			Equity	1,000	45,130	0.003%
JNLDOFA U.S. Core Equity Fund	Becton, Dickinson and Company			Equity	4,625	1,115,088	0.077%
JNLDOFA U.S. Core Equity Fund	Clecofield, Inc.			Equity	600	25,376	0.002%
JNLDOFA U.S. Core Equity Fund	Apple Inc.			Equity	276,118	64,335,494	4.428%
JNLDOFA U.S. Core Equity Fund	The Buckle, Inc.			Equity	5,644	248,167	0.017%
JNLDOFA U.S. Core Equity Fund	Ameris Bancorp			Equity	4,746	296,815	0.020%
JNLDOFA U.S. Core Equity Fund	Manhattan Associates, Inc.			Equity	3,038	654,832	0.046%
JNLDOFA U.S. Core Equity Fund	Home Depot, Inc., The			Equity	23,645	9,580,954	0.659%
JNLDOFA U.S. Core Equity Fund	IDEX Corporation			Equity	2,177	466,967	0.032%
JNLDOFA U.S. Core Equity Fund	GATX Corporation			Equity	2,833	375,231	0.026%
JNLDOFA U.S. Core Equity Fund	International Bancshares Corporation			Equity	5,962	356,488	0.025%
JNLDOFA U.S. Core Equity Fund	Citizens & Northern Corporation			Equity	745	100,237	0.007%
JNLDOFA U.S. Core Equity Fund	Digi International Inc.			Equity	3,641	100,237	0.007%
JNLDOFA U.S. Core Equity Fund	Cracker Barrel Old Country Store, Inc.			Equity	1,861	84,396	0.006%
JNLDOFA U.S. Core Equity Fund	Acacia Research Corporation			Equity	1,754	8,174	0.001%
JNLDOFA U.S. Core Equity Fund	Crown Holdings, Inc.			Equity	8,540	818,815	0.056%
JNLDOFA U.S. Core Equity Fund	Cheeseecake Factory Incorporated, The			Equity	5,924	240,218	0.017%
JNLDOFA U.S. Core Equity Fund	The Clorox Company			Equity	3,265	531,901	0.037%
JNLDOFA U.S. Core Equity Fund	Hilltop Holdings Inc.			Equity	7,122	229,044	0.016%
JNLDOFA U.S. Core Equity Fund	M&T Bank Corporation			Equity	5,995	1,068,098	0.074%
JNLDOFA U.S. Core Equity Fund	USANA Health Sciences, Inc.			Equity	1,836	69,621	0.005%
JNLDOFA U.S. Core Equity Fund	Consolidated Edison, Inc.			Equity	8,735	909,576	0.063%
JNLDOFA U.S. Core Equity Fund	Hurco Companies, Inc.			Equity	315	6,637	0.000%
JNLDOFA U.S. Core Equity Fund	Bel Fuse Inc.			Equity	1,351	106,067	0.007%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Coeur Mining, Inc.			Equity	17,329	119,224	0.088%
JNLDOFA U.S. Core Equity Fund	Capital City Bank Group, Inc.			Equity	1,000	6,280	0.002%
JNLDOFA U.S. Core Equity Fund	Carnage Services, Inc.			Equity	2,087	68,516	0.009%
JNLDOFA U.S. Core Equity Fund	Eastman Chemical Company			Equity	6,603	744,554	0.051%
JNLDOFA U.S. Core Equity Fund	Hologic, Inc.			Equity	7,024	572,175	0.039%
JNLDOFA U.S. Core Equity Fund	Evolution Petroleum Corporation			Equity	2,707	14,374	0.001%
JNLDOFA U.S. Core Equity Fund	Critix Logic, Inc.			Equity	2,506	311,270	0.021%
JNLDOFA U.S. Core Equity Fund	Credit Acceptance Corporation			Equity	897	397,748	0.027%
JNLDOFA U.S. Core Equity Fund	Cisco Systems, Inc.			Equity	96,971	5,160,797	0.355%
JNLDOFA U.S. Core Equity Fund	Cad International Inc.			Equity	1,570	792,159	0.055%
JNLDOFA U.S. Core Equity Fund	Extreme Networks, Inc.			Equity	1,833	94,560	0.007%
JNLDOFA U.S. Core Equity Fund	The York Water Company			Equity	1,466	55,225	0.004%
JNLDOFA U.S. Core Equity Fund	Alliant Inc.			Equity	1,867	35,454	0.002%
JNLDOFA U.S. Core Equity Fund	Halliburton Company			Equity	42,075	1,222,279	0.084%
JNLDOFA U.S. Core Equity Fund	DEXA Laboratories, Inc.			Equity	2,265	1,194,845	0.082%
JNLDOFA U.S. Core Equity Fund	1-800-Flowers.com, Inc.			Equity	3,542	28,088	0.002%
JNLDOFA U.S. Core Equity Fund	Commercial Metals Company			Equity	9,615	528,440	0.038%
JNLDOFA U.S. Core Equity Fund	Insteel Industries, Inc.			Equity	2,088	64,915	0.004%
JNLDOFA U.S. Core Equity Fund	Target Corporation			Equity	13,742	2,144,945	0.148%
JNLDOFA U.S. Core Equity Fund	Copart, Inc.			Equity	14,010	734,124	0.051%
JNLDOFA U.S. Core Equity Fund	Chesapeake Utilities Corporation			Equity	877	109,458	0.008%
JNLDOFA U.S. Core Equity Fund	Forrester Research, Inc.			Equity	1,686	30,365	0.002%
JNLDOFA U.S. Core Equity Fund	MarineMax, Inc.			Equity	2,814	99,250	0.007%
JNLDOFA U.S. Core Equity Fund	Community Financial System, Inc.			Equity	3,652	213,752	0.015%
JNLDOFA U.S. Core Equity Fund	Biogen Inc.			Equity	3,543	686,775	0.047%
JNLDOFA U.S. Core Equity Fund	Dillard's, Inc.			Equity	1,503	577,062	0.040%
JNLDOFA U.S. Core Equity Fund	EOG Resources, Inc.			Equity	19,509	2,275,211	0.157%
JNLDOFA U.S. Core Equity Fund	Denny's Corporation			Equity	3,982	25,684	0.002%
JNLDOFA U.S. Core Equity Fund	Amtech Systems, Inc.			Equity	917	5,319	0.000%
JNLDOFA U.S. Core Equity Fund	Entergy Corporation			Equity	5,571	733,199	0.050%
JNLDOFA U.S. Core Equity Fund	American States Water Company			Equity	1,815	151,171	0.010%
JNLDOFA U.S. Core Equity Fund	Fidicet Research Systems, Inc.			Equity	1,011	465,388	0.032%
JNLDOFA U.S. Core Equity Fund	The Cato Corporation			Equity	2,300	11,477	0.001%
JNLDOFA U.S. Core Equity Fund	BioMarin Pharmaceutical Inc.			Equity	5,628	395,592	0.027%
JNLDOFA U.S. Core Equity Fund	CoStar Group, Inc.			Equity	8,040	606,538	0.042%
JNLDOFA U.S. Core Equity Fund	Winmark Corporation			Equity	248	94,988	0.007%
JNLDOFA U.S. Core Equity Fund	Hingham Institution For Savings, The			Equity	416	101,217	0.007%
JNLDOFA U.S. Core Equity Fund	First Horizon Corporation			Equity	32,719	513,034	0.035%
JNLDOFA U.S. Core Equity Fund	Unifirst Corporation			Equity	986	195,869	0.013%
JNLDOFA U.S. Core Equity Fund	The Interpublic Group of Companies, Inc.			Equity	24,890	784,424	0.054%
JNLDOFA U.S. Core Equity Fund	First Financial Bankshares, Inc.			Equity	6,491	241,400	0.017%
JNLDOFA U.S. Core Equity Fund	Horace Mann Educators Corporation			Equity	3,762	131,482	0.009%
JNLDOFA U.S. Core Equity Fund	Cullen/Frost Bankers, Inc.			Equity	3,916	138,444	0.010%
JNLDOFA U.S. Core Equity Fund	Deere & Company			Equity	9,200	3,852,945	0.265%
JNLDOFA U.S. Core Equity Fund	Marriott International, Inc.			Equity	4,934	1,226,592	0.084%
JNLDOFA U.S. Core Equity Fund	Moody's Corporation			Equity	3,700	1,755,983	0.121%
JNLDOFA U.S. Core Equity Fund	Brinker International, Inc.			Equity	2,692	206,019	0.014%
JNLDOFA U.S. Core Equity Fund	CMS Energy Corporation			Equity	10,018	707,571	0.049%
JNLDOFA U.S. Core Equity Fund	Envirol Corporation			Equity	7,728	79,908	0.005%
JNLDOFA U.S. Core Equity Fund	Citizens, Inc.			Equity	3,705	13,412	0.001%
JNLDOFA U.S. Core Equity Fund	California Water Service Group			Equity	3,074	166,672	0.011%
JNLDOFA U.S. Core Equity Fund	Fifth Third Bancorp			Equity	29,369	1,275,824	0.084%
JNLDOFA U.S. Core Equity Fund	Freight-McMorgan Inc.			Equity	31,936	1,594,245	0.110%
JNLDOFA U.S. Core Equity Fund	G-III Apparel Group, Ltd.			Equity	5,436	165,907	0.011%
JNLDOFA U.S. Core Equity Fund	Diodes Incorporated			Equity	2,969	190,283	0.013%
JNLDOFA U.S. Core Equity Fund	Deckers Outdoor Corporation			Equity	5,418	863,900	0.059%
JNLDOFA U.S. Core Equity Fund	Griffon Corporation			Equity	3,084	216,580	0.015%
JNLDOFA U.S. Core Equity Fund	Farmer Bros. Co.			Equity	1,572	3,113	0.000%
JNLDOFA U.S. Core Equity Fund	Ingles Markets, Incorporated			Equity	1,830	136,518	0.009%
JNLDOFA U.S. Core Equity Fund	Amkor Technology, Inc.			Equity	22,867	699,730	0.048%
JNLDOFA U.S. Core Equity Fund	Crawford & Company			Equity	1,431	10,888	0.001%
JNLDOFA U.S. Core Equity Fund	CVB Financial Corp.			Equity	11,256	202,833	0.014%
JNLDOFA U.S. Core Equity Fund	Ducommun Incorporated			Equity	1,293	85,118	0.006%
JNLDOFA U.S. Core Equity Fund	Columbia Sportswear Company			Equity	3,590	298,652	0.021%
JNLDOFA U.S. Core Equity Fund	Hormel Foods Corporation			Equity	15,720	498,324	0.034%
JNLDOFA U.S. Core Equity Fund	Cummins Inc.			Equity	5,902	1,911,009	0.132%
JNLDOFA U.S. Core Equity Fund	Central Garden & Pet Company			Equity	1,137	41,466	0.003%
JNLDOFA U.S. Core Equity Fund	CONMED Corporation			Equity	1,540	111,065	0.008%
JNLDOFA U.S. Core Equity Fund	L. B. Foster Company			Equity	997	20,369	0.001%
JNLDOFA U.S. Core Equity Fund	Assurant, Inc.			Equity	3,234	643,113	0.044%
JNLDOFA U.S. Core Equity Fund	NRG Energy, Inc.			Equity	18,860	1,718,146	0.118%
JNLDOFA U.S. Core Equity Fund	Fair Isaac Corporation			Equity	745	1,447,922	0.100%
JNLDOFA U.S. Core Equity Fund	Hasbro, Inc.			Equity	6,681	483,170	0.032%
JNLDOFA U.S. Core Equity Fund	The Goodyear Tire & Rubber Company			Equity	24,781	219,312	0.015%
JNLDOFA U.S. Core Equity Fund	InterDigital, Inc.			Equity	1,410	199,698	0.014%
JNLDOFA U.S. Core Equity Fund	Fastenal Company			Equity	20,346	1,453,111	0.100%
JNLDOFA U.S. Core Equity Fund	Enzo Biochem, Inc.			Equity	3,526	3,949	0.000%
JNLDOFA U.S. Core Equity Fund	World Kinect Corporation			Equity	5,200	161,616	0.011%
JNLDOFA U.S. Core Equity Fund	Erie Indemnity Company			Equity	674	363,839	0.025%
JNLDOFA U.S. Core Equity Fund	AXT, Inc.			Equity	890	2,154	0.000%
JNLDOFA U.S. Core Equity Fund	Hewlett Corporation			Equity	4,264	263,643	0.018%
JNLDOFA U.S. Core Equity Fund	Juniper Networks, Inc.			Equity	21,125	823,453	0.057%
JNLDOFA U.S. Core Equity Fund	The Greenbrier Companies, Inc.			Equity	2,896	147,377	0.010%
JNLDOFA U.S. Core Equity Fund	Culp, Inc.			Equity	1,519	9,949	0.001%
JNLDOFA U.S. Core Equity Fund	Crawford & Company			Equity	1,755	19,252	0.001%
JNLDOFA U.S. Core Equity Fund	First Bancorp			Equity	3,533	17,715	0.001%
JNLDOFA U.S. Core Equity Fund	Plex Ltd.			Equity	24,148	807,268	0.056%
JNLDOFA U.S. Core Equity Fund	Coterra Energy Inc.			Equity	46,476	1,113,100	0.077%
JNLDOFA U.S. Core Equity Fund	Intel Corporation			Equity	97,409	2,285,215	0.157%
JNLDOFA U.S. Core Equity Fund	Holcoast Industries, Inc.			Equity	721	12,761	0.001%
JNLDOFA U.S. Core Equity Fund	Universal Display Corporation			Equity	2,357	494,734	0.034%
JNLDOFA U.S. Core Equity Fund	Trustmark Corporation			Equity	5,578	177,492	0.012%
JNLDOFA U.S. Core Equity Fund	Lennox International Inc.			Equity	1,465	886,970	0.061%
JNLDOFA U.S. Core Equity Fund	O.R. Hottel, Inc.			Equity	9,544	1,307,709	0.091%
JNLDOFA U.S. Core Equity Fund	The Estee Lauder Companies Inc.			Equity	3,200	319,008	0.022%
JNLDOFA U.S. Core Equity Fund	Piper Sandler Companies			Equity	1,319	374,345	0.026%
JNLDOFA U.S. Core Equity Fund	JPMorgan Chase & Co.			Equity	69,335	14,619,978	1.006%
JNLDOFA U.S. Core Equity Fund	Marchex, Inc.			Equity	141	1,000	0.000%
JNLDOFA U.S. Core Equity Fund	Constellation Brands, Inc.			Equity	4,931	1,270,669	0.087%
JNLDOFA U.S. Core Equity Fund	CRA International, Inc.			Equity	1,072	187,943	0.013%
JNLDOFA U.S. Core Equity Fund	Haverly Furniture Companies, Inc.			Equity	1,560	42,853	0.003%
JNLDOFA U.S. Core Equity Fund	Gorman-Rupp Company, The			Equity	2,434	94,864	0.007%
JNLDOFA U.S. Core Equity Fund	Itron, Inc.			Equity	3,314	353,968	0.024%
JNLDOFA U.S. Core Equity Fund	Clean Harbors, Inc.			Equity	5,166	1,248,674	0.086%
JNLDOFA U.S. Core Equity Fund	Deluxe Corporation			Equity	4,669	90,999	0.006%
JNLDOFA U.S. Core Equity Fund	Gibraltar Industries, Inc.			Equity	2,443	170,639	0.012%
JNLDOFA U.S. Core Equity Fund	White Mountains Insurance Group Ltd			Equity	194	326,661	0.023%
JNLDOFA U.S. Core Equity Fund	The Hackett Group, Inc.			Equity	3,247	85,656	0.006%
JNLDOFA U.S. Core Equity Fund	J&J Snack Foods Corp.			Equity	1,336	230,994	0.016%
JNLDOFA U.S. Core Equity Fund	American Axle & Manufacturing Holdings, Inc.			Equity	12,470	77,065	0.005%
JNLDOFA U.S. Core Equity Fund	Campbell Soup Company			Equity	14,692	719,733	0.049%
JNLDOFA U.S. Core Equity Fund	PC Connection, Inc.			Equity	3,083	232,551	0.016%
JNLDOFA U.S. Core Equity Fund	Comtech Telecommunications Corp.			Equity	1,192	5,734	0.000%
JNLDOFA U.S. Core Equity Fund	Caterpillar Inc.			Equity	11,322	4,428,261	0.309%
JNLDOFA U.S. Core Equity Fund	Escalade Incorporated			Equity	900	12,653	0.001%
JNLDOFA U.S. Core Equity Fund	ICU Medical, Inc.			Equity	300	54,666	0.004%
JNLDOFA U.S. Core Equity Fund	NVIDIA Corporation			Equity	580,354	70,483,993	4.851%
JNLDOFA U.S. Core Equity Fund	Darden Restaurants, Inc.			Equity	5,352	878,424	0.060%
JNLDOFA U.S. Core Equity Fund	HNI Corporation			Equity	4,467	240,503	0.017%
JNLDOFA U.S. Core Equity Fund	Amcos Energy Corporation			Equity	4,604	638,621	0.044%
JNLDOFA U.S. Core Equity Fund	Exponent, Inc.			Equity	2,548	293,733	0.020%
JNLDOFA U.S. Core Equity Fund	Gray Television, Inc.			Equity	11,432	61,276	0.004%
JNLDOFA U.S. Core Equity Fund	City Holding Company			Equity	1,318	154,720	0.011%
JNLDOFA U.S. Core Equity Fund	Federal Signal Corporation			Equity	3,706	346,363	0.024%
JNLDOFA U.S. Core Equity Fund	Hawkins, Inc.			Equity	1,934	246,527	0.017%
JNLDOFA U.S. Core Equity Fund	Daktronics, Inc.			Equity	4,925	63,582	0.004%
JNLDOFA U.S. Core Equity Fund	Tempus Sealy International, Inc.			Equity	7,054	386,148	0.027%
JNLDOFA U.S. Core Equity Fund	Expeditions International of Washington, Inc.			Equity	6,513	855,808	0.059%
JNLDOFA U.S. Core Equity Fund	Casey's General Stores, Inc.			Equity	2,685	1,008,781	0.069%
JNLDOFA U.S. Core Equity Fund	Barner Corporation			Equity	2,816	167,721	0.012%
JNLDOFA U.S. Core Equity Fund	Pushing Financial Corporation			Equity	3,497	50,996	0.004%
JNLDOFA U.S. Core Equity Fund	Wtull Inc.			Equity	3,927	2,438,667	0.168%
JNLDOFA U.S. Core Equity Fund	PMC Corporation			Equity	3,942	262,222	0.018%
JNLDOFA U.S. Core Equity Fund	International Flavors & Fragrances Inc.			Equity	8,320	876,397	0.060%
JNLDOFA U.S. Core Equity Fund	General Dynamics Corporation			Equity	5,283	1,596,523	0.110%
JNLDOFA U.S. Core Equity Fund	NetScout Systems, Inc.			Equity	6,458	140,462	0.010%
JNLDOFA U.S. Core Equity Fund	Provident Financial Services, Inc.			Equity	12,878	239,016	0.016%
JNLDOFA U.S. Core Equity Fund	Amdocs Limited			Equity	4,967	436,892	0.030%
JNLDOFA U.S. Core Equity Fund	Gilead Sciences, Inc.			Equity	41,256	3,458,903	0.238%
JNLDOFA U.S. Core Equity Fund	Peapack-Gladstone Financial Corporation			Equity	2,277	127,413	0.009%
JNLDOFA U.S. Core Equity Fund	Cohn, Inc.			Equity	4,680	120,276	0.008%
JNLDOFA U.S. Core Equity Fund	Consumer Portfolio Services, Inc.			Equity	2,131	19,989	0.001%
JNLDOFA U.S. Core Equity Fund	Heidrick & Struggles International, Inc.			Equity	2,175	84,521	0.006%
JNLDOFA U.S. Core Equity Fund	FTI Consulting, Inc.			Equity	5,272	517,016	0.036%
JNLDOFA U.S. Core Equity Fund	Walt Disney Company, The			Equity	39,707	3,819,416	0.263%
JNLDOFA U.S. Core Equity Fund	General Mills, Inc.			Equity	15,689	1,158,633	0.080%
JNLDOFA U.S. Core Equity Fund	Church & Dwight Co., Inc.			Equity	6,618	693,037	0.048%
JNLDOFA U.S. Core Equity Fund	Equifax Inc.			Equity	3,065	906,558	0.062%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Compass Minerals International, Inc.			Equity	3,326	39,979	0.033%
JNLDOFA U.S. Core Equity Fund	Federated Hermes, Inc.			Equity	4,854	1,854	0.012%
JNLDOFA U.S. Core Equity Fund	First Bancorp., Inc., The			Equity	1,134	29,847	0.002%
JNLDOFA U.S. Core Equity Fund	CenterPoint Energy, Inc.			Equity	16,025	471,456	0.032%
JNLDOFA U.S. Core Equity Fund	Sealed Air Corporation			Equity	7,120	258,456	0.018%
JNLDOFA U.S. Core Equity Fund	DXP Enterprises, Inc.			Equity	1,791	95,568	0.007%
JNLDOFA U.S. Core Equity Fund	Prosperity Bancshares, Inc.			Equity	6,808	494,465	0.034%
JNLDOFA U.S. Core Equity Fund	First Financial Corporation			Equity	957	41,964	0.003%
JNLDOFA U.S. Core Equity Fund	Arvision, Inc.			Equity	2,788	74,217	0.005%
JNLDOFA U.S. Core Equity Fund	McKesson Corporation			Equity	2,743	1,358,142	0.093%
JNLDOFA U.S. Core Equity Fund	Century Aluminum Company			Equity	8,490	2,793	0.000%
JNLDOFA U.S. Core Equity Fund	Kronos Worldwide, Inc.			Equity	8,997	112,013	0.008%
JNLDOFA U.S. Core Equity Fund	First Merchants Corporation			Equity	5,216	194,040	0.013%
JNLDOFA U.S. Core Equity Fund	Healthcare Services Group, Inc.			Equity	5,028	56,163	0.004%
JNLDOFA U.S. Core Equity Fund	EZCO, Inc.			Equity	7,295	61,177	0.006%
JNLDOFA U.S. Core Equity Fund	Cognex Corporation			Equity	6,877	278,519	0.019%
JNLDOFA U.S. Core Equity Fund	AAON, Inc.			Equity	4,489	484,094	0.033%
JNLDOFA U.S. Core Equity Fund	Dollar Tree, Inc.			Equity	7,217	507,499	0.035%
JNLDOFA U.S. Core Equity Fund	West Bancorporation, Inc.			Equity	1,797	34,161	0.002%
JNLDOFA U.S. Core Equity Fund	Heartland Express, Inc.			Equity	9,400	115,620	0.008%
JNLDOFA U.S. Core Equity Fund	First of Long Island Corporation, The			Equity	2,328	29,961	0.002%
JNLDOFA U.S. Core Equity Fund	Graham Corporation			Equity	400	11,836	0.001%
JNLDOFA U.S. Core Equity Fund	Quest? Inc.			Equity	7,788	156,712	0.011%
JNLDOFA U.S. Core Equity Fund	Genesco Inc.			Equity	2,263	61,486	0.004%
JNLDOFA U.S. Core Equity Fund	Hawaiian Electric Industries, Inc.			Equity	5,989	57,974	0.004%
JNLDOFA U.S. Core Equity Fund	Danaher Corporation			Equity	10,679	2,971,859	0.205%
JNLDOFA U.S. Core Equity Fund	HECO Corporation			Equity	1,899	386,940	0.027%
JNLDOFA U.S. Core Equity Fund	Graco Inc.			Equity	7,413	648,712	0.045%
JNLDOFA U.S. Core Equity Fund	Curis-Wright Corporation			Equity	2,465	810,739	0.056%
JNLDOFA U.S. Core Equity Fund	Cognizant Technology Solutions Corporation			Equity	15,606	1,204,471	0.083%
JNLDOFA U.S. Core Equity Fund	Blackboard, Inc.			Equity	2,911	246,503	0.017%
JNLDOFA U.S. Core Equity Fund	Skidder's U.S.A., Inc.			Equity	9,543	632,526	0.044%
JNLDOFA U.S. Core Equity Fund	First Financial Bancorp.			Equity	7,130	179,890	0.012%
JNLDOFA U.S. Core Equity Fund	Encore Capital Group, Inc.			Equity	4,073	192,531	0.013%
JNLDOFA U.S. Core Equity Fund	HECO Corporation			Equity	1,583	413,923	0.028%
JNLDOFA U.S. Core Equity Fund	Salesforce, Inc.			Equity	14,894	4,080,845	0.281%
JNLDOFA U.S. Core Equity Fund	Franklin Covey Co.			Equity	1,091	44,873	0.003%
JNLDOFA U.S. Core Equity Fund	1st Source Corporation			Equity	3,232	193,532	0.013%
JNLDOFA U.S. Core Equity Fund	Commerce Bancshares, Inc.			Equity	8,830	524,502	0.036%
JNLDOFA U.S. Core Equity Fund	Harley-Davidson, Inc.			Equity	10,508	404,874	0.027%
JNLDOFA U.S. Core Equity Fund	Ethan Allen Interiors, Inc.			Equity	3,395	108,267	0.007%
JNLDOFA U.S. Core Equity Fund	Franklin Electric Co., Inc.			Equity	3,560	373,159	0.026%
JNLDOFA U.S. Core Equity Fund	Illinois Tool Works Inc.			Equity	8,165	2,152,049	0.148%
JNLDOFA U.S. Core Equity Fund	Nektar Therapeutics			Equity	9,870	1,761	0.000%
JNLDOFA U.S. Core Equity Fund	Eagle Materials Inc.			Equity	3,329	958,419	0.066%
JNLDOFA U.S. Core Equity Fund	Hedra Mining Company			Equity	43,143	287,764	0.020%
JNLDOFA U.S. Core Equity Fund	Hub Group, Inc.			Equity	6,154	280,154	0.019%
JNLDOFA U.S. Core Equity Fund	Genlex Corporation			Equity	14,899	142,351	0.009%
JNLDOFA U.S. Core Equity Fund	Donaldson Company, Inc.			Equity	6,889	507,719	0.035%
JNLDOFA U.S. Core Equity Fund	Pathward Financial, Inc.			Equity	3,436	226,982	0.016%
JNLDOFA U.S. Core Equity Fund	eBay Inc.			Equity	28,473	1,853,877	0.128%
JNLDOFA U.S. Core Equity Fund	WESCO International, Inc.			Equity	3,962	365,537	0.046%
JNLDOFA U.S. Core Equity Fund	Arthur J. Gallagher & Co.			Equity	3,668	1,032,065	0.071%
JNLDOFA U.S. Core Equity Fund	Genuine Parts Company			Equity	6,177	868,980	0.060%
JNLDOFA U.S. Core Equity Fund	Neinet, Inc.			Equity	2,626	297,473	0.020%
JNLDOFA U.S. Core Equity Fund	Columbus McKinnon Corporation			Equity	2,402	86,472	0.006%
JNLDOFA U.S. Core Equity Fund	Federal Agricultural Mortgage Corporation			Equity	900	168,669	0.012%
JNLDOFA U.S. Core Equity Fund	Helen of Troy Limited			Equity	1,858	114,917	0.008%
JNLDOFA U.S. Core Equity Fund	Covenant Logistics Group, Inc.			Equity	2,234	118,045	0.008%
JNLDOFA U.S. Core Equity Fund	CorVel Corporation			Equity	1,167	381,481	0.026%
JNLDOFA U.S. Core Equity Fund	The Andersons, Inc.			Equity	3,245	1,092,704	0.074%
JNLDOFA U.S. Core Equity Fund	Omnicom Group Inc.			Equity	11,930	1,241,794	0.085%
JNLDOFA U.S. Core Equity Fund	W. W. Grainger, Inc.			Equity	1,830	1,901,022	0.131%
JNLDOFA U.S. Core Equity Fund	Franklin Resources, Inc.			Equity	19,926	807,686	0.056%
JNLDOFA U.S. Core Equity Fund	Ecolab Inc.			Equity	3,960	1,013,364	0.070%
JNLDOFA U.S. Core Equity Fund	Unum Group			Equity	12,016	714,231	0.049%
JNLDOFA U.S. Core Equity Fund	Carpenter Technology Corporation			Equity	5,098	813,539	0.056%
JNLDOFA U.S. Core Equity Fund	EQT Corporation			Equity	28,657	1,049,992	0.072%
JNLDOFA U.S. Core Equity Fund	Independent Bank Corp.			Equity	3,305	197,329	0.014%
JNLDOFA U.S. Core Equity Fund	Cal-Maine Foods, Inc.			Equity	4,520	338,277	0.023%
JNLDOFA U.S. Core Equity Fund	Fulton Financial Corporation			Equity	15,406	279,311	0.019%
JNLDOFA U.S. Core Equity Fund	H.B. Fuller Company			Equity	4,162	330,380	0.023%
JNLDOFA U.S. Core Equity Fund	Humana Inc.			Equity	2,896	291,254	0.019%
JNLDOFA U.S. Core Equity Fund	Fiserv, Inc.			Equity	10,405	1,869,258	0.129%
JNLDOFA U.S. Core Equity Fund	NextEra Energy, Inc.			Equity	35,304	2,984,247	0.205%
JNLDOFA U.S. Core Equity Fund	Granite Construction Incorporated			Equity	5,227	415,076	0.029%
JNLDOFA U.S. Core Equity Fund	DACORP, Inc.			Equity	2,828	291,539	0.019%
JNLDOFA U.S. Core Equity Fund	Republic Bancorp., Inc.			Equity	1,812	119,061	0.008%
JNLDOFA U.S. Core Equity Fund	B.J.'s Restaurants, Inc.			Equity	1,893	61,636	0.004%
JNLDOFA U.S. Core Equity Fund	Chemed Corporation			Equity	870	522,844	0.036%
JNLDOFA U.S. Core Equity Fund	Central Pacific Financial Corp.			Equity	3,707	109,394	0.008%
JNLDOFA U.S. Core Equity Fund	The Hershey Company			Equity	4,211	807,586	0.056%
JNLDOFA U.S. Core Equity Fund	Exon Mobil Corporation			Equity	107,887	12,646,514	0.870%
JNLDOFA U.S. Core Equity Fund	First Citizens BancShares, Inc.			Equity	629	1,157,958	0.080%
JNLDOFA U.S. Core Equity Fund	Innospec Inc.			Equity	2,158	244,048	0.017%
JNLDOFA U.S. Core Equity Fund	Haemonetics Corporation			Equity	3,486	280,205	0.019%
JNLDOFA U.S. Core Equity Fund	Electronic Arts Inc.			Equity	8,062	1,156,413	0.080%
JNLDOFA U.S. Core Equity Fund	Winn-Dixie Financial Corporation			Equity	4,152	450,617	0.031%
JNLDOFA U.S. Core Equity Fund	First Commonwealth Financial Corporation			Equity	8,482	145,466	0.010%
JNLDOFA U.S. Core Equity Fund	Radian Group Inc.			Equity	14,515	1,051,525	0.075%
JNLDOFA U.S. Core Equity Fund	Helmerich & Payne, Inc.			Equity	8,191	249,170	0.017%
JNLDOFA U.S. Core Equity Fund	Cardinal Health, Inc.			Equity	6,100	674,172	0.046%
JNLDOFA U.S. Core Equity Fund	CTS Corporation			Equity	3,363	162,836	0.011%
JNLDOFA U.S. Core Equity Fund	Molina Healthcare, Inc.			Equity	2,443	941,760	0.068%
JNLDOFA U.S. Core Equity Fund	Investors Title Company			Equity	100	22,980	0.002%
JNLDOFA U.S. Core Equity Fund	Cadence Design Systems, Inc.			Equity	5,615	1,521,833	0.105%
JNLDOFA U.S. Core Equity Fund	CSX Corporation			Equity	53,627	1,861,740	0.127%
JNLDOFA U.S. Core Equity Fund	Frequency Electronics, Inc.			Equity	1,000	12,080	0.001%
JNLDOFA U.S. Core Equity Fund	Euronet Worldwide, Inc.			Equity	2,208	219,100	0.015%
JNLDOFA U.S. Core Equity Fund	Gulf Island Fabrication, Inc.			Equity	900	5,076	0.000%
JNLDOFA U.S. Core Equity Fund	Ennis, Inc.			Equity	3,232	78,602	0.005%
JNLDOFA U.S. Core Equity Fund	Great Southern Bancorp., Inc.			Equity	1,824	105,263	0.007%
JNLDOFA U.S. Core Equity Fund	Republic Services, Inc.			Equity	7,083	1,422,550	0.098%
JNLDOFA U.S. Core Equity Fund	Coca-Cola Consolidated, Inc.			Equity	757	996,515	0.069%
JNLDOFA U.S. Core Equity Fund	Greif, Inc.			Equity	3,122	197,310	0.014%
JNLDOFA U.S. Core Equity Fund	Oxure Technologies, Inc.			Equity	4,152	17,729	0.001%
JNLDOFA U.S. Core Equity Fund	MKS Instruments, Inc.			Equity	1,236	350,686	0.024%
JNLDOFA U.S. Core Equity Fund	Conagra Brands, Inc.			Equity	17,662	574,368	0.040%
JNLDOFA U.S. Core Equity Fund	Hancock Whitney Corporation			Equity	5,662	289,725	0.020%
JNLDOFA U.S. Core Equity Fund	Colgate-Palmolive Company			Equity	15,889	1,649,437	0.114%
JNLDOFA U.S. Core Equity Fund	Jabil Inc.			Equity	9,636	1,154,882	0.079%
JNLDOFA U.S. Core Equity Fund	Integra LifeSciences Holdings Corporation			Equity	5,136	93,321	0.006%
JNLDOFA U.S. Core Equity Fund	Gartner, Inc.			Equity	2,845	1,441,732	0.099%
JNLDOFA U.S. Core Equity Fund	ESCO Technologies Inc.			Equity	1,946	250,995	0.017%
JNLDOFA U.S. Core Equity Fund	Aresian Resources Corporation			Equity	933	34,889	0.002%
JNLDOFA U.S. Core Equity Fund	DTE Energy Company			Equity	5,366	694,521	0.048%
JNLDOFA U.S. Core Equity Fund	Coca-Cola Company, The			Equity	87,625	6,340,974	0.438%
JNLDOFA U.S. Core Equity Fund	Revelty, Inc.			Equity	8,897	497,842	0.034%
JNLDOFA U.S. Core Equity Fund	Huntington Bancshares Incorporated			Equity	48,896	726,350	0.050%
JNLDOFA U.S. Core Equity Fund	First Bancorp.			Equity	15,357	325,108	0.022%
JNLDOFA U.S. Core Equity Fund	CSG Systems International, Inc.			Equity	3,376	164,242	0.011%
JNLDOFA U.S. Core Equity Fund	Flowersee Corporation			Equity	8,914	462,637	0.032%
JNLDOFA U.S. Core Equity Fund	Dover Corporation			Equity	9,135	984,585	0.068%
JNLDOFA U.S. Core Equity Fund	United Therapeutics Corporation			Equity	2,186	783,353	0.054%
JNLDOFA U.S. Core Equity Fund	Emerson Electric Co.			Equity	9,265	1,013,313	0.070%
JNLDOFA U.S. Core Equity Fund	Kom Ferry			Equity	5,211	394,004	0.027%
JNLDOFA U.S. Core Equity Fund	Halliburton Energy Company			Equity	3,100	29,233	0.002%
JNLDOFA U.S. Core Equity Fund	Carlisle Companies Incorporated			Equity	2,535	1,140,116	0.078%
JNLDOFA U.S. Core Equity Fund	Dine Brands Global, Inc.			Equity	1,250	39,675	0.003%
JNLDOFA U.S. Core Equity Fund	Gap, Inc., The			Equity	29,896	659,207	0.045%
JNLDOFA U.S. Core Equity Fund	J.B. Hunt Transport Services, Inc.			Equity	5,897	1,016,230	0.070%
JNLDOFA U.S. Core Equity Fund	Greif, Inc.			Equity	1,046	73,889	0.005%
JNLDOFA U.S. Core Equity Fund	Jack Henry & Associates, Inc.			Equity	2,896	511,260	0.035%
JNLDOFA U.S. Core Equity Fund	Cathay General Bancorp			Equity	6,714	288,366	0.020%
JNLDOFA U.S. Core Equity Fund	Jack in the Box Inc.			Equity	3,364	63,481	0.004%
JNLDOFA U.S. Core Equity Fund	Darling Ingredients Inc.			Equity	10,356	584,929	0.040%
JNLDOFA U.S. Core Equity Fund	Topgolf Callaway Brands Corp.			Equity	13,753	151,008	0.010%
JNLDOFA U.S. Core Equity Fund	FS, Inc.			Equity	2,693	592,999	0.041%
JNLDOFA U.S. Core Equity Fund	Glacier Bancorp, Inc.			Equity	6,333	289,421	0.020%
JNLDOFA U.S. Core Equity Fund	International Paper Company			Equity	15,041	734,753	0.051%
JNLDOFA U.S. Core Equity Fund	Cabot Corporation			Equity	4,076	455,575	0.031%
JNLDOFA U.S. Core Equity Fund	Comerica Incorporated			Equity	9,431	571,707	0.039%
JNLDOFA U.S. Core Equity Fund	Cincinnati Financial Corporation			Equity	6,151	842,256	0.058%
JNLDOFA U.S. Core Equity Fund	Churchill Downs Incorporated			Equity	4,140	659,769	0.046%
JNLDOFA U.S. Core Equity Fund	Cintas Corporation			Equity	9,396	1,934,448	0.133%
JNLDOFA U.S. Core Equity Fund	Corning Incorporated			Equity	31,391	1,417,304	0.098%
JNLDOFA U.S. Core Equity Fund	Dycem Industries, Inc.			Equity	2,284	450,176	0.031%
JNLDOFA U.S. Core Equity Fund	Macy's, Inc.			Equity	29,190	463,061	0.032%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Citigroup Inc.			Equity	42,790	2,678,654	0.184%
JNLDOFA U.S. Core Equity Fund	Henry Schein, Inc.			Equity	6,585	407,147	0.028%
JNLDOFA U.S. Core Equity Fund	Morgan Stanley			Equity	28,556	2,976,660	0.205%
JNLDOFA U.S. Core Equity Fund	Bank of America Corporation			Equity	122,711	4,869,172	0.335%
JNLDOFA U.S. Core Equity Fund	The St. Joe Company			Equity	4,880	284,553	0.020%
JNLDOFA U.S. Core Equity Fund	Roper Technologies, Inc.			Equity	1,812	1,008,269	0.069%
JNLDOFA U.S. Core Equity Fund	Marine Products Corporation			Equity	1,730	16,744	0.001%
JNLDOFA U.S. Core Equity Fund	The Hain Celestial Group, Inc.			Equity	6,178	53,316	0.004%
JNLDOFA U.S. Core Equity Fund	Carnival Corporation			Equity	35,197	650,441	0.045%
JNLDOFA U.S. Core Equity Fund	Hudson Technologies, Inc.			Equity	8,300	69,222	0.005%
JNLDOFA U.S. Core Equity Fund	TTM Technologies, Inc.			Equity	9,398	196,514	0.012%
JNLDOFA U.S. Core Equity Fund	RPM International Inc.			Equity	4,991	603,911	0.042%
JNLDOFA U.S. Core Equity Fund	Range Resources Corporation			Equity	16,309	501,665	0.035%
JNLDOFA U.S. Core Equity Fund	Neurocrine Biosciences, Inc.			Equity	2,875	831,258	0.023%
JNLDOFA U.S. Core Equity Fund	Entegris, Inc.			Equity	4,665	524,784	0.036%
JNLDOFA U.S. Core Equity Fund	Packaging Corporation of America			Equity	6,149	1,332,181	0.092%
JNLDOFA U.S. Core Equity Fund	Otter Tail Corporation			Equity	2,233	174,531	0.012%
JNLDOFA U.S. Core Equity Fund	Ross Stores, Inc.			Equity	10,182	1,532,493	0.105%
JNLDOFA U.S. Core Equity Fund	Intexac, Inc.			Equity	1,000	3,400	0.000%
JNLDOFA U.S. Core Equity Fund	Minerals Technologies Inc.			Equity	3,211	247,996	0.017%
JNLDOFA U.S. Core Equity Fund	BlackRock, Inc.			Equity	2,327	2,209,510	0.152%
JNLDOFA U.S. Core Equity Fund	NSSource Inc.			Equity	15,070	522,176	0.036%
JNLDOFA U.S. Core Equity Fund	Masco Corporation			Equity	7,458	636,025	0.043%
JNLDOFA U.S. Core Equity Fund	Patrick Industries, Inc.			Equity	2,097	298,550	0.021%
JNLDOFA U.S. Core Equity Fund	Leggett & Platt, Incorporated			Equity	12,012	164,204	0.011%
JNLDOFA U.S. Core Equity Fund	Trex Company, Inc.			Equity	6,718	447,284	0.031%
JNLDOFA U.S. Core Equity Fund	Eagle Bancorp, Inc.			Equity	3,579	80,814	0.006%
JNLDOFA U.S. Core Equity Fund	Community Trust Bancorp, Inc.			Equity	2,067	103,619	0.007%
JNLDOFA U.S. Core Equity Fund	AutoNation, Inc.			Equity	4,849	867,583	0.060%
JNLDOFA U.S. Core Equity Fund	Charles River Laboratories International, Inc.			Equity	2,142	421,910	0.029%
JNLDOFA U.S. Core Equity Fund	MetLife, Inc.			Equity	18,905	1,559,284	0.107%
JNLDOFA U.S. Core Equity Fund	Paychex, Inc.			Equity	8,387	1,125,455	0.077%
JNLDOFA U.S. Core Equity Fund	IMAX Corporation			Equity	6,269	126,577	0.009%
JNLDOFA U.S. Core Equity Fund	Mesa Laboratories, Inc.			Equity	262	34,023	0.002%
JNLDOFA U.S. Core Equity Fund	Lithiuse, Inc.			Equity	1,707	452,782	0.031%
JNLDOFA U.S. Core Equity Fund	XCEL Energy Inc.			Equity	14,524	956,362	0.066%
JNLDOFA U.S. Core Equity Fund	Podi Corporation			Equity	1,385	521,868	0.036%
JNLDOFA U.S. Core Equity Fund	Myriad Genetics, Inc.			Equity	5,670	155,301	0.011%
JNLDOFA U.S. Core Equity Fund	Olin Corporation			Equity	12,530	601,189	0.041%
JNLDOFA U.S. Core Equity Fund	Kulicke and Soffa Industries, Inc.			Equity	4,494	203,713	0.014%
JNLDOFA U.S. Core Equity Fund	RLJ Corp.			Equity	2,515	389,775	0.027%
JNLDOFA U.S. Core Equity Fund	Lakeland Financial Corporation			Equity	1,758	114,481	0.008%
JNLDOFA U.S. Core Equity Fund	Nucor Corporation			Equity	11,934	1,800,602	0.124%
JNLDOFA U.S. Core Equity Fund	U.S. Bancorp			Equity	36,311	1,678,658	0.116%
JNLDOFA U.S. Core Equity Fund	Brinker Corporation			Equity	6,294	434,664	0.030%
JNLDOFA U.S. Core Equity Fund	Royal Caribbean Cruises Ltd.			Equity	8,108	1,441,278	0.099%
JNLDOFA U.S. Core Equity Fund	Dorman Products, Inc.			Equity	2,285	258,479	0.018%
JNLDOFA U.S. Core Equity Fund	Lakeland Industries, Inc.			Equity	128	1,573	0.000%
JNLDOFA U.S. Core Equity Fund	Plug Power Inc.			Equity	23,590	53,313	0.004%
JNLDOFA U.S. Core Equity Fund	WisdomTree, Inc.			Equity	17,288	172,707	0.012%
JNLDOFA U.S. Core Equity Fund	Brink's Company, The			Equity	2,799	323,676	0.022%
JNLDOFA U.S. Core Equity Fund	Richardson Electronics, Ltd.			Equity	600	7,404	0.000%
JNLDOFA U.S. Core Equity Fund	Costco Wholesale Corporation			Equity	8,796	7,797,830	0.537%
JNLDOFA U.S. Core Equity Fund	Southern First Bancshares, Inc.			Equity	1,200	40,896	0.003%
JNLDOFA U.S. Core Equity Fund	Lithia Motors, Inc.			Equity	2,256	716,596	0.049%
JNLDOFA U.S. Core Equity Fund	Lu2-Buy Incorporated			Equity	2,624	112,648	0.008%
JNLDOFA U.S. Core Equity Fund	L. Rowe Price Group, Inc.			Equity	5,653	946,928	0.065%
JNLDOFA U.S. Core Equity Fund	Southside Bancshares, Inc.			Equity	3,897	130,277	0.009%
JNLDOFA U.S. Core Equity Fund	Rambus Inc.			Equity	5,315	224,399	0.015%
JNLDOFA U.S. Core Equity Fund	Marm Service Company			Equity	3,239	37,346	0.003%
JNLDOFA U.S. Core Equity Fund	Penns Woods Bancorp, Inc.			Equity	335	7,016	0.001%
JNLDOFA U.S. Core Equity Fund	Powell Industries, Inc.			Equity	1,064	236,197	0.016%
JNLDOFA U.S. Core Equity Fund	Travelers Companies, Inc., The			Equity	12,284	2,875,930	0.198%
JNLDOFA U.S. Core Equity Fund	Healthstream, Inc.			Equity	2,128	61,372	0.004%
JNLDOFA U.S. Core Equity Fund	Schlumberger Limited			Equity	31,462	1,320,705	0.092%
JNLDOFA U.S. Core Equity Fund	LSB Industries, Inc.			Equity	3,510	28,220	0.002%
JNLDOFA U.S. Core Equity Fund	Incyte Corporation			Equity	6,215	410,812	0.028%
JNLDOFA U.S. Core Equity Fund	NBT Bancorp Inc.			Equity	4,525	200,141	0.014%
JNLDOFA U.S. Core Equity Fund	Johnson & Johnson			Equity	59,456	9,635,439	0.663%
JNLDOFA U.S. Core Equity Fund	Natural Health Trends Corp.			Equity	155	922	0.000%
JNLDOFA U.S. Core Equity Fund	Reliance, Inc.			Equity	2,521	729,098	0.050%
JNLDOFA U.S. Core Equity Fund	CBIZ, Inc.			Equity	4,019	270,439	0.019%
JNLDOFA U.S. Core Equity Fund	Marcus Corporation, The			Equity	3,418	51,599	0.004%
JNLDOFA U.S. Core Equity Fund	Royal Gold, Inc.			Equity	2,402	337,001	0.023%
JNLDOFA U.S. Core Equity Fund	KVH Industries, Inc.			Equity	1,515	7,317	0.001%
JNLDOFA U.S. Core Equity Fund	Silicon Laboratories Inc.			Equity	1,742	201,323	0.014%
JNLDOFA U.S. Core Equity Fund	TXNM Energy, Inc.			Equity	4,312	198,736	0.013%
JNLDOFA U.S. Core Equity Fund	Summadocs, Inc.			Equity	1,427	55,339	0.004%
JNLDOFA U.S. Core Equity Fund	Kohl's Corporation			Equity	9,896	208,806	0.014%
JNLDOFA U.S. Core Equity Fund	Oxford Industries, Inc.			Equity	1,438	124,761	0.009%
JNLDOFA U.S. Core Equity Fund	McCormick & Company, Incorporated			Equity	6,628	645,484	0.045%
JNLDOFA U.S. Core Equity Fund	Lam Research Corporation			Equity	3,487	2,853,808	0.196%
JNLDOFA U.S. Core Equity Fund	Global Payments Inc.			Equity	9,279	950,355	0.065%
JNLDOFA U.S. Core Equity Fund	Landstar System, Inc.			Equity	2,105	397,571	0.027%
JNLDOFA U.S. Core Equity Fund	Reading International, Inc.			Equity	1,810	2,950	0.000%
JNLDOFA U.S. Core Equity Fund	NJA Corporation			Equity	3,880	3,004,711	0.207%
JNLDOFA U.S. Core Equity Fund	OGE Energy Corp.			Equity	10,108	414,630	0.029%
JNLDOFA U.S. Core Equity Fund	MGE Energy, Inc.			Equity	2,620	239,599	0.016%
JNLDOFA U.S. Core Equity Fund	NACCO Industries, Inc.			Equity	900	14,175	0.001%
JNLDOFA U.S. Core Equity Fund	Lancaster Colony Corporation			Equity	1,371	23,077	0.001%
JNLDOFA U.S. Core Equity Fund	Peapacksystems Inc.			Equity	2,013	147,130	0.010%
JNLDOFA U.S. Core Equity Fund	Lockheed Martin Corporation			Equity	6,568	3,839,390	0.264%
JNLDOFA U.S. Core Equity Fund	KeyCorp			Equity	29,589	495,616	0.034%
JNLDOFA U.S. Core Equity Fund	NetScout, Inc.			Equity	6,989	9,211	0.001%
JNLDOFA U.S. Core Equity Fund	Key Tronic Corporation			Equity	400	2,288	0.000%
JNLDOFA U.S. Core Equity Fund	Lennar Corporation			Equity	7,918	1,484,467	0.102%
JNLDOFA U.S. Core Equity Fund	PulteGroup, Inc.			Equity	14,534	2,089,023	0.144%
JNLDOFA U.S. Core Equity Fund	Raymond James Financial, Inc.			Equity	8,344	1,021,868	0.070%
JNLDOFA U.S. Core Equity Fund	Sierra Bancorp			Equity	1,462	42,223	0.003%
JNLDOFA U.S. Core Equity Fund	Exelon Corporation			Equity	19,962	809,459	0.056%
JNLDOFA U.S. Core Equity Fund	National Bankshares, Inc.			Equity	66	1,973	0.000%
JNLDOFA U.S. Core Equity Fund	Agilysys, Inc.			Equity	456	49,680	0.003%
JNLDOFA U.S. Core Equity Fund	Plexus Corp.			Equity	2,728	372,945	0.026%
JNLDOFA U.S. Core Equity Fund	ManpowerGroup Inc.			Equity	3,658	268,936	0.019%
JNLDOFA U.S. Core Equity Fund	Oshkosh Corporation			Equity	4,556	456,557	0.031%
JNLDOFA U.S. Core Equity Fund	Owens & Minor, Inc.			Equity	6,846	107,414	0.007%
JNLDOFA U.S. Core Equity Fund	Oil-Dri Corporation of America			Equity	401	27,665	0.002%
JNLDOFA U.S. Core Equity Fund	LSI Industries Inc.			Equity	1,164	18,799	0.001%
JNLDOFA U.S. Core Equity Fund	Upbound Group, Inc.			Equity	5,568	178,120	0.012%
JNLDOFA U.S. Core Equity Fund	Magnolia Oil & Gas Corporation			Equity	15,436	176,847	0.012%
JNLDOFA U.S. Core Equity Fund	Arch Capital Group Ltd.			Equity	12,719	1,423,002	0.098%
JNLDOFA U.S. Core Equity Fund	Merck & Co., Inc.			Equity	39,665	4,533,541	0.312%
JNLDOFA U.S. Core Equity Fund	IDT Corporation			Equity	2,780	106,252	0.007%
JNLDOFA U.S. Core Equity Fund	Exelixis, Inc.			Equity	21,054	546,351	0.038%
JNLDOFA U.S. Core Equity Fund	ATI, Inc.			Equity	7,791	571,296	0.039%
JNLDOFA U.S. Core Equity Fund	Univest Financial Corporation			Equity	3,028	85,208	0.006%
JNLDOFA U.S. Core Equity Fund	Pinnacle Financial Partners, Inc.			Equity	4,753	465,651	0.032%
JNLDOFA U.S. Core Equity Fund	Harvard Bioscience, Inc.			Equity	1,616	4,347	0.000%
JNLDOFA U.S. Core Equity Fund	Ment Medical Systems, Inc.			Equity	3,550	350,847	0.024%
JNLDOFA U.S. Core Equity Fund	Modine Manufacturing Company			Equity	4,444	590,119	0.041%
JNLDOFA U.S. Core Equity Fund	SM Energy Company			Equity	13,334	532,960	0.037%
JNLDOFA U.S. Core Equity Fund	OCR Holdings, Inc.			Equity	974	72,164	0.005%
JNLDOFA U.S. Core Equity Fund	Inmed Incorporated			Equity	4,263	311,199	0.021%
JNLDOFA U.S. Core Equity Fund	NETGEAR, Inc.			Equity	3,321	66,619	0.005%
JNLDOFA U.S. Core Equity Fund	NN, Inc.			Equity	2,908	11,341	0.001%
JNLDOFA U.S. Core Equity Fund	ProAssurance Corporation			Equity	6,064	91,203	0.006%
JNLDOFA U.S. Core Equity Fund	Monarch Casino & Resort, Inc.			Equity	700	56,480	0.004%
JNLDOFA U.S. Core Equity Fund	Core Molding Technologies, Inc.			Equity	800	13,768	0.001%
JNLDOFA U.S. Core Equity Fund	Peoples Bancorp Inc.			Equity	2,097	63,099	0.004%
JNLDOFA U.S. Core Equity Fund	Community Health Systems, Inc.			Equity	11,755	71,353	0.005%
JNLDOFA U.S. Core Equity Fund	Bay Harbor Bankshares			Equity	1,318	40,647	0.003%
JNLDOFA U.S. Core Equity Fund	Moxado Group, Inc.			Equity	1,100	20,460	0.001%
JNLDOFA U.S. Core Equity Fund	On Semiconductor Corporation			Equity	17,797	1,292,240	0.089%
JNLDOFA U.S. Core Equity Fund	Berkshire Hills Bancorp, Inc.			Equity	6,443	174,670	0.012%
JNLDOFA U.S. Core Equity Fund	Occidental Petroleum Corporation			Equity	28,729	1,487,013	0.102%
JNLDOFA U.S. Core Equity Fund	OVS Health Corporation			Equity	31,737	1,995,823	0.137%
JNLDOFA U.S. Core Equity Fund	Olympic Steel, Inc.			Equity	1,052	41,028	0.003%
JNLDOFA U.S. Core Equity Fund	EMCOR Group, Inc.			Equity	2,935	1,263,606	0.087%
JNLDOFA U.S. Core Equity Fund	Lennar Corporation			Equity	1,055	182,452	0.013%
JNLDOFA U.S. Core Equity Fund	Pfizer, Inc.			Equity	5,803	6,366	0.000%
JNLDOFA U.S. Core Equity Fund	McDonald's Corporation			Equity	14,611	4,449,196	0.306%
JNLDOFA U.S. Core Equity Fund	Heritage Commerce Corp			Equity	4,554	44,994	0.003%
JNLDOFA U.S. Core Equity Fund	Public Service Enterprise Group Incorporated			Equity	13,030	1,162,405	0.080%
JNLDOFA U.S. Core Equity Fund	Bread Financial Payments, Inc.			Equity	4,704	223,816	0.015%
JNLDOFA U.S. Core Equity Fund	Zimmer Biomet Holdings, Inc.			Equity	6,912	747,809	0.051%
JNLDOFA U.S. Core Equity Fund	Oracle Corporation			Equity	35,724	6,087,370	0.419%
JNLDOFA U.S. Core Equity Fund	New Jersey Resources Corporation			Equity	8,342	397,496	0.027%
JNLDOFA U.S. Core Equity Fund	Mercury General Corporation			Equity	4,776	300,782	0.021%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Loews Corporation			Equity	8,446	667,656	0.046%
JNLDOFA U.S. Core Equity Fund	MGIC Investment Corporation			Equity	20,605	527,486	0.036%
JNLDOFA U.S. Core Equity Fund	United Parcel Service, Inc.			Equity	21,789	2,970,712	0.204%
JNLDOFA U.S. Core Equity Fund	The New York Times Company			Equity	11,696	651,116	0.045%
JNLDOFA U.S. Core Equity Fund	Aqlient Technologies, Inc.			Equity	7,192	1,067,868	0.073%
JNLDOFA U.S. Core Equity Fund	Qualcomm Incorporated			Equity	24,514	4,168,606	0.287%
JNLDOFA U.S. Core Equity Fund	Marsh & McLennan Companies, Inc.			Equity	12,456	2,178,808	0.151%
JNLDOFA U.S. Core Equity Fund	Kellanova			Equity	15,873	1,281,110	0.088%
JNLDOFA U.S. Core Equity Fund	Hartford Financial Services Group, Inc. , The			Equity	19,272	2,275,638	0.157%
JNLDOFA U.S. Core Equity Fund	The PNC Financial Services Group, Inc.			Equity	9,554	1,766,057	0.122%
JNLDOFA U.S. Core Equity Fund	Flowers Foods, Inc.			Equity	13,279	1,306,347	0.091%
JNLDOFA U.S. Core Equity Fund	PepsiCo, Inc.			Equity	29,693	5,049,295	0.348%
JNLDOFA U.S. Core Equity Fund	Mohawk Industries, Inc.			Equity	2,664	428,052	0.029%
JNLDOFA U.S. Core Equity Fund	Quaker Chemical Corporation			Equity	1,014	170,849	0.012%
JNLDOFA U.S. Core Equity Fund	Quest Diagnostics Incorporated			Equity	4,414	665,274	0.047%
JNLDOFA U.S. Core Equity Fund	PACCAR Inc			Equity	14,812	1,461,648	0.101%
JNLDOFA U.S. Core Equity Fund	Fluor Corporation			Equity	7,729	368,751	0.025%
JNLDOFA U.S. Core Equity Fund	Gencor Industries, Inc.			Equity	540	11,264	0.001%
JNLDOFA U.S. Core Equity Fund	McGrath RentCorp			Equity	2,117	222,878	0.015%
JNLDOFA U.S. Core Equity Fund	Fidelity National Information Services, Inc.			Equity	14,837	1,242,599	0.086%
JNLDOFA U.S. Core Equity Fund	Hooker Furnishings Corporation			Equity	1,347	24,354	0.002%
JNLDOFA U.S. Core Equity Fund	Murphy Oil Corporation			Equity	12,011	405,251	0.028%
JNLDOFA U.S. Core Equity Fund	Nathan's Famous, Inc.			Equity	600	49,540	0.003%
JNLDOFA U.S. Core Equity Fund	Oil States International, Inc.			Equity	5,868	26,993	0.002%
JNLDOFA U.S. Core Equity Fund	Newmont Corporation			Equity	26,422	1,412,256	0.097%
JNLDOFA U.S. Core Equity Fund	Altria Group, Inc.			Equity	36,828	1,917,266	0.132%
JNLDOFA U.S. Core Equity Fund	B.J.'s Wholesale Club Holdings, Inc.			Equity	10,299	849,462	0.058%
JNLDOFA U.S. Core Equity Fund	Newpark Resources, Inc.			Equity	10,384	71,961	0.005%
JNLDOFA U.S. Core Equity Fund	Lattice Semiconductor Corporation			Equity	4,556	241,787	0.017%
JNLDOFA U.S. Core Equity Fund	National Fuel Gas Company			Equity	4,953	303,363	0.021%
JNLDOFA U.S. Core Equity Fund	Sangamo Therapeutics, Inc.			Equity	12,748	11,042	0.001%
JNLDOFA U.S. Core Equity Fund	Momo, Inc.			Equity	2,808	80,981	0.006%
JNLDOFA U.S. Core Equity Fund	Ryder System, Inc.			Equity	4,892	713,254	0.049%
JNLDOFA U.S. Core Equity Fund	Methode Electronics, Inc.			Equity	3,964	47,409	0.003%
JNLDOFA U.S. Core Equity Fund	PENNY Entertainment, Inc.			Equity	6,456	121,760	0.008%
JNLDOFA U.S. Core Equity Fund	Parker-Hannifin Corporation			Equity	2,760	1,349,044	0.094%
JNLDOFA U.S. Core Equity Fund	Inter Parfums, Inc.			Equity	2,221	287,575	0.020%
JNLDOFA U.S. Core Equity Fund	Pediatric Medical Group, Inc.			Equity	6,802	78,835	0.005%
JNLDOFA U.S. Core Equity Fund	MOOG Inc.			Equity	2,306	465,858	0.032%
JNLDOFA U.S. Core Equity Fund	S & T Bancorp, Inc.			Equity	3,871	120,461	0.011%
JNLDOFA U.S. Core Equity Fund	Bank of Marin Bancorp			Equity	1,710	34,354	0.002%
JNLDOFA U.S. Core Equity Fund	Kroger Co., The			Equity	52,675	3,018,278	0.208%
JNLDOFA U.S. Core Equity Fund	TrueBlue, Inc.			Equity	5,798	45,746	0.003%
JNLDOFA U.S. Core Equity Fund	ConocoPhillips			Equity	36,107	3,801,345	0.251%
JNLDOFA U.S. Core Equity Fund	Norfolk Southern Corporation			Equity	5,211	1,294,934	0.089%
JNLDOFA U.S. Core Equity Fund	Regeneron Pharmaceuticals, Inc.			Equity	1,995	2,097,224	0.144%
JNLDOFA U.S. Core Equity Fund	First Community Bancshares, Inc.			Equity	1,746	75,340	0.005%
JNLDOFA U.S. Core Equity Fund	PPL Corporation			Equity	18,793	638,512	0.043%
JNLDOFA U.S. Core Equity Fund	National Presto Industries, Inc.			Equity	622	46,737	0.003%
JNLDOFA U.S. Core Equity Fund	Nordson Corporation			Equity	1,476	387,642	0.027%
JNLDOFA U.S. Core Equity Fund	MGM Resorts International			Equity	8,987	351,302	0.024%
JNLDOFA U.S. Core Equity Fund	Rockwell Automation, Inc.			Equity	3,697	391,860	0.026%
JNLDOFA U.S. Core Equity Fund	Nordstrom, Inc.			Equity	12,080	271,679	0.019%
JNLDOFA U.S. Core Equity Fund	illumina, Inc.			Equity	3,996	521,118	0.036%
JNLDOFA U.S. Core Equity Fund	Stratus Properties Inc.			Equity	441	11,462	0.001%
JNLDOFA U.S. Core Equity Fund	Marin Materials, Inc.			Equity	2,280	1,227,210	0.084%
JNLDOFA U.S. Core Equity Fund	Distribution Solutions Group, Inc.			Equity	968	38,383	0.003%
JNLDOFA U.S. Core Equity Fund	Envision Communications Corporation			Equity	5,520	11,426	0.001%
JNLDOFA U.S. Core Equity Fund	Patterson Companies, Inc.			Equity	8,324	181,796	0.013%
JNLDOFA U.S. Core Equity Fund	Seaboard Corporation			Equity	36	112,832	0.008%
JNLDOFA U.S. Core Equity Fund	Kimberly-Clark Corporation			Equity	9,401	1,349,044	0.094%
JNLDOFA U.S. Core Equity Fund	Dominion Energy, Inc.			Equity	15,066	870,664	0.060%
JNLDOFA U.S. Core Equity Fund	Reinsurance Group of America, Incorporated			Equity	3,912	852,307	0.059%
JNLDOFA U.S. Core Equity Fund	Polaris Inc.			Equity	5,435	452,409	0.031%
JNLDOFA U.S. Core Equity Fund	Oceanenergy International, Inc.			Equity	9,302	120,341	0.016%
JNLDOFA U.S. Core Equity Fund	Southern Missouri Bancorp, Inc.			Equity	574	32,425	0.002%
JNLDOFA U.S. Core Equity Fund	Ellie Lilly and Company			Equity	17,266	15,296,649	1.053%
JNLDOFA U.S. Core Equity Fund	Edwards Lifesciences Corporation			Equity	11,659	769,377	0.053%
JNLDOFA U.S. Core Equity Fund	Steven Madden, Ltd.			Equity	6,343	62,142	0.004%
JNLDOFA U.S. Core Equity Fund	Renaissance Corporation			Equity	5,376	174,720	0.012%
JNLDOFA U.S. Core Equity Fund	Goldman Sachs Group, Inc., The			Equity	7,061	3,495,972	0.241%
JNLDOFA U.S. Core Equity Fund	Shenandoah Telecommunications Company			Equity	2,775	39,155	0.003%
JNLDOFA U.S. Core Equity Fund	Pfizer Inc.			Equity	117,864	3,410,864	0.236%
JNLDOFA U.S. Core Equity Fund	N L Industries, Inc.			Equity	900	6,687	0.000%
JNLDOFA U.S. Core Equity Fund	P.A.M. Transportation Services, Inc.			Equity	1,192	22,052	0.002%
JNLDOFA U.S. Core Equity Fund	Procter & Gamble Company, The			Equity	46,722	8,092,250	0.557%
JNLDOFA U.S. Core Equity Fund	Prefield Bank			Equity	1,597	128,159	0.009%
JNLDOFA U.S. Core Equity Fund	Harmonic, Inc.			Equity	10,391	151,397	0.010%
JNLDOFA U.S. Core Equity Fund	Kratos Defense & Security Solutions, Inc.			Equity	7,526	175,356	0.012%
JNLDOFA U.S. Core Equity Fund	Neogenomics, Inc.			Equity	10,214	150,657	0.010%
JNLDOFA U.S. Core Equity Fund	National Beverage Corp.			Equity	4,392	206,160	0.014%
JNLDOFA U.S. Core Equity Fund	Astronics Corporation			Equity	1,485	29,189	0.002%
JNLDOFA U.S. Core Equity Fund	Heritage Financial Corporation			Equity	4,202	91,478	0.006%
JNLDOFA U.S. Core Equity Fund	RenaissanceRe Holdings Ltd			Equity	2,556	696,254	0.048%
JNLDOFA U.S. Core Equity Fund	German American Bancorp, Inc.			Equity	2,732	105,865	0.007%
JNLDOFA U.S. Core Equity Fund	Johnson Outdoors, Inc.			Equity	961	34,478	0.002%
JNLDOFA U.S. Core Equity Fund	Charles Schwab Corporation, The			Equity	33,720	2,185,395	0.150%
JNLDOFA U.S. Core Equity Fund	Photronics, Inc.			Equity	7,020	173,815	0.012%
JNLDOFA U.S. Core Equity Fund	United States Lime & Minerals, Inc.			Equity	2,500	244,450	0.017%
JNLDOFA U.S. Core Equity Fund	Mattel, Inc.			Equity	22,924	2,536,702	0.173%
JNLDOFA U.S. Core Equity Fund	NVR, Inc.			Equity	190	1,864,242	0.128%
JNLDOFA U.S. Core Equity Fund	Kadant Inc.			Equity	683	230,854	0.016%
JNLDOFA U.S. Core Equity Fund	Rocky Brands, Inc.			Equity	608	19,371	0.001%
JNLDOFA U.S. Core Equity Fund	Resources Connection, Inc.			Equity	4,393	42,612	0.003%
JNLDOFA U.S. Core Equity Fund	Donagel Group Inc.			Equity	1,597	23,540	0.002%
JNLDOFA U.S. Core Equity Fund	Northern Bancorp, Inc.			Equity	400	28,488	0.002%
JNLDOFA U.S. Core Equity Fund	Nu Skin Enterprises, Inc.			Equity	4,719	34,779	0.002%
JNLDOFA U.S. Core Equity Fund	Schleicher Corporation			Equity	3,498	111,971	0.008%
JNLDOFA U.S. Core Equity Fund	Microchip Technology Incorporated			Equity	15,861	1,273,480	0.088%
JNLDOFA U.S. Core Equity Fund	Independent Bank Corporation			Equity	2,505	83,542	0.006%
JNLDOFA U.S. Core Equity Fund	MDU Resources Group, Inc.			Equity	15,697	432,295	0.030%
JNLDOFA U.S. Core Equity Fund	Park National Corporation			Equity	1,411	137,680	0.010%
JNLDOFA U.S. Core Equity Fund	Old Dominion Freight Line, Inc.			Equity	4,950	983,268	0.068%
JNLDOFA U.S. Core Equity Fund	Brown & Brown, Inc.			Equity	10,875	1,126,650	0.078%
JNLDOFA U.S. Core Equity Fund	Microsoft Corporation			Equity	151,420	65,156,026	4.485%
JNLDOFA U.S. Core Equity Fund	Lifetime Brands, Inc.			Equity	1,110	12,299	0.000%
JNLDOFA U.S. Core Equity Fund	NCR Voyix Corporation			Equity	9,988	135,673	0.009%
JNLDOFA U.S. Core Equity Fund	Progress Software Corporation			Equity	2,426	163,440	0.011%
JNLDOFA U.S. Core Equity Fund	Micron Technology, Inc.			Equity	20,252	2,100,335	0.145%
JNLDOFA U.S. Core Equity Fund	Alkermes Pharmaceuticals, Inc.			Equity	5,649	570,267	0.039%
JNLDOFA U.S. Core Equity Fund	MSC Industrial Direct Co., Inc.			Equity	4,026	346,478	0.024%
JNLDOFA U.S. Core Equity Fund	3M Company			Equity	10,719	1,465,287	0.101%
JNLDOFA U.S. Core Equity Fund	Pacific Premier Bancorp, Inc.			Equity	8,664	217,986	0.015%
JNLDOFA U.S. Core Equity Fund	East West Bancorp, Inc.			Equity	11,331	937,527	0.065%
JNLDOFA U.S. Core Equity Fund	PG&E Corporation			Equity	49,928	987,576	0.068%
JNLDOFA U.S. Core Equity Fund	ePlus Inc.			Equity	1,976	194,320	0.013%
JNLDOFA U.S. Core Equity Fund	Kforce Inc.			Equity	2,683	164,870	0.011%
JNLDOFA U.S. Core Equity Fund	MATV Holdings, Inc.			Equity	5,055	85,884	0.006%
JNLDOFA U.S. Core Equity Fund	Old National Bancorp			Equity	26,299	490,129	0.034%
JNLDOFA U.S. Core Equity Fund	Ligand Pharmaceuticals Incorporated			Equity	1,251	125,213	0.009%
JNLDOFA U.S. Core Equity Fund	Louisiana-Pacific Corporation (W VA)			Equity	5,025	539,987	0.037%
JNLDOFA U.S. Core Equity Fund	Everest Group, Ltd.			Equity	1,504	589,512	0.041%
JNLDOFA U.S. Core Equity Fund	Nature's Sunshine Products, Inc.			Equity	758	10,224	0.001%
JNLDOFA U.S. Core Equity Fund	IPG Photonics Corporation			Equity	3,040	225,933	0.016%
JNLDOFA U.S. Core Equity Fund	Newell Brands Inc.			Equity	19,480	149,606	0.010%
JNLDOFA U.S. Core Equity Fund	Old Second Bancorp, Inc.			Equity	707	11,022	0.001%
JNLDOFA U.S. Core Equity Fund	Capital One Financial Corporation			Equity	9,667	1,447,440	0.100%
JNLDOFA U.S. Core Equity Fund	RPC, Inc.			Equity	12,558	79,869	0.005%
JNLDOFA U.S. Core Equity Fund	Northern Trust Corporation			Equity	6,778	615,307	0.042%
JNLDOFA U.S. Core Equity Fund	KB Home			Equity	7,173	614,654	0.042%
JNLDOFA U.S. Core Equity Fund	Seneca Foods Corporation			Equity	684	42,634	0.003%
JNLDOFA U.S. Core Equity Fund	Papa John's International, Inc.			Equity	2,116	113,989	0.008%
JNLDOFA U.S. Core Equity Fund	Financial Institutions, Inc.			Equity	1,908	49,169	0.003%
JNLDOFA U.S. Core Equity Fund	Devon Energy Corporation			Equity	41,753	1,633,377	0.112%
JNLDOFA U.S. Core Equity Fund	ScanSource, Inc.			Equity	3,833	184,099	0.013%
JNLDOFA U.S. Core Equity Fund	PDF Solutions, Inc.			Equity	2,379	75,387	0.005%
JNLDOFA U.S. Core Equity Fund	The Progressive Corporation			Equity	9,839	2,496,745	0.172%
JNLDOFA U.S. Core Equity Fund	Teledyne Technologies Incorporated			Equity	1,425	623,666	0.043%
JNLDOFA U.S. Core Equity Fund	Exact Sciences Corporation			Equity	6,643	452,521	0.031%
JNLDOFA U.S. Core Equity Fund	Shore Bancshares, Inc.			Equity	1,492	20,973	0.001%
JNLDOFA U.S. Core Equity Fund	Myers Industries, Inc.			Equity	2,106	29,389	0.002%
JNLDOFA U.S. Core Equity Fund	Lincoln National Corporation			Equity	7,053	222,240	0.015%
JNLDOFA U.S. Core Equity Fund	NKE, Inc.			Equity	27,696	2,458,574	0.169%
JNLDOFA U.S. Core Equity Fund	Regalgen Corporation			Equity	2,492	370,859	0.026%
JNLDOFA U.S. Core Equity Fund	Meniga Homes Corporation			Equity	2,363	484,580	0.033%
JNLDOFA U.S. Core Equity Fund	Mathews International Corporation			Equity	3,410	79,112	0.005%
JNLDOFA U.S. Core Equity Fund	AXIS Capital Holdings Limited			Equity	5,508	440,915	0.030%
JNLDOFA U.S. Core Equity Fund	Regal Reinvest Corporation			Equity	3,566	592,776	0.041%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDDFA U.S. Core Equity Fund	Vector Group Ltd.			Equity	10.995	164,045	0.011%
JNLDDFA U.S. Core Equity Fund	Trinet Group, Inc.			Equity	1,860	180,364	0.012%
JNLDDFA U.S. Core Equity Fund	Middlesex Water Company			Equity	1,543	100,665	0.007%
JNLDDFA U.S. Core Equity Fund	Newmark Group, Inc.			Equity	15,951	247,719	0.017%
JNLDDFA U.S. Core Equity Fund	Night, Inc.			Equity	2,015	21,540	0.001%
JNLDDFA U.S. Core Equity Fund	Origen Bancorp, Inc.			Equity	819	26,339	0.002%
JNLDDFA U.S. Core Equity Fund	Inspire Medical Systems, Inc.			Equity	280	59,094	0.004%
JNLDDFA U.S. Core Equity Fund	exp World Holdings, Inc.			Equity	2,200	30,998	0.002%
JNLDDFA U.S. Core Equity Fund	Columbia Financial, Inc.			Equity	5,566	95,012	0.007%
JNLDDFA U.S. Core Equity Fund	BrightView Holdings, Inc.			Equity	6,867	108,087	0.007%
JNLDDFA U.S. Core Equity Fund	Ares Management Corporation			Equity	2,725	424,484	0.029%
JNLDDFA U.S. Core Equity Fund	Cushman & Wakefield PLC			Equity	16,685	227,417	0.016%
JNLDDFA U.S. Core Equity Fund	Arcus Biosciences, Inc.			Equity	5,528	84,523	0.006%
JNLDDFA U.S. Core Equity Fund	Astrana Health, Inc.			Equity	1,989	115,243	0.008%
JNLDDFA U.S. Core Equity Fund	Sones, Inc.			Equity	5,643	69,323	0.005%
JNLDDFA U.S. Core Equity Fund	Sterling Infrastructure, Inc.			Equity	2,716	393,874	0.027%
JNLDDFA U.S. Core Equity Fund	Lindsay Corporation			Equity	784	97,718	0.007%
JNLDDFA U.S. Core Equity Fund	Lowes S Companies, Inc.			Equity	11,792	3,193,863	0.220%
JNLDDFA U.S. Core Equity Fund	Selective Insurance Group, Inc.			Equity	4,479	417,891	0.029%
JNLDDFA U.S. Core Equity Fund	Middleby Corporation, The			Equity	3,294	458,294	0.032%
JNLDDFA U.S. Core Equity Fund	Old Republic International Corporation			Equity	18,877	668,623	0.046%
JNLDDFA U.S. Core Equity Fund	Kelly Services, Inc.			Equity	3,570	76,434	0.005%
JNLDDFA U.S. Core Equity Fund	Marin Transport, Ltd.			Equity	6,721	119,962	0.008%
JNLDDFA U.S. Core Equity Fund	Insight Enterprises, Inc.			Equity	2,546	548,383	0.038%
JNLDDFA U.S. Core Equity Fund	Lincoln Electric Holdings, Inc.			Equity	2,819	543,306	0.037%
JNLDDFA U.S. Core Equity Fund	PAR Technology Corporation			Equity	2,831	147,438	0.010%
JNLDDFA U.S. Core Equity Fund	C&F Financial Corporation			Equity	40	2,263	0.000%
JNLDDFA U.S. Core Equity Fund	Northrop Grumman Corporation			Equity	2,532	1,337,073	0.092%
JNLDDFA U.S. Core Equity Fund	MillerKnoll, Inc.			Equity	8,105	202,199	0.014%
JNLDDFA U.S. Core Equity Fund	Tutor Perini Corporation			Equity	7,730	209,947	0.014%
JNLDDFA U.S. Core Equity Fund	Ford Motor Company			Equity	128,902	1,361,205	0.094%
JNLDDFA U.S. Core Equity Fund	Tredegar Corporation			Equity	5,784	148,326	0.010%
JNLDDFA U.S. Core Equity Fund	Miller Industries, Inc.			Equity	1,269	77,409	0.005%
JNLDDFA U.S. Core Equity Fund	PPG Industries, Inc.			Equity	7,292	965,898	0.066%
JNLDDFA U.S. Core Equity Fund	Mueller Industries, Inc.			Equity	8,645	640,595	0.044%
JNLDDFA U.S. Core Equity Fund	Wells Fargo & Company			Equity	79,389	4,494,176	0.309%
JNLDDFA U.S. Core Equity Fund	ResMed Inc.			Equity	3,120	761,654	0.052%
JNLDDFA U.S. Core Equity Fund	MI Homes, Inc.			Equity	2,194	375,964	0.026%
JNLDDFA U.S. Core Equity Fund	Rollins, Inc.			Equity	10,904	551,524	0.038%
JNLDDFA U.S. Core Equity Fund	Chemiere Energy, Inc.			Equity	8,481	1,526,236	0.105%
JNLDDFA U.S. Core Equity Fund	Rogers Corporation			Equity	1,461	165,108	0.011%
JNLDDFA U.S. Core Equity Fund	CNB Financial Corporation			Equity	1,336	32,144	0.002%
JNLDDFA U.S. Core Equity Fund	Enterprise Financial Services Corp.			Equity	2,945	150,961	0.010%
JNLDDFA U.S. Core Equity Fund	Kenametal Inc.			Equity	8,053	208,514	0.014%
JNLDDFA U.S. Core Equity Fund	John B. Santilippo & Son, Inc.			Equity	869	81,955	0.006%
JNLDDFA U.S. Core Equity Fund	Align Technology, Inc.			Equity	1,335	339,517	0.023%
JNLDDFA U.S. Core Equity Fund	Kirby Corporation			Equity	4,594	562,443	0.039%
JNLDDFA U.S. Core Equity Fund	Park Ohio Holdings Corp.			Equity	1,289	39,542	0.003%
JNLDDFA U.S. Core Equity Fund	Mercantile Bank Corporation			Equity	2,039	89,145	0.006%
JNLDDFA U.S. Core Equity Fund	Market Group Inc.			Equity	527	826,642	0.057%
JNLDDFA U.S. Core Equity Fund	Psychomedics Corporation			Equity	511	1,180	0.000%
JNLDDFA U.S. Core Equity Fund	Standard Motor Products, Inc.			Equity	2,994	79,484	0.005%
JNLDDFA U.S. Core Equity Fund	Weyco Group, Inc.			Equity	939	31,964	0.002%
JNLDDFA U.S. Core Equity Fund	Sitel Financial Corp.			Equity	6,676	626,876	0.043%
JNLDDFA U.S. Core Equity Fund	Texas Instruments Incorporated			Equity	19,095	3,944,454	0.271%
JNLDDFA U.S. Core Equity Fund	Winn-Dixie Stores, Inc.			Equity	2,180	126,680	0.009%
JNLDDFA U.S. Core Equity Fund	Advance Auto Parts, Inc.			Equity	3,755	346,215	0.010%
JNLDDFA U.S. Core Equity Fund	ACI Worldwide, Inc.			Equity	7,812	397,631	0.027%
JNLDDFA U.S. Core Equity Fund	Tractor Supply Company			Equity	4,603	1,339,151	0.092%
JNLDDFA U.S. Core Equity Fund	Snap-on Incorporated			Equity	2,136	618,821	0.043%
JNLDDFA U.S. Core Equity Fund	Legacy Vulcan Corp			Equity	4,292	1,074,849	0.074%
JNLDDFA U.S. Core Equity Fund	Wabash National Corporation			Equity	7,392	141,852	0.010%
JNLDDFA U.S. Core Equity Fund	Calavo Growers, Inc.			Equity	1,660	47,360	0.003%
JNLDDFA U.S. Core Equity Fund	Cross Country Healthcare, Inc.			Equity	2,371	31,866	0.002%
JNLDDFA U.S. Core Equity Fund	Titan International, Inc.			Equity	6,093	109,036	0.007%
JNLDDFA U.S. Core Equity Fund	West Pharmaceutical Services, Inc.			Equity	1,445	433,731	0.030%
JNLDDFA U.S. Core Equity Fund	Motorcar Parts of America, Inc.			Equity	1,961	14,492	0.001%
JNLDDFA U.S. Core Equity Fund	LKQ Corporation			Equity	9,617	383,911	0.026%
JNLDDFA U.S. Core Equity Fund	Preformed Line Products Company			Equity	189	24,207	0.002%
JNLDDFA U.S. Core Equity Fund	TransAct Technologies Incorporated			Equity	100	486	0.000%
JNLDDFA U.S. Core Equity Fund	Stapan Company			Equity	2,262	174,740	0.012%
JNLDDFA U.S. Core Equity Fund	Horizon Bancorp, Inc.			Equity	4,536	70,535	0.005%
JNLDDFA U.S. Core Equity Fund	Trimble Inc.			Equity	7,281	452,071	0.031%
JNLDDFA U.S. Core Equity Fund	Westamerica Bancorporation			Equity	2,812	138,969	0.010%
JNLDDFA U.S. Core Equity Fund	Stryker Corporation			Equity	5,284	1,913,125	0.132%
JNLDDFA U.S. Core Equity Fund	Tetra Tech, Inc.			Equity	15,205	717,068	0.049%
JNLDDFA U.S. Core Equity Fund	Vail Resorts, Inc.			Equity	2,538	442,348	0.031%
JNLDDFA U.S. Core Equity Fund	Western Digital Corporation			Equity	13,408	915,632	0.063%
JNLDDFA U.S. Core Equity Fund	U. S. Physical Therapy, Inc.			Equity	1,122	94,955	0.007%
JNLDDFA U.S. Core Equity Fund	Marathon Oil Corporation			Equity	36,540	973,060	0.067%
JNLDDFA U.S. Core Equity Fund	LUPF Technologies, Inc.			Equity	300	95,010	0.007%
JNLDDFA U.S. Core Equity Fund	Natural Gas Services Group, Inc.			Equity	1,669	31,895	0.002%
JNLDDFA U.S. Core Equity Fund	Cavco Industries, Inc.			Equity	664	284,351	0.020%
JNLDDFA U.S. Core Equity Fund	WD-40 Company			Equity	661	170,459	0.012%
JNLDDFA U.S. Core Equity Fund	State Street Corporation			Equity	10,293	910,622	0.063%
JNLDDFA U.S. Core Equity Fund	Toll Brothers, Inc.			Equity	7,401	1,221,488	0.084%
JNLDDFA U.S. Core Equity Fund	Big S Sporting Goods Corporation			Equity	2,402	5,020	0.000%
JNLDDFA U.S. Core Equity Fund	Trinity Industries, Inc.			Equity	8,537	297,429	0.020%
JNLDDFA U.S. Core Equity Fund	Texton Inc.			Equity	8,037	112,078	0.008%
JNLDDFA U.S. Core Equity Fund	Vetter Pharmaceuticals Incorporated			Equity	7,861	1,785,208	0.124%
JNLDDFA U.S. Core Equity Fund	Omniceil, Inc.			Equity	2,432	106,035	0.007%
JNLDDFA U.S. Core Equity Fund	Unifi, Inc.			Equity	2,125	15,598	0.001%
JNLDDFA U.S. Core Equity Fund	America's Car Mart, Inc.			Equity	973	40,788	0.003%
JNLDDFA U.S. Core Equity Fund	MidWestOne Financial Group, Inc.			Equity	759	21,654	0.001%
JNLDDFA U.S. Core Equity Fund	Avista Corporation			Equity	3,266	126,558	0.009%
JNLDDFA U.S. Core Equity Fund	Enpro Inc.			Equity	2,137	346,579	0.024%
JNLDDFA U.S. Core Equity Fund	Nasdaq, Inc.			Equity	16,281	1,188,676	0.082%
JNLDDFA U.S. Core Equity Fund	Urban Outfitters, Inc.			Equity	7,228	276,905	0.019%
JNLDDFA U.S. Core Equity Fund	Valley National Bancorp			Equity	31,781	291,432	0.020%
JNLDDFA U.S. Core Equity Fund	United Bankshares, Inc.			Equity	11,931	447,055	0.031%
JNLDDFA U.S. Core Equity Fund	Westbank, Inc.			Equity	5,721	172,437	0.012%
JNLDDFA U.S. Core Equity Fund	Tompkins Financial Corporation			Equity	1,567	90,557	0.006%
JNLDDFA U.S. Core Equity Fund	Zebra Technologies Corporation			Equity	1,571	581,773	0.040%
JNLDDFA U.S. Core Equity Fund	Tootsie Roll Industries, Inc.			Equity	3,598	111,430	0.008%
JNLDDFA U.S. Core Equity Fund	Sonoco Products Company			Equity	7,806	426,442	0.029%
JNLDDFA U.S. Core Equity Fund	Davita Inc.			Equity	3,765	616,705	0.042%
JNLDDFA U.S. Core Equity Fund	STAAR Surgical Company			Equity	1,030	38,265	0.003%
JNLDDFA U.S. Core Equity Fund	Brookline Bancorp, Inc.			Equity	8,303	83,777	0.006%
JNLDDFA U.S. Core Equity Fund	Valmont Industries, Inc.			Equity	1,377	400,087	0.028%
JNLDDFA U.S. Core Equity Fund	Universal Insurance Holdings, Inc.			Equity	6,008	133,137	0.009%
JNLDDFA U.S. Core Equity Fund	Principal Financial Group, Inc.			Equity	9,950	864,705	0.059%
JNLDDFA U.S. Core Equity Fund	Synagis Incorporated			Equity	2,488	193,019	0.013%
JNLDDFA U.S. Core Equity Fund	Toro Company, The			Equity	4,951	431,183	0.030%
JNLDDFA U.S. Core Equity Fund	Beyond, Inc.			Equity	1,583	15,957	0.001%
JNLDDFA U.S. Core Equity Fund	Telexay Shipping (Canada) Ltd.			Equity	7,366	97,767	0.007%
JNLDDFA U.S. Core Equity Fund	VSE Corporation			Equity	1,200	99,276	0.007%
JNLDDFA U.S. Core Equity Fund	SIFCO Industries, Inc.			Equity	145	674	0.000%
JNLDDFA U.S. Core Equity Fund	Prudential Financial, Inc.			Equity	15,084	1,826,872	0.126%
JNLDDFA U.S. Core Equity Fund	Southwest Gas Holdings, Inc.			Equity	3,747	276,379	0.019%
JNLDDFA U.S. Core Equity Fund	Union Pacific Corporation			Equity	15,731	3,877,377	0.267%
JNLDDFA U.S. Core Equity Fund	Standex International Corporation			Equity	1,025	187,350	0.013%
JNLDDFA U.S. Core Equity Fund	UMB Financial Corporation			Equity	4,200	443,100	0.030%
JNLDDFA U.S. Core Equity Fund	Trico Bancshares			Equity	3,545	151,194	0.010%
JNLDDFA U.S. Core Equity Fund	AMN Healthcare Services, Inc.			Equity	3,708	157,182	0.011%
JNLDDFA U.S. Core Equity Fund	Thermo Fisher Scientific Inc.			Equity	6,938	4,294,344	0.296%
JNLDDFA U.S. Core Equity Fund	Peoples Financial Services Corp.			Equity	213	9,985	0.001%
JNLDDFA U.S. Core Equity Fund	Walmart Inc.			Equity	85,776	6,806,412	0.477%
JNLDDFA U.S. Core Equity Fund	Unisys Corporation			Equity	3,919	22,260	0.002%
JNLDDFA U.S. Core Equity Fund	Chevron Corporation			Equity	39,435	5,807,592	0.400%
JNLDDFA U.S. Core Equity Fund	Westwood Holdings Group, Inc.			Equity	800	11,480	0.001%
JNLDDFA U.S. Core Equity Fund	Simmons First National Corporation			Equity	8,810	191,618	0.013%
JNLDDFA U.S. Core Equity Fund	Nexstar Media Group, Inc.			Equity	4,315	713,685	0.049%
JNLDDFA U.S. Core Equity Fund	Tyler Technologies, Inc.			Equity	911	531,769	0.037%
JNLDDFA U.S. Core Equity Fund	The Southern Company			Equity	22,379	2,018,138	0.139%
JNLDDFA U.S. Core Equity Fund	Asbury Automotive Group, Inc.			Equity	1,776	423,736	0.029%
JNLDDFA U.S. Core Equity Fund	Diamond Hill Investment Group, Inc.			Equity	479	77,411	0.005%
JNLDDFA U.S. Core Equity Fund	Superior Group of Companies, Inc.			Equity	1,000	15,490	0.001%
JNLDDFA U.S. Core Equity Fund	Skyworks Solutions, Inc.			Equity	5,713	564,273	0.039%
JNLDDFA U.S. Core Equity Fund	A. O. Smith Corporation			Equity	7,648	687,020	0.047%
JNLDDFA U.S. Core Equity Fund	Westonhouse Air Brake Technologies Corporation			Equity	6,465	1,175,143	0.081%
JNLDDFA U.S. Core Equity Fund	Light & Wonder, Inc.			Equity	4,928	447,117	0.031%
JNLDDFA U.S. Core Equity Fund	Strattec Security Corporation			Equity	227	9,684	0.001%
JNLDDFA U.S. Core Equity Fund	Cencora, Inc.			Equity	5,586	1,257,297	0.087%
JNLDDFA U.S. Core Equity Fund	Skyline Champion Corporation			Equity	4,083	387,273	0.027%
JNLDDFA U.S. Core Equity Fund	Cenitene Corporation			Equity	16,290	1,226,311	0.084%
JNLDDFA U.S. Core Equity Fund	3D Systems Corporation			Equity	8,788	24,958	0.002%
JNLDDFA U.S. Core Equity Fund	UnitedHealth Group Incorporated			Equity	19,223	11,239,304	0.774%
JNLDDFA U.S. Core Equity Fund	Intuitive Surgical, Inc.			Equity	4,359	2,141,446	0.147%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	AT&T Inc.			Equity	204,125	4,490,750	0.309%
JNLDOFA U.S. Core Equity Fund	JetBlue Airways Corporation			Equity	27,549	180,721	0.012%
JNLDOFA U.S. Core Equity Fund	Watts Water Technologies, Inc.			Equity	2,154	446,287	0.031%
JNLDOFA U.S. Core Equity Fund	The Sherwin-Williams Company			Equity	6,638	2,533,525	0.174%
JNLDOFA U.S. Core Equity Fund	Zions Bancorporation, National Association			Equity	9,890	467,006	0.032%
JNLDOFA U.S. Core Equity Fund	Silgan Holdings Inc.			Equity	3,492	183,330	0.013%
JNLDOFA U.S. Core Equity Fund	Southwest Airlines Co.			Equity	19,711	584,037	0.040%
JNLDOFA U.S. Core Equity Fund	WSPS Financial Corporation			Equity	6,107	311,396	0.021%
JNLDOFA U.S. Core Equity Fund	Simpson Manufacturing Co., Inc.			Equity	3,061	585,477	0.040%
JNLDOFA U.S. Core Equity Fund	Southwestern Energy Company			Equity	71,712	509,872	0.035%
JNLDOFA U.S. Core Equity Fund	WAFO, Inc.			Equity	7,290	254,957	0.017%
JNLDOFA U.S. Core Equity Fund	TETRA Technologies, Inc.			Equity	7,914	24,533	0.002%
JNLDOFA U.S. Core Equity Fund	Stewart Information Services Corporation			Equity	2,517	188,121	0.013%
JNLDOFA U.S. Core Equity Fund	Acuity Brands, Inc.			Equity	2,030	559,042	0.038%
JNLDOFA U.S. Core Equity Fund	Washington Trust Bancorp. Inc.			Equity	2,058	54,298	0.004%
JNLDOFA U.S. Core Equity Fund	Penske Automotive Group, Inc.			Equity	3,230	524,617	0.036%
JNLDOFA U.S. Core Equity Fund	Universal Health Services, Inc.			Equity	4,851	1,110,928	0.076%
JNLDOFA U.S. Core Equity Fund	Wynn Resorts, Limited			Equity	3,120	299,146	0.021%
JNLDOFA U.S. Core Equity Fund	Sala, Inc.			Equity	1,224	535,205	0.037%
JNLDOFA U.S. Core Equity Fund	Starbucks Corporation			Equity	23,171	2,258,941	0.155%
JNLDOFA U.S. Core Equity Fund	Watsco, Inc.			Equity	1,132	556,808	0.038%
JNLDOFA U.S. Core Equity Fund	United Natural Foods, Inc.			Equity	5,777	97,169	0.007%
JNLDOFA U.S. Core Equity Fund	United Community Banks, Inc.			Equity	7,913	232,009	0.016%
JNLDOFA U.S. Core Equity Fund	Stericycle, Inc.			Equity	6,210	378,810	0.026%
JNLDOFA U.S. Core Equity Fund	Universal Electronics Inc.			Equity	835	7,707	0.001%
JNLDOFA U.S. Core Equity Fund	Woodward, Inc.			Equity	3,566	611,605	0.042%
JNLDOFA U.S. Core Equity Fund	Hennessy Advisors, Inc.			Equity	373	3,711	0.000%
JNLDOFA U.S. Core Equity Fund	Edison International			Equity	10,592	922,457	0.063%
JNLDOFA U.S. Core Equity Fund	The J. M. Smucker Company			Equity	4,092	495,541	0.034%
JNLDOFA U.S. Core Equity Fund	Waste Management, Inc.			Equity	11,845	2,459,022	0.169%
JNLDOFA U.S. Core Equity Fund	CEVA Inc.			Equity	793	19,153	0.001%
JNLDOFA U.S. Core Equity Fund	Heartland Financial USA, Inc.			Equity	4,372	247,778	0.017%
JNLDOFA U.S. Core Equity Fund	Foot Locker, Inc.			Equity	5,573	144,006	0.010%
JNLDOFA U.S. Core Equity Fund	Vicor Corporation			Equity	1,400	58,940	0.004%
JNLDOFA U.S. Core Equity Fund	World Acceptance Corporation			Equity	906	106,890	0.007%
JNLDOFA U.S. Core Equity Fund	Medfast, Inc.			Equity	501	166,849	0.011%
JNLDOFA U.S. Core Equity Fund	V.F. Corporation			Equity	16,678	332,726	0.023%
JNLDOFA U.S. Core Equity Fund	Verint Systems Inc.			Equity	5,027	127,334	0.009%
JNLDOFA U.S. Core Equity Fund	Universal Corporation			Equity	2,698	143,291	0.010%
JNLDOFA U.S. Core Equity Fund	Tejon Ranch Co.			Equity	3,103	54,441	0.004%
JNLDOFA U.S. Core Equity Fund	Shoe Carnival, Inc.			Equity	3,472	152,247	0.010%
JNLDOFA U.S. Core Equity Fund	Synopsys, Inc.			Equity	2,350	1,190,017	0.082%
JNLDOFA U.S. Core Equity Fund	TruBridge, Inc.			Equity	742	8,874	0.001%
JNLDOFA U.S. Core Equity Fund	SWJ Group			Equity	1,798	166,849	0.011%
JNLDOFA U.S. Core Equity Fund	Waters Corporation			Equity	1,992	716,901	0.049%
JNLDOFA U.S. Core Equity Fund	Unitil Corporation			Equity	1,397	84,630	0.006%
JNLDOFA U.S. Core Equity Fund	Universal Stainless & Alloy Products, Inc.			Equity	700	27,041	0.002%
JNLDOFA U.S. Core Equity Fund	Teleflex Incorporated			Equity	1,835	453,932	0.031%
JNLDOFA U.S. Core Equity Fund	Rush Enterprises, Inc.			Equity	682	32,702	0.002%
JNLDOFA U.S. Core Equity Fund	Williams Companies, Inc., The			Equity	35,593	1,624,820	0.112%
JNLDOFA U.S. Core Equity Fund	The Timken Company			Equity	4,609	388,493	0.027%
JNLDOFA U.S. Core Equity Fund	Ultrafile Corporation			Equity	211	1,907	0.000%
JNLDOFA U.S. Core Equity Fund	Williams-Sonoma, Inc.			Equity	8,366	1,296,061	0.089%
JNLDOFA U.S. Core Equity Fund	Utah Medical Products, Inc.			Equity	200	13,442	0.001%
JNLDOFA U.S. Core Equity Fund	Veeco Instruments Inc.			Equity	5,204	172,409	0.012%
JNLDOFA U.S. Core Equity Fund	Alliant Energy Corporation			Equity	7,360	446,678	0.031%
JNLDOFA U.S. Core Equity Fund	The E.W. Scripps Company			Equity	7,772	17,448	0.001%
JNLDOFA U.S. Core Equity Fund	John Wiley & Sons, Inc.			Equity	3,537	170,660	0.012%
JNLDOFA U.S. Core Equity Fund	Safety Insurance Group, Inc.			Equity	1,634	133,629	0.009%
JNLDOFA U.S. Core Equity Fund	Steel Dynamics, Inc.			Equity	8,207	1,038,514	0.071%
JNLDOFA U.S. Core Equity Fund	Argan, Inc.			Equity	1,643	166,849	0.011%
JNLDOFA U.S. Core Equity Fund	Webster Financial Corporation			Equity	11,928	555,964	0.038%
JNLDOFA U.S. Core Equity Fund	UGI Corporation			Equity	9,370	237,951	0.016%
JNLDOFA U.S. Core Equity Fund	Red Robin Gourmet Burgers, Inc.			Equity	1,464	6,456	0.000%
JNLDOFA U.S. Core Equity Fund	Dick's Sporting Goods, Inc.			Equity	3,335	699,893	0.048%
JNLDOFA U.S. Core Equity Fund	United States Cellular Corporation			Equity	2,368	129,411	0.009%
JNLDOFA U.S. Core Equity Fund	Texas Capital Bancshares, Inc.			Equity	4,923	351,798	0.024%
JNLDOFA U.S. Core Equity Fund	Radius Recycling, Inc.			Equity	2,660	49,316	0.003%
JNLDOFA U.S. Core Equity Fund	Halozyme Therapeutics, Inc.			Equity	6,484	374,144	0.026%
JNLDOFA U.S. Core Equity Fund	Thor Industries, Inc.			Equity	4,354	478,461	0.033%
JNLDOFA U.S. Core Equity Fund	Formfactor, Inc.			Equity	5,523	254,058	0.017%
JNLDOFA U.S. Core Equity Fund	Whirlpool Corporation			Equity	3,107	332,449	0.023%
JNLDOFA U.S. Core Equity Fund	United States Steel Corporation			Equity	19,416	650,937	0.045%
JNLDOFA U.S. Core Equity Fund	Weis Markets, Inc.			Equity	2,016	138,963	0.010%
JNLDOFA U.S. Core Equity Fund	Rush Enterprises, Inc.			Equity	5,061	267,373	0.018%
JNLDOFA U.S. Core Equity Fund	Air Transport Services Group, Inc.			Equity	6,981	113,022	0.008%
JNLDOFA U.S. Core Equity Fund	Sysco Corporation			Equity	14,539	1,134,914	0.078%
JNLDOFA U.S. Core Equity Fund	CME Group Inc.			Equity	9,916	1,305,365	0.090%
JNLDOFA U.S. Core Equity Fund	Carter's, Inc.			Equity	2,439	158,486	0.011%
JNLDOFA U.S. Core Equity Fund	Village Super Market, Inc.			Equity	983	31,250	0.002%
JNLDOFA U.S. Core Equity Fund	SkyWest, Inc.			Equity	4,940	419,999	0.029%
JNLDOFA U.S. Core Equity Fund	Southern Copper Corporation			Equity	2,954	341,689	0.024%
JNLDOFA U.S. Core Equity Fund	Werner Enterprises, Inc.			Equity	5,572	215,023	0.015%
JNLDOFA U.S. Core Equity Fund	Tyson Foods, Inc.			Equity	10,510	625,976	0.043%
JNLDOFA U.S. Core Equity Fund	Tetraphyne, Inc.			Equity	4,604	616,614	0.042%
JNLDOFA U.S. Core Equity Fund	Service Corporation International			Equity	10,960	895,073	0.060%
JNLDOFA U.S. Core Equity Fund	Vishay Intertechnology, Inc.			Equity	11,076	209,447	0.014%
JNLDOFA U.S. Core Equity Fund	SEI Investments Company			Equity	8,872	613,854	0.042%
JNLDOFA U.S. Core Equity Fund	Sensient Technologies Corporation			Equity	3,302	264,886	0.018%
JNLDOFA U.S. Core Equity Fund	Netflix, Inc.			Equity	6,203	4,670,520	0.308%
JNLDOFA U.S. Core Equity Fund	TXJ Companies, Inc., The			Equity	35,644	4,189,596	0.288%
JNLDOFA U.S. Core Equity Fund	CarMax, Inc.			Equity	5,733	443,620	0.031%
JNLDOFA U.S. Core Equity Fund	Twin Disc, Incorporated			Equity	1,200	14,989	0.001%
JNLDOFA U.S. Core Equity Fund	Worthington Industries, Inc.			Equity	3,905	163,862	0.011%
JNLDOFA U.S. Core Equity Fund	Tennant Company			Equity	1,649	158,370	0.011%
JNLDOFA U.S. Core Equity Fund	Terex Corporation			Equity	5,240	277,248	0.019%
JNLDOFA U.S. Core Equity Fund	John Wiley & Sons, Inc.			Equity	100	4,830	0.000%
JNLDOFA U.S. Core Equity Fund	Moderna, Inc.			Equity	9,878	392,927	0.027%
JNLDOFA U.S. Core Equity Fund	Beacon Roofing Supply, Inc.			Equity	7,232	625,062	0.043%
JNLDOFA U.S. Core Equity Fund	Las Vegas Sands Corp.			Equity	9,667	486,637	0.033%
JNLDOFA U.S. Core Equity Fund	Anylam Pharmaceuticals, Inc.			Equity	3,368	926,301	0.064%
JNLDOFA U.S. Core Equity Fund	Haynes International, Inc.			Equity	1,530	91,086	0.006%
JNLDOFA U.S. Core Equity Fund	GSI Technology, Inc.			Equity	826	2,519	0.000%
JNLDOFA U.S. Core Equity Fund	Dolby Laboratories, Inc.			Equity	4,441	339,870	0.023%
JNLDOFA U.S. Core Equity Fund	Westlake Corporation			Equity	2,976	447,263	0.031%
JNLDOFA U.S. Core Equity Fund	B&B Foods, Inc.			Equity	7,318	66,374	0.005%
JNLDOFA U.S. Core Equity Fund	Commercial Vehicle Group, Inc.			Equity	4,519	14,687	0.001%
JNLDOFA U.S. Core Equity Fund	AngioDynamics, Inc.			Equity	4,456	34,668	0.002%
JNLDOFA U.S. Core Equity Fund	BankFinancial Corporation			Equity	2,125	25,883	0.002%
JNLDOFA U.S. Core Equity Fund	Regions Financial Corporation			Equity	31,301	738,078	0.051%
JNLDOFA U.S. Core Equity Fund	Assured Guaranty Ltd.			Equity	4,427	352,035	0.024%
JNLDOFA U.S. Core Equity Fund	Enterprise Bancorp. Inc.			Equity	697	22,276	0.002%
JNLDOFA U.S. Core Equity Fund	Texas Roadhouse, Inc.			Equity	4,163	735,186	0.051%
JNLDOFA U.S. Core Equity Fund	Huron Consulting Group Inc.			Equity	1,744	189,573	0.013%
JNLDOFA U.S. Core Equity Fund	Viad Corp.			Equity	2,152	77,106	0.005%
JNLDOFA U.S. Core Equity Fund	Herbalife Nutrition Ltd.			Equity	8,297	59,655	0.004%
JNLDOFA U.S. Core Equity Fund	Cohen & Steers, Inc.			Equity	3,099	297,349	0.020%
JNLDOFA U.S. Core Equity Fund	First Internet Bancorp			Equity	843	28,932	0.002%
JNLDOFA U.S. Core Equity Fund	Concept Therapeutics Incorporated			Equity	9,811	268,933	0.019%
JNLDOFA U.S. Core Equity Fund	Farmers National Banc Corp.			Equity	800	12,096	0.001%
JNLDOFA U.S. Core Equity Fund	W&T Offshore, Inc.			Equity	15,655	33,658	0.002%
JNLDOFA U.S. Core Equity Fund	TowneBank			Equity	6,682	222,577	0.015%
JNLDOFA U.S. Core Equity Fund	Genworth Financial, Inc.			Equity	32,831	224,992	0.015%
JNLDOFA U.S. Core Equity Fund	MarketAxess Holdings Inc.			Equity	1,105	283,101	0.019%
JNLDOFA U.S. Core Equity Fund	Build-A-Bear Workshop, Inc.			Equity	2,073	71,664	0.005%
JNLDOFA U.S. Core Equity Fund	The Bancorp. Inc.			Equity	5,193	277,826	0.019%
JNLDOFA U.S. Core Equity Fund	EnerSys			Equity	3,243	330,348	0.023%
JNLDOFA U.S. Core Equity Fund	NewMarket Corporation			Equity	582	322,655	0.022%
JNLDOFA U.S. Core Equity Fund	ALLETE, Inc.			Equity	3,408	218,760	0.015%
JNLDOFA U.S. Core Equity Fund	Monolithic Power Systems, Inc.			Equity	833	771,150	0.053%
JNLDOFA U.S. Core Equity Fund	Domino's Pizza, Inc.			Equity	845	363,468	0.025%
JNLDOFA U.S. Core Equity Fund	First Mid Bancshares, Inc.			Equity	1,644	63,968	0.004%
JNLDOFA U.S. Core Equity Fund	NorthWestern Corporation			Equity	3,534	202,215	0.014%
JNLDOFA U.S. Core Equity Fund	Ultra Clean Holdings, Inc.			Equity	2,985	119,191	0.008%
JNLDOFA U.S. Core Equity Fund	Ormat Technologies, Inc.			Equity	3,044	234,205	0.016%
JNLDOFA U.S. Core Equity Fund	Zumiez Inc.			Equity	2,229	47,478	0.003%
JNLDOFA U.S. Core Equity Fund	Ciena Corporation			Equity	9,126	562,070	0.039%
JNLDOFA U.S. Core Equity Fund	Ameriprise Financial, Inc.			Equity	4,382	2,058,707	0.142%
JNLDOFA U.S. Core Equity Fund	CommVault Systems, Inc.			Equity	797	122,618	0.008%
JNLDOFA U.S. Core Equity Fund	Belden Inc.			Equity	2,580	302,324	0.021%
JNLDOFA U.S. Core Equity Fund	Primoris Services Corporation			Equity	5,672	329,770	0.023%
JNLDOFA U.S. Core Equity Fund	TriMas Corporation			Equity	4,588	117,132	0.008%
JNLDOFA U.S. Core Equity Fund	Huntsman Corporation			Equity	16,194	391,895	0.027%
JNLDOFA U.S. Core Equity Fund	Great Lakes Dredge & Dock Corporation			Equity	7,131	124,891	0.009%
JNLDOFA U.S. Core Equity Fund	Western Alliance Bancorporation			Equity	7,174	620,479	0.043%
JNLDOFA U.S. Core Equity Fund	Morningstar, Inc.			Equity	2,488	793,971	0.055%
JNLDOFA U.S. Core Equity Fund	Cinemark Holdings, Inc.			Equity	7,354	205,014	0.014%
JNLDOFA U.S. Core Equity Fund	Employers Holdings, Inc.			Equity	3,649	175,043	0.012%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Delta Air Lines, Inc.			Equity	36,963	1,877,351	0.129%
JNLDOFA U.S. Core Equity Fund	Koppers Holdings Inc.			Equity	2,317	84,640	0.066%
JNLDOFA U.S. Core Equity Fund	Trehouse Foods, Inc.			Equity	4,853	203,729	0.014%
JNLDOFA U.S. Core Equity Fund	Radiant Logistics, Inc.			Equity	3,369	21,663	0.001%
JNLDOFA U.S. Core Equity Fund	Infinera Corporation			Equity	11,020	74,385	0.005%
JNLDOFA U.S. Core Equity Fund	Citi Trends, Inc.			Equity	1,851	34,003	0.002%
JNLDOFA U.S. Core Equity Fund	MasterCard Incorporated			Equity	20,252	10,000,438	0.688%
JNLDOFA U.S. Core Equity Fund	Brookdale Senior Living Inc.			Equity	22,744	154,432	0.011%
JNLDOFA U.S. Core Equity Fund	Discover Financial Services			Equity	13,081	1,835,133	0.126%
JNLDOFA U.S. Core Equity Fund	Under Armour, Inc.			Equity	11,167	99,498	0.007%
JNLDOFA U.S. Core Equity Fund	Orion Group Holdings, Inc.			Equity	1,576	9,094	0.001%
JNLDOFA U.S. Core Equity Fund	Central Garden & Pet Company			Equity	5,351	168,021	0.012%
JNLDOFA U.S. Core Equity Fund	Clean Energy Fuels Corp.			Equity	22,405	69,680	0.005%
JNLDOFA U.S. Core Equity Fund	Kennedy-Wilson Holdings, Inc.			Equity	13,226	147,734	0.010%
JNLDOFA U.S. Core Equity Fund	RBC Bearings Incorporated			Equity	1,434	429,147	0.030%
JNLDOFA U.S. Core Equity Fund	TechTarget, Inc.			Equity	1,394	34,083	0.002%
JNLDOFA U.S. Core Equity Fund	Vanda Pharmaceuticals Inc.			Equity	4,802	22,521	0.002%
JNLDOFA U.S. Core Equity Fund	Masimo Corporation			Equity	3,143	419,056	0.029%
JNLDOFA U.S. Core Equity Fund	Copa Holdings, S.A.			Equity	2,540	238,354	0.016%
JNLDOFA U.S. Core Equity Fund	AECOM			Equity	5,439	561,686	0.039%
JNLDOFA U.S. Core Equity Fund	AeroVironment, Inc.			Equity	1,381	276,891	0.019%
JNLDOFA U.S. Core Equity Fund	Owens Corning			Equity	7,378	1,302,365	0.090%
JNLDOFA U.S. Core Equity Fund	ExService Holdings, Inc.			Equity	9,485	323,703	0.022%
JNLDOFA U.S. Core Equity Fund	The Western Union Company			Equity	26,802	319,748	0.022%
JNLDOFA U.S. Core Equity Fund	Enstar Group Limited			Equity	1,267	407,455	0.028%
JNLDOFA U.S. Core Equity Fund	LeMaitre Vascular, Inc.			Equity	1,600	148,624	0.010%
JNLDOFA U.S. Core Equity Fund	Emergent BioSolutions Inc.			Equity	4,065	39,243	0.002%
JNLDOFA U.S. Core Equity Fund	CVR Energy, Inc.			Equity	8,687	200,062	0.014%
JNLDOFA U.S. Core Equity Fund	American Coastal Insurance Corporation			Equity	1,477	16,646	0.001%
JNLDOFA U.S. Core Equity Fund	ICF International, Inc.			Equity	1,678	280,109	0.019%
JNLDOFA U.S. Core Equity Fund	Greenlight Capital Re, Ltd.			Equity	3,214	43,871	0.003%
JNLDOFA U.S. Core Equity Fund	Dana Incorporated			Equity	11,851	125,147	0.009%
JNLDOFA U.S. Core Equity Fund	AltiCure, Inc.			Equity	1,725	48,369	0.003%
JNLDOFA U.S. Core Equity Fund	Chipotle Mexican Grill, Inc.			Equity	33,500	1,930,270	0.133%
JNLDOFA U.S. Core Equity Fund	First Solar, Inc.			Equity	3,580	892,995	0.061%
JNLDOFA U.S. Core Equity Fund	Evercore Inc.			Equity	2,744	695,165	0.048%
JNLDOFA U.S. Core Equity Fund	Home BancShares, Inc.			Equity	11,461	310,478	0.021%
JNLDOFA U.S. Core Equity Fund	Live Nation Entertainment, Inc.			Equity	6,776	741,904	0.051%
JNLDOFA U.S. Core Equity Fund	First Financial Northwest, Inc.			Equity	1,003	22,588	0.002%
JNLDOFA U.S. Core Equity Fund	Insear Corporation			Equity	1,382	314,878	0.022%
JNLDOFA U.S. Core Equity Fund	DexCom, Inc.			Equity	5,388	361,212	0.025%
JNLDOFA U.S. Core Equity Fund	EchoStar Corporation			Equity	5,524	137,106	0.009%
JNLDOFA U.S. Core Equity Fund	Crocs, Inc.			Equity	2,746	397,648	0.027%
JNLDOFA U.S. Core Equity Fund	Muesler Water Products, Inc.			Equity	10,293	23,505	0.001%
JNLDOFA U.S. Core Equity Fund	Chart Industries, Inc.			Equity	661	82,057	0.006%
JNLDOFA U.S. Core Equity Fund	ACCO Brands Corporation			Equity	11,497	62,889	0.004%
JNLDOFA U.S. Core Equity Fund	Cumberland Pharmaceuticals, Inc.			Equity	900	1,152	0.000%
JNLDOFA U.S. Core Equity Fund	Armstrong World Industries, Inc.			Equity	3,239	425,703	0.029%
JNLDOFA U.S. Core Equity Fund	Allegiant Travel Company			Equity	568	31,274	0.002%
JNLDOFA U.S. Core Equity Fund	GameStop Corp.			Equity	1,624	37,238	0.003%
JNLDOFA U.S. Core Equity Fund	iRobot Corporation			Equity	2,161	18,779	0.001%
JNLDOFA U.S. Core Equity Fund	Kaiser Aluminum Corporation			Equity	1,100	79,772	0.005%
JNLDOFA U.S. Core Equity Fund	Liquidity Services, Inc.			Equity	4,053	92,408	0.006%
JNLDOFA U.S. Core Equity Fund	Teradata Corporation			Equity	4,349	131,949	0.009%
JNLDOFA U.S. Core Equity Fund	ESSA Bancorp, Inc.			Equity	973	18,701	0.001%
JNLDOFA U.S. Core Equity Fund	RadNet, Inc.			Equity	3,758	260,768	0.018%
JNLDOFA U.S. Core Equity Fund	Interactive Brokers Group, Inc.			Equity	1,585	218,098	0.015%
JNLDOFA U.S. Core Equity Fund	Celanese Corporation			Equity	3,801	516,784	0.036%
JNLDOFA U.S. Core Equity Fund	Sally Beauty Holdings, Inc.			Equity	5,757	78,122	0.005%
JNLDOFA U.S. Core Equity Fund	Avis Budget Group, Inc.			Equity	2,226	184,875	0.013%
JNLDOFA U.S. Core Equity Fund	Omega Flex, Inc.			Equity	2,100	10,000	0.000%
JNLDOFA U.S. Core Equity Fund	Accury Incorporated			Equity	5,652	10,174	0.001%
JNLDOFA U.S. Core Equity Fund	American Public Education, Inc.			Equity	1,898	27,996	0.002%
JNLDOFA U.S. Core Equity Fund	Consolidated Communications Holdings, Inc.			Equity	13,132	60,832	0.004%
JNLDOFA U.S. Core Equity Fund	Super Micro Computer, Inc.			Equity	1,801	21,801	0.001%
JNLDOFA U.S. Core Equity Fund	Invesco Ltd.			Equity	25,056	439,983	0.030%
JNLDOFA U.S. Core Equity Fund	TFS Financial Corporation			Equity	10,589	136,175	0.009%
JNLDOFA U.S. Core Equity Fund	H&E Equipment Services, Inc.			Equity	3,497	170,234	0.012%
JNLDOFA U.S. Core Equity Fund	Green Plains Inc.			Equity	3,972	53,781	0.003%
JNLDOFA U.S. Core Equity Fund	Molson Coors Beverage Company			Equity	7,817	449,634	0.031%
JNLDOFA U.S. Core Equity Fund	Hanesbrands Inc.			Equity	30,549	224,535	0.015%
JNLDOFA U.S. Core Equity Fund	MSCI Inc.			Equity	1,681	979,905	0.067%
JNLDOFA U.S. Core Equity Fund	Prestige Consumer Healthcare Inc.			Equity	3,771	271,889	0.019%
JNLDOFA U.S. Core Equity Fund	Lululemon Athletica Inc.			Equity	2,980	808,623	0.056%
JNLDOFA U.S. Core Equity Fund	Builders FirstSource, Inc.			Equity	9,988	1,936,274	0.133%
JNLDOFA U.S. Core Equity Fund	Amerisafe, Inc.			Equity	2,091	101,958	0.007%
JNLDOFA U.S. Core Equity Fund	Broadridge Financial Solutions, Inc.			Equity	4,260	119,177	0.008%
JNLDOFA U.S. Core Equity Fund	Bank of New York Mellon Corporation, The			Equity	19,102	1,372,670	0.094%
JNLDOFA U.S. Core Equity Fund	Ulta Beauty, Inc.			Equity	2,181	848,671	0.058%
JNLDOFA U.S. Core Equity Fund	CF Industries Holdings, Inc.			Equity	11,307	970,141	0.067%
JNLDOFA U.S. Core Equity Fund	Wildcat Group, Inc.			Equity	970	39,722	0.003%
JNLDOFA U.S. Core Equity Fund	Gempack Limited			Equity	11,802	462,756	0.032%
JNLDOFA U.S. Core Equity Fund	eHealth, Inc.			Equity	1,522	6,210	0.000%
JNLDOFA U.S. Core Equity Fund	Universal Logistics Holdings, Inc.			Equity	2,271	98,141	0.007%
JNLDOFA U.S. Core Equity Fund	Titan Machinery Inc.			Equity	1,281	17,844	0.001%
JNLDOFA U.S. Core Equity Fund	First Business Financial Services, Inc.			Equity	436	42,672	0.003%
JNLDOFA U.S. Core Equity Fund	TransDigm Group Incorporated			Equity	1,107	1,579,833	0.109%
JNLDOFA U.S. Core Equity Fund	The Ensign Group, Inc.			Equity	3,846	553,362	0.038%
JNLDOFA U.S. Core Equity Fund	MaxLinear, Inc.			Equity	4,194	60,729	0.004%
JNLDOFA U.S. Core Equity Fund	Portland General Electric Company			Equity	5,362	236,521	0.016%
JNLDOFA U.S. Core Equity Fund	KBR, Inc.			Equity	8,578	559,972	0.039%
JNLDOFA U.S. Core Equity Fund	Walker & Dunlop, Inc.			Equity	3,304	375,301	0.026%
JNLDOFA U.S. Core Equity Fund	First Interstate BancSystem, Inc.			Equity	7,980	244,826	0.017%
JNLDOFA U.S. Core Equity Fund	BankUnited, Inc.			Equity	5,252	191,383	0.013%
JNLDOFA U.S. Core Equity Fund	Marathon Petroleum Corporation			Equity	14,372	2,341,343	0.161%
JNLDOFA U.S. Core Equity Fund	John Bean Technologies Corporation			Equity	2,348	231,301	0.016%
JNLDOFA U.S. Core Equity Fund	CBOT Global Markets, Inc.			Equity	3,499	716,840	0.049%
JNLDOFA U.S. Core Equity Fund	SunCoke Energy, Inc.			Equity	7,931	69,841	0.005%
JNLDOFA U.S. Core Equity Fund	Mistras Group, Inc.			Equity	2,555	29,050	0.002%
JNLDOFA U.S. Core Equity Fund	Fabrinet			Equity	2,324	549,487	0.038%
JNLDOFA U.S. Core Equity Fund	TripAdvisor, Inc.			Equity	8,183	118,572	0.008%
JNLDOFA U.S. Core Equity Fund	Vishay Precision Group, Inc.			Equity	700	18,120	0.001%
JNLDOFA U.S. Core Equity Fund	Iridium Communications Inc.			Equity	8,460	257,607	0.018%
JNLDOFA U.S. Core Equity Fund	Energy Recovery, Inc.			Equity	4,252	73,942	0.005%
JNLDOFA U.S. Core Equity Fund	Post Holdings, Inc.			Equity	4,053	469,135	0.032%
JNLDOFA U.S. Core Equity Fund	Hennri Financial Corporation			Equity	3,466	84,468	0.006%
JNLDOFA U.S. Core Equity Fund	Guidewire Software, Inc.			Equity	2,535	537,112	0.037%
JNLDOFA U.S. Core Equity Fund	NXP Semiconductors N.V.			Equity	5,699	1,373,596	0.095%
JNLDOFA U.S. Core Equity Fund	Capitol Federal Financial			Equity	13,451	78,554	0.005%
JNLDOFA U.S. Core Equity Fund	Huntington Inalls Industries, Inc.			Equity	2,800	740,264	0.051%
JNLDOFA U.S. Core Equity Fund	Jazz Pharmaceuticals Public Limited Company			Equity	3,788	422,021	0.029%
JNLDOFA U.S. Core Equity Fund	Opentlane, Inc.			Equity	11,861	200,214	0.014%
JNLDOFA U.S. Core Equity Fund	Vera Bradley, Inc.			Equity	3,120	17,035	0.001%
JNLDOFA U.S. Core Equity Fund	Spirit Airlines, Inc.			Equity	9,116	21,878	0.002%
JNLDOFA U.S. Core Equity Fund	Supernus Pharmaceuticals, Inc.			Equity	4,576	132,680	0.010%
JNLDOFA U.S. Core Equity Fund	Matador Resources Company			Equity	9,682	478,484	0.033%
JNLDOFA U.S. Core Equity Fund	HomeStreet, Inc.			Equity	2,859	45,058	0.003%
JNLDOFA U.S. Core Equity Fund	Customers Bancorp, Inc.			Equity	3,303	153,424	0.011%
JNLDOFA U.S. Core Equity Fund	Tesla Inc			Equity	24,037	6,288,800	0.433%
JNLDOFA U.S. Core Equity Fund	Primerica, Inc.			Equity	3,366	892,495	0.061%
JNLDOFA U.S. Core Equity Fund	First American Financial Corporation			Equity	7,684	507,221	0.035%
JNLDOFA U.S. Core Equity Fund	Acadia Healthcare Company, Inc.			Equity	5,700	361,437	0.025%
JNLDOFA U.S. Core Equity Fund	Boaz Allen Hamilton Holding Corporation			Equity	9,283	859,861	0.059%
JNLDOFA U.S. Core Equity Fund	Signet Jewelers Limited			Equity	3,837	395,748	0.027%
JNLDOFA U.S. Core Equity Fund	Accenture Public Limited Company			Equity	12,875	4,551,055	0.313%
JNLDOFA U.S. Core Equity Fund	Stanley Black & Decker, Inc.			Equity	6,315	695,471	0.048%
JNLDOFA U.S. Core Equity Fund	O'Reilly Automotive, Inc.			Equity	1,212	1,395,739	0.096%
JNLDOFA U.S. Core Equity Fund	Addus HomeCare Corporation			Equity	1,110	147,663	0.010%
JNLDOFA U.S. Core Equity Fund	Maiden Holdings, Ltd.			Equity	9,234	16,344	0.001%
JNLDOFA U.S. Core Equity Fund	Select Medical Holdings Corporation			Equity	9,501	331,300	0.023%
JNLDOFA U.S. Core Equity Fund	SS&C Technologies Holdings, Inc.			Equity	9,556	709,151	0.049%
JNLDOFA U.S. Core Equity Fund	DHT Holdings, Inc.			Equity	12,409	138,871	0.009%
JNLDOFA U.S. Core Equity Fund	Motorola Solutions, Inc.			Equity	4,100	1,847,501	0.127%
JNLDOFA U.S. Core Equity Fund	Hillenbrand, Inc.			Equity	5,452	151,566	0.010%
JNLDOFA U.S. Core Equity Fund	Cosmaware Inc.			Equity	8,000	125,760	0.009%
JNLDOFA U.S. Core Equity Fund	Thermon Group Holdings, Inc.			Equity	2,681	80,001	0.006%
JNLDOFA U.S. Core Equity Fund	Magnachip Semiconductor Corporation			Equity	4,054	18,932	0.001%
JNLDOFA U.S. Core Equity Fund	FutureFuel Corp.			Equity	3,610	20,758	0.001%
JNLDOFA U.S. Core Equity Fund	Ingruent Incorporated			Equity	4,897	672,995	0.046%
JNLDOFA U.S. Core Equity Fund	LPL Financial Holdings Inc.			Equity	7,431	798,154	0.055%
JNLDOFA U.S. Core Equity Fund	Oppenheimer Holdings Inc.			Equity	1,091	55,816	0.004%
JNLDOFA U.S. Core Equity Fund	Fortinet, Inc.			Equity	14,893	1,154,952	0.079%
JNLDOFA U.S. Core Equity Fund	Ziff Davis, Inc.			Equity	3,505	170,553	0.012%
JNLDOFA U.S. Core Equity Fund	MGT Processing, Inc.			Equity	1,882	156,677	0.011%
JNLDOFA U.S. Core Equity Fund	XPO, Inc.			Equity	7,684	826,107	0.057%
JNLDOFA U.S. Core Equity Fund	Ryerson Holding Corporation			Equity	2,600	51,766	0.004%
JNLDOFA U.S. Core Equity Fund	Targa Resources Corp.			Equity	9,002	1,332,386	0.092%
JNLDOFA U.S. Core Equity Fund	Douglas Dynamics, Inc.			Equity	2,817	77,693	0.005%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	HCA Healthcare, Inc.			Equity	4,015	1,631,816	0.112%
JNLDOFA U.S. Core Equity Fund	Cleaver Paper Corporation			Equity	1,989	56,768	0.004%
JNLDOFA U.S. Core Equity Fund	Ralph Lauren Corporation			Equity	3,796	739,062	0.051%
JNLDOFA U.S. Core Equity Fund	Yelp Inc.			Equity	4,817	168,980	0.012%
JNLDOFA U.S. Core Equity Fund	Bright Horizons Family Solutions, Inc.			Equity	2,614	366,300	0.025%
JNLDOFA U.S. Core Equity Fund	Telephone and Data Systems, Inc.			Equity	9,380	210,085	0.015%
JNLDOFA U.S. Core Equity Fund	Transcovan Ltd.			Equity	35,396	150,433	0.010%
JNLDOFA U.S. Core Equity Fund	Graphic Packaging Holding Company			Equity	28,829	855,933	0.059%
JNLDOFA U.S. Core Equity Fund	VOXX International Corporation			Equity	1,907	12,129	0.001%
JNLDOFA U.S. Core Equity Fund	QumStreet, Inc.			Equity	2,339	44,745	0.003%
JNLDOFA U.S. Core Equity Fund	Allison Systems, Inc.			Equity	7,808	720,115	0.052%
JNLDOFA U.S. Core Equity Fund	The Wendy's Company			Equity	15,900	278,568	0.019%
JNLDOFA U.S. Core Equity Fund	Expedia Group, Inc.			Equity	2,947	436,215	0.030%
JNLDOFA U.S. Core Equity Fund	American Water Works Company, Inc.			Equity	3,348	489,612	0.034%
JNLDOFA U.S. Core Equity Fund	PVH Corp.			Equity	4,788	492,484	0.033%
JNLDOFA U.S. Core Equity Fund	General Motors Company			Equity	40,507	1,816,334	0.125%
JNLDOFA U.S. Core Equity Fund	Aptiv PLC			Equity	7,808	562,254	0.039%
JNLDOFA U.S. Core Equity Fund	Phillips 66			Equity	14,454	1,899,978	0.131%
JNLDOFA U.S. Core Equity Fund	Dollar General Corporation			Equity	9,057	765,950	0.053%
JNLDOFA U.S. Core Equity Fund	LyondellBasell Industries N.V.			Equity	17,459	1,674,318	0.115%
JNLDOFA U.S. Core Equity Fund	Xylem Inc.			Equity	6,690	903,351	0.062%
JNLDOFA U.S. Core Equity Fund	United Airlines Holdings, Inc.			Equity	20,045	1,143,768	0.079%
JNLDOFA U.S. Core Equity Fund	MYR Group Inc.			Equity	1,580	161,523	0.011%
JNLDOFA U.S. Core Equity Fund	Pacira Pharmaceuticals, Inc.			Equity	2,998	45,120	0.003%
JNLDOFA U.S. Core Equity Fund	Visteon Corporation			Equity	1,197	114,002	0.008%
JNLDOFA U.S. Core Equity Fund	Genie Energy Ltd.			Equity	1,983	32,224	0.002%
JNLDOFA U.S. Core Equity Fund	QuadGraphics, Inc.			Equity	4,455	20,228	0.001%
JNLDOFA U.S. Core Equity Fund	Ally Financial Inc.			Equity	23,583	839,319	0.058%
JNLDOFA U.S. Core Equity Fund	Pacific Biosciences of California, Inc.			Equity	5,500	9,350	0.001%
JNLDOFA U.S. Core Equity Fund	Grant Canyon Education, Inc.			Equity	1,618	229,513	0.016%
JNLDOFA U.S. Core Equity Fund	Audgen, Inc.			Equity	5,354	75,963	0.005%
JNLDOFA U.S. Core Equity Fund	Calix, Inc.			Equity	4,013	155,664	0.011%
JNLDOFA U.S. Core Equity Fund	Hyster-Yale, Inc.			Equity	1,120	71,422	0.005%
JNLDOFA U.S. Core Equity Fund	AMC Networks, Inc.			Equity	4,336	37,680	0.003%
JNLDOFA U.S. Core Equity Fund	The Chefs' Warehouse, Inc.			Equity	2,531	106,327	0.007%
JNLDOFA U.S. Core Equity Fund	Pilgrim's Pride Corporation			Equity	6,524	300,125	0.021%
JNLDOFA U.S. Core Equity Fund	Cooper-Standard Holdings Inc.			Equity	3,023	41,929	0.003%
JNLDOFA U.S. Core Equity Fund	Northwest Bancshares, Inc.			Equity	12,137	162,393	0.011%
JNLDOFA U.S. Core Equity Fund	Midland States Bancorp, Inc.			Equity	1,539	34,443	0.002%
JNLDOFA U.S. Core Equity Fund	Territorial Bancorp Inc.			Equity	1,103	11,907	0.001%
JNLDOFA U.S. Core Equity Fund	Alpha and Omega Semiconductor Limited			Equity	3,305	122,682	0.008%
JNLDOFA U.S. Core Equity Fund	Proto Labs, Inc.			Equity	1,767	51,897	0.004%
JNLDOFA U.S. Core Equity Fund	Visa Inc.			Equity	35,937	9,880,878	0.680%
JNLDOFA U.S. Core Equity Fund	United Fire Group, Inc.			Equity	2,902	62,822	0.004%
JNLDOFA U.S. Core Equity Fund	Verisk Analytics, Inc.			Equity	5,188	1,390,176	0.096%
JNLDOFA U.S. Core Equity Fund	Virtus Investment Partners, Inc.			Equity	803	168,188	0.012%
JNLDOFA U.S. Core Equity Fund	Realogy Holdings Corp.			Equity	13,131	66,705	0.005%
JNLDOFA U.S. Core Equity Fund	Hyatt Hotels Corporation			Equity	1,874	285,233	0.020%
JNLDOFA U.S. Core Equity Fund	Mosaic Company, The			Equity	15,369	411,582	0.028%
JNLDOFA U.S. Core Equity Fund	Ameresco, Inc.			Equity	1,145	43,441	0.003%
JNLDOFA U.S. Core Equity Fund	Regional Management Corp.			Equity	1,794	58,682	0.004%
JNLDOFA U.S. Core Equity Fund	Genetec Holdings Inc.			Equity	1,756	278,993	0.019%
JNLDOFA U.S. Core Equity Fund	Lear Corporation			Equity	4,023	439,110	0.030%
JNLDOFA U.S. Core Equity Fund	Envestnet, Inc.			Equity	1,753	109,773	0.008%
JNLDOFA U.S. Core Equity Fund	Garmin Ltd.			Equity	6,107	1,075,015	0.074%
JNLDOFA U.S. Core Equity Fund	MACOM Technology Solutions Holdings, Inc.			Equity	2,579	286,940	0.020%
JNLDOFA U.S. Core Equity Fund	Alkermes Public Limited Company			Equity	9,043	353,114	0.021%
JNLDOFA U.S. Core Equity Fund	Globus Medical, Inc.			Equity	739	52,868	0.004%
JNLDOFA U.S. Core Equity Fund	Air Lease Corporation			Equity	10,188	463,554	0.032%
JNLDOFA U.S. Core Equity Fund	Fortune Brands Innovations, Inc.			Equity	8,068	122,328	0.009%
JNLDOFA U.S. Core Equity Fund	Chubb Limited			Equity	8,989	2,600,228	0.178%
JNLDOFA U.S. Core Equity Fund	EPAM Systems, Inc.			Equity	1,330	264,710	0.018%
JNLDOFA U.S. Core Equity Fund	Kinder Morgan, Inc.			Equity	53,554	1,183,008	0.081%
JNLDOFA U.S. Core Equity Fund	PBF Energy Inc.			Equity	11,987	370,998	0.026%
JNLDOFA U.S. Core Equity Fund	Qualex Building Products Corporation			Equity	3,603	99,983	0.007%
JNLDOFA U.S. Core Equity Fund	Zurich American Corporation			Equity	5,428	332,465	0.023%
JNLDOFA U.S. Core Equity Fund	Marriott Vacations Worldwide Corporation			Equity	1,927	143,060	0.010%
JNLDOFA U.S. Core Equity Fund	Philip Morris International Inc.			Equity	31,278	3,839,375	0.264%
JNLDOFA U.S. Core Equity Fund	Green Dot Corporation			Equity	3,481	40,763	0.003%
JNLDOFA U.S. Core Equity Fund	Liberty Latin America Ltd.			Equity	2,136	20,463	0.001%
JNLDOFA U.S. Core Equity Fund	Gogo, Inc.			Equity	3,200	22,976	0.002%
JNLDOFA U.S. Core Equity Fund	Destination XL Group, Inc.			Equity	4,487	13,192	0.001%
JNLDOFA U.S. Core Equity Fund	Acushnet Holdings Corp.			Equity	4,867	365,271	0.025%
JNLDOFA U.S. Core Equity Fund	HCI Group, Inc.			Equity	1,519	162,624	0.011%
JNLDOFA U.S. Core Equity Fund	Berry Global Group, Inc.			Equity	11,681	794,074	0.055%
JNLDOFA U.S. Core Equity Fund	Ichor Holdings, Ltd.			Equity	2,432	77,362	0.005%
JNLDOFA U.S. Core Equity Fund	Arcadis Technologies, Inc.			Equity	2,176	29,154	0.002%
JNLDOFA U.S. Core Equity Fund	MRC Global Inc.			Equity	9,531	121,425	0.008%
JNLDOFA U.S. Core Equity Fund	Solaris Energy Infrastructure, Inc.			Equity	1,954	24,933	0.002%
JNLDOFA U.S. Core Equity Fund	Meta Platforms, Inc.			Equity	50,033	28,640,891	1.971%
JNLDOFA U.S. Core Equity Fund	Kinsale Capital Group, Inc.			Equity	1,272	592,205	0.041%
JNLDOFA U.S. Core Equity Fund	Fox Factory Holding Corp.			Equity	3,102	128,133	0.009%
JNLDOFA U.S. Core Equity Fund	Duke Energy Corporation			Equity	14,803	1,706,786	0.117%
JNLDOFA U.S. Core Equity Fund	Liberty Latin America Ltd.			Equity	12,622	119,783	0.008%
JNLDOFA U.S. Core Equity Fund	Amneal Pharmaceuticals, Inc.			Equity	4,901	40,776	0.003%
JNLDOFA U.S. Core Equity Fund	Valdine, Inc.			Equity	6,444	269,681	0.019%
JNLDOFA U.S. Core Equity Fund	Camping World Holdings, Inc.			Equity	3,689	89,348	0.006%
JNLDOFA U.S. Core Equity Fund	Fossil Group, Inc.			Equity	5,202	6,086	0.000%
JNLDOFA U.S. Core Equity Fund	ServiceNow, Inc.			Equity	1,831	1,637,628	0.113%
JNLDOFA U.S. Core Equity Fund	Qualys, Inc.			Equity	1,638	100,817	0.007%
JNLDOFA U.S. Core Equity Fund	Diamondback Energy, Inc.			Equity	11,172	1,926,036	0.133%
JNLDOFA U.S. Core Equity Fund	Playa Hotels & Resorts N.V.			Equity	12,868	99,727	0.007%
JNLDOFA U.S. Core Equity Fund	Strasays, Inc.			Equity	5,197	10,039	0.001%
JNLDOFA U.S. Core Equity Fund	ConnectOne Bancorp, Inc.			Equity	5,511	138,051	0.009%
JNLDOFA U.S. Core Equity Fund	Ribbon Communications Inc.			Equity	6,942	22,562	0.002%
JNLDOFA U.S. Core Equity Fund	CDW Corp.			Equity	4,727	1,069,720	0.074%
JNLDOFA U.S. Core Equity Fund	Willis Towers Watson Public Limited Company			Equity	3,208	947,675	0.065%
JNLDOFA U.S. Core Equity Fund	Popular, Inc.			Equity	6,302	635,809	0.044%
JNLDOFA U.S. Core Equity Fund	Ingevity Corporation			Equity	3,901	152,139	0.010%
JNLDOFA U.S. Core Equity Fund	Zoetis Inc.			Equity	11,978	2,340,262	0.161%
JNLDOFA U.S. Core Equity Fund	National Research Corporation			Equity	700	16,086	0.001%
JNLDOFA U.S. Core Equity Fund	US Foods Holding Corp.			Equity	15,594	899,091	0.061%
JNLDOFA U.S. Core Equity Fund	Shutterstock, Inc.			Equity	2,425	85,772	0.006%
JNLDOFA U.S. Core Equity Fund	Novanta Inc.			Equity	1,961	350,862	0.024%
JNLDOFA U.S. Core Equity Fund	Taylor Morrison Home II Corporation			Equity	8,595	603,885	0.042%
JNLDOFA U.S. Core Equity Fund	OFC Bancorp			Equity	6,212	280,596	0.019%
JNLDOFA U.S. Core Equity Fund	Intrepid Holdings Corporation			Equity	2,886	376,480	0.026%
JNLDOFA U.S. Core Equity Fund	Under Armour, Inc.			Equity	13,886	116,087	0.008%
JNLDOFA U.S. Core Equity Fund	ATN International, Inc.			Equity	2,576	83,926	0.006%
JNLDOFA U.S. Core Equity Fund	Bloomer Brands, Inc.			Equity	4,947	81,774	0.006%
JNLDOFA U.S. Core Equity Fund	Atlanticus Holdings Corporation			Equity	989	34,659	0.002%
JNLDOFA U.S. Core Equity Fund	Trade Desk, Inc. The			Equity	5,376	589,478	0.041%
JNLDOFA U.S. Core Equity Fund	Natural Grocers By Vitamin Cottage, Inc.			Equity	2,116	62,824	0.004%
JNLDOFA U.S. Core Equity Fund	HomeTrust Bancshares, Inc.			Equity	1,435	48,905	0.003%
JNLDOFA U.S. Core Equity Fund	Byline Bancorp, Inc.			Equity	3,460	92,124	0.006%
JNLDOFA U.S. Core Equity Fund	News Corporation			Equity	16,964	453,448	0.031%
JNLDOFA U.S. Core Equity Fund	Adient Public Limited Company			Equity	5,606	126,527	0.009%
JNLDOFA U.S. Core Equity Fund	Murphy USA Inc.			Equity	1,523	750,641	0.052%
JNLDOFA U.S. Core Equity Fund	State of California, Inc.			Equity	10,421	154,543	0.011%
JNLDOFA U.S. Core Equity Fund	Ambac Financial Group, Inc.			Equity	4,081	45,748	0.003%
JNLDOFA U.S. Core Equity Fund	KKR & Co. Inc.			Equity	10,120	1,321,470	0.091%
JNLDOFA U.S. Core Equity Fund	Avanos Medical, Inc.			Equity	4,538	109,048	0.008%
JNLDOFA U.S. Core Equity Fund	Genentech Incorporated			Equity	2,514	117,027	0.008%
JNLDOFA U.S. Core Equity Fund	Dave & Buster's Entertainment, Inc.			Equity	4,158	141,580	0.010%
JNLDOFA U.S. Core Equity Fund	Qurate Retail, Inc.			Equity	36,657	22,364	0.002%
JNLDOFA U.S. Core Equity Fund	Tenet Healthcare Corporation			Equity	7,545	1,253,979	0.086%
JNLDOFA U.S. Core Equity Fund	Sprouts Farmers Market, Inc.			Equity	6,037	886,261	0.061%
JNLDOFA U.S. Core Equity Fund	Enanta Pharmaceuticals, Inc.			Equity	1,590	16,472	0.001%
JNLDOFA U.S. Core Equity Fund	Artisan Partners Asset Management Inc.			Equity	3,689	159,807	0.011%
JNLDOFA U.S. Core Equity Fund	News Corporation			Equity	7,539	211,469	0.015%
JNLDOFA U.S. Core Equity Fund	First Hawaiian, Inc.			Equity	6,507	186,937	0.014%
JNLDOFA U.S. Core Equity Fund	Medpace Holdings, Inc.			Equity	1,286	426,221	0.030%
JNLDOFA U.S. Core Equity Fund	Armstrong Shipping Services (Ireland) Limited			Equity	4,300	77,830	0.005%
JNLDOFA U.S. Core Equity Fund	Yext, Inc.			Equity	9,700	67,124	0.005%
JNLDOFA U.S. Core Equity Fund	GoDaddy Inc.			Equity	3,338	623,332	0.036%
JNLDOFA U.S. Core Equity Fund	QVIA Holdings Inc.			Equity	6,680	1,582,960	0.109%
JNLDOFA U.S. Core Equity Fund	Fate Therapeutics, Inc.			Equity	1,541	5,394	0.000%
JNLDOFA U.S. Core Equity Fund	Lions Gate Entertainment Corp.			Equity	15,643	108,250	0.007%
JNLDOFA U.S. Core Equity Fund	PTC Inc.			Equity	2,757	486,080	0.034%
JNLDOFA U.S. Core Equity Fund	Exaro Group Holdings N.V.			Equity	3,638	62,464	0.004%
JNLDOFA U.S. Core Equity Fund	Five Below, Inc.			Equity	3,154	278,656	0.019%
JNLDOFA U.S. Core Equity Fund	Hubbell Incorporated			Equity	1,543	660,944	0.045%
JNLDOFA U.S. Core Equity Fund	Interface, Inc.			Equity	8,306	157,565	0.011%
JNLDOFA U.S. Core Equity Fund	Galco Industrial Corporation PLC			Equity	9,219	91,563	0.006%
JNLDOFA U.S. Core Equity Fund	Tidewater Inc.			Equity	2,979	213,862	0.015%
JNLDOFA U.S. Core Equity Fund	T-Mobile US, Inc.			Equity	14,774	3,048,763	0.210%
JNLDOFA U.S. Core Equity Fund	American Airlines Group Inc.			Equity	23,251	261,341	0.018%
JNLDOFA U.S. Core Equity Fund	The Marlowe Company, Inc.			Equity	3,607	34,699	0.002%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Lions Gate Entertainment Corp.			Equity	4,516	35,360	0.002%
JNLDOFA U.S. Core Equity Fund	Innovative, Inc.			Equity	11,923	230,233	0.016%
JNLDOFA U.S. Core Equity Fund	REV Group, Inc.			Equity	6,517	183,193	0.013%
JNLDOFA U.S. Core Equity Fund	IES Holdings, Inc.			Equity	2,073	413,812	0.028%
JNLDOFA U.S. Core Equity Fund	Snap Inc.			Equity	29,865	308,856	0.021%
JNLDOFA U.S. Core Equity Fund	Mondelēz International, Inc.			Equity	24,723	1,832,793	0.120%
JNLDOFA U.S. Core Equity Fund	Tellico Inc.			Equity	5,703	371,950	0.026%
JNLDOFA U.S. Core Equity Fund	Denali Therapeutics Inc.			Equity	5,363	156,224	0.011%
JNLDOFA U.S. Core Equity Fund	AbbVie Inc.			Equity	43,998	8,688,725	0.588%
JNLDOFA U.S. Core Equity Fund	National Bank Holdings Corporation			Equity	3,051	128,447	0.009%
JNLDOFA U.S. Core Equity Fund	TRI Parale Homes Holdings, Inc.			Equity	7,658	346,984	0.024%
JNLDOFA U.S. Core Equity Fund	SEACOR Marine Holdings Inc.			Equity	1,883	18,171	0.001%
JNLDOFA U.S. Core Equity Fund	Tile Shop Holdings, Inc.			Equity	6,926	45,642	0.003%
JNLDOFA U.S. Core Equity Fund	Chuy's Holdings, Inc.			Equity	1,834	68,592	0.005%
JNLDOFA U.S. Core Equity Fund	Reaser Homes USA, Inc.			Equity	4,823	164,892	0.011%
JNLDOFA U.S. Core Equity Fund	Sammira Corporation			Equity	3,200	219,040	0.015%
JNLDOFA U.S. Core Equity Fund	Bank of N.T. Butterfield & Son Limited, The			Equity	5,559	205,016	0.014%
JNLDOFA U.S. Core Equity Fund	Tiptree Inc.			Equity	2,955	57,829	0.004%
JNLDOFA U.S. Core Equity Fund	Genco Shipping & Trading Limited			Equity	759	14,801	0.001%
JNLDOFA U.S. Core Equity Fund	Boise Cascade Company			Equity	4,533	639,062	0.044%
JNLDOFA U.S. Core Equity Fund	Palo Alto Networks, Inc.			Equity	4,090	1,397,962	0.096%
JNLDOFA U.S. Core Equity Fund	Metropolitan Bank Holding Corp.			Equity	1,316	69,195	0.005%
JNLDOFA U.S. Core Equity Fund	Vimeo Imaging Corporation			Equity	5,978	71,758	0.005%
JNLDOFA U.S. Core Equity Fund	Matson Intermodal - Paragon, Inc.			Equity	3,674	523,986	0.036%
JNLDOFA U.S. Core Equity Fund	Independent Bank Group, Inc.			Equity	4,174	240,673	0.017%
JNLDOFA U.S. Core Equity Fund	Icon Public Limited Company			Equity	176	50,567	0.003%
JNLDOFA U.S. Core Equity Fund	Northfield Bancorp Inc.			Equity	5,273	61,167	0.004%
JNLDOFA U.S. Core Equity Fund	Okta, Inc.			Equity	5,586	415,263	0.029%
JNLDOFA U.S. Core Equity Fund	Prothena Corporation Public Limited Company			Equity	2,873	48,065	0.003%
JNLDOFA U.S. Core Equity Fund	Lamb Weston Holdings, Inc.			Equity	5,463	353,675	0.024%
JNLDOFA U.S. Core Equity Fund	Tapestry, Inc.			Equity	20,748	974,741	0.670%
JNLDOFA U.S. Core Equity Fund	ANI Pharmaceuticals, Inc.			Equity	786	46,893	0.003%
JNLDOFA U.S. Core Equity Fund	Bluebird Bio, Inc.			Equity	3,833	1,991	0.000%
JNLDOFA U.S. Core Equity Fund	Sarepta Therapeutics, Inc.			Equity	1,202	150,118	0.010%
JNLDOFA U.S. Core Equity Fund	Norwegian Cruise Line Holdings Ltd.			Equity	8,246	169,125	0.012%
JNLDOFA U.S. Core Equity Fund	United Parks And Resorts Inc.			Equity	3,085	109,154	0.007%
JNLDOFA U.S. Core Equity Fund	Wvex, Inc.			Equity	2,677	561,447	0.039%
JNLDOFA U.S. Core Equity Fund	Alkore Inc.			Equity	4,378	370,992	0.026%
JNLDOFA U.S. Core Equity Fund	Eaton Corporation Public Limited Company			Equity	6,709	2,223,631	0.153%
JNLDOFA U.S. Core Equity Fund	City Inc.			Equity	58,502	611,774	0.039%
JNLDOFA U.S. Core Equity Fund	Baker Hughes Company			Equity	35,207	1,272,733	0.088%
JNLDOFA U.S. Core Equity Fund	Select Energy Services, Inc.			Equity	11,763	130,922	0.009%
JNLDOFA U.S. Core Equity Fund	Blackline, Inc.			Equity	2,359	130,075	0.009%
JNLDOFA U.S. Core Equity Fund	Workday, Inc.			Equity	1,659	405,476	0.028%
JNLDOFA U.S. Core Equity Fund	Potbelly Corporation			Equity	2,064	17,214	0.001%
JNLDOFA U.S. Core Equity Fund	Mammoth Energy Services, Inc.			Equity	2,288	9,358	0.001%
JNLDOFA U.S. Core Equity Fund	Geospace Technologies Corporation			Equity	700	7,238	0.000%
JNLDOFA U.S. Core Equity Fund	Tilly's, Inc.			Equity	1,109	5,610	0.000%
JNLDOFA U.S. Core Equity Fund	Former Charter Communications Parent, Inc.			Equity	4,269	1,383,498	0.095%
JNLDOFA U.S. Core Equity Fund	Fidelity National Financial, Inc.			Equity	12,531	777,674	0.054%
JNLDOFA U.S. Core Equity Fund	Peabody Energy Corporation			Equity	11,982	318,002	0.022%
JNLDOFA U.S. Core Equity Fund	The Cigna Group			Equity	9,095	3,150,872	0.217%
JNLDOFA U.S. Core Equity Fund	Alcoa USA, Inc.			Equity	13,401	32,966	0.002%
JNLDOFA U.S. Core Equity Fund	Premier Healthcare Solutions, Inc.			Equity	9,256	185,120	0.013%
JNLDOFA U.S. Core Equity Fund	TechnipFMC PLC			Equity	27,308	716,289	0.049%
JNLDOFA U.S. Core Equity Fund	MacroGenics, Inc.			Equity	3,147	10,354	0.000%
JNLDOFA U.S. Core Equity Fund	MMI Holdings, Inc.			Equity	1,108	292,779	0.020%
JNLDOFA U.S. Core Equity Fund	Vistra Corp.			Equity	16,114	1,910,154	0.131%
JNLDOFA U.S. Core Equity Fund	Chegg, Inc.			Equity	4,418	7,820	0.001%
JNLDOFA U.S. Core Equity Fund	Herc Holdings Inc.			Equity	2,945	469,521	0.032%
JNLDOFA U.S. Core Equity Fund	Forestar Group Inc.			Equity	2,044	66,164	0.005%
JNLDOFA U.S. Core Equity Fund	Travelzoo			Equity	1,035	12,472	0.001%
JNLDOFA U.S. Core Equity Fund	TTEC Holdings, Inc.			Equity	4,560	26,767	0.002%
JNLDOFA U.S. Core Equity Fund	DocuSign, Inc.			Equity	3,754	233,086	0.016%
JNLDOFA U.S. Core Equity Fund	Floor & Decor Holdings, Inc.			Equity	5,848	728,146	0.049%
JNLDOFA U.S. Core Equity Fund	Cactus, Inc.			Equity	3,841	229,192	0.016%
JNLDOFA U.S. Core Equity Fund	Par Pacific Holdings, Inc.			Equity	7,052	124,115	0.009%
JNLDOFA U.S. Core Equity Fund	Ediara Medicine, Inc.			Equity	1,787	6,094	0.000%
JNLDOFA U.S. Core Equity Fund	Spok Holdings, Inc.			Equity	2,082	31,265	0.002%
JNLDOFA U.S. Core Equity Fund	Essent Group Ltd.			Equity	8,409	540,615	0.037%
JNLDOFA U.S. Core Equity Fund	Evergy, Inc.			Equity	6,954	431,218	0.030%
JNLDOFA U.S. Core Equity Fund	Xencor, Inc.			Equity	4,322	86,915	0.006%
JNLDOFA U.S. Core Equity Fund	Raychem Advanced Materials Inc.			Equity	11,436	97,493	0.007%
JNLDOFA U.S. Core Equity Fund	Metallus Inc.			Equity	4,501	66,750	0.005%
JNLDOFA U.S. Core Equity Fund	First Foundation Inc.			Equity	4,094	25,547	0.002%
JNLDOFA U.S. Core Equity Fund	Arctost Corporation			Equity	1,918	208,007	0.014%
JNLDOFA U.S. Core Equity Fund	Science Applications International Corporation			Equity	3,936	549,167	0.038%
JNLDOFA U.S. Core Equity Fund	GrafTech International Ltd.			Equity	12,253	16,174	0.001%
JNLDOFA U.S. Core Equity Fund	Trupanion, Inc.			Equity	1,000	41,980	0.003%
JNLDOFA U.S. Core Equity Fund	PJT Partners Inc.			Equity	1,058	141,074	0.010%
JNLDOFA U.S. Core Equity Fund	CHX Resources Corporation			Equity	14,616	476,043	0.033%
JNLDOFA U.S. Core Equity Fund	CONSOL Energy Inc.			Equity	3,511	367,426	0.025%
JNLDOFA U.S. Core Equity Fund	Southstate Corporation			Equity	5,485	533,032	0.037%
JNLDOFA U.S. Core Equity Fund	O2 Holdings, Inc.			Equity	2,105	167,916	0.012%
JNLDOFA U.S. Core Equity Fund	Axon Enterprise, Inc.			Equity	1,394	557,042	0.038%
JNLDOFA U.S. Core Equity Fund	Knight-Swift Transportation Holdings Inc.			Equity	9,841	530,922	0.036%
JNLDOFA U.S. Core Equity Fund	Berry Corporation (Bry)			Equity	5,388	27,694	0.002%
JNLDOFA U.S. Core Equity Fund	A10 Networks, Inc.			Equity	4,912	70,929	0.005%
JNLDOFA U.S. Core Equity Fund	RingCentral, Inc.			Equity	1,850	58,516	0.004%
JNLDOFA U.S. Core Equity Fund	Warrior Met Coal, Inc.			Equity	4,479	298,206	0.020%
JNLDOFA U.S. Core Equity Fund	Cleveland-Cliffs Inc.			Equity	35,199	449,486	0.031%
JNLDOFA U.S. Core Equity Fund	Dorian LPG Ltd.			Equity	2,920	100,506	0.007%
JNLDOFA U.S. Core Equity Fund	One Gas, Inc.			Equity	3,655	272,005	0.019%
JNLDOFA U.S. Core Equity Fund	Qoro, Inc.			Equity	6,058	605,791	0.043%
JNLDOFA U.S. Core Equity Fund	Malibu Boats, Inc.			Equity	1,623	62,989	0.004%
JNLDOFA U.S. Core Equity Fund	Pentair Public Limited Company			Equity	10,360	1,013,104	0.070%
JNLDOFA U.S. Core Equity Fund	Aramark			Equity	15,435	597,798	0.041%
JNLDOFA U.S. Core Equity Fund	Simply Good Foods Company, The			Equity	6,837	237,723	0.016%
JNLDOFA U.S. Core Equity Fund	Sensata Technologies Holding PLC			Equity	11,959	428,850	0.030%
JNLDOFA U.S. Core Equity Fund	Globant S.A.			Equity	1,467	290,671	0.020%
JNLDOFA U.S. Core Equity Fund	Lands' End, Inc.			Equity	1,502	25,840	0.002%
JNLDOFA U.S. Core Equity Fund	Florida Rock Properties, Inc.			Equity	1,060	31,060	0.002%
JNLDOFA U.S. Core Equity Fund	OneSpan Inc.			Equity	3,369	56,161	0.004%
JNLDOFA U.S. Core Equity Fund	Seacoast Banking Corporation of Florida			Equity	3,771	100,497	0.007%
JNLDOFA U.S. Core Equity Fund	Brighthouse Financial, Inc.			Equity	7,317	329,485	0.023%
JNLDOFA U.S. Core Equity Fund	Navient Corporation			Equity	12,051	187,875	0.013%
JNLDOFA U.S. Core Equity Fund	Burlington Stores, Inc.			Equity	2,410	534,987	0.044%
JNLDOFA U.S. Core Equity Fund	HealthEquity, Inc.			Equity	4,709	385,432	0.027%
JNLDOFA U.S. Core Equity Fund	Waterstone Financial, Inc.			Equity	3,264	47,981	0.003%
JNLDOFA U.S. Core Equity Fund	Deltek US Holdings, Inc.			Equity	8,466	158,738	0.011%
JNLDOFA U.S. Core Equity Fund	Dropbox, Inc.			Equity	15,549	395,411	0.027%
JNLDOFA U.S. Core Equity Fund	Pacifycity Holding Corporation			Equity	1,254	206,872	0.014%
JNLDOFA U.S. Core Equity Fund	Enlink Midstream, LLC			Equity	36,564	530,544	0.037%
JNLDOFA U.S. Core Equity Fund	Biglari Holdings Inc.			Equity	11	9,156	0.001%
JNLDOFA U.S. Core Equity Fund	Hamilton Lane Incorporated			Equity	1,474	248,929	0.017%
JNLDOFA U.S. Core Equity Fund	James River Group, Inc.			Equity	1,574	9,869	0.001%
JNLDOFA U.S. Core Equity Fund	Broadcom Inc.			Equity	56,386	9,726,585	0.669%
JNLDOFA U.S. Core Equity Fund	Leidos Holdings, Inc.			Equity	5,807	946,541	0.065%
JNLDOFA U.S. Core Equity Fund	SevensFirst Bancshares, Inc.			Equity	3,945	317,375	0.022%
JNLDOFA U.S. Core Equity Fund	DNCOW Inc.			Equity	13,203	170,715	0.012%
JNLDOFA U.S. Core Equity Fund	Booking Holdings Inc.			Equity	719	3,028,514	0.208%
JNLDOFA U.S. Core Equity Fund	Phibro Animal Health Corporation			Equity	1,588	35,762	0.002%
JNLDOFA U.S. Core Equity Fund	Stock Yards Bancorp, Inc.			Equity	1,923	119,893	0.008%
JNLDOFA U.S. Core Equity Fund	A-Mark Precious Metals, Inc.			Equity	776	34,268	0.002%
JNLDOFA U.S. Core Equity Fund	Truecar, Inc.			Equity	12,271	42,335	0.003%
JNLDOFA U.S. Core Equity Fund	Veeva Systems Inc.			Equity	2,043	428,764	0.030%
JNLDOFA U.S. Core Equity Fund	Mine Safety Appliances Company, LLC			Equity	1,984	351,843	0.024%
JNLDOFA U.S. Core Equity Fund	LGI Homes, Inc.			Equity	2,175	257,781	0.018%
JNLDOFA U.S. Core Equity Fund	Biglari Holdings Inc.			Equity	112	19,265	0.001%
JNLDOFA U.S. Core Equity Fund	Graham Holdings Co., Ltd.			Equity	407	334,440	0.023%
JNLDOFA U.S. Core Equity Fund	NVS Global, Inc.			Equity	1,371	128,161	0.009%
JNLDOFA U.S. Core Equity Fund	ASGN Incorporated			Equity	3,955	368,818	0.026%
JNLDOFA U.S. Core Equity Fund	Spartanesh Company			Equity	5,536	125,266	0.009%
JNLDOFA U.S. Core Equity Fund	Synovus Financial Corp.			Equity	10,395	466,216	0.032%
JNLDOFA U.S. Core Equity Fund	Installed Building Products, Inc.			Equity	2,125	523,324	0.036%
JNLDOFA U.S. Core Equity Fund	Sportsman's Warehouse Holdings, Inc.			Equity	1,136	8,499	0.001%
JNLDOFA U.S. Core Equity Fund	Antero Resources Corporation			Equity	22,015	630,730	0.043%
JNLDOFA U.S. Core Equity Fund	Century Communities, Inc.			Equity	3,401	350,235	0.024%
JNLDOFA U.S. Core Equity Fund	Sleep Number Corporation			Equity	1,412	25,868	0.002%
JNLDOFA U.S. Core Equity Fund	Victory Capital Holdings, Inc.			Equity	2,628	145,591	0.010%
JNLDOFA U.S. Core Equity Fund	Allegion Public Limited Company			Equity	4,767	694,743	0.048%
JNLDOFA U.S. Core Equity Fund	Sage Therapeutics Inc.			Equity	1,309	9,451	0.001%
JNLDOFA U.S. Core Equity Fund	Voya Financial, Inc.			Equity	7,039	557,630	0.038%
JNLDOFA U.S. Core Equity Fund	Intercontinental Exchange, Inc.			Equity	9,467	1,520,779	0.105%
JNLDOFA U.S. Core Equity Fund	Paycom Software, Inc.			Equity	1,712	285,168	0.020%
JNLDOFA U.S. Core Equity Fund	Nishka, Inc.			Equity	3,124	38,175	0.003%
JNLDOFA U.S. Core Equity Fund	ADT, Inc.			Equity	36,228	263,921	0.018%
JNLDOFA U.S. Core Equity Fund	Nvent Electric Public Limited Company			Equity	10,686	750,798	0.052%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	Sterling Bancorp. Inc.			Equity	2,611	11,880	0.001%
JNLDOFA U.S. Core Equity Fund	Wogen, Inc.			Equity	1,203	11,660	0.001%
JNLDOFA U.S. Core Equity Fund	Rafael Holdings, Inc.			Equity	1,390	2,697	0.000%
JNLDOFA U.S. Core Equity Fund	Applied Optoelectronics, Inc.			Equity	1,025	14,668	0.001%
JNLDOFA U.S. Core Equity Fund	ITT Inc.			Equity	5,542	828,584	0.057%
JNLDOFA U.S. Core Equity Fund	Argh Inc.			Equity	7,389	19,064	0.001%
JNLDOFA U.S. Core Equity Fund	Marcus & Millichap Company			Equity	2,391	96,535	0.007%
JNLDOFA U.S. Core Equity Fund	Wyndham Hotels & Resorts, Inc.			Equity	6,965	544,245	0.037%
JNLDOFA U.S. Core Equity Fund	CNH Industrial N.V.			Equity	6,208	68,909	0.005%
JNLDOFA U.S. Core Equity Fund	Jefferies Financial Group Inc.			Equity	14,402	886,443	0.061%
JNLDOFA U.S. Core Equity Fund	Knowles Corporation			Equity	8,496	193,183	0.011%
JNLDOFA U.S. Core Equity Fund	Arista Networks, Inc.			Equity	3,549	1,362,177	0.094%
JNLDOFA U.S. Core Equity Fund	Spotify Technology S.A.			Equity	1,107	407,963	0.028%
JNLDOFA U.S. Core Equity Fund	Perrigo Company Public Limited Company			Equity	8,626	231,506	0.016%
JNLDOFA U.S. Core Equity Fund	Copro Inc.			Equity	7,900	107,744	0.007%
JNLDOFA U.S. Core Equity Fund	S&P Global Inc.			Equity	5,040	2,603,765	0.179%
JNLDOFA U.S. Core Equity Fund	Talos Energy Inc.			Equity	7,384	76,424	0.005%
JNLDOFA U.S. Core Equity Fund	Dwight A. Walker Real Estate, Inc.			Equity	2,998	37,325	0.003%
JNLDOFA U.S. Core Equity Fund	Heritage Insurance Holdings, Inc.			Equity	2,662	32,363	0.002%
JNLDOFA U.S. Core Equity Fund	Weatherford International Public Limited Company			Equity	5,305	450,501	0.031%
JNLDOFA U.S. Core Equity Fund	Sunnun Inc.			Equity	14,973	270,412	0.019%
JNLDOFA U.S. Core Equity Fund	Janus Henderson Group PLC			Equity	14,475	551,063	0.038%
JNLDOFA U.S. Core Equity Fund	Intellia Therapeutics, Inc.			Equity	2,809	59,780	0.004%
JNLDOFA U.S. Core Equity Fund	Hamilton Beach Brands Holding Company			Equity	1,000	30,430	0.002%
JNLDOFA U.S. Core Equity Fund	B. Riley & Co., LLC			Equity	1,517	7,964	0.001%
JNLDOFA U.S. Core Equity Fund	Hope Bancorp, Inc.			Equity	12,610	158,382	0.011%
JNLDOFA U.S. Core Equity Fund	SMART Global Holdings, Inc.			Equity	5,599	117,278	0.008%
JNLDOFA U.S. Core Equity Fund	Archrock, Inc.			Equity	13,357	270,346	0.019%
JNLDOFA U.S. Core Equity Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	3,666	356,335	0.025%
JNLDOFA U.S. Core Equity Fund	Kraft Heinz Company, The			Equity	23,109	811,357	0.056%
JNLDOFA U.S. Core Equity Fund	Applifone, Inc.			Equity	500	117,700	0.008%
JNLDOFA U.S. Core Equity Fund	PRA Group, Inc.			Equity	4,477	400,105	0.027%
JNLDOFA U.S. Core Equity Fund	Enova International, Inc.			Equity	3,245	271,899	0.019%
JNLDOFA U.S. Core Equity Fund	Merchants Bancorp, Inc.			Equity	3,043	137,087	0.009%
JNLDOFA U.S. Core Equity Fund	Elevance Health, Inc.			Equity	8,093	2,648,360	0.182%
JNLDOFA U.S. Core Equity Fund	Citizens Financial Group, Inc.			Equity	16,532	670,830	0.047%
JNLDOFA U.S. Core Equity Fund	Duluth Holdings Inc.			Equity	2,722	10,235	0.001%
JNLDOFA U.S. Core Equity Fund	Dynavax Technologies Corporation			Equity	4,452	49,595	0.003%
JNLDOFA U.S. Core Equity Fund	Pennumbra, Inc.			Equity	1,247	242,305	0.017%
JNLDOFA U.S. Core Equity Fund	Planet Fitness, Inc.			Equity	5,023	407,968	0.029%
JNLDOFA U.S. Core Equity Fund	Caleres, Inc.			Equity	4,810	158,971	0.011%
JNLDOFA U.S. Core Equity Fund	Independence Holdings, LLC			Equity	9,967	469,147	0.032%
JNLDOFA U.S. Core Equity Fund	TEGNA Inc.			Equity	12,827	204,013	0.014%
JNLDOFA U.S. Core Equity Fund	Turning Point Brands, Inc.			Equity	1,900	82,118	0.006%
JNLDOFA U.S. Core Equity Fund	Shake Shack, Inc.			Equity	2,507	258,747	0.018%
JNLDOFA U.S. Core Equity Fund	Lantheus Holdings, Inc.			Equity	2,940	322,665	0.022%
JNLDOFA U.S. Core Equity Fund	Townsquare Media, Inc.			Equity	1,603	16,286	0.001%
JNLDOFA U.S. Core Equity Fund	Encorepass Health Corporation			Equity	7,866	190,170	0.013%
JNLDOFA U.S. Core Equity Fund	JELD-WEN Holding, Inc.			Equity	8,525	134,780	0.009%
JNLDOFA U.S. Core Equity Fund	BlueLine Holdings Inc.			Equity	1,152	121,444	0.008%
JNLDOFA U.S. Core Equity Fund	Zillow Group, Inc.			Equity	2,267	140,395	0.010%
JNLDOFA U.S. Core Equity Fund	Regainbio Inc.			Equity	3,429	35,970	0.002%
JNLDOFA U.S. Core Equity Fund	Pure Storage, Inc.			Equity	7,292	366,350	0.025%
JNLDOFA U.S. Core Equity Fund	DMC Global Inc.			Equity	2,210	28,686	0.002%
JNLDOFA U.S. Core Equity Fund	TransUnion			Equity	7,623	798,128	0.055%
JNLDOFA U.S. Core Equity Fund	Walgreens Boots Alliance, Inc.			Equity	25,321	226,876	0.016%
JNLDOFA U.S. Core Equity Fund	Freshtag, Inc.			Equity	1,801	246,323	0.017%
JNLDOFA U.S. Core Equity Fund	LivaNova PLC			Equity	3,535	185,729	0.013%
JNLDOFA U.S. Core Equity Fund	Conduent Incorporated			Equity	14,521	58,520	0.004%
JNLDOFA U.S. Core Equity Fund	Virtu Financial, Inc.			Equity	8,510	259,215	0.018%
JNLDOFA U.S. Core Equity Fund	VZGX, Inc.			Equity	1,288	12,827	0.001%
JNLDOFA U.S. Core Equity Fund	AdvanSix Inc.			Equity	4,302	130,695	0.009%
JNLDOFA U.S. Core Equity Fund	Eversource Energy			Equity	9,713	660,970	0.045%
JNLDOFA U.S. Core Equity Fund	Kimball Electronics Group, LLC			Equity	2,629	48,663	0.003%
JNLDOFA U.S. Core Equity Fund	Sphere Entertainment Co.			Equity	383	79,746	0.005%
JNLDOFA U.S. Core Equity Fund	Teladoc Health, Inc.			Equity	5,473	50,242	0.003%
JNLDOFA U.S. Core Equity Fund	Axalta Coating Systems Ltd.			Equity	19,799	716,526	0.049%
JNLDOFA U.S. Core Equity Fund	Calient, Inc.			Equity	5,737	347,490	0.024%
JNLDOFA U.S. Core Equity Fund	Spirin Inc.			Equity	3,136	213,389	0.015%
JNLDOFA U.S. Core Equity Fund	ETSY, Inc.			Equity	4,315	239,612	0.016%
JNLDOFA U.S. Core Equity Fund	Performance Food Group Company			Equity	9,079	711,521	0.049%
JNLDOFA U.S. Core Equity Fund	Zillow Group, Inc.			Equity	6,018	384,249	0.026%
JNLDOFA U.S. Core Equity Fund	Alphabet Inc.			Equity	112,843	18,115,012	1.288%
JNLDOFA U.S. Core Equity Fund	Vista Outdoor Inc.			Equity	4,668	182,892	0.013%
JNLDOFA U.S. Core Equity Fund	Evolent Health, Inc.			Equity	5,971	168,860	0.012%
JNLDOFA U.S. Core Equity Fund	KeySight Technologies, Inc.			Equity	5,971	848,971	0.065%
JNLDOFA U.S. Core Equity Fund	SiloChae Landscape Supply, Inc.			Equity	2,485	375,011	0.025%
JNLDOFA U.S. Core Equity Fund	Synchrony Financial			Equity	17,712	883,475	0.061%
JNLDOFA U.S. Core Equity Fund	Ferroglobe PLC			Equity	13,189	61,197	0.004%
JNLDOFA U.S. Core Equity Fund	Block, Inc.			Equity	6,918	464,405	0.032%
JNLDOFA U.S. Core Equity Fund	Caliber One, Inc.			Equity	389	136,068	0.009%
JNLDOFA U.S. Core Equity Fund	Sgry, LLC			Equity	3,354	108,133	0.007%
JNLDOFA U.S. Core Equity Fund	Equity Bancshares, Inc.			Equity	1,064	43,656	0.003%
JNLDOFA U.S. Core Equity Fund	Hewlett Packard Enterprise Company			Equity	47,511	978,251	0.067%
JNLDOFA U.S. Core Equity Fund	Red Rock Resorts, Inc.			Equity	3,290	179,108	0.012%
JNLDOFA U.S. Core Equity Fund	GMS, Inc.			Equity	2,427	2,427	0.000%
JNLDOFA U.S. Core Equity Fund	SolarEdge Technologies Ltd.			Equity	1,005	23,025	0.002%
JNLDOFA U.S. Core Equity Fund	Liberty Broadband Corporation			Equity	1,211	93,035	0.006%
JNLDOFA U.S. Core Equity Fund	Alphabet Inc.			Equity	97,133	16,239,666	1.118%
JNLDOFA U.S. Core Equity Fund	WideOpenWest, Inc.			Equity	2,839	14,800	0.001%
JNLDOFA U.S. Core Equity Fund	Dentsply Sirona Inc.			Equity	14,016	381,516	0.026%
JNLDOFA U.S. Core Equity Fund	Live Oak Bancshares, Inc.			Equity	4,321	204,686	0.014%
JNLDOFA U.S. Core Equity Fund	DHI Group, Inc.			Equity	220	405	0.000%
JNLDOFA U.S. Core Equity Fund	Adialem Global Education Inc.			Equity	4,265	321,989	0.022%
JNLDOFA U.S. Core Equity Fund	The Chemours Company			Equity	3,338	67,828	0.005%
JNLDOFA U.S. Core Equity Fund	Propetro Holding Corp.			Equity	10,956	83,923	0.006%
JNLDOFA U.S. Core Equity Fund	Dell Technologies Inc.			Equity	6,392	757,751	0.052%
JNLDOFA U.S. Core Equity Fund	Monster Beverage 1990 Corporation			Equity	13,365	697,252	0.048%
JNLDOFA U.S. Core Equity Fund	Liberty Broadband Corporation			Equity	4,909	379,417	0.026%
JNLDOFA U.S. Core Equity Fund	Hilton Grand Vacations Inc.			Equity	2,102	76,345	0.005%
JNLDOFA U.S. Core Equity Fund	DXC Technology Company			Equity	16,235	336,876	0.023%
JNLDOFA U.S. Core Equity Fund	HubSpot, Inc.			Equity	516	274,266	0.019%
JNLDOFA U.S. Core Equity Fund	HP, Inc.			Equity	27,196	983,015	0.068%
JNLDOFA U.S. Core Equity Fund	PayPal Holdings, Inc.			Equity	19,187	1,497,162	0.103%
JNLDOFA U.S. Core Equity Fund	Johnson Controls International Public Limited Company			Equity	11,933	930,535	0.064%
JNLDOFA U.S. Core Equity Fund	Cars.com Inc.			Equity	9,097	152,468	0.010%
JNLDOFA U.S. Core Equity Fund	First Bussey Corporation			Equity	3,909	101,712	0.007%
JNLDOFA U.S. Core Equity Fund	Zscaler, Inc.			Equity	1,284	219,487	0.015%
JNLDOFA U.S. Core Equity Fund	Advanced Drainage Systems, Inc.			Equity	5,448	856,208	0.059%
JNLDOFA U.S. Core Equity Fund	Nutanix, Inc.			Equity	3,491	206,842	0.014%
JNLDOFA U.S. Core Equity Fund	Bio-Techne Corporation			Equity	3,558	294,931	0.020%
JNLDOFA U.S. Core Equity Fund	Box, Inc.			Equity	4,984	163,126	0.011%
JNLDOFA U.S. Core Equity Fund	The Rmr Group Inc.			Equity	1,893	48,044	0.003%
JNLDOFA U.S. Core Equity Fund	Alam Corp Holdings, Inc.			Equity	2,292	125,304	0.009%
JNLDOFA U.S. Core Equity Fund	Alcoa Corporation			Equity	12,647	467,921	0.034%
JNLDOFA U.S. Core Equity Fund	International Seaways, Inc.			Equity	3,152	162,517	0.011%
JNLDOFA U.S. Core Equity Fund	Schneider National, Inc.			Equity	3,428	98,161	0.007%
JNLDOFA U.S. Core Equity Fund	Collegium Pharmaceutical, Inc.			Equity	1,698	65,611	0.005%
JNLDOFA U.S. Core Equity Fund	Wingspaz Inc.			Equity	967	402,249	0.028%
JNLDOFA U.S. Core Equity Fund	TopBuild Corp.			Equity	2,417	983,260	0.068%
JNLDOFA U.S. Core Equity Fund	Upland Software, Inc.			Equity	3,603	8,971	0.001%
JNLDOFA U.S. Core Equity Fund	Keamy Financial Corp			Equity	11,026	75,749	0.005%
JNLDOFA U.S. Core Equity Fund	Conroy Financial Solutions, Inc.			Equity	3,228	692,498	0.041%
JNLDOFA U.S. Core Equity Fund	Houlihan Lokey, Inc.			Equity	3,569	563,973	0.039%
JNLDOFA U.S. Core Equity Fund	Natera, Inc.			Equity	3,087	391,895	0.027%
JNLDOFA U.S. Core Equity Fund	Hilton Worldwide Holdings Inc.			Equity	5,058	1,165,869	0.080%
JNLDOFA U.S. Core Equity Fund	Neuro Corp			Equity	1,849	107,336	0.007%
JNLDOFA U.S. Core Equity Fund	FB Financial Corporation			Equity	4,522	212,217	0.015%
JNLDOFA U.S. Core Equity Fund	Energizer Holdings, Inc.			Equity	3,744	118,909	0.008%
JNLDOFA U.S. Core Equity Fund	Zedge, Inc.			Equity	696	2,575	0.000%
JNLDOFA U.S. Core Equity Fund	Edgewell Personal Care Colombia S A S			Equity	3,741	136,509	0.009%
JNLDOFA U.S. Core Equity Fund	National Vision Holdings, Inc.			Equity	4,825	52,641	0.004%
JNLDOFA U.S. Core Equity Fund	Ashland Inc.			Equity	3,134	272,564	0.019%
JNLDOFA U.S. Core Equity Fund	Laureate Education, Inc.			Equity	15,400	255,794	0.018%
JNLDOFA U.S. Core Equity Fund	Metricor, Inc.			Equity	23,100	2,095,863	0.144%
JNLDOFA U.S. Core Equity Fund	RH			Equity	844	292,259	0.019%
JNLDOFA U.S. Core Equity Fund	CSW Industrials, Inc.			Equity	1,329	486,932	0.034%
JNLDOFA U.S. Core Equity Fund	Summit Materials, Inc.			Equity	902	35,205	0.002%
JNLDOFA U.S. Core Equity Fund	Boat Barn Holdings, Inc.			Equity	2,220	371,362	0.026%
JNLDOFA U.S. Core Equity Fund	El Pido Loco Holdings, Inc.			Equity	1,714	23,482	0.002%
JNLDOFA U.S. Core Equity Fund	Veritex Holdings, Inc.			Equity	3,742	98,489	0.007%
JNLDOFA U.S. Core Equity Fund	Viavi Solutions Inc.			Equity	16,698	150,616	0.010%
JNLDOFA U.S. Core Equity Fund	Lending Tree, Inc.			Equity	442	25,649	0.002%
JNLDOFA U.S. Core Equity Fund	LCI Industries			Equity	2,341	282,184	0.019%
JNLDOFA U.S. Core Equity Fund	Fortive Corporation			Equity	10,698	844,393	0.058%
JNLDOFA U.S. Core Equity Fund	Lumentum Holdings Inc.			Equity	4,586	290,651	0.020%
JNLDOFA U.S. Core Equity Fund	Capri Holdings Limited			Equity	10,741	455,848	0.031%
JNLDOFA U.S. Core Equity Fund	Green Brick Partners, Inc.			Equity	2,630	219,658	0.015%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Core Equity Fund	WEC Energy Group Inc.			Equity	8,412	809,066	0.056%
JNLDOFA U.S. Core Equity Fund	SWAT Government Group, Inc.			Equity	6,581	606,651	0.042%
JNLDOFA U.S. Core Equity Fund	Triumph Financial, Inc.			Equity	2,196	174,670	0.012%
JNLDOFA U.S. Core Equity Fund	Blue Bird Global Corporation			Equity	878	42,109	0.003%
JNLDOFA U.S. Core Equity Fund	CBRE Group, Inc.			Equity	10,086	1,255,505	0.086%
JNLDOFA U.S. Core Equity Fund	Petco, Inc.			Equity	1,572	49,310	0.003%
JNLDOFA U.S. Core Equity Fund	Kosmos Energy Ltd.			Equity	41,508	167,277	0.012%
JNLDOFA U.S. Core Equity Fund	Altair Engineering Inc.			Equity	562	53,677	0.004%
JNLDOFA U.S. Core Equity Fund	SIGA Technologies, Inc.			Equity	5,519	37,253	0.003%
JNLDOFA U.S. Core Equity Fund	Allogene Therapeutics, Inc.			Equity	13,271	37,159	0.003%
JNLDOFA U.S. Core Equity Fund	Kalvista Pharmaceuticals Inc.			Equity	1,880	21,770	0.001%
JNLDOFA U.S. Core Equity Fund	Scorpio Tankers Inc.			Equity	5,370	382,881	0.026%
JNLDOFA U.S. Core Equity Fund	Stitch Fix, Inc.			Equity	880	2,482	0.000%
JNLDOFA U.S. Core Equity Fund	Iradimed Corp.			Equity	431	21,675	0.001%
JNLDOFA U.S. Core Equity Fund	Smartfinancial, Inc.			Equity	880	25,843	0.002%
JNLDOFA U.S. Core Equity Fund	1st Security Bank of Washington			Equity	512	22,779	0.002%
JNLDOFA U.S. Core Equity Fund	Element Solutions Inc.			Equity	17,065	463,485	0.032%
JNLDOFA U.S. Core Equity Fund	ID Verticals, Inc.			Equity	1,681	35,822	0.002%
JNLDOFA U.S. Core Equity Fund	Construction Partners, Inc.			Equity	3,448	240,570	0.017%
JNLDOFA U.S. Core Equity Fund	Keurig Dr Pepper Inc.			Equity	24,857	937,357	0.065%
JNLDOFA U.S. Core Equity Fund	Transcat, Inc.			Equity	460	55,554	0.004%
JNLDOFA U.S. Core Equity Fund	Bandwidth Inc.			Equity	762	13,343	0.001%
JNLDOFA U.S. Core Equity Fund	Ariano Midstream Corporation			Equity	29,746	447,877	0.031%
JNLDOFA U.S. Core Equity Fund	Fox Corporation			Equity	8,237	319,596	0.022%
JNLDOFA U.S. Core Equity Fund	Fox Corporation			Equity	11,081	469,059	0.032%
JNLDOFA U.S. Core Equity Fund	OneSpaWorld Holdings Limited			Equity	6,900	113,919	0.008%
JNLDOFA U.S. Core Equity Fund	Levi Strauss & Co.			Equity	9,275	309,195	0.021%
JNLDOFA U.S. Core Equity Fund	Goosehead Insurance, Inc.			Equity	1,411	126,002	0.009%
JNLDOFA U.S. Core Equity Fund	Tronox Holdings PLC			Equity	10,045	146,958	0.010%
JNLDOFA U.S. Core Equity Fund	Steris Public Limited Company			Equity	3,324	806,203	0.055%
JNLDOFA U.S. Core Equity Fund	Lyft, Inc.			Equity	9,242	117,636	0.008%
JNLDOFA U.S. Core Equity Fund	Designer Brands Inc.			Equity	8,374	61,800	0.004%
JNLDOFA U.S. Core Equity Fund	Dow Inc.			Equity	28,379	1,550,345	0.107%
JNLDOFA U.S. Core Equity Fund	Emphase Energy, Inc.			Equity	3,715	419,869	0.029%
JNLDOFA U.S. Core Equity Fund	Aldyra Therapeutics, Inc.			Equity	4,125	22,234	0.002%
JNLDOFA U.S. Core Equity Fund	Tradeweb Markets Inc.			Equity	3,672	454,161	0.031%
JNLDOFA U.S. Core Equity Fund	TecnoGlass Inc.			Equity	3,411	234,574	0.016%
JNLDOFA U.S. Core Equity Fund	Roku Inc.			Equity	4,741	353,963	0.024%
JNLDOFA U.S. Core Equity Fund	Primoris, Inc.			Equity	9,223	298,549	0.021%
JNLDOFA U.S. Core Equity Fund	Zoom Video Communications, Inc.			Equity	9,227	384,543	0.026%
JNLDOFA U.S. Core Equity Fund	MannKind Corporation			Equity	4,251	26,739	0.002%
JNLDOFA U.S. Core Equity Fund	Veracore, Inc.			Equity	3,433	116,859	0.008%
JNLDOFA U.S. Core Equity Fund	Uber Technologies, Inc.			Equity	17,724	1,332,136	0.092%
JNLDOFA U.S. Core Equity Fund	Northeast Bank			Equity	500	38,545	0.003%
JNLDOFA U.S. Core Equity Fund	Spectrum Brands Holdings, Inc.			Equity	2,904	276,287	0.019%
JNLDOFA U.S. Core Equity Fund	Bank OZK			Equity	9,463	406,814	0.028%
JNLDOFA U.S. Core Equity Fund	Avantor, Inc.			Equity	20,339	526,170	0.036%
JNLDOFA U.S. Core Equity Fund	Atlantic Union Bank			Equity	7,485	381,960	0.026%
JNLDOFA U.S. Core Equity Fund	Kontoor Brands, Inc.			Equity	3,426	280,178	0.019%
JNLDOFA U.S. Core Equity Fund	Mitek Systems, Inc.			Equity	910	7,890	0.001%
JNLDOFA U.S. Core Equity Fund	Krysal BioTech, Inc.			Equity	1,632	297,073	0.020%
JNLDOFA U.S. Core Equity Fund	Orthopediatrics Corp.			Equity	1,373	37,223	0.003%
JNLDOFA U.S. Core Equity Fund	MeiraGTx Holdings plc			Equity	1,118	4,662	0.000%
JNLDOFA U.S. Core Equity Fund	Vm Consolidated, Inc.			Equity	9,830	273,372	0.019%
JNLDOFA U.S. Core Equity Fund	Axionics, Inc.			Equity	1,360	94,656	0.007%
JNLDOFA U.S. Core Equity Fund	Boston Omaha Corporation			Equity	1,383	20,565	0.001%
JNLDOFA U.S. Core Equity Fund	DuPont de Nemours, Inc.			Equity	13,365	1,190,566	0.082%
JNLDOFA U.S. Core Equity Fund	Smartsheet Inc.			Equity	930	51,485	0.004%
JNLDOFA U.S. Core Equity Fund	Corteva, Inc.			Equity	16,914	994,374	0.068%
JNLDOFA U.S. Core Equity Fund	Amcor Pty Ltd			Equity	73,113	828,370	0.057%
JNLDOFA U.S. Core Equity Fund	Hudson Global, Inc.			Equity	60	3,961	0.000%
JNLDOFA U.S. Core Equity Fund	CrowdStrike Holdings, Inc.			Equity	1,583	443,984	0.031%
JNLDOFA U.S. Core Equity Fund	Helios Technologies, Inc.			Equity	2,169	103,461	0.007%
JNLDOFA U.S. Core Equity Fund	Chevy, Inc.			Equity	2,526	73,987	0.005%
JNLDOFA U.S. Core Equity Fund	Cryptot, Inc.			Equity	2,090	164,950	0.011%
JNLDOFA U.S. Core Equity Fund	Bridgewater Bancshares, Inc.			Equity	1,054	14,935	0.001%
JNLDOFA U.S. Core Equity Fund	L3Harris Technologies, Inc.			Equity	5,639	1,341,349	0.092%
JNLDOFA U.S. Core Equity Fund	Blackstone Inc.			Equity	5,412	828,740	0.057%
JNLDOFA U.S. Core Equity Fund	LendingClub Corporation			Equity	14,590	166,764	0.011%
JNLDOFA U.S. Core Equity Fund	BrightSphere Investment Group Inc.			Equity	2,165	54,991	0.004%
JNLDOFA U.S. Core Equity Fund	Park Aerospace Technologies Corp.			Equity	2,137	27,845	0.002%
JNLDOFA U.S. Core Equity Fund	Phreesia, Inc.			Equity	1,598	36,418	0.003%
JNLDOFA U.S. Core Equity Fund	Health Catalyst, Inc.			Equity	1,263	10,281	0.001%
JNLDOFA U.S. Core Equity Fund	Atlatos Inc.			Equity	400	261	0.000%
JNLDOFA U.S. Core Equity Fund	Xerox Holdings Corporation			Equity	12,697	134,969	0.009%
JNLDOFA U.S. Core Equity Fund	BioLife Solutions, Inc.			Equity	2,041	51,107	0.004%
JNLDOFA U.S. Core Equity Fund	Antevic, Inc.			Equity	1,500	56,490	0.004%
JNLDOFA U.S. Core Equity Fund	Globe Life Inc.			Equity	6,132	649,440	0.045%
JNLDOFA U.S. Core Equity Fund	HarborOne Bancorp, Inc.			Equity	7,679	99,673	0.007%
JNLDOFA U.S. Core Equity Fund	Digital Turbine USA, Inc.			Equity	5,193	15,943	0.001%
JNLDOFA U.S. Core Equity Fund	Orkshov Financial Services, Inc.			Equity	948	34,090	0.002%
JNLDOFA U.S. Core Equity Fund	Clarivate PLC			Equity	23,925	169,868	0.012%
JNLDOFA U.S. Core Equity Fund	Fulgent Genetics, Inc.			Equity	1,427	31,009	0.002%
JNLDOFA U.S. Core Equity Fund	10X Genomics, Inc.			Equity	1,414	31,928	0.002%
JNLDOFA U.S. Core Equity Fund	Cloudflare, Inc.			Equity	2,772	224,227	0.015%
JNLDOFA U.S. Core Equity Fund	Envista Holdings Corporation			Equity	7,683	151,805	0.010%
JNLDOFA U.S. Core Equity Fund	Pennant Group, Inc. - The			Equity	2,702	96,461	0.007%
JNLDOFA U.S. Core Equity Fund	Cerence Inc.			Equity	2,445	7,702	0.001%
JNLDOFA U.S. Core Equity Fund	Grocery Outlet Holding Corp.			Equity	6,221	109,179	0.008%
JNLDOFA U.S. Core Equity Fund	Orvita Bancshares, Inc.			Equity	2,212	68,418	0.005%
JNLDOFA U.S. Core Equity Fund	Onto Innovation Inc.			Equity	3,332	691,590	0.048%
JNLDOFA U.S. Core Equity Fund	Gen Digital Inc.			Equity	24,632	675,656	0.047%
JNLDOFA U.S. Core Equity Fund	SPL Corporation Ltd.			Equity	15,603	180,527	0.012%
JNLDOFA U.S. Core Equity Fund	First Bank of New Jersey			Equity	1,135	17,125	0.001%
JNLDOFA U.S. Core Equity Fund	First Bancshares Inc.			Equity	778	24,997	0.002%
JNLDOFA U.S. Core Equity Fund	P.C.B. Bancorp, Inc.			Equity	533	10,015	0.001%
JNLDOFA U.S. Core Equity Fund	Gannett Co., Inc.			Equity	16,924	95,113	0.007%
JNLDOFA U.S. Core Equity Fund	Trekay Tankers Ltd.			Equity	2,107	122,733	0.008%
JNLDOFA U.S. Core Equity Fund	Kodiak Sciences Inc.			Equity	2,639	6,888	0.000%
JNLDOFA U.S. Core Equity Fund	International Money Express Inc.			Equity	3,819	70,613	0.005%
JNLDOFA U.S. Core Equity Fund	Revolve Group Inc.			Equity	1,146	28,398	0.002%
JNLDOFA U.S. Core Equity Fund	Repay Holdings Corporation			Equity	1,863	15,262	0.001%
JNLDOFA U.S. Core Equity Fund	Palomar Holdings, Inc.			Equity	804	76,115	0.005%
JNLDOFA U.S. Core Equity Fund	Stoke Therapeutics, Inc.			Equity	2,243	27,566	0.002%
JNLDOFA U.S. Core Equity Fund	Fasly, Inc.			Equity	7,287	55,163	0.004%
JNLDOFA U.S. Core Equity Fund	Parsons Corporation			Equity	5,813	602,692	0.041%
JNLDOFA U.S. Core Equity Fund	Cimpress Public Limited Company			Equity	1,780	145,818	0.010%
JNLDOFA U.S. Core Equity Fund	Paramount Global			Equity	993	21,757	0.001%
JNLDOFA U.S. Core Equity Fund	Paramount Global			Equity	24,861	265,267	0.018%
JNLDOFA U.S. Core Equity Fund	Catalyst Pharmaceuticals, Inc.			Equity	1,500	149,100	0.010%
JNLDOFA U.S. Core Equity Fund	Trust Financial Corporation			Equity	27,446	1,173,865	0.081%
JNLDOFA U.S. Core Equity Fund	Bill Holdings, Inc.			Equity	3,657	192,943	0.013%
JNLDOFA U.S. Core Equity Fund	Orthofix Medical Inc.			Equity	3,462	54,076	0.004%
JNLDOFA U.S. Core Equity Fund	Strategic Education, Inc.			Equity	1,373	127,071	0.009%
JNLDOFA U.S. Core Equity Fund	Loviscac Company, The			Equity	1,301	37,274	0.003%
JNLDOFA U.S. Core Equity Fund	Esquire Financial Holdings, Inc.			Equity	294	19,172	0.001%
JNLDOFA U.S. Core Equity Fund	MVB Financial Corp.			Equity	579	11,209	0.001%
JNLDOFA U.S. Core Equity Fund	O-I Glass, Inc.			Equity	14,069	184,585	0.013%
JNLDOFA U.S. Core Equity Fund	Petiscoo Education Corporation			Equity	9,104	202,474	0.014%
JNLDOFA U.S. Core Equity Fund	Purple Innovation, Inc.			Equity	4,775	4,721	0.000%
JNLDOFA U.S. Core Equity Fund	Equitable Holdings, Inc.			Equity	17,798	748,050	0.051%
JNLDOFA U.S. Core Equity Fund	Ovintiv Canada ULC			Equity	19,768	757,312	0.052%
JNLDOFA U.S. Core Equity Fund	Energap Tool Group Corp.			Equity	4,858	203,602	0.014%
JNLDOFA U.S. Core Equity Fund	Option Care Health, Inc.			Equity	6,350	198,755	0.014%
JNLDOFA U.S. Core Equity Fund	Reynolds Consumer Products Inc.			Equity	9,521	296,103	0.020%
JNLDOFA U.S. Core Equity Fund	Essential Utilities, Inc.			Equity	10,100	389,557	0.027%
JNLDOFA U.S. Core Equity Fund	Aspen Aerojet, Inc.			Equity	2,033	55,934	0.004%
JNLDOFA U.S. Core Equity Fund	Beam Therapeutics Inc.			Equity	3,273	80,189	0.006%
JNLDOFA U.S. Core Equity Fund	Alta Equipment Group Inc.			Equity	2,054	13,844	0.001%
JNLDOFA U.S. Core Equity Fund	Datadog, Inc.			Equity	1,642	188,929	0.013%
JNLDOFA U.S. Core Equity Fund	Intersoil Rand Inc.			Equity	13,356	1,311,025	0.090%
JNLDOFA U.S. Core Equity Fund	Trans Technologies Public Limited Company			Equity	5,138	1,997,026	0.137%
JNLDOFA U.S. Core Equity Fund	ACNB Corporation			Equity	849	37,076	0.003%
JNLDOFA U.S. Core Equity Fund	Luxfer Holdings PLC			Equity	1,524	19,736	0.001%
JNLDOFA U.S. Core Equity Fund	Grid Dynamics Holdings, Inc.			Equity	4,383	61,362	0.004%
JNLDOFA U.S. Core Equity Fund	Lumex Pharma, Inc.			Equity	187	17,124	0.001%
JNLDOFA U.S. Core Equity Fund	BCB Bancorp, Inc.			Equity	1,358	16,758	0.001%
JNLDOFA U.S. Core Equity Fund	AON Public Limited Company			Equity	3,939	1,362,855	0.094%
JNLDOFA U.S. Core Equity Fund	Howmet Aerospace Inc.			Equity	10,448	1,047,412	0.072%
JNLDOFA U.S. Core Equity Fund	Carmer Global Corporation			Equity	21,688	1,745,667	0.120%
JNLDOFA U.S. Core Equity Fund	RTX Corporation			Equity	24,188	2,930,618	0.202%
JNLDOFA U.S. Core Equity Fund	Otis Worldwide Corporation			Equity	10,457	1,086,901	0.075%
JNLDOFA U.S. Core Equity Fund	Business First Bancshares, Inc.			Equity	1,406	36,092	0.002%
JNLDOFA U.S. Core Equity Fund	NI Holdings Inc.			Equity	906	14,206	0.001%
JNLDOFA U.S. Core Equity Fund	Sphere Entertainment Co.			Equity	2,212	97,726	0.007%
JNLDOFA U.S. Core Equity Fund	Nabors Industries Ltd.			Equity	858	55,315	0.004%
JNLDOFA U.S. Core Equity Fund	Veriv Holdings Co			Equity	6,433	840,019	0.044%
JNLDOFA U.S. Core Equity Fund	UFP Industries, Inc.			Equity	4,870	638,993	0.044%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDDFA U.S. Core Equity Fund	Castle Biosciences, Inc.			Equity	725	20,877	0.001%
JNLDDFA U.S. Core Equity Fund	Arch Resources, Inc.			Equity	1,922	265,544	0.018%
JNLDDFA U.S. Core Equity Fund	Adaptive Biotechnologies Corporation			Equity	3,525	18,048	0.001%
JNLDDFA U.S. Core Equity Fund	Replimune Group, Inc.			Equity	3,375	36,990	0.003%
JNLDDFA U.S. Core Equity Fund	Crescent Bankshares, Inc.			Equity	2,150	59,884	0.002%
JNLDDFA U.S. Core Equity Fund	Progeny, Inc.			Equity	1,968	32,984	0.002%
JNLDDFA U.S. Core Equity Fund	The Carlyle Group, Inc.			Equity	12,971	558,531	0.038%
JNLDDFA U.S. Core Equity Fund	Sunnova Energy International Inc.			Equity	5,950	57,953	0.004%
JNLDDFA U.S. Core Equity Fund	Immunovant, Inc.			Equity	288	8,211	0.001%
JNLDDFA U.S. Core Equity Fund	Amerant Bancorp Inc.			Equity	1,647	35,196	0.002%
JNLDDFA U.S. Core Equity Fund	Alector, Inc.			Equity	5,361	24,982	0.002%
JNLDDFA U.S. Core Equity Fund	Arcturus Therapeutics Holdings Inc.			Equity	2,884	66,938	0.005%
JNLDDFA U.S. Core Equity Fund	Schrodinger, Inc.			Equity	939	47,418	0.003%
JNLDDFA U.S. Core Equity Fund	Sprinkworks Therapeutics, Inc.			Equity	1,048	33,578	0.002%
JNLDDFA U.S. Core Equity Fund	Ranpak Holdings Corp			Equity	2,850	18,611	0.001%
JNLDDFA U.S. Core Equity Fund	Dynanox, Inc.			Equity	5,349	286,011	0.020%
JNLDDFA U.S. Core Equity Fund	SBONE, Inc.			Equity	2,448	34,223	0.002%
JNLDDFA U.S. Core Equity Fund	Smith & Wesson Brands, Inc.			Equity	6,382	83,668	0.006%
JNLDDFA U.S. Core Equity Fund	Shift Group, Inc.			Equity	2,835	35,579	0.002%
JNLDDFA U.S. Core Equity Fund	Vital Energy, Inc.			Equity	1,304	35,078	0.002%
JNLDDFA U.S. Core Equity Fund	ChampionX Corporation			Equity	15,155	458,914	0.031%
JNLDDFA U.S. Core Equity Fund	Carvana Co.			Equity	2,878	501,089	0.034%
JNLDDFA U.S. Core Equity Fund	ZoomInfo Technologies Inc.			Equity	4,502	46,461	0.003%
JNLDDFA U.S. Core Equity Fund	Bristow Holdings U.S., Inc.			Equity	526	18,247	0.001%
JNLDDFA U.S. Core Equity Fund	The AZEK Company Inc.			Equity	8,651	404,897	0.028%
JNLDDFA U.S. Core Equity Fund	Avidity Biosciences, Inc.			Equity	2,333	107,155	0.007%
JNLDDFA U.S. Core Equity Fund	Generation Bio Co.			Equity	2,259	5,580	0.000%
JNLDDFA U.S. Core Equity Fund	Premier Financial Corporation			Equity	3,469	81,452	0.006%
JNLDDFA U.S. Core Equity Fund	Albemarle Companies, Inc.			Equity	22,575	417,186	0.029%
JNLDDFA U.S. Core Equity Fund	The ODP Corporation			Equity	4,352	129,472	0.009%
JNLDDFA U.S. Core Equity Fund	Magnite, Inc.			Equity	7,200	99,720	0.007%
JNLDDFA U.S. Core Equity Fund	Match Group, Inc.			Equity	7,239	273,924	0.019%
JNLDDFA U.S. Core Equity Fund	Dun & Bradstreet Holdings Inc.			Equity	12,854	147,850	0.010%
JNLDDFA U.S. Core Equity Fund	Wilcofco Holdings Corporation			Equity	13,910	523,016	0.036%
JNLDDFA U.S. Core Equity Fund	Stonex Group Inc.			Equity	2,764	226,316	0.016%
JNLDDFA U.S. Core Equity Fund	Avient Corporation			Equity	6,811	344,483	0.024%
JNLDDFA U.S. Core Equity Fund	Calsium Entertainment, Inc.			Equity	7,027	293,307	0.020%
JNLDDFA U.S. Core Equity Fund	Orion Engineered Carbon Finance & Co. S.C.A.			Equity	4,452	79,356	0.005%
JNLDDFA U.S. Core Equity Fund	Brookfield Renewable Corporation			Equity	8,938	291,915	0.020%
JNLDDFA U.S. Core Equity Fund	SHM Payments, LLC			Equity	1,872	165,859	0.011%
JNLDDFA U.S. Core Equity Fund	Rocket Companies, Inc.			Equity	12,681	243,348	0.017%
JNLDDFA U.S. Core Equity Fund	Onity Group Inc.			Equity	236	7,538	0.001%
JNLDDFA U.S. Core Equity Fund	Intrepid Potash, Inc.			Equity	2,068	49,632	0.003%
JNLDDFA U.S. Core Equity Fund	American Outdoor Brands, Inc.			Equity	1,595	14,706	0.001%
JNLDDFA U.S. Core Equity Fund	DZS, Inc.			Equity	1,720	1,084	0.000%
JNLDDFA U.S. Core Equity Fund	Snowflake Inc.			Equity	1,177	135,190	0.009%
JNLDDFA U.S. Core Equity Fund	Northern Oil and Gas Incorporated			Equity	3,038	108,852	0.007%
JNLDDFA U.S. Core Equity Fund	GoodRx Holdings, Inc.			Equity	3,291	22,840	0.002%
JNLDDFA U.S. Core Equity Fund	Bentley Systems, Incorporated			Equity	7,827	397,690	0.027%
JNLDDFA U.S. Core Equity Fund	PMV Pharmaceuticals, Inc.			Equity	6,364	9,482	0.001%
JNLDDFA U.S. Core Equity Fund	API Group Corporation			Equity	14,019	462,907	0.032%
JNLDDFA U.S. Core Equity Fund	Palantir Technologies Inc.			Equity	14,462	537,986	0.037%
JNLDDFA U.S. Core Equity Fund	Mission Produce, Inc.			Equity	3,352	42,913	0.003%
JNLDDFA U.S. Core Equity Fund	Lensar, Inc.			Equity	4,400	2,015	0.000%
JNLDDFA U.S. Core Equity Fund	Adicel Therapeutics, Inc.			Equity	6,597	9,500	0.001%
JNLDDFA U.S. Core Equity Fund	Vontier Corporation			Equity	9,825	331,496	0.023%
JNLDDFA U.S. Core Equity Fund	GlaxoSmithKline Corporation			Equity	4,499	8,000	0.001%
JNLDDFA U.S. Core Equity Fund	Janus International Group, Inc.			Equity	2,033	20,554	0.001%
JNLDDFA U.S. Core Equity Fund	Cadre Holdings, Inc.			Equity	600	22,770	0.002%
JNLDDFA U.S. Core Equity Fund	Resolute Forest Products Inc.	1/7/2031		Equity	8,453	2,254	0.000%
JNLDDFA U.S. Core Equity Fund	Linde Public Limited Company			Equity	4,662	4,607,421	0.317%
JNLDDFA U.S. Core Equity Fund	Albireo Pharma, Inc.	12/31/2027		Equity	2,300	13,363	0.001%
JNLDDFA U.S. Core Equity Fund	Crane Company			Equity	4,609	729,513	0.050%
JNLDDFA U.S. Core Equity Fund	Sphere Entertainment Co.			Equity	2,212	94,076	0.006%
JNLDDFA U.S. Core Equity Fund	Arcellx Inc.			Equity	309	25,805	0.002%
JNLDDFA U.S. Core Equity Fund	Cor Laboratories LP			Equity	4,017	74,435	0.005%
JNLDDFA U.S. Core Equity Fund	Gabos Silver, Inc.			Equity	2,615	39,434	0.003%
JNLDDFA U.S. Core Equity Fund	Intapp U.S., Inc.			Equity	895	42,808	0.003%
JNLDDFA U.S. Core Equity Fund	Kenvue Inc.			Equity	65,220	1,508,539	0.104%
JNLDDFA U.S. Core Equity Fund	Vitamin Oildco Holdings, Inc.			Equity	6,574	329	0.000%
JNLDDFA U.S. Core Equity Fund	Knife River Corporation			Equity	3,924	350,789	0.024%
JNLDDFA U.S. Core Equity Fund	Sinclair, Inc.			Equity	4,009	61,338	0.004%
JNLDDFA U.S. Core Equity Fund	COAVA Group, Inc.			Equity	1,855	22,742	0.001%
JNLDDFA U.S. Core Equity Fund	Leonardo DRS, Inc.			Equity	841	23,723	0.002%
JNLDDFA U.S. Core Equity Fund	Ramaco Resources, Inc.			Equity	4,970	58,149	0.004%
JNLDDFA U.S. Core Equity Fund	Ramaco Resources, Inc.			Equity	994	10,695	0.001%
JNLDDFA U.S. Core Equity Fund	Fortrea Holdings Inc.			Equity	4,124	82,480	0.006%
JNLDDFA U.S. Core Equity Fund	BCC Group, Inc.			Equity	27,487	252,331	0.017%
JNLDDFA U.S. Core Equity Fund	Phinia Inc.			Equity	3,917	180,290	0.012%
JNLDDFA U.S. Core Equity Fund	Atlanta Braves Holdings, Inc.			Equity	3,074	122,364	0.008%
JNLDDFA U.S. Core Equity Fund	Atlanta Braves Holdings, Inc.			Equity	360	15,174	0.001%
JNLDDFA U.S. Core Equity Fund	AvePoint, Inc.			Equity	2,831	33,321	0.002%
JNLDDFA U.S. Core Equity Fund	Spectrum Pharmaceuticals, Inc.	12/31/2024		Equity	2,789	0	0.000%
JNLDDFA U.S. Core Equity Fund	Liberty Media Corporation			Equity	2,756	141,465	0.010%
JNLDDFA U.S. Core Equity Fund	Liberty Media Corporation			Equity	1,384	18,522	0.001%
JNLDDFA U.S. Core Equity Fund	Liberty Media Corporation			Equity	300	64,377	0.004%
JNLDDFA U.S. Core Equity Fund	Liberty Media Corporation			Equity	8,682	672,247	0.046%
JNLDDFA U.S. Core Equity Fund	Chinook Therapeutics, Inc.	12/30/2024		Equity	4,651	5,814	0.000%
JNLDDFA U.S. Core Equity Fund	Howard Hughes Holdings Inc.			Equity	3,213	248,783	0.017%
JNLDDFA U.S. Core Equity Fund	Seedrit Limited			Equity	452	18,360	0.001%
JNLDDFA U.S. Core Equity Fund	TKO Group Holdings Inc.			Equity	2,504	309,770	0.021%
JNLDDFA U.S. Core Equity Fund	Athas, Inc.			Equity	3,148	38,752	0.003%
JNLDDFA U.S. Core Equity Fund	Veralta Corporation			Equity	3,923	439,180	0.030%
JNLDDFA U.S. Core Equity Fund	Vestis Corporation			Equity	7,717	115,233	0.008%
JNLDDFA U.S. Core Equity Fund	W.K. Kellogg Co			Equity	3,968	67,892	0.005%
JNLDDFA U.S. Core Equity Fund	NCR Atlas Corporation			Equity	4,999	142,621	0.010%
JNLDDFA U.S. Core Equity Fund	SharkNinja, Inc.			Equity	5,922	643,781	0.044%
JNLDDFA U.S. Core Equity Fund	Bunge Limited			Equity	4,915	97,126	0.007%
JNLDDFA U.S. Core Equity Fund	FTAI Infrastructure Inc.			Equity	4,306	40,304	0.003%
JNLDDFA U.S. Core Equity Fund	Liberty Global Ltd.			Equity	11,754	254,004	0.017%
JNLDDFA U.S. Core Equity Fund	Liberty Global Ltd.			Equity	6,006	126,787	0.009%
JNLDDFA U.S. Core Equity Fund	Worthington Steel, Inc.			Equity	3,905	132,509	0.009%
JNLDDFA U.S. Core Equity Fund	Synchronoss Technologies, Inc.			Equity	489	7,279	0.001%
JNLDDFA U.S. Core Equity Fund	Nexttracer LLC			Equity	1,252	46,925	0.003%
JNLDDFA U.S. Core Equity Fund	Comscore, Inc.			Equity	43	4292	0.000%
JNLDDFA U.S. Core Equity Fund	Cadellor AS			Equity	847	23,868	0.002%
JNLDDFA U.S. Core Equity Fund	Lazard, Inc.			Equity	3,599	181,318	0.012%
JNLDDFA U.S. Core Equity Fund	Fluence Energy, Inc.			Equity	5,916	134,352	0.009%
JNLDDFA U.S. Core Equity Fund	Arcadium Lithium PLC			Equity	15,966	45,504	0.003%
JNLDDFA U.S. Core Equity Fund	Bristol-Myers Squibb Company	12/30/2030		Equity	1,534	74	0.000%
JNLDDFA U.S. Core Equity Fund	UWM Holdings Corporation			Equity	1,571	13,542	0.001%
JNLDDFA U.S. Core Equity Fund	Dole Public Limited Company			Equity	1,786	29,237	0.002%
JNLDDFA U.S. Core Equity Fund	The Cooper Companies, Inc.			Equity	6,436	710,148	0.049%
JNLDDFA U.S. Core Equity Fund	Advetum Biotechnologies, Inc.			Equity	991	6,957	0.000%
JNLDDFA U.S. Core Equity Fund	Corpay Inc.			Equity	3,677	1,150,019	0.079%
JNLDDFA U.S. Core Equity Fund	Solventum Corporation			Equity	2,680	186,832	0.013%
JNLDDFA U.S. Core Equity Fund	Community West Bancshares			Equity	225	4,334	0.000%
JNLDDFA U.S. Core Equity Fund	GE Vernova Inc.			Equity	4,196	1,069,769	0.074%
JNLDDFA U.S. Core Equity Fund	ATMUS Filtration Technologies Inc.			Equity	667	25,033	0.002%
JNLDDFA U.S. Core Equity Fund	Burke & Herbert Financial Services Corp.			Equity	424	25,860	0.002%
JNLDDFA U.S. Core Equity Fund	Labcorp Holdings Inc.			Equity	2,802	626,191	0.043%
JNLDDFA U.S. Core Equity Fund	Steward Specialty Insurance Group, Inc.			Equity	3,466	141,170	0.010%
JNLDDFA U.S. Core Equity Fund	Grail, Inc.			Equity	666	9,164	0.001%
JNLDDFA U.S. Core Equity Fund	Kirikira Pharmaceuticals International, PLC			Equity	1,018	25,440	0.002%
JNLDDFA U.S. Core Equity Fund	Six Flags Entertainment Corporation			Equity	2,415	97,349	0.007%
JNLDDFA U.S. Core Equity Fund	Shurtell Westrock Public Limited Company			Equity	11,108	548,957	0.038%
JNLDDFA U.S. Core Equity Fund	American Well Corporation			Equity	307	2,910	0.000%
JNLDDFA U.S. Core Equity Fund	Ferguson Enterprises Inc.			Equity	6,208	1,237,627	0.085%
JNLDDFA U.S. Core Equity Fund	Seaport Entertainment Group Inc.			Equity	357	9,789	0.001%
JNLDDFA U.S. Core Equity Fund	Container Store Group, Inc. The			Equity	194	1,726	0.000%
JNLDDFA U.S. Core Equity Fund	Innovex International, Inc.			Equity	4,086	59,982	0.004%
JNLDDFA U.S. Core Equity Fund	Sirius XM Holdings Inc.			Equity	16,276	384,927	0.026%
JNLDDFA U.S. Core Equity Fund	Seaport Entertainment Group Inc.	10/10/2024		Equity	357	991	0.000%
JNLDDFA U.S. Core Equity Fund	Amazon Holdco Inc.			Equity	4,338	139,901	0.010%
JNLDDFA U.S. Core Equity Fund	Te Connectivity Public Limited Company			Equity	7,250	1,094,678	0.075%
Total Non Derivatives						1,452,912,266	
Derivatives							
Total Derivatives						0	
Total All Investments						1,452,912,266	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDOFA U.S. Small Cap Fund	Cash			Cash Equivalent	282,955	282,955	0.044%
JNLDOFA U.S. Small Cap Fund	Array Tech, Inc.			Equity	20,788	137,201	0.021%
JNLDOFA U.S. Small Cap Fund	Chinook Therapeutics, Inc.			Equity	3,004	1,142	0.000%
JNLDOFA U.S. Small Cap Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	1,210,491	1,212,941	0.190%
JNLDOFA U.S. Small Cap Fund	CLARUS Corporation			Equity	9,361	42,116	0.007%
JNLDOFA U.S. Small Cap Fund	Phx Minerals Inc.			Equity	9,638	32,576	0.005%
JNLDOFA U.S. Small Cap Fund	California Resources Corporation			Equity	11,803	619,303	0.097%
JNLDOFA U.S. Small Cap Fund	Bally's Corporation			Equity	8,421	145,262	0.023%
JNLDOFA U.S. Small Cap Fund	Forum Energy Technologies, Inc.			Equity	2,220	34,321	0.005%
JNLDOFA U.S. Small Cap Fund	FuelCell Energy, Inc.			Equity	63,127	23,988	0.004%
JNLDOFA U.S. Small Cap Fund	Telos Corporation			Equity	16,879	60,596	0.009%
JNLDOFA U.S. Small Cap Fund	Civo Corporation			Equity	2,831	77,569	0.012%
JNLDOFA U.S. Small Cap Fund	Solera Health LLC			Equity	43,602	728,153	0.114%
JNLDOFA U.S. Small Cap Fund	Marava LifeSciences Holdings, Inc.			Equity	22,502	186,982	0.029%
JNLDOFA U.S. Small Cap Fund	Chord Energy Corporation			Equity	3,651	475,495	0.074%
JNLDOFA U.S. Small Cap Fund	Inari Medical, Inc.			Equity	8,656	356,973	0.056%
JNLDOFA U.S. Small Cap Fund	Celusis Holdings, Inc.			Equity	16,274	510,353	0.080%
JNLDOFA U.S. Small Cap Fund	XPEL, Inc.			Equity	3,862	167,405	0.026%
JNLDOFA U.S. Small Cap Fund	CarParts.com, Inc.			Equity	1,692	1,533	0.000%
JNLDOFA U.S. Small Cap Fund	Kymira Therapeutics, Inc.			Equity	8,148	385,645	0.060%
JNLDOFA U.S. Small Cap Fund	Plant Therapeutics, Inc.			Equity	9,535	106,887	0.017%
JNLDOFA U.S. Small Cap Fund	Baldwin Insurance Group, Inc. , The			Equity	10,211	508,508	0.080%
JNLDOFA U.S. Small Cap Fund	Vertex, Inc.			Equity	10,064	387,565	0.061%
JNLDOFA U.S. Small Cap Fund	Nikarta, Inc.			Equity	7,365	33,290	0.005%
JNLDOFA U.S. Small Cap Fund	Montrose Environmental Group, Inc.			Equity	5,943	156,301	0.024%
JNLDOFA U.S. Small Cap Fund	ALX Oncology Holdings Inc.			Equity	979	1,782	0.000%
JNLDOFA U.S. Small Cap Fund	Annexon, Inc.			Equity	9,612	56,903	0.009%
JNLDOFA U.S. Small Cap Fund	Iteos Therapeutics, Inc.			Equity	7,138	72,879	0.011%
JNLDOFA U.S. Small Cap Fund	Vital Farms, Inc.			Equity	8,959	314,192	0.049%
JNLDOFA U.S. Small Cap Fund	Silence Corporation			Equity	2,820	483,658	0.076%
JNLDOFA U.S. Small Cap Fund	Personals, Inc.			Equity	5,414	25,127	0.005%
JNLDOFA U.S. Small Cap Fund	Zentalis Pharmaceuticals, Inc.			Equity	2,157	7,938	0.001%
JNLDOFA U.S. Small Cap Fund	Relay Therapeutics, Inc.			Equity	16,017	113,400	0.018%
JNLDOFA U.S. Small Cap Fund	PRCG Holdings, Inc.			Equity	11,126	539,500	0.084%
JNLDOFA U.S. Small Cap Fund	Open Lending Corporation			Equity	19,016	118,393	0.018%
JNLDOFA U.S. Small Cap Fund	Accolade, Inc.			Equity	18,165	69,935	0.011%
JNLDOFA U.S. Small Cap Fund	Concentrix Corporation			Equity	870	44,588	0.007%
JNLDOFA U.S. Small Cap Fund	Nurix Therapeutics, Inc.			Equity	10,504	236,025	0.037%
JNLDOFA U.S. Small Cap Fund	UTZ Brands, Inc.			Equity	13,520	240,292	0.039%
JNLDOFA U.S. Small Cap Fund	Repare Therapeutics Inc.			Equity	3,893	13,392	0.002%
JNLDOFA U.S. Small Cap Fund	Horizon Orphan LLC			Equity	6,875	13,819	0.002%
JNLDOFA U.S. Small Cap Fund	Allovir, Inc.			Equity	10,743	8,886	0.001%
JNLDOFA U.S. Small Cap Fund	Keros Therapeutics, Inc.			Equity	2,676	109,383	0.017%
JNLDOFA U.S. Small Cap Fund	GrowGeneration Corp.			Equity	3,864	8,230	0.001%
JNLDOFA U.S. Small Cap Fund	Seer, Inc.			Equity	6,289	12,389	0.002%
JNLDOFA U.S. Small Cap Fund	PPHM, Inc.			Equity	10,148	115,484	0.018%
JNLDOFA U.S. Small Cap Fund	Orasgenetix Holdings Inc.			Equity	19,476	85,701	0.009%
JNLDOFA U.S. Small Cap Fund	Sapiens International Corporation N.V.			Equity	8,804	328,125	0.051%
JNLDOFA U.S. Small Cap Fund	Milestone Pharmaceuticals Inc.			Equity	1,661	2,525	0.000%
JNLDOFA U.S. Small Cap Fund	PubMatic, Inc.			Equity	9,461	140,685	0.022%
JNLDOFA U.S. Small Cap Fund	Alea Pharmaceuticals, Inc.			Equity	4,465	14,958	0.002%
JNLDOFA U.S. Small Cap Fund	Centria, Inc.			Equity	25,933	303,675	0.048%
JNLDOFA U.S. Small Cap Fund	Sutro Biopharma, Inc.			Equity	11,603	40,146	0.006%
JNLDOFA U.S. Small Cap Fund	Sndre, Inc.			Equity	7,861	670,622	0.105%
JNLDOFA U.S. Small Cap Fund	Fortitude Gold Corporation			Equity	2,218	11,639	0.002%
JNLDOFA U.S. Small Cap Fund	Unity Software Inc.			Equity	25,440	575,453	0.090%
JNLDOFA U.S. Small Cap Fund	ARKO Corp.			Equity	22,989	161,383	0.025%
JNLDOFA U.S. Small Cap Fund	NOV Inc.			Equity	41,330	660,040	0.103%
JNLDOFA U.S. Small Cap Fund	BM Technologies, Inc.			Equity	367	1,248	0.000%
JNLDOFA U.S. Small Cap Fund	Quantumscape Battery, Inc.			Equity	18,831	16,845	0.001%
JNLDOFA U.S. Small Cap Fund	AdaptHealth LLC			Equity	11,887	133,491	0.021%
JNLDOFA U.S. Small Cap Fund	ModivCare Inc.			Equity	3,543	50,594	0.008%
JNLDOFA U.S. Small Cap Fund	Comstock Resources, Inc.			Equity	46,539	517,979	0.081%
JNLDOFA U.S. Small Cap Fund	Information Services Group, Inc.			Equity	11,274	27,712	0.004%
JNLDOFA U.S. Small Cap Fund	Genesys Inc.			Equity	7,400	26,344	0.004%
JNLDOFA U.S. Small Cap Fund	Gevo, Inc.			Equity	5,050	6,232	0.001%
JNLDOFA U.S. Small Cap Fund	Lazdays Holdings, Inc.			Equity	2,781	4,172	0.001%
JNLDOFA U.S. Small Cap Fund	Broadwind Inc.			Equity	1,879	4,265	0.001%
JNLDOFA U.S. Small Cap Fund	Cambium Networks Corp.			Equity	6,138	11,233	0.002%
JNLDOFA U.S. Small Cap Fund	Turtle Beach Corporation			Equity	3,268	50,131	0.008%
JNLDOFA U.S. Small Cap Fund	Liberty Energy Inc.			Equity	27,367	522,436	0.082%
JNLDOFA U.S. Small Cap Fund	Alexis Financial Corporation			Equity	4,156	85,920	0.013%
JNLDOFA U.S. Small Cap Fund	Lincoln Educational Services Corporation			Equity	7,429	88,702	0.014%
JNLDOFA U.S. Small Cap Fund	Alto Ingredients, Inc.			Equity	19,598	31,553	0.005%
JNLDOFA U.S. Small Cap Fund	Open Doors Technology Inc.			Equity	90,702	181,404	0.028%
JNLDOFA U.S. Small Cap Fund	Petco Health And Wellness Company, Inc.			Equity	8,067	36,705	0.006%
JNLDOFA U.S. Small Cap Fund	Eagle Bancorp Montana, Inc.			Equity	1,444	22,801	0.004%
JNLDOFA U.S. Small Cap Fund	Driven Brands Holdings Inc.			Equity	16,040	228,891	0.036%
JNLDOFA U.S. Small Cap Fund	Identiv, Inc.			Equity	5,648	19,937	0.003%
JNLDOFA U.S. Small Cap Fund	Assure Software, Inc.			Equity	6,327	37,259	0.006%
JNLDOFA U.S. Small Cap Fund	Lantronix, Inc.			Equity	10,564	43,524	0.007%
JNLDOFA U.S. Small Cap Fund	HBT Financial, Inc.			Equity	5,665	123,950	0.019%
JNLDOFA U.S. Small Cap Fund	Full House Resorts, Inc.			Equity	8,170	41,013	0.006%
JNLDOFA U.S. Small Cap Fund	Shoals Technologies Group, Inc.			Equity	19,985	112,116	0.018%
JNLDOFA U.S. Small Cap Fund	hubTV Inc.			Equity	11,863	16,845	0.002%
JNLDOFA U.S. Small Cap Fund	Dime Community Bancshares, Inc.			Equity	8,391	241,672	0.038%
JNLDOFA U.S. Small Cap Fund	Parke Bancorp., Inc.			Equity	2,926	61,153	0.010%
JNLDOFA U.S. Small Cap Fund	EVJ Industries, Inc.			Equity	2,953	57,997	0.009%
JNLDOFA U.S. Small Cap Fund	Lineage Cell Therapeutics, Inc.			Equity	4,401	3,983	0.000%
JNLDOFA U.S. Small Cap Fund	Alpha Metallurgical Resources, Inc.			Equity	2,262	534,239	0.084%
JNLDOFA U.S. Small Cap Fund	E2Open Parent Holdings, Inc.			Equity	24,341	107,344	0.017%
JNLDOFA U.S. Small Cap Fund	BGSF, Inc.			Equity	1,580	13,304	0.002%
JNLDOFA U.S. Small Cap Fund	CAD, Inc.			Equity	3,297	5,160	0.001%
JNLDOFA U.S. Small Cap Fund	Bumble Inc.			Equity	23,781	151,723	0.024%
JNLDOFA U.S. Small Cap Fund	Uranium Energy Corp.			Equity	64,562	400,930	0.063%
JNLDOFA U.S. Small Cap Fund	Travel + Leisure Co.			Equity	12,566	579,041	0.091%
JNLDOFA U.S. Small Cap Fund	Allegro Microsystems Inc.			Equity	20,229	471,338	0.074%
JNLDOFA U.S. Small Cap Fund	CarGurus, Inc.			Equity	16,984	510,030	0.080%
JNLDOFA U.S. Small Cap Fund	ProPhase Labs, Inc.			Equity	2,951	7,141	0.001%
JNLDOFA U.S. Small Cap Fund	Meridian Bank			Equity	3,597	45,466	0.007%
JNLDOFA U.S. Small Cap Fund	Monocle Acquisition Corporation			Equity	10,756	54,758	0.009%
JNLDOFA U.S. Small Cap Fund	Legacy Housing Corporation			Equity	4,437	121,352	0.019%
JNLDOFA U.S. Small Cap Fund	Rimini Street, Inc.			Equity	16,944	31,346	0.005%
JNLDOFA U.S. Small Cap Fund	Amalgamated Financial Corp.			Equity	7,043	220,939	0.035%
JNLDOFA U.S. Small Cap Fund	SinusPharm Ltd.			Equity	31,111	446,132	0.070%
JNLDOFA U.S. Small Cap Fund	Usio, Inc.			Equity	6,800	6,528	0.001%
JNLDOFA U.S. Small Cap Fund	Centrus Energy Corp.			Equity	3,402	186,600	0.029%
JNLDOFA U.S. Small Cap Fund	Educational Development Corporation			Equity	700	1,638	0.000%
JNLDOFA U.S. Small Cap Fund	One Stop Systems, Inc.			Equity	1,400	3,346	0.001%
JNLDOFA U.S. Small Cap Fund	ADMA Biologics, Inc.			Equity	45,076	901,869	0.141%
JNLDOFA U.S. Small Cap Fund	Concrete Pumping Holdings, Inc.			Equity	11,599	67,158	0.011%
JNLDOFA U.S. Small Cap Fund	Egan Corporation			Equity	9,027	46,038	0.007%
JNLDOFA U.S. Small Cap Fund	Middlefield Banc Corp.			Equity	500	14,400	0.002%
JNLDOFA U.S. Small Cap Fund	OP Bancorp.			Equity	2,483	30,388	0.005%
JNLDOFA U.S. Small Cap Fund	Coastal Financial Corporation			Equity	3,291	177,681	0.028%
JNLDOFA U.S. Small Cap Fund	Fulcrum Therapeutics, Inc.			Equity	12,369	44,157	0.007%
JNLDOFA U.S. Small Cap Fund	Coma, Inc.			Equity	6,090	69,365	0.011%
JNLDOFA U.S. Small Cap Fund	Leslie's, Inc.			Equity	27,687	87,491	0.014%
JNLDOFA U.S. Small Cap Fund	OptimizeRX Corporation			Equity	3,907	30,162	0.005%
JNLDOFA U.S. Small Cap Fund	Mayville Engineering Company, Inc.			Equity	3,840	80,947	0.013%
JNLDOFA U.S. Small Cap Fund	Nonwood Financial Corp.			Equity	1,622	44,735	0.007%
JNLDOFA U.S. Small Cap Fund	Larimar Therapeutics, Inc.			Equity	6,268	41,265	0.006%
JNLDOFA U.S. Small Cap Fund	908 Devices Inc.			Equity	5,489	19,047	0.003%
JNLDOFA U.S. Small Cap Fund	New Fortress Energy Inc.			Equity	17,606	160,039	0.025%
JNLDOFA U.S. Small Cap Fund	Lee Enterprises, Incorporated			Equity	1,170	10,191	0.002%
JNLDOFA U.S. Small Cap Fund	Olo Inc.			Equity	92,668	92,693	0.000%
JNLDOFA U.S. Small Cap Fund	Inspired Entertainment, Inc.			Equity	6,058	56,158	0.009%
JNLDOFA U.S. Small Cap Fund	Reynolds Group Holdings Limited			Equity	19,996	230,154	0.036%
JNLDOFA U.S. Small Cap Fund	Academy Sports & Outdoors, Inc.			Equity	13,432	785,369	0.123%
JNLDOFA U.S. Small Cap Fund	INTEST Corporation			Equity	2,680	18,886	0.003%
JNLDOFA U.S. Small Cap Fund	Unity Bancorp., Inc.			Equity	2,640	89,918	0.014%
JNLDOFA U.S. Small Cap Fund	MP Materials Corp.			Equity	21,535	380,093	0.059%
JNLDOFA U.S. Small Cap Fund	Bankwell Financial Group, Inc.			Equity	1,924	57,624	0.009%
JNLDOFA U.S. Small Cap Fund	Investar Holding Corporation			Equity	2,218	43,262	0.007%
JNLDOFA U.S. Small Cap Fund	DigitalOcean Holdings, Inc.			Equity	10,777	435,283	0.068%
JNLDOFA U.S. Small Cap Fund	ACV Auctions Inc.			Equity	24,528	498,654	0.078%
JNLDOFA U.S. Small Cap Fund	Circuit, Inc.			Equity	2,128	14,747	0.002%
JNLDOFA U.S. Small Cap Fund	Vizio Holding Corp.			Equity	13,262	148,137	0.023%
JNLDOFA U.S. Small Cap Fund	Evans Bancorp, Inc.			Equity	1,447	57,345	0.009%
JNLDOFA U.S. Small Cap Fund	Primis Financial Corp.			Equity	6,601	80,400	0.013%
JNLDOFA U.S. Small Cap Fund	Mainstreet Bancshares, Inc.			Equity	1,414	26,088	0.004%
JNLDOFA U.S. Small Cap Fund	First Community Corporation			Equity	1,057	22,662	0.004%
JNLDOFA U.S. Small Cap Fund	Frontier Group Holdings, Inc.			Equity	11,095	59,265	0.009%
JNLDOFA U.S. Small Cap Fund	First Western Financial, Inc.			Equity	2,503	50,060	0.008%
JNLDOFA U.S. Small Cap Fund	Kinekt Holdings Inc.			Equity	7,998	361,989	0.057%
JNLDOFA U.S. Small Cap Fund	Security National Financial Corporation			Equity	3,543	32,596	0.005%
JNLDOFA U.S. Small Cap Fund	South Plains Financial, Inc.			Equity	3,488	118,313	0.019%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Red River Bancshares, Inc.			Equity	1,498	77,896	0.012%
JNLDOFA U.S. Small Cap Fund	Pulmonex Corporation			Equity	9,768	72,687	0.013%
JNLDOFA U.S. Small Cap Fund	PN24, Inc.			Equity	10,381	63,532	0.010%
JNLDOFA U.S. Small Cap Fund	VR Biototechnology, Inc.			Equity	13,984	104,740	0.016%
JNLDOFA U.S. Small Cap Fund	Bioventus Inc.			Equity	9,993	119,416	0.019%
JNLDOFA U.S. Small Cap Fund	Orewetter Marine Inc.			Equity	2,273	54,347	0.009%
JNLDOFA U.S. Small Cap Fund	Alkami Technology, Inc.			Equity	13,043	411,376	0.064%
JNLDOFA U.S. Small Cap Fund	Ovid Therapeutics Inc.			Equity	7,411	8,745	0.001%
JNLDOFA U.S. Small Cap Fund	Acme United Corporation			Equity	700	29,148	0.005%
JNLDOFA U.S. Small Cap Fund	Aplion Health Management, Inc.			Equity	10,074	39,591	0.006%
JNLDOFA U.S. Small Cap Fund	HireQuest, Inc.			Equity	600	9,496	0.001%
JNLDOFA U.S. Small Cap Fund	Oscar Health, Inc.			Equity	31,789	674,245	0.106%
JNLDOFA U.S. Small Cap Fund	Aviat Networks, Inc.			Equity	3,374	72,980	0.011%
JNLDOFA U.S. Small Cap Fund	Capitol Bancorp, Inc.			Equity	3,727	95,821	0.015%
JNLDOFA U.S. Small Cap Fund	Ulipath, Inc.			Equity	48,369	619,123	0.097%
JNLDOFA U.S. Small Cap Fund	JAMF Holding Corp.			Equity	20,736	359,770	0.056%
JNLDOFA U.S. Small Cap Fund	C3.ai, Inc.			Equity	872	21,129	0.003%
JNLDOFA U.S. Small Cap Fund	Corsair Gaming, Inc.			Equity	12,241	85,197	0.013%
JNLDOFA U.S. Small Cap Fund	Eastern Bankshares, Inc.			Equity	35,157	576,223	0.090%
JNLDOFA U.S. Small Cap Fund	Latham Group, Inc.			Equity	23,045	156,706	0.025%
JNLDOFA U.S. Small Cap Fund	Caredx, Inc.			Equity	10,257	320,275	0.050%
JNLDOFA U.S. Small Cap Fund	Coursera, Inc.			Equity	26,932	213,840	0.033%
JNLDOFA U.S. Small Cap Fund	Recurson Pharmaceuticals, Inc.			Equity	8,030	52,318	0.008%
JNLDOFA U.S. Small Cap Fund	StepStone Group Inc.			Equity	7,572	430,317	0.067%
JNLDOFA U.S. Small Cap Fund	Privia Health Group Inc.			Equity	17,715	322,590	0.050%
JNLDOFA U.S. Small Cap Fund	Frontier Communications Parent, Inc.			Equity	34,958	1,242,058	0.194%
JNLDOFA U.S. Small Cap Fund	Center Bankshares, Inc.			Equity	5,975	103,905	0.016%
JNLDOFA U.S. Small Cap Fund	Valaris Limited			Equity	11,461	638,951	0.100%
JNLDOFA U.S. Small Cap Fund	Issuer Direct Corporation			Equity	867	10,361	0.002%
JNLDOFA U.S. Small Cap Fund	Richmond Mutual Bancorporation, Inc.			Equity	2,918	37,642	0.006%
JNLDOFA U.S. Small Cap Fund	Powerflex Inc.			Equity	17,658	86,295	0.014%
JNLDOFA U.S. Small Cap Fund	Riley Exploration - Permian, LLC			Equity	1,218	32,265	0.005%
JNLDOFA U.S. Small Cap Fund	Gulfport Energy Operating Corporation			Equity	2,899	438,764	0.069%
JNLDOFA U.S. Small Cap Fund	Procore Technologies, Inc.			Equity	2,359	145,597	0.023%
JNLDOFA U.S. Small Cap Fund	Vimeo, Inc.			Equity	29,358	148,258	0.023%
JNLDOFA U.S. Small Cap Fund	Beigley Health Company, The			Equity	14,190	41,288	0.006%
JNLDOFA U.S. Small Cap Fund	ThredUp Inc.			Equity	14,027	11,811	0.002%
JNLDOFA U.S. Small Cap Fund	Paymentus Holdings, Inc.			Equity	4,125	82,583	0.013%
JNLDOFA U.S. Small Cap Fund	Trustco Bank Corp N Y			Equity	4,789	160,096	0.025%
JNLDOFA U.S. Small Cap Fund	Mid Penn Bancorp, Inc.			Equity	3,206	95,430	0.015%
JNLDOFA U.S. Small Cap Fund	Organo & Co.			Equity	28,697	548,974	0.086%
JNLDOFA U.S. Small Cap Fund	SoFi Technologies, Inc.			Equity	98,127	771,278	0.121%
JNLDOFA U.S. Small Cap Fund	Friedman Industries, Incorporated			Equity	1,505	24,110	0.004%
JNLDOFA U.S. Small Cap Fund	Colony Bancorp, Inc.			Equity	3,896	60,466	0.009%
JNLDOFA U.S. Small Cap Fund	Exagen Inc.			Equity	811	2,506	0.000%
JNLDOFA U.S. Small Cap Fund	Smith-Midland Corporation			Equity	1,200	40,068	0.006%
JNLDOFA U.S. Small Cap Fund	Marqeta, Inc.			Equity	73,028	359,298	0.056%
JNLDOFA U.S. Small Cap Fund	Lifestance Health Group, Inc.			Equity	9,378	65,646	0.010%
JNLDOFA U.S. Small Cap Fund	Farmers & Merchants Bancorp, Inc.			Equity	2,105	58,203	0.009%
JNLDOFA U.S. Small Cap Fund	Eyepoint Pharmaceuticals, Inc.			Equity	1,831	14,630	0.002%
JNLDOFA U.S. Small Cap Fund	Riot Platforms, Inc.			Equity	8,385	62,217	0.010%
JNLDOFA U.S. Small Cap Fund	Duckhorn Portfolio Inc. The			Equity	21,210	123,230	0.019%
JNLDOFA U.S. Small Cap Fund	Nuvation Bio Operating Company LLC			Equity	3,779	8,654	0.001%
JNLDOFA U.S. Small Cap Fund	Hayward Holdings, Inc.			Equity	33,826	518,891	0.081%
JNLDOFA U.S. Small Cap Fund	Sun Country Airlines Holdings, Inc.			Equity	9,601	107,627	0.017%
JNLDOFA U.S. Small Cap Fund	JFRGG Ltd			Equity	16,911	491,095	0.077%
JNLDOFA U.S. Small Cap Fund	Advantage Solutions, Inc.			Equity	31,052	106,646	0.017%
JNLDOFA U.S. Small Cap Fund	Global Industrial Company			Equity	6,093	206,979	0.032%
JNLDOFA U.S. Small Cap Fund	Hims & Hers Health, Inc.			Equity	31,068	572,273	0.090%
JNLDOFA U.S. Small Cap Fund	Spiritor, Inc.			Equity	22,738	175,765	0.028%
JNLDOFA U.S. Small Cap Fund	Talkspace, Inc.			Equity	19,760	149,760	0.023%
JNLDOFA U.S. Small Cap Fund	Doximity, Inc.			Equity	18,677	813,757	0.127%
JNLDOFA U.S. Small Cap Fund	Atry Pharma, Inc.			Equity	1,679	2,955	0.000%
JNLDOFA U.S. Small Cap Fund	Peoples Bancorp of North Carolina, Inc.			Equity	450	11,426	0.002%
JNLDOFA U.S. Small Cap Fund	Pangea Logistics Solutions Ltd			Equity	8,083	59,400	0.009%
JNLDOFA U.S. Small Cap Fund	LegalZoom.com, Inc.			Equity	29,332	186,258	0.029%
JNLDOFA U.S. Small Cap Fund	Clear Secure, Inc.			Equity	11,210	371,499	0.058%
JNLDOFA U.S. Small Cap Fund	SensientOne, Inc.			Equity	36,034	861,933	0.135%
JNLDOFA U.S. Small Cap Fund	OT Midstream, Inc.			Equity	15,607	129,118	0.019%
JNLDOFA U.S. Small Cap Fund	Alight, Inc.			Equity	79,328	587,027	0.092%
JNLDOFA U.S. Small Cap Fund	Hillman Solutions Corp.			Equity	28,513	301,097	0.047%
JNLDOFA U.S. Small Cap Fund	Bridge Investment Group Holdings Inc.			Equity	5,697	56,229	0.009%
JNLDOFA U.S. Small Cap Fund	N-Able, Inc.			Equity	29,824	389,561	0.061%
JNLDOFA U.S. Small Cap Fund	SolarWinds Corporation			Equity	25,563	333,597	0.052%
JNLDOFA U.S. Small Cap Fund	GXO Logistics Inc.			Equity	18,058	940,280	0.147%
JNLDOFA U.S. Small Cap Fund	Dream Finders Homes, Inc.			Equity	4,266	154,472	0.024%
JNLDOFA U.S. Small Cap Fund	CCC Intelligent Solutions Holdings Inc.			Equity	60,408	667,598	0.104%
JNLDOFA U.S. Small Cap Fund	Ecovyst Inc.			Equity	20,132	137,904	0.022%
JNLDOFA U.S. Small Cap Fund	Bath & Body Works, Inc.			Equity	24,872	793,914	0.124%
JNLDOFA U.S. Small Cap Fund	Victoria's Secret & Co.			Equity	12,298	316,059	0.049%
JNLDOFA U.S. Small Cap Fund	Ardagh Metall Packaging S.A.			Equity	48,233	181,838	0.028%
JNLDOFA U.S. Small Cap Fund	Baycom Corp			Equity	3,662	72,937	0.011%
JNLDOFA U.S. Small Cap Fund	SmartRent, Inc.			Equity	12,127	20,980	0.003%
JNLDOFA U.S. Small Cap Fund	Flwire Corporation			Equity	18,879	309,427	0.048%
JNLDOFA U.S. Small Cap Fund	Cartilage, Inc.			Equity	18,417	136,286	0.021%
JNLDOFA U.S. Small Cap Fund	Zipline, Inc.			Equity	10,273	97,139	0.015%
JNLDOFA U.S. Small Cap Fund	Hovnanian Enterprises, Inc.			Equity	1,190	243,200	0.038%
JNLDOFA U.S. Small Cap Fund	Byrna Technologies Inc.			Equity	1,284	21,789	0.003%
JNLDOFA U.S. Small Cap Fund	Definitive Healthcare Corp.			Equity	14,958	66,862	0.010%
JNLDOFA U.S. Small Cap Fund	Liquid Group, Inc.			Equity	50,885	178,626	0.028%
JNLDOFA U.S. Small Cap Fund	Thryv Holdings, Inc.			Equity	7,893	135,996	0.021%
JNLDOFA U.S. Small Cap Fund	Freshworks, Inc.			Equity	34,640	397,667	0.062%
JNLDOFA U.S. Small Cap Fund	Sterling Check Corp.			Equity	14,154	236,655	0.037%
JNLDOFA U.S. Small Cap Fund	Remedy Global, Inc.			Equity	30,673	410,711	0.064%
JNLDOFA U.S. Small Cap Fund	Blue Ridge Bankshares, Inc.			Equity	3,472	9,722	0.002%
JNLDOFA U.S. Small Cap Fund	The One Group Hospitality, Inc.			Equity	4,101	15,092	0.002%
JNLDOFA U.S. Small Cap Fund	Axos Financial, Inc.			Equity	10,071	689,856	0.108%
JNLDOFA U.S. Small Cap Fund	Varby Parker Inc.			Equity	15,048	245,734	0.038%
JNLDOFA U.S. Small Cap Fund	Urban One, Inc.			Equity	7,068	7,845	0.001%
JNLDOFA U.S. Small Cap Fund	Caribou Biosciences, Inc.			Equity	17,991	35,262	0.006%
JNLDOFA U.S. Small Cap Fund	Odaplex Holdings, Inc.			Equity	6,060	14,241	0.002%
JNLDOFA U.S. Small Cap Fund	Sylvamo Corporation			Equity	6,538	961,287	0.088%
JNLDOFA U.S. Small Cap Fund	First Watch Restaurant Group, Inc.			Equity	7,485	116,765	0.018%
JNLDOFA U.S. Small Cap Fund	Wolfspeed, Inc.			Equity	7,952	77,134	0.012%
JNLDOFA U.S. Small Cap Fund	Zum Etkay Water Solutions Corporation			Equity	15,775	566,954	0.089%
JNLDOFA U.S. Small Cap Fund	Mercury Bankshares, Inc.			Equity	5,125	156,928	0.025%
JNLDOFA U.S. Small Cap Fund	Xeris Pharmaceuticals, Inc.	12/31/2024		Equity	13,752	70	0.000%
JNLDOFA U.S. Small Cap Fund	Everspin Technologies, Inc.			Equity	5,126	30,243	0.005%
JNLDOFA U.S. Small Cap Fund	Life Time Group Holdings, Inc.			Equity	18,777	458,534	0.072%
JNLDOFA U.S. Small Cap Fund	Verve Therapeutics, Inc.			Equity	1,346	6,515	0.001%
JNLDOFA U.S. Small Cap Fund	Consensus Cloud Solutions, Inc.			Equity	4,075	95,139	0.015%
JNLDOFA U.S. Small Cap Fund	Pedivco Corp.			Equity	6,709	5,337	0.001%
JNLDOFA U.S. Small Cap Fund	Avidxchange Holdings, Inc.			Equity	32,640	264,710	0.041%
JNLDOFA U.S. Small Cap Fund	ionQ, Inc.			Equity	11,082	96,857	0.015%
JNLDOFA U.S. Small Cap Fund	Sypris Solutions, Inc.			Equity	2,600	4,160	0.001%
JNLDOFA U.S. Small Cap Fund	Hamony Biosciences Holdings Inc.			Equity	8,970	358,800	0.056%
JNLDOFA U.S. Small Cap Fund	Vita Coco Company, Inc. - The			Equity	7,984	226,027	0.035%
JNLDOFA U.S. Small Cap Fund	Urban One, Inc.			Equity	2,081	3,863	0.001%
JNLDOFA U.S. Small Cap Fund	Semler Scientific, Inc.			Equity	2,031	47,930	0.007%
JNLDOFA U.S. Small Cap Fund	Poseida Therapeutics, Inc.			Equity	21,312	60,952	0.010%
JNLDOFA U.S. Small Cap Fund	Informatica Inc.			Equity	13,117	331,598	0.052%
JNLDOFA U.S. Small Cap Fund	Cleanway Energy, Inc.			Equity	6,006	170,991	0.027%
JNLDOFA U.S. Small Cap Fund	Cleanway Energy, Inc.			Equity	13,426	111,910	0.018%
JNLDOFA U.S. Small Cap Fund	Cadence Bank			Equity	31,730	1,018,533	0.159%
JNLDOFA U.S. Small Cap Fund	Civitas Resources, Inc.			Equity	3,875	196,346	0.031%
JNLDOFA U.S. Small Cap Fund	Aurora Innovations Inc.			Equity	156,470	926,302	0.145%
JNLDOFA U.S. Small Cap Fund	Kyndryl Holdings, Inc.			Equity	99,595	999,893	0.142%
JNLDOFA U.S. Small Cap Fund	2Seventy Bio, Inc.			Equity	2,906	13,716	0.002%
JNLDOFA U.S. Small Cap Fund	Altimmune, Inc.			Equity	11,637	71,451	0.011%
JNLDOFA U.S. Small Cap Fund	Hertz Global Holdings, Inc.			Equity	52,143	172,072	0.027%
JNLDOFA U.S. Small Cap Fund	Sweetgreen, Inc.			Equity	17,074	605,273	0.095%
JNLDOFA U.S. Small Cap Fund	Standard Lithium Ltd.			Equity	5,845	9,468	0.001%
JNLDOFA U.S. Small Cap Fund	Provident Bancorp Inc.			Equity	2,367	25,540	0.004%
JNLDOFA U.S. Small Cap Fund	Matterport Operating, LLC			Equity	56,489	254,201	0.040%
JNLDOFA U.S. Small Cap Fund	Hagerly, Inc.			Equity	1,686	27,317	0.004%
JNLDOFA U.S. Small Cap Fund	Navitas Semiconductor USA, Inc.			Equity	23,037	56,441	0.009%
JNLDOFA U.S. Small Cap Fund	Crescent Energy Company			Equity	14,807	162,137	0.025%
JNLDOFA U.S. Small Cap Fund	HashiCorp, Inc.			Equity	17,412	589,570	0.092%
JNLDOFA U.S. Small Cap Fund	Altus Power, Inc.			Equity	23,879	75,935	0.012%
JNLDOFA U.S. Small Cap Fund	TerraWulf Inc.			Equity	56,984	266,585	0.042%
JNLDOFA U.S. Small Cap Fund	DLH Holdings Corp.			Equity	700	6,552	0.001%
JNLDOFA U.S. Small Cap Fund	Sensus Healthcare, Inc.			Equity	2,400	13,920	0.002%
JNLDOFA U.S. Small Cap Fund	Kura Sushi USA, Inc.			Equity	2,117	170,546	0.027%
JNLDOFA U.S. Small Cap Fund	FirstCash, Inc.			Equity	7,840	900,032	0.141%
JNLDOFA U.S. Small Cap Fund	Powerschool Holdings, Inc.			Equity	3,406	77,691	0.012%
JNLDOFA U.S. Small Cap Fund	Amplitude Inc.			Equity	3,626	32,525	0.005%
JNLDOFA U.S. Small Cap Fund	Pavoneer Global Inc.			Equity	64,225	483,614	0.076%
JNLDOFA U.S. Small Cap Fund	DoubleVerify Holdings, Inc.			Equity	24,587	414,045	0.065%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Rocket Lab USA, Inc.			Equity	39,631	385,610	0.060%
JNLDOFA U.S. Small Cap Fund	Octavi Bios Inc.			Equity	9,215	286,156	0.046%
JNLDOFA U.S. Small Cap Fund	FIGS, Inc.			Equity	28,987	198,271	0.031%
JNLDOFA U.S. Small Cap Fund	Cytex Biosciences, Inc.			Equity	18,408	101,980	0.016%
JNLDOFA U.S. Small Cap Fund	CS Disco, Inc.			Equity	13,027	76,599	0.012%
JNLDOFA U.S. Small Cap Fund	Jimmy's, Inc.			Equity	6,187	113,655	0.018%
JNLDOFA U.S. Small Cap Fund	Core & Main, Inc.			Equity	8,412	373,493	0.058%
JNLDOFA U.S. Small Cap Fund	Mister Car Wash, Inc.			Equity	44,073	286,915	0.045%
JNLDOFA U.S. Small Cap Fund	Erasca, Inc.			Equity	31,237	85,277	0.013%
JNLDOFA U.S. Small Cap Fund	Paycor HCM, Inc.			Equity	26,367	374,148	0.059%
JNLDOFA U.S. Small Cap Fund	Udemy, Inc.			Equity	9,277	61,581	0.010%
JNLDOFA U.S. Small Cap Fund	First Advantage Corporation			Equity	24,719	490,672	0.077%
JNLDOFA U.S. Small Cap Fund	Value Line, Inc.			Equity	486	22,599	0.004%
JNLDOFA U.S. Small Cap Fund	Douglas Elliman Inc.			Equity	22,013	40,283	0.006%
JNLDOFA U.S. Small Cap Fund	mCin OpcCo, Inc.			Equity	13,041	411,965	0.064%
JNLDOFA U.S. Small Cap Fund	Portillo's Inc.			Equity	10,137	136,545	0.021%
JNLDOFA U.S. Small Cap Fund	C4 Therapeutics, Inc.			Equity	13,165	75,041	0.012%
JNLDOFA U.S. Small Cap Fund	Minion Technologies (US), Inc.			Equity	33,822	374,410	0.059%
JNLDOFA U.S. Small Cap Fund	Elanco Animal Health Incorporated			Equity	73,907	1,085,694	0.170%
JNLDOFA U.S. Small Cap Fund	Garrett Motion Inc.			Equity	32,903	269,147	0.042%
JNLDOFA U.S. Small Cap Fund	ZimVie Inc.			Equity	5,395	85,619	0.013%
JNLDOFA U.S. Small Cap Fund	Belfring Intermediate Holdings, Inc.			Equity	22,163	1,345,729	0.211%
JNLDOFA U.S. Small Cap Fund	HF Sinclair Corporation			Equity	1,533	69,326	0.011%
JNLDOFA U.S. Small Cap Fund	Greene County Bancorp, MHC			Equity	2,300	73,851	0.012%
JNLDOFA U.S. Small Cap Fund	Archer Aviation Inc.			Equity	9,405	28,497	0.004%
JNLDOFA U.S. Small Cap Fund	MeridianLink, Inc.			Equity	10,051	206,749	0.032%
JNLDOFA U.S. Small Cap Fund	Caledonia Mining Corporation PLC			Equity	2,713	40,125	0.006%
JNLDOFA U.S. Small Cap Fund	Embecta Corp.			Equity	10,485	147,839	0.023%
JNLDOFA U.S. Small Cap Fund	Compass, Inc.			Equity	67,787	414,179	0.065%
JNLDOFA U.S. Small Cap Fund	Piedmont Lithium Inc.			Equity	2,383	21,280	0.003%
JNLDOFA U.S. Small Cap Fund	Enovos Corporation			Equity	9,398	404,598	0.062%
JNLDOFA U.S. Small Cap Fund	ESAB Corporation			Equity	9,891	945,949	0.148%
JNLDOFA U.S. Small Cap Fund	RCM Technologies, Inc.			Equity	2,153	43,663	0.007%
JNLDOFA U.S. Small Cap Fund	Excellerate Energy, Inc.			Equity	3,943	86,785	0.014%
JNLDOFA U.S. Small Cap Fund	European Wax Center, Inc.			Equity	1,998	54,386	0.009%
JNLDOFA U.S. Small Cap Fund	Credo Technology Group Holding Ltd			Equity	26,291	898,174	0.137%
JNLDOFA U.S. Small Cap Fund	Indie Semiconductor, Inc.			Equity	27,146	108,313	0.017%
JNLDOFA U.S. Small Cap Fund	Nexdoor Holdings, Inc.			Equity	20,830	51,658	0.008%
JNLDOFA U.S. Small Cap Fund	Epsilon Energy Ltd.			Equity	4,910	28,773	0.005%
JNLDOFA U.S. Small Cap Fund	Plumas Bancorp			Equity	241	9,828	0.002%
JNLDOFA U.S. Small Cap Fund	Lightbridge Corporation			Equity	33	92	0.000%
JNLDOFA U.S. Small Cap Fund	Crane Nxt, Co.			Equity	8,430	472,923	0.074%
JNLDOFA U.S. Small Cap Fund	Holley Inc.			Equity	17,252	50,893	0.008%
JNLDOFA U.S. Small Cap Fund	PVCBankcorp, Inc.			Equity	681	8,870	0.001%
JNLDOFA U.S. Small Cap Fund	Quidelortho Corporation			Equity	10,800	492,480	0.077%
JNLDOFA U.S. Small Cap Fund	Ponce Financial Group, Inc.			Equity	5,102	59,642	0.009%
JNLDOFA U.S. Small Cap Fund	Biote Corp.			Equity	4,309	24,044	0.004%
JNLDOFA U.S. Small Cap Fund	J Jill, Inc.			Equity	2,423	59,845	0.009%
JNLDOFA U.S. Small Cap Fund	Krispy Kreme, Inc.			Equity	25,012	268,629	0.042%
JNLDOFA U.S. Small Cap Fund	EverCommerce Inc.			Equity	4,398	45,563	0.007%
JNLDOFA U.S. Small Cap Fund	Integral Ad Science Holding Corp.			Equity	18,641	201,509	0.032%
JNLDOFA U.S. Small Cap Fund	R1 RCM Holdco Inc.			Equity	39,645	561,770	0.088%
JNLDOFA U.S. Small Cap Fund	Tarsus Pharmaceuticals, Inc.			Equity	6,371	209,542	0.033%
JNLDOFA U.S. Small Cap Fund	Five Star Bancorp			Equity	2,908	86,455	0.014%
JNLDOFA U.S. Small Cap Fund	Enhabit Inc.			Equity	9,712	76,725	0.012%
JNLDOFA U.S. Small Cap Fund	Willis Lease Finance Corporation			Equity	915	136,161	0.021%
JNLDOFA U.S. Small Cap Fund	Actinium Pharmaceuticals, Inc.			Equity	4,663	8,766	0.001%
JNLDOFA U.S. Small Cap Fund	Minera Andes Inc.			Equity	390	3,627	0.001%
JNLDOFA U.S. Small Cap Fund	Lyell Immunopharma Inc.			Equity	1,834	2,531	0.000%
JNLDOFA U.S. Small Cap Fund	ARS Pharmaceuticals, Inc.			Equity	3,363	48,764	0.008%
JNLDOFA U.S. Small Cap Fund	Frontdoor, Inc.			Equity	13,844	684,374	0.104%
JNLDOFA U.S. Small Cap Fund	SPX Technologies, Inc.			Equity	7,624	1,215,723	0.190%
JNLDOFA U.S. Small Cap Fund	Root LLC			Equity	970	36,647	0.006%
JNLDOFA U.S. Small Cap Fund	Northwest Natural Holding Company			Equity	6,511	265,779	0.042%
JNLDOFA U.S. Small Cap Fund	DigitalBridge Group, Inc.			Equity	66,268	399,710	0.063%
JNLDOFA U.S. Small Cap Fund	Asserto Holdings, Inc.			Equity	5,399	6,371	0.001%
JNLDOFA U.S. Small Cap Fund	Biomea Fusion, Inc.			Equity	3,473	35,077	0.005%
JNLDOFA U.S. Small Cap Fund	Olema Pharmaceuticals Inc.			Equity	13,179	157,357	0.025%
JNLDOFA U.S. Small Cap Fund	Blue Foundry Bancorp			Equity	6,070	62,218	0.010%
JNLDOFA U.S. Small Cap Fund	Century Therapeutics, Inc.			Equity	1,235	2,112	0.000%
JNLDOFA U.S. Small Cap Fund	Coherent Corp.			Equity	9,897	879,942	0.138%
JNLDOFA U.S. Small Cap Fund	Quest Resource Holding Corporation			Equity	1,500	11,970	0.002%
JNLDOFA U.S. Small Cap Fund	Edgewave Therapeutics, Inc.			Equity	12,518	324,198	0.052%
JNLDOFA U.S. Small Cap Fund	Design Therapeutics, Inc.			Equity	2,989	16,081	0.003%
JNLDOFA U.S. Small Cap Fund	LiveRamp Holdings, Inc.			Equity	12,638	313,170	0.049%
JNLDOFA U.S. Small Cap Fund	Noble Corporation PLC			Equity	19,348	699,237	0.109%
JNLDOFA U.S. Small Cap Fund	Xperi Inc.			Equity	8,509	78,625	0.012%
JNLDOFA U.S. Small Cap Fund	Aelia Inc.			Equity	20,452	243,583	0.038%
JNLDOFA U.S. Small Cap Fund	Stellar Bancorp, Inc.			Equity	8,414	217,838	0.034%
JNLDOFA U.S. Small Cap Fund	Boehringer Ltd.			Equity	98	4,897	0.001%
JNLDOFA U.S. Small Cap Fund	IBEX Limited			Equity	3,480	69,530	0.011%
JNLDOFA U.S. Small Cap Fund	Rallybio Corporation			Equity	1,563	1,829	0.000%
JNLDOFA U.S. Small Cap Fund	Taskus, Inc.			Equity	3,332	43,049	0.007%
JNLDOFA U.S. Small Cap Fund	The Honest Company, Inc.			Equity	16,308	58,220	0.009%
JNLDOFA U.S. Small Cap Fund	RAXO Inc.			Equity	15,750	441,000	0.069%
JNLDOFA U.S. Small Cap Fund	OmnAB, Inc.			Equity	22,914	96,927	0.015%
JNLDOFA U.S. Small Cap Fund	OmnAB, Inc.			Equity	1,096	0	0.000%
JNLDOFA U.S. Small Cap Fund	OmnAB, Inc.			Equity	1,096	0	0.000%
JNLDOFA U.S. Small Cap Fund	1stDibs.com, Inc.			Equity	6,527	28,784	0.005%
JNLDOFA U.S. Small Cap Fund	Cogent Biosciences, Inc.			Equity	16,084	195,307	0.031%
JNLDOFA U.S. Small Cap Fund	Day One Biopharmaceuticals, Inc.			Equity	13,297	185,227	0.029%
JNLDOFA U.S. Small Cap Fund	F&G Annuities & Life, Inc.			Equity	956	42,752	0.007%
JNLDOFA U.S. Small Cap Fund	Limbach Holdings, Inc.			Equity	2,728	206,673	0.032%
JNLDOFA U.S. Small Cap Fund	Aerovate Therapeutics Inc.			Equity	2,189	9,029	0.001%
JNLDOFA U.S. Small Cap Fund	Aadi Bioscience, Inc.			Equity	5,917	12,189	0.002%
JNLDOFA U.S. Small Cap Fund	Sight Sciences, Inc.			Equity	3,910	24,633	0.004%
JNLDOFA U.S. Small Cap Fund	AlSci Corporation			Equity	15,599	59,588	0.009%
JNLDOFA U.S. Small Cap Fund	CPI Card Group Inc.			Equity	2,198	61,170	0.010%
JNLDOFA U.S. Small Cap Fund	Cullinan Oncology, LLC			Equity	7,991	133,769	0.021%
JNLDOFA U.S. Small Cap Fund	Paysafe Limited			Equity	10,434	234,035	0.037%
JNLDOFA U.S. Small Cap Fund	Masterbrand, Inc.			Equity	21,634	401,094	0.063%
JNLDOFA U.S. Small Cap Fund	Sole Brands, Inc.			Equity	6,552	9,238	0.001%
JNLDOFA U.S. Small Cap Fund	Montauk Renewables, Inc.			Equity	24,983	130,161	0.020%
JNLDOFA U.S. Small Cap Fund	Stagwell, Inc.			Equity	16,758	117,641	0.018%
JNLDOFA U.S. Small Cap Fund	Bioalta, Inc.			Equity	1,229	2,163	0.000%
JNLDOFA U.S. Small Cap Fund	Enact Holdings, Inc.			Equity	8,124	235,145	0.046%
JNLDOFA U.S. Small Cap Fund	Elastic N.V.			Equity	1,642	126,040	0.020%
JNLDOFA U.S. Small Cap Fund	STR Sub Inc.			Equity	7,616	158,717	0.025%
JNLDOFA U.S. Small Cap Fund	Terms Pharmaceuticals, Inc.			Equity	5,673	47,313	0.007%
JNLDOFA U.S. Small Cap Fund	Zymeworks Inc.			Equity	7,237	90,824	0.014%
JNLDOFA U.S. Small Cap Fund	Princeton Bancorp, Inc.			Equity	1,441	53,288	0.008%
JNLDOFA U.S. Small Cap Fund	Dakota Gold Corp.			Equity	8,068	19,040	0.003%
JNLDOFA U.S. Small Cap Fund	Bowman Consulting Group Ltd.			Equity	2,788	67,135	0.011%
JNLDOFA U.S. Small Cap Fund	Viessse Energy, Inc.			Equity	5,173	124,255	0.019%
JNLDOFA U.S. Small Cap Fund	Acumen Pharmaceuticals, Inc.			Equity	1,818	4,509	0.001%
JNLDOFA U.S. Small Cap Fund	JAKKS Pacific, Inc.			Equity	2,215	56,527	0.009%
JNLDOFA U.S. Small Cap Fund	ZEVIA PBC			Equity	5,609	6,058	0.001%
JNLDOFA U.S. Small Cap Fund	GoHealth, Inc.			Equity	1,048	9,830	0.002%
JNLDOFA U.S. Small Cap Fund	Napco Security Technologies, Inc.			Equity	6,812	276,465	0.043%
JNLDOFA U.S. Small Cap Fund	AC Immune SA			Equity	1,663	6,286	0.001%
JNLDOFA U.S. Small Cap Fund	Mr. Cooper Group Inc.			Equity	10,620	978,952	0.153%
JNLDOFA U.S. Small Cap Fund	Resideo Technologies, Inc.			Equity	24,670	496,854	0.078%
JNLDOFA U.S. Small Cap Fund	YETI Holdings, Inc.			Equity	13,619	558,785	0.087%
JNLDOFA U.S. Small Cap Fund	Vericel Corporation			Equity	7,904	333,944	0.052%
JNLDOFA U.S. Small Cap Fund	PennyMac Financial Services, Inc.			Equity	8,973	1,022,653	0.160%
JNLDOFA U.S. Small Cap Fund	Arcoxia, Inc.			Equity	8,901	843,459	0.132%
JNLDOFA U.S. Small Cap Fund	Needles & Company			Equity	10,592	127,710	0.020%
JNLDOFA U.S. Small Cap Fund	Guaranty Bancshares, Inc.			Equity	2,958	102,403	0.016%
JNLDOFA U.S. Small Cap Fund	Dayforce, Inc.			Equity	12,118	742,228	0.116%
JNLDOFA U.S. Small Cap Fund	F.N.B. Corporation			Equity	61,327	865,324	0.135%
JNLDOFA U.S. Small Cap Fund	CECO Environmental Corp.			Equity	8,074	227,696	0.046%
JNLDOFA U.S. Small Cap Fund	Boyd Gaming Corporation			Equity	387	25,085	0.004%
JNLDOFA U.S. Small Cap Fund	Steelcase Inc.			Equity	18,906	256,933	0.040%
JNLDOFA U.S. Small Cap Fund	SLM Corporation			Equity	38,598	882,736	0.138%
JNLDOFA U.S. Small Cap Fund	Inspertly, Inc.			Equity	5,265	463,320	0.073%
JNLDOFA U.S. Small Cap Fund	Group 1 Automotive, Inc.			Equity	2,682	1,027,313	0.161%
JNLDOFA U.S. Small Cap Fund	Aware Inc.			Equity	4,801	8,978	0.001%
JNLDOFA U.S. Small Cap Fund	Simulations Plus, Inc.			Equity	4,494	143,898	0.023%
JNLDOFA U.S. Small Cap Fund	Amedys, Inc.			Equity	6,096	588,325	0.092%
JNLDOFA U.S. Small Cap Fund	PARO Technologies, Inc.			Equity	4,940	94,552	0.015%
JNLDOFA U.S. Small Cap Fund	Materion Corporation			Equity	3,709	414,889	0.065%
JNLDOFA U.S. Small Cap Fund	Azentia, Inc.			Equity	8,359	404,910	0.063%
JNLDOFA U.S. Small Cap Fund	Brady Corporation			Equity	7,708	590,664	0.092%
JNLDOFA U.S. Small Cap Fund	Choice Hotels International, Inc.			Equity	6,723	676,007	0.107%
JNLDOFA U.S. Small Cap Fund	Power Integrations, Inc.			Equity	9,960	638,635	0.100%
JNLDOFA U.S. Small Cap Fund	Benchmark Electronics, Inc.			Equity	8,235	366,375	0.057%
JNLDOFA U.S. Small Cap Fund	Cassella Waste Systems, Inc.			Equity	7,654	761,496	0.119%
JNLDOFA U.S. Small Cap Fund	Princede West Capital Corporation			Equity	8,014	709,960	0.111%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Stonewide, Inc.			Equity	6,490	72,623	0.011%
JNLDOFA U.S. Small Cap Fund	NVE Corporation			Equity	1,304	104,150	0.016%
JNLDOFA U.S. Small Cap Fund	Consolidated Water Co. Ltd.			Equity	3,744	94,386	0.015%
JNLDOFA U.S. Small Cap Fund	Mercer International Inc.			Equity	16,754	114,681	0.018%
JNLDOFA U.S. Small Cap Fund	REX American Resources Corporation			Equity	4,168	192,937	0.030%
JNLDOFA U.S. Small Cap Fund	Century Casinos, Inc.			Equity	7,145	18,291	0.003%
JNLDOFA U.S. Small Cap Fund	Barnes Group Inc.			Equity	9,738	393,513	0.062%
JNLDOFA U.S. Small Cap Fund	Autoliv, Inc.			Equity	5,980	556,353	0.087%
JNLDOFA U.S. Small Cap Fund	Abercrombie & Fitch Co.			Equity	12,235	1,711,677	0.268%
JNLDOFA U.S. Small Cap Fund	Apogee Enterprises, Inc.			Equity	4,583	320,879	0.050%
JNLDOFA U.S. Small Cap Fund	BandPart Corporation			Equity	5,955	629,503	0.099%
JNLDOFA U.S. Small Cap Fund	Universal Technical Institute, Inc.			Equity	10,347	168,242	0.026%
JNLDOFA U.S. Small Cap Fund	Affiliated Managers Group, Inc.			Equity	6,308	1,121,562	0.176%
JNLDOFA U.S. Small Cap Fund	OPKO Health, Inc.			Equity	42,774	63,733	0.010%
JNLDOFA U.S. Small Cap Fund	PetMed Express, Inc.			Equity	4,946	18,015	0.003%
JNLDOFA U.S. Small Cap Fund	BOK Financial Corporation			Equity	10,178	1,064,822	0.167%
JNLDOFA U.S. Small Cap Fund	MasterCraft Boat Holdings, Inc.			Equity	3,654	66,539	0.010%
JNLDOFA U.S. Small Cap Fund	Alamo Group Inc.			Equity	2,625	472,841	0.074%
JNLDOFA U.S. Small Cap Fund	Ark Restaurants Corp.			Equity	579	6,942	0.001%
JNLDOFA U.S. Small Cap Fund	National HealthCare Corporation			Equity	3,110	393,042	0.062%
JNLDOFA U.S. Small Cap Fund	Bassett Furniture Industries, Incorporated			Equity	2,287	33,047	0.005%
JNLDOFA U.S. Small Cap Fund	Associated Banc-Corp			Equity	26,109	562,388	0.088%
JNLDOFA U.S. Small Cap Fund	OceanFirst Financial Corp.			Equity	12,199	226,786	0.035%
JNLDOFA U.S. Small Cap Fund	Alaska Air Group, Inc.			Equity	21,003	949,546	0.149%
JNLDOFA U.S. Small Cap Fund	Helix Energy Solutions Group, Inc.			Equity	29,967	332,634	0.052%
JNLDOFA U.S. Small Cap Fund	Albany International Corp.			Equity	5,747	512,115	0.080%
JNLDOFA U.S. Small Cap Fund	Arnet, Inc.			Equity	16,236	981,777	0.148%
JNLDOFA U.S. Small Cap Fund	Nordic American Tankers Limited			Equity	48,053	182,121	0.029%
JNLDOFA U.S. Small Cap Fund	Mercury Systems, Inc.			Equity	9,558	353,646	0.055%
JNLDOFA U.S. Small Cap Fund	ABM Industries Incorporated			Equity	13,192	696,010	0.109%
JNLDOFA U.S. Small Cap Fund	Limestone Company			Equity	4,922	139,433	0.020%
JNLDOFA U.S. Small Cap Fund	Balchem Corporation			Equity	1,679	999,504	0.156%
JNLDOFA U.S. Small Cap Fund	Camden National Corporation			Equity	3,708	153,215	0.024%
JNLDOFA U.S. Small Cap Fund	Osi Systems, Inc.			Equity	3,128	474,924	0.074%
JNLDOFA U.S. Small Cap Fund	Alco, Inc.			Equity	1,931	54,107	0.008%
JNLDOFA U.S. Small Cap Fund	AKR Corp.			Equity	6,788	459,684	0.071%
JNLDOFA U.S. Small Cap Fund	Astec Industries, Inc.			Equity	4,886	156,059	0.024%
JNLDOFA U.S. Small Cap Fund	American Vanguard Corporation			Equity	6,085	32,251	0.005%
JNLDOFA U.S. Small Cap Fund	Black Hills Corporation			Equity	10,842	662,663	0.104%
JNLDOFA U.S. Small Cap Fund	Arrow Financial Corporation			Equity	4,362	125,077	0.019%
JNLDOFA U.S. Small Cap Fund	Arrow Electronics, Inc.			Equity	8,210	1,090,534	0.171%
JNLDOFA U.S. Small Cap Fund	Anika Therapeutics, Inc.			Equity	3,758	92,823	0.015%
JNLDOFA U.S. Small Cap Fund	Riverview Bancorp., Inc.			Equity	2,695	12,693	0.002%
JNLDOFA U.S. Small Cap Fund	Timberland Bancorp., Inc.			Equity	2,259	68,367	0.011%
JNLDOFA U.S. Small Cap Fund	Brunswick Corporation			Equity	10,882	912,129	0.143%
JNLDOFA U.S. Small Cap Fund	BorgWarner Inc.			Equity	24,813	900,464	0.141%
JNLDOFA U.S. Small Cap Fund	Astronics Corporation			Equity	7,327	142,730	0.022%
JNLDOFA U.S. Small Cap Fund	American Eagle Outfitters, Inc.			Equity	35,120	786,337	0.122%
JNLDOFA U.S. Small Cap Fund	8XB, Inc.			Equity	16,235	33,119	0.005%
JNLDOFA U.S. Small Cap Fund	American Woodmark Corporation			Equity	3,766	351,933	0.055%
JNLDOFA U.S. Small Cap Fund	American Software, Inc.			Equity	8,160	91,310	0.014%
JNLDOFA U.S. Small Cap Fund	MaxTec, Inc.			Equity	7,483	931,157	0.144%
JNLDOFA U.S. Small Cap Fund	Applied Industrial Technologies, Inc.			Equity	6,673	1,488,946	0.233%
JNLDOFA U.S. Small Cap Fund	Cass Information Systems, Inc.			Equity	3,493	144,890	0.023%
JNLDOFA U.S. Small Cap Fund	AZZ Inc.			Equity	5,019	414,620	0.065%
JNLDOFA U.S. Small Cap Fund	Del Monte Fresh Produce Company			Equity	8,269	244,266	0.038%
JNLDOFA U.S. Small Cap Fund	Bio-Rad Laboratories, Inc.			Equity	713	238,556	0.037%
JNLDOFA U.S. Small Cap Fund	AptarGroup, Inc.			Equity	1,164	186,461	0.029%
JNLDOFA U.S. Small Cap Fund	Maximus, Inc.			Equity	9,746	907,937	0.142%
JNLDOFA U.S. Small Cap Fund	Nicoret Bankshares, Inc.			Equity	12,734	261,452	0.041%
JNLDOFA U.S. Small Cap Fund	Robert Half Inc.			Equity	10,363	698,570	0.109%
JNLDOFA U.S. Small Cap Fund	Sandy Spring Bancorp., Inc.			Equity	8,026	251,776	0.039%
JNLDOFA U.S. Small Cap Fund	Bank of Hawaii Corporation			Equity	7,069	443,721	0.069%
JNLDOFA U.S. Small Cap Fund	Boston Beer Company, Inc., The			Equity	1,635	472,744	0.074%
JNLDOFA U.S. Small Cap Fund	Advanced Energy Industries, Inc.			Equity	6,694	704,477	0.110%
JNLDOFA U.S. Small Cap Fund	Hanover Insurance Group Inc. The			Equity	6,004	889,252	0.139%
JNLDOFA U.S. Small Cap Fund	AGCO Corporation			Equity	7,153	699,993	0.110%
JNLDOFA U.S. Small Cap Fund	Sonic Automotive, Inc.			Equity	4,391	258,103	0.040%
JNLDOFA U.S. Small Cap Fund	Adams Resources & Energy, Inc.			Equity	800	109,291	0.017%
JNLDOFA U.S. Small Cap Fund	Barnett Business Services, Inc.			Equity	6,124	229,711	0.036%
JNLDOFA U.S. Small Cap Fund	H & R Block, Inc.			Equity	18,169	1,161,453	0.182%
JNLDOFA U.S. Small Cap Fund	PriceSmart, Inc.			Equity	5,778	530,305	0.083%
JNLDOFA U.S. Small Cap Fund	Badger Meter, Inc.			Equity	6,559	1,214,141	0.190%
JNLDOFA U.S. Small Cap Fund	Ampco-Pittsburgh Corporation			Equity	2,669	5,338	0.001%
JNLDOFA U.S. Small Cap Fund	Northwest Pipe Company			Equity	2,680	120,948	0.019%
JNLDOFA U.S. Small Cap Fund	Clearfield, Inc.			Equity	1,274	49,635	0.008%
JNLDOFA U.S. Small Cap Fund	The Buckle, Inc.			Equity	8,594	377,678	0.059%
JNLDOFA U.S. Small Cap Fund	Ameris Bancorp.			Equity	13,059	816,710	0.128%
JNLDOFA U.S. Small Cap Fund	Innodata Inc.			Equity	5,800	97,266	0.015%
JNLDOFA U.S. Small Cap Fund	GATX Corporation			Equity	6,127	811,521	0.127%
JNLDOFA U.S. Small Cap Fund	International Bancshares Corporation			Equity	11,164	667,496	0.104%
JNLDOFA U.S. Small Cap Fund	Citizens & Northern Corporation			Equity	3,861	76,023	0.012%
JNLDOFA U.S. Small Cap Fund	Digi International Inc.			Equity	6,562	180,652	0.028%
JNLDOFA U.S. Small Cap Fund	Cracker Barrel Old Country Store, Inc.			Equity	3,652	165,618	0.026%
JNLDOFA U.S. Small Cap Fund	Acacia Research Corporation			Equity	12,123	56,493	0.009%
JNLDOFA U.S. Small Cap Fund	Crown Holdings, Inc.			Equity	6,495	618,955	0.097%
JNLDOFA U.S. Small Cap Fund	Chesapeake Factory Incorporated, The			Equity	8,752	354,894	0.056%
JNLDOFA U.S. Small Cap Fund	USANA Health Sciences, Inc.			Equity	4,092	155,169	0.024%
JNLDOFA U.S. Small Cap Fund	Huron Companies, Inc.			Equity	1,554	32,743	0.005%
JNLDOFA U.S. Small Cap Fund	Bel Fuse Inc.			Equity	2,783	294,650	0.046%
JNLDOFA U.S. Small Cap Fund	Coeur Mining, Inc.			Equity	68,816	473,454	0.074%
JNLDOFA U.S. Small Cap Fund	Capital City Bank Group, Inc.			Equity	4,436	156,546	0.024%
JNLDOFA U.S. Small Cap Fund	Carnage Services, Inc.			Equity	4,385	143,960	0.023%
JNLDOFA U.S. Small Cap Fund	Evolution Petroleum Corporation			Equity	6,616	45,751	0.007%
JNLDOFA U.S. Small Cap Fund	Crusis Logic, Inc.			Equity	9,612	1,193,907	0.187%
JNLDOFA U.S. Small Cap Fund	Credit Acceptance Corporation			Equity	1,921	851,810	0.133%
JNLDOFA U.S. Small Cap Fund	Caci International Inc.			Equity	1,283	647,350	0.101%
JNLDOFA U.S. Small Cap Fund	Extreme Networks, Inc.			Equity	21,435	322,146	0.050%
JNLDOFA U.S. Small Cap Fund	The York Water Company			Equity	3,029	114,105	0.018%
JNLDOFA U.S. Small Cap Fund	Allient Inc.			Equity	3,639	69,105	0.011%
JNLDOFA U.S. Small Cap Fund	1-800-Flowers.com, Inc.			Equity	9,825	77,912	0.012%
JNLDOFA U.S. Small Cap Fund	Commercial Metals Company			Equity	21,600	118,716	0.018%
JNLDOFA U.S. Small Cap Fund	Instel Industries, Inc.			Equity	4,617	143,543	0.022%
JNLDOFA U.S. Small Cap Fund	Chesapeake Utilities Corporation			Equity	3,693	460,923	0.072%
JNLDOFA U.S. Small Cap Fund	Forrester Research, Inc.			Equity	4,825	86,898	0.014%
JNLDOFA U.S. Small Cap Fund	ManneMax, Inc.			Equity	4,775	168,414	0.026%
JNLDOFA U.S. Small Cap Fund	Community Financial System, Inc.			Equity	5,752	573,126	0.090%
JNLDOFA U.S. Small Cap Fund	Dillard's, Inc.			Equity	1,850	710,289	0.111%
JNLDOFA U.S. Small Cap Fund	Denny's Corporation			Equity	12,497	80,606	0.013%
JNLDOFA U.S. Small Cap Fund	Artech Systems, Inc.			Equity	3,100	17,980	0.003%
JNLDOFA U.S. Small Cap Fund	American States Water Company			Equity	6,175	514,316	0.080%
JNLDOFA U.S. Small Cap Fund	The Cato Corporation			Equity	4,565	22,779	0.004%
JNLDOFA U.S. Small Cap Fund	Winmark Corporation			Equity	761	291,410	0.046%
JNLDOFA U.S. Small Cap Fund	Hingham Institution For Savings, The			Equity	535	130,171	0.020%
JNLDOFA U.S. Small Cap Fund	First Horizon Corporation			Equity	18,752	294,031	0.046%
JNLDOFA U.S. Small Cap Fund	Unifirst Corporation			Equity	2,599	516,291	0.081%
JNLDOFA U.S. Small Cap Fund	First Financial Bankshares, Inc.			Equity	21,795	810,556	0.127%
JNLDOFA U.S. Small Cap Fund	Horace Mann Educators Corporation			Equity	7,194	251,430	0.039%
JNLDOFA U.S. Small Cap Fund	Cullen/Frost Bankers, Inc.			Equity	9,795	1,095,781	0.171%
JNLDOFA U.S. Small Cap Fund	Brinker International, Inc.			Equity	6,631	660,530	0.103%
JNLDOFA U.S. Small Cap Fund	Envirol Corporation			Equity	17,596	181,943	0.028%
JNLDOFA U.S. Small Cap Fund	California Water Service Group			Equity	8,946	485,052	0.076%
JNLDOFA U.S. Small Cap Fund	C-B Apparel Group, Ltd.			Equity	10,329	193,241	0.030%
JNLDOFA U.S. Small Cap Fund	Dioxides Incorporated			Equity	8,258	529,255	0.083%
JNLDOFA U.S. Small Cap Fund	Griffon Corporation			Equity	9,547	668,290	0.105%
JNLDOFA U.S. Small Cap Fund	Farmer Bros. Co.			Equity	4,299	8,512	0.001%
JNLDOFA U.S. Small Cap Fund	Ingles Markets, Incorporated			Equity	2,724	203,216	0.032%
JNLDOFA U.S. Small Cap Fund	Amkor Technology, Inc.			Equity	27,531	842,449	0.132%
JNLDOFA U.S. Small Cap Fund	Crawford & Company			Equity	4,584	50,928	0.008%
JNLDOFA U.S. Small Cap Fund	CVB Financial Corp.			Equity	25,872	466,213	0.073%
JNLDOFA U.S. Small Cap Fund	Ducommun Incorporated			Equity	3,418	225,607	0.036%
JNLDOFA U.S. Small Cap Fund	Columbia Sportswear Company			Equity	9,542	293,789	0.045%
JNLDOFA U.S. Small Cap Fund	Central Garden & Pet Company			Equity	1,985	72,393	0.011%
JNLDOFA U.S. Small Cap Fund	CONMED Corporation			Equity	5,237	377,692	0.059%
JNLDOFA U.S. Small Cap Fund	L. B. Foster Company			Equity	2,343	47,867	0.007%
JNLDOFA U.S. Small Cap Fund	Assurant, Inc.			Equity	4,267	848,536	0.133%
JNLDOFA U.S. Small Cap Fund	Hasbro, Inc.			Equity	12,594	910,798	0.143%
JNLDOFA U.S. Small Cap Fund	The Goodyear Tire & Rubber Company			Equity	49,663	439,518	0.069%
JNLDOFA U.S. Small Cap Fund	InterDigital, Inc.			Equity	5,001	708,292	0.111%
JNLDOFA U.S. Small Cap Fund	Enzo Biochem, Inc.			Equity	9,620	10,714	0.002%
JNLDOFA U.S. Small Cap Fund	World Kinect Corporation			Equity	11,413	354,716	0.056%
JNLDOFA U.S. Small Cap Fund	AXT, Inc.			Equity	7,996	19,350	0.003%
JNLDOFA U.S. Small Cap Fund	Hexcel Corporation			Equity	10,175	629,120	0.098%
JNLDOFA U.S. Small Cap Fund	The Greenbrier Companies, Inc.			Equity	7,274	370,174	0.058%
JNLDOFA U.S. Small Cap Fund	Culp, Inc.			Equity	1,965	12,871	0.002%
JNLDOFA U.S. Small Cap Fund	Crawford & Company			Equity	7,409	81,277	0.013%
JNLDOFA U.S. Small Cap Fund	First Bancorp			Equity	7,365	307,931	0.048%
JNLDOFA U.S. Small Cap Fund	Flexsteel Industries, Inc.			Equity	1,153	51,262	0.008%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Universal Display Corporation			Equity	3,237	679,446	0.106%
JNLDOFA U.S. Small Cap Fund	Trustmark Corporation			Equity	11,140	354,475	0.055%
JNLDOFA U.S. Small Cap Fund	Piper Sandler Companies			Equity	3,263	926,072	0.145%
JNLDOFA U.S. Small Cap Fund	Marchex, Inc.			Equity	116	217	0.000%
JNLDOFA U.S. Small Cap Fund	GRA International, Inc.			Equity	1,551	271,921	0.043%
JNLDOFA U.S. Small Cap Fund	Haverly Furniture Companies, Inc.			Equity	3,496	96,035	0.015%
JNLDOFA U.S. Small Cap Fund	Gormann, Rupp Company, The			Equity	6,041	235,297	0.037%
JNLDOFA U.S. Small Cap Fund	Itron, Inc.			Equity	8,158	871,356	0.136%
JNLDOFA U.S. Small Cap Fund	Deluxe Corporation			Equity	9,719	189,423	0.030%
JNLDOFA U.S. Small Cap Fund	Gibraltar Industries, Inc.			Equity	5,479	383,146	0.060%
JNLDOFA U.S. Small Cap Fund	White Mountains Insurance Group Ltd			Equity	498	844,708	0.132%
JNLDOFA U.S. Small Cap Fund	The Hackett Group, Inc.			Equity	6,577	173,501	0.027%
JNLDOFA U.S. Small Cap Fund	LCNB Corp.			Equity	2,700	40,689	0.006%
JNLDOFA U.S. Small Cap Fund	J&J Snack Foods Corp.			Equity	3,185	550,687	0.086%
JNLDOFA U.S. Small Cap Fund	American Axle & Manufacturing Holdings, Inc.			Equity	25,559	157,046	0.025%
JNLDOFA U.S. Small Cap Fund	PC Connection, Inc.			Equity	5,057	381,450	0.060%
JNLDOFA U.S. Small Cap Fund	Cortech Telecommunications Corp.			Equity	7,731	37,186	0.006%
JNLDOFA U.S. Small Cap Fund	Escalade, Incorporated			Equity	3,058	43,026	0.007%
JNLDOFA U.S. Small Cap Fund	KCI Medical, Inc.			Equity	2,072	277,560	0.059%
JNLDOFA U.S. Small Cap Fund	HNI Corporation			Equity	8,195	441,219	0.069%
JNLDOFA U.S. Small Cap Fund	Exponent, Inc.			Equity	8,034	926,160	0.145%
JNLDOFA U.S. Small Cap Fund	Gray Television, Inc.			Equity	20,687	110,882	0.017%
JNLDOFA U.S. Small Cap Fund	City Holding Company			Equity	2,578	302,831	0.047%
JNLDOFA U.S. Small Cap Fund	Federal Signal Corporation			Equity	9,867	922,170	0.144%
JNLDOFA U.S. Small Cap Fund	Hawkins, Inc.			Equity	4,882	622,309	0.097%
JNLDOFA U.S. Small Cap Fund	Daktronics, Inc.			Equity	12,709	164,073	0.026%
JNLDOFA U.S. Small Cap Fund	Tempur Sealy International, Inc.			Equity	16,249	887,185	0.139%
JNLDOFA U.S. Small Cap Fund	Banner Corporation			Equity	6,295	374,930	0.059%
JNLDOFA U.S. Small Cap Fund	Flushing Financial Corporation			Equity	7,422	108,213	0.017%
JNLDOFA U.S. Small Cap Fund	PMC Corporation			Equity	10,813	719,281	0.113%
JNLDOFA U.S. Small Cap Fund	MedSoc Systems, Inc.			Equity	13,277	286,775	0.045%
JNLDOFA U.S. Small Cap Fund	Provident Financial Services, Inc.			Equity	24,551	456,223	0.071%
JNLDOFA U.S. Small Cap Fund	Peapack-Gladstone Financial Corporation			Equity	4,491	123,098	0.019%
JNLDOFA U.S. Small Cap Fund	Cohu, Inc.			Equity	9,169	235,643	0.037%
JNLDOFA U.S. Small Cap Fund	Network-1 Technologies, Inc.			Equity	2,700	3,780	0.001%
JNLDOFA U.S. Small Cap Fund	Consumer Portfolio Services, Inc.			Equity	5,820	54,730	0.009%
JNLDOFA U.S. Small Cap Fund	Hedrick & Struggles International, Inc.			Equity	5,065	196,826	0.031%
JNLDOFA U.S. Small Cap Fund	FTI Consulting, Inc.			Equity	4,654	1,059,064	0.166%
JNLDOFA U.S. Small Cap Fund	Daily Journal Corporation			Equity	254	124,485	0.019%
JNLDOFA U.S. Small Cap Fund	Compass Minerals International, Inc.			Equity	6,913	831,064	0.134%
JNLDOFA U.S. Small Cap Fund	Federated Hermes, Inc.			Equity	15,800	580,966	0.091%
JNLDOFA U.S. Small Cap Fund	First Bancorp, Inc., The			Equity	2,663	70,090	0.011%
JNLDOFA U.S. Small Cap Fund	Sealed Air Corporation			Equity	19,752	716,995	0.112%
JNLDOFA U.S. Small Cap Fund	DXP Enterprises, Inc.			Equity	4,420	255,861	0.037%
JNLDOFA U.S. Small Cap Fund	Prosperity Bancshares, Inc.			Equity	13,374	971,354	0.152%
JNLDOFA U.S. Small Cap Fund	First Financial Corporation			Equity	2,424	106,292	0.017%
JNLDOFA U.S. Small Cap Fund	Arvin, Inc.			Equity	10,484	279,084	0.044%
JNLDOFA U.S. Small Cap Fund	Century Aluminum Company			Equity	20,805	337,665	0.053%
JNLDOFA U.S. Small Cap Fund	Kronos Worldwide, Inc.			Equity	12,297	153,098	0.024%
JNLDOFA U.S. Small Cap Fund	First Merchants Corporation			Equity	10,811	402,161	0.063%
JNLDOFA U.S. Small Cap Fund	Healthcare Services Group, Inc.			Equity	14,125	157,776	0.025%
JNLDOFA U.S. Small Cap Fund	ETCORP, Inc.			Equity	12,905	144,665	0.023%
JNLDOFA U.S. Small Cap Fund	Cognex Corporation			Equity	17,558	711,099	0.111%
JNLDOFA U.S. Small Cap Fund	AAON, Inc.			Equity	14,158	1,526,799	0.239%
JNLDOFA U.S. Small Cap Fund	West Bancorporation, Inc.			Equity	4,906	93,263	0.015%
JNLDOFA U.S. Small Cap Fund	Heartland Express, Inc.			Equity	12,273	150,958	0.024%
JNLDOFA U.S. Small Cap Fund	First of Long Island Corporation, The			Equity	4,896	83,012	0.010%
JNLDOFA U.S. Small Cap Fund	Graham Corporation			Equity	2,302	68,116	0.011%
JNLDOFA U.S. Small Cap Fund	Guess ? , Inc.			Equity	9,873	198,743	0.031%
JNLDOFA U.S. Small Cap Fund	Genesco Inc.			Equity	3,067	83,330	0.013%
JNLDOFA U.S. Small Cap Fund	Hawteen Electric Industries, Inc.			Equity	15,841	153,341	0.024%
JNLDOFA U.S. Small Cap Fund	RGC Resources, Inc.			Equity	1,860	41,980	0.007%
JNLDOFA U.S. Small Cap Fund	Curtiss-Wright Corporation			Equity	1,062	349,292	0.055%
JNLDOFA U.S. Small Cap Fund	Blackbaud, Inc.			Equity	9,330	790,064	0.124%
JNLDOFA U.S. Small Cap Fund	Skchers U.S.A., Inc.			Equity	4,209	281,666	0.044%
JNLDOFA U.S. Small Cap Fund	First Financial Bancorp.			Equity	17,335	437,362	0.068%
JNLDOFA U.S. Small Cap Fund	Encore Capital Group, Inc.			Equity	4,290	202,788	0.032%
JNLDOFA U.S. Small Cap Fund	Franklin Covey Co.			Equity	3,354	137,950	0.022%
JNLDOFA U.S. Small Cap Fund	1st Source Corporation			Equity	4,535	671,256	0.092%
JNLDOFA U.S. Small Cap Fund	Commerce Bancshares, Inc.			Equity	20,236	1,202,018	0.188%
JNLDOFA U.S. Small Cap Fund	Harley-Davidson, Inc.			Equity	19,681	758,309	0.119%
JNLDOFA U.S. Small Cap Fund	Ethan Allen Interiors Inc.			Equity	5,620	179,222	0.028%
JNLDOFA U.S. Small Cap Fund	Franklin Electric Co., Inc.			Equity	8,212	890,762	0.136%
JNLDOFA U.S. Small Cap Fund	Nektar Therapeutics			Equity	25,670	33,371	0.005%
JNLDOFA U.S. Small Cap Fund	Eagle Materials Inc.			Equity	2,372	682,899	0.107%
JNLDOFA U.S. Small Cap Fund	Hecla Mining Company			Equity	112,434	749,935	0.117%
JNLDOFA U.S. Small Cap Fund	Hub Group, Inc.			Equity	11,216	599,167	0.090%
JNLDOFA U.S. Small Cap Fund	Genex Corporation			Equity	23,747	705,048	0.110%
JNLDOFA U.S. Small Cap Fund	Donaldson Company, Inc.			Equity	5,282	389,283	0.061%
JNLDOFA U.S. Small Cap Fund	Pathward Financial, Inc.			Equity	4,540	299,912	0.047%
JNLDOFA U.S. Small Cap Fund	WESCO International, Inc.			Equity	2,401	403,320	0.063%
JNLDOFA U.S. Small Cap Fund	Neinet, Inc.			Equity	4,857	550,201	0.086%
JNLDOFA U.S. Small Cap Fund	Columbus McKinnon Corporation			Equity	5,453	196,308	0.031%
JNLDOFA U.S. Small Cap Fund	Federal Agricultural Mortgage Corporation			Equity	1,739	325,906	0.051%
JNLDOFA U.S. Small Cap Fund	Helen of Troy Limited			Equity	4,152	256,801	0.040%
JNLDOFA U.S. Small Cap Fund	Covenant Logistics Group, Inc.			Equity	2,843	155,248	0.024%
JNLDOFA U.S. Small Cap Fund	CorVel Corporation			Equity	3,175	1,037,876	0.162%
JNLDOFA U.S. Small Cap Fund	The Andersons, Inc.			Equity	6,637	332,779	0.052%
JNLDOFA U.S. Small Cap Fund	Carpenter Technology Corporation			Equity	8,640	1,378,771	0.216%
JNLDOFA U.S. Small Cap Fund	Independent Bank Corp.			Equity	7,771	463,929	0.073%
JNLDOFA U.S. Small Cap Fund	Cal-Maine Foods, Inc.			Equity	7,547	564,817	0.088%
JNLDOFA U.S. Small Cap Fund	Fulton Financial Corporation			Equity	29,215	529,668	0.083%
JNLDOFA U.S. Small Cap Fund	H.B. Fuller Company			Equity	9,743	773,399	0.121%
JNLDOFA U.S. Small Cap Fund	Granite Construction Incorporated			Equity	7,798	619,296	0.092%
JNLDOFA U.S. Small Cap Fund	IDACORP, Inc.			Equity	8,040	828,844	0.130%
JNLDOFA U.S. Small Cap Fund	Republic Bancorp, Inc.			Equity	3,832	251,789	0.039%
JNLDOFA U.S. Small Cap Fund	BJ's Restaurants, Inc.			Equity	5,270	171,591	0.027%
JNLDOFA U.S. Small Cap Fund	Chemd Corporation			Equity	858	515,632	0.081%
JNLDOFA U.S. Small Cap Fund	Central Pacific Financial Corp.			Equity	6,597	194,677	0.030%
JNLDOFA U.S. Small Cap Fund	Innospec Inc.			Equity	4,125	466,496	0.073%
JNLDOFA U.S. Small Cap Fund	Haemonetics Corporation			Equity	8,067	648,425	0.101%
JNLDOFA U.S. Small Cap Fund	Winn-Dixie Financial Corporation			Equity	11,043	1,198,497	0.188%
JNLDOFA U.S. Small Cap Fund	First Commonwealth Financial Corporation			Equity	19,789	322,231	0.050%
JNLDOFA U.S. Small Cap Fund	Radian Group Inc.			Equity	24,280	842,273	0.132%
JNLDOFA U.S. Small Cap Fund	Helmerich & Payne, Inc.			Equity	17,193	523,011	0.082%
JNLDOFA U.S. Small Cap Fund	CTS Corporation			Equity	5,360	259,047	0.041%
JNLDOFA U.S. Small Cap Fund	Investors Title Company			Equity	485	111,453	0.017%
JNLDOFA U.S. Small Cap Fund	Frequency Electronics, Inc.			Equity	1,182	14,279	0.002%
JNLDOFA U.S. Small Cap Fund	Euronet Worldwide, Inc.			Equity	7,382	732,516	0.115%
JNLDOFA U.S. Small Cap Fund	Gulf Island Fabrication, Inc.			Equity	1,592	8,979	0.001%
JNLDOFA U.S. Small Cap Fund	Ennis, Inc.			Equity	5,448	132,495	0.021%
JNLDOFA U.S. Small Cap Fund	Great Southern Bancorp., Inc.			Equity	2,887	166,609	0.026%
JNLDOFA U.S. Small Cap Fund	Coca-Cola Consolidated, Inc.			Equity	904	1,190,026	0.186%
JNLDOFA U.S. Small Cap Fund	Greif, Inc.			Equity	4,474	282,757	0.044%
JNLDOFA U.S. Small Cap Fund	Orasure Technologies, Inc.			Equity	19,848	84,751	0.013%
JNLDOFA U.S. Small Cap Fund	Hancock Whitney Corporation			Equity	15,320	783,924	0.123%
JNLDOFA U.S. Small Cap Fund	Integra LifeSciences Holdings Corporation			Equity	12,728	231,268	0.036%
JNLDOFA U.S. Small Cap Fund	ESCO Technologies Inc.			Equity	4,207	542,619	0.085%
JNLDOFA U.S. Small Cap Fund	Ariston Resources Corporation			Equity	2,281	84,908	0.013%
JNLDOFA U.S. Small Cap Fund	First Bancorp.			Equity	32,869	695,837	0.109%
JNLDOFA U.S. Small Cap Fund	CSG Systems International, Inc.			Equity	5,172	251,618	0.039%
JNLDOFA U.S. Small Cap Fund	Powerserve Corporation			Equity	20,893	1,084,347	0.170%
JNLDOFA U.S. Small Cap Fund	Eastern Company The			Equity	1,238	40,173	0.006%
JNLDOFA U.S. Small Cap Fund	Kom Ferry			Equity	9,031	682,834	0.107%
JNLDOFA U.S. Small Cap Fund	Hallador Energy Company			Equity	7,845	73,978	0.012%
JNLDOFA U.S. Small Cap Fund	Dine Brands Global, Inc.			Equity	2,997	95,125	0.015%
JNLDOFA U.S. Small Cap Fund	Cap, Inc., The			Equity	13,964	1,396,735	0.219%
JNLDOFA U.S. Small Cap Fund	Greif, Inc.			Equity	2,743	193,766	0.030%
JNLDOFA U.S. Small Cap Fund	Cathay General Bancorp			Equity	13,289	570,763	0.089%
JNLDOFA U.S. Small Cap Fund	Jack in the Box Inc.			Equity	3,230	150,324	0.024%
JNLDOFA U.S. Small Cap Fund	Dairing Ingredients Inc.			Equity	16,984	628,153	0.098%
JNLDOFA U.S. Small Cap Fund	Topgolf Callaway Brands Corp.			Equity	29,471	323,592	0.051%
JNLDOFA U.S. Small Cap Fund	Glacier Bancorp, Inc.			Equity	19,713	900,884	0.141%
JNLDOFA U.S. Small Cap Fund	Cabot Corporation			Equity	9,794	1,094,675	0.171%
JNLDOFA U.S. Small Cap Fund	Comerica Incorporated			Equity	12,816	776,906	0.122%
JNLDOFA U.S. Small Cap Fund	Oxym Industries, Inc.			Equity	4,829	951,796	0.149%
JNLDOFA U.S. Small Cap Fund	Macy's, Inc.			Equity	46,854	743,278	0.116%
JNLDOFA U.S. Small Cap Fund	Henry Schein, Inc.			Equity	12,567	916,134	0.143%
JNLDOFA U.S. Small Cap Fund	The St. Joe Company			Equity	10,668	622,051	0.097%
JNLDOFA U.S. Small Cap Fund	Marine Products Corporation			Equity	5,573	54,070	0.008%
JNLDOFA U.S. Small Cap Fund	The Han Celestial Group, Inc.			Equity	17,051	147,150	0.023%
JNLDOFA U.S. Small Cap Fund	Hudson Technologies, Inc.			Equity	10,270	85,652	0.013%
JNLDOFA U.S. Small Cap Fund	TTM Technologies, Inc.			Equity	19,172	349,889	0.055%
JNLDOFA U.S. Small Cap Fund	Range Resources Corporation			Equity	27,164	855,146	0.131%
JNLDOFA U.S. Small Cap Fund	Otter Tail Corporation			Equity	6,484	506,789	0.079%
JNLDOFA U.S. Small Cap Fund	Intevac, Inc.			Equity	7,601	25,843	0.004%
JNLDOFA U.S. Small Cap Fund	Minerals Technologies Inc.			Equity	6,059	467,837	0.073%
JNLDOFA U.S. Small Cap Fund	Patrick Industries, Inc.			Equity	4,215	600,090	0.094%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Leggett & Platt, Incorporated			Equity	22,011	300,890	0.047%
JNLDOFA U.S. Small Cap Fund	Trex Company, Inc.			Equity	12,298	818,801	0.128%
JNLDOFA U.S. Small Cap Fund	Eagle Bancorp, Inc.			Equity	6,660	150,383	0.024%
JNLDOFA U.S. Small Cap Fund	Community Trust Bancorp, Inc.			Equity	4,235	212,301	0.033%
JNLDOFA U.S. Small Cap Fund	AutoNation, Inc.			Equity	6,562	1,174,073	0.184%
JNLDOFA U.S. Small Cap Fund	MAX Corporation			Equity	13,074	288,148	0.042%
JNLDOFA U.S. Small Cap Fund	Mesa Laboratories, Inc.			Equity	1,116	144,924	0.023%
JNLDOFA U.S. Small Cap Fund	Littlefuse, Inc.			Equity	3,585	950,921	0.149%
JNLDOFA U.S. Small Cap Fund	Myriad Genetics, Inc.			Equity	16,707	457,605	0.072%
JNLDOFA U.S. Small Cap Fund	Olin Corporation			Equity	18,310	878,514	0.137%
JNLDOFA U.S. Small Cap Fund	Kulicke and Soffa Industries, Inc.			Equity	9,395	924,107	0.069%
JNLDOFA U.S. Small Cap Fund	RLI Corp.			Equity	7,331	1,136,158	0.178%
JNLDOFA U.S. Small Cap Fund	Lakeland Financial Corporation			Equity	4,665	303,785	0.048%
JNLDOFA U.S. Small Cap Fund	Brinker Corporation			Equity	480	33,149	0.005%
JNLDOFA U.S. Small Cap Fund	Dorman Products, Inc.			Equity	5,548	677,580	0.068%
JNLDOFA U.S. Small Cap Fund	Lakeland Industries, Inc.			Equity	1,600	32,160	0.005%
JNLDOFA U.S. Small Cap Fund	Pluq Power Inc.			Equity	3,079	6,959	0.001%
JNLDOFA U.S. Small Cap Fund	WisdomTree, Inc.			Equity	35,119	350,839	0.055%
JNLDOFA U.S. Small Cap Fund	Brink's Company, The			Equity	7,125	823,935	0.129%
JNLDOFA U.S. Small Cap Fund	Richardson Electronics, Ltd.			Equity	3,868	47,731	0.007%
JNLDOFA U.S. Small Cap Fund	Southern First Bancshares, Inc.			Equity	2,151	73,306	0.011%
JNLDOFA U.S. Small Cap Fund	Lithia Motors, Inc.			Equity	2,666	846,828	0.133%
JNLDOFA U.S. Small Cap Fund	La-Z-Boy Incorporated			Equity	7,962	341,809	0.053%
JNLDOFA U.S. Small Cap Fund	Southside Bancshares, Inc.			Equity	5,707	190,785	0.030%
JNLDOFA U.S. Small Cap Fund	Rambus Inc.			Equity	17,731	748,603	0.117%
JNLDOFA U.S. Small Cap Fund	Matrx Service Company			Equity	6,281	72,420	0.011%
JNLDOFA U.S. Small Cap Fund	Penn Woods Bancorp, Inc.			Equity	1,672	39,769	0.006%
JNLDOFA U.S. Small Cap Fund	Powell Industries, Inc.			Equity	2,875	638,221	0.100%
JNLDOFA U.S. Small Cap Fund	Healthstream, Inc.			Equity	7,041	203,062	0.032%
JNLDOFA U.S. Small Cap Fund	LSB Industries, Inc.			Equity	17,982	144,574	0.023%
JNLDOFA U.S. Small Cap Fund	NBT Bancorp Inc.			Equity	8,191	382,288	0.057%
JNLDOFA U.S. Small Cap Fund	Natural Health Trends Corp.			Equity	900	5,285	0.001%
JNLDOFA U.S. Small Cap Fund	CBIZ, Inc.			Equity	8,610	579,367	0.091%
JNLDOFA U.S. Small Cap Fund	Marcus Corporation, The			Equity	6,203	93,479	0.015%
JNLDOFA U.S. Small Cap Fund	Royal Gold, Inc.			Equity	5,633	790,310	0.124%
JNLDOFA U.S. Small Cap Fund	KYH Industries, Inc.			Equity	4,594	4,000	0.001%
JNLDOFA U.S. Small Cap Fund	Silicon Laboratories Inc.			Equity	5,529	638,987	0.100%
JNLDOFA U.S. Small Cap Fund	TXNM Energy, Inc.			Equity	15,260	667,930	0.105%
JNLDOFA U.S. Small Cap Fund	Sunmatics, Inc.			Equity	2,519	136,487	0.021%
JNLDOFA U.S. Small Cap Fund	Kohli's Corporation			Equity	18,272	985,139	0.064%
JNLDOFA U.S. Small Cap Fund	Oxford Industries, Inc.			Equity	2,755	239,024	0.037%
JNLDOFA U.S. Small Cap Fund	Landstar System, Inc.			Equity	3,644	688,242	0.108%
JNLDOFA U.S. Small Cap Fund	Reading International, Inc.			Equity	2,457	4,005	0.001%
JNLDOFA U.S. Small Cap Fund	OGE Energy Corp.			Equity	30,402	1,347,000	0.019%
JNLDOFA U.S. Small Cap Fund	MGE Energy, Inc.			Equity	5,994	548,151	0.086%
JNLDOFA U.S. Small Cap Fund	NACCO Industries, Inc.			Equity	1,750	49,613	0.008%
JNLDOFA U.S. Small Cap Fund	Lancaster Colony Corporation			Equity	4,739	836,765	0.131%
JNLDOFA U.S. Small Cap Fund	Prosystems Inc.			Equity	5,866	438,746	0.067%
JNLDOFA U.S. Small Cap Fund	Sierra Bancorp			Equity	3,863	111,563	0.017%
JNLDOFA U.S. Small Cap Fund	National Bankshares, Inc.			Equity	959	28,674	0.004%
JNLDOFA U.S. Small Cap Fund	Agilysys, Inc.			Equity	5,041	549,318	0.086%
JNLDOFA U.S. Small Cap Fund	Plexus Corp.			Equity	4,961	478,218	0.104%
JNLDOFA U.S. Small Cap Fund	ManpowerGroup Inc.			Equity	7,636	561,399	0.088%
JNLDOFA U.S. Small Cap Fund	Oshkosh Corporation			Equity	10,524	1,054,610	0.165%
JNLDOFA U.S. Small Cap Fund	Owens & Minor, Inc.			Equity	15,005	235,428	0.037%
JNLDOFA U.S. Small Cap Fund	Oil-Dri Corporation of America			Equity	1,344	62,723	0.010%
JNLDOFA U.S. Small Cap Fund	LSI Industries Inc.			Equity	1,903	127,633	0.020%
JNLDOFA U.S. Small Cap Fund	Upbound Group, Inc.			Equity	9,279	296,835	0.046%
JNLDOFA U.S. Small Cap Fund	Magnolia Oil & Gas Corporation			Equity	29,384	717,557	0.112%
JNLDOFA U.S. Small Cap Fund	IBT Corporation			Equity	5,814	222,211	0.035%
JNLDOFA U.S. Small Cap Fund	Evelis, Inc.			Equity	39,179	1,016,695	0.159%
JNLDOFA U.S. Small Cap Fund	ATI Inc.			Equity	22,311	1,492,829	0.234%
JNLDOFA U.S. Small Cap Fund	Univest Financial Corporation			Equity	7,304	205,535	0.032%
JNLDOFA U.S. Small Cap Fund	Pinnacle Financial Partners, Inc.			Equity	12,414	1,216,200	0.190%
JNLDOFA U.S. Small Cap Fund	Innovative Solutions and Support, Inc.			Equity	1,991	3,021	0.001%
JNLDOFA U.S. Small Cap Fund	Harvard Bioscience, Inc.			Equity	9,066	24,388	0.004%
JNLDOFA U.S. Small Cap Fund	Merit Medical Systems, Inc.			Equity	10,265	1,014,490	0.159%
JNLDOFA U.S. Small Cap Fund	Moline Manufacturing Company			Equity	11,660	1,548,331	0.242%
JNLDOFA U.S. Small Cap Fund	SM Energy Company			Equity	19,841	753,079	0.118%
JNLDOFA U.S. Small Cap Fund	OCR Holdings, Inc.			Equity	3,819	282,950	0.044%
JNLDOFA U.S. Small Cap Fund	NETGEAR, Inc.			Equity	7,447	149,387	0.023%
JNLDOFA U.S. Small Cap Fund	NN, Inc.			Equity	11,182	43,610	0.007%
JNLDOFA U.S. Small Cap Fund	ProFusion Corporation			Equity	12,653	190,785	0.030%
JNLDOFA U.S. Small Cap Fund	Monarch Casino & Resort, Inc.			Equity	2,070	164,089	0.026%
JNLDOFA U.S. Small Cap Fund	Core Molding Technologies, Inc.			Equity	200	3,442	0.001%
JNLDOFA U.S. Small Cap Fund	Peoples Bancorp Inc.			Equity	7,146	215,023	0.034%
JNLDOFA U.S. Small Cap Fund	Community Health Systems, Inc.			Equity	29,750	1,801,563	0.281%
JNLDOFA U.S. Small Cap Fund	Bar Harbor Bankshares			Equity	3,839	118,395	0.019%
JNLDOFA U.S. Small Cap Fund	Movado Group, Inc.			Equity	3,798	70,643	0.011%
JNLDOFA U.S. Small Cap Fund	Berkshire Hills Bancorp, Inc.			Equity	8,397	227,643	0.036%
JNLDOFA U.S. Small Cap Fund	Olympic Steel, Inc.			Equity	2,753	107,367	0.017%
JNLDOFA U.S. Small Cap Fund	PDL BioPharma, Inc.			Equity	14,333	17,020	0.003%
JNLDOFA U.S. Small Cap Fund	Heritage Commerce Corp			Equity	14,798	146,204	0.023%
JNLDOFA U.S. Small Cap Fund	Bread Financial Payments, Inc.			Equity	8,825	419,894	0.066%
JNLDOFA U.S. Small Cap Fund	New Jersey Resources Corporation			Equity	17,408	829,491	0.130%
JNLDOFA U.S. Small Cap Fund	Mercury General Corporation			Equity	10,116	1,637,100	0.254%
JNLDOFA U.S. Small Cap Fund	MGIC Investment Corporation			Equity	42,853	1,097,037	0.172%
JNLDOFA U.S. Small Cap Fund	The New York Times Company			Equity	16,403	913,155	0.143%
JNLDOFA U.S. Small Cap Fund	Immersion Corporation			Equity	8,273	73,795	0.012%
JNLDOFA U.S. Small Cap Fund	Flowers Foods, Inc.			Equity	33,744	83,474	0.013%
JNLDOFA U.S. Small Cap Fund	Mohawk Industries, Inc.			Equity	5,172	831,037	0.130%
JNLDOFA U.S. Small Cap Fund	Quaker Chemical Corporation			Equity	2,759	464,864	0.073%
JNLDOFA U.S. Small Cap Fund	CNO Financial Group, Inc.			Equity	15,760	553,176	0.087%
JNLDOFA U.S. Small Cap Fund	Fluor Corporation			Equity	29,952	1,738,170	0.184%
JNLDOFA U.S. Small Cap Fund	Gencor Industries, Inc.			Equity	605	12,620	0.002%
JNLDOFA U.S. Small Cap Fund	McGrath RentCorp			Equity	3,518	370,375	0.058%
JNLDOFA U.S. Small Cap Fund	Hooker Furnishings Corporation			Equity	3,029	54,764	0.009%
JNLDOFA U.S. Small Cap Fund	Murphy Oil Corporation			Equity	22,888	772,488	0.119%
JNLDOFA U.S. Small Cap Fund	Nathan's Famous, Inc.			Equity	870	70,383	0.011%
JNLDOFA U.S. Small Cap Fund	Oil States International, Inc.			Equity	15,518	71,383	0.011%
JNLDOFA U.S. Small Cap Fund	Newpark Resources, Inc.			Equity	19,937	138,163	0.022%
JNLDOFA U.S. Small Cap Fund	Lattice Semiconductor Corporation			Equity	11,323	690,193	0.094%
JNLDOFA U.S. Small Cap Fund	National Fuel Gas Company			Equity	14,543	888,941	0.139%
JNLDOFA U.S. Small Cap Fund	Sangamo Therapeutics, Inc.			Equity	31,987	27,704	0.004%
JNLDOFA U.S. Small Cap Fund	ACADIA Pharmaceuticals Inc.			Equity	10,232	157,368	0.025%
JNLDOFA U.S. Small Cap Fund	Monro, Inc.			Equity	6,458	186,378	0.029%
JNLDOFA U.S. Small Cap Fund	Pyder System, Inc.			Equity	5,994	1,019,125	0.160%
JNLDOFA U.S. Small Cap Fund	Method Electronics, Inc.			Equity	6,250	74,750	0.012%
JNLDOFA U.S. Small Cap Fund	PENN Entertainment, Inc.			Equity	24,077	454,092	0.071%
JNLDOFA U.S. Small Cap Fund	Inter Parfums, Inc.			Equity	5,419	701,652	0.110%
JNLDOFA U.S. Small Cap Fund	Pediatric Medical Group, Inc.			Equity	16,570	192,046	0.030%
JNLDOFA U.S. Small Cap Fund	MOOG Inc.			Equity	4,856	981,009	0.154%
JNLDOFA U.S. Small Cap Fund	S & T Bancorp, Inc.			Equity	7,084	297,315	0.047%
JNLDOFA U.S. Small Cap Fund	Bank of Miami Bancorp			Equity	4,201	84,398	0.013%
JNLDOFA U.S. Small Cap Fund	TrueBlue, Inc.			Equity	8,714	68,753	0.011%
JNLDOFA U.S. Small Cap Fund	First Community Bancshares, Inc.			Equity	4,332	186,926	0.029%
JNLDOFA U.S. Small Cap Fund	National Presto Industries, Inc.			Equity	1,571	118,045	0.018%
JNLDOFA U.S. Small Cap Fund	Nordstrom, Inc.			Equity	26,761	601,855	0.094%
JNLDOFA U.S. Small Cap Fund	Stratus Properties Inc.			Equity	1,985	51,500	0.008%
JNLDOFA U.S. Small Cap Fund	Distribution Solutions Group, Inc.			Equity	6,161	237,260	0.037%
JNLDOFA U.S. Small Cap Fund	Entravision Communications Corporation			Equity	19,147	39,634	0.006%
JNLDOFA U.S. Small Cap Fund	Patterson Companies, Inc.			Equity	16,755	365,929	0.057%
JNLDOFA U.S. Small Cap Fund	Seaboard Corporation			Equity	144	451,728	0.121%
JNLDOFA U.S. Small Cap Fund	Neogen Corporation			Equity	4,494	75,544	0.012%
JNLDOFA U.S. Small Cap Fund	Polaris Inc.			Equity	6,645	553,130	0.087%
JNLDOFA U.S. Small Cap Fund	Oceanenergy International, Inc.			Equity	18,348	456,315	0.071%
JNLDOFA U.S. Small Cap Fund	Southern Missouri Bancorp, Inc.			Equity	2,853	161,166	0.025%
JNLDOFA U.S. Small Cap Fund	Steven Madden, Ltd.			Equity	13,419	657,397	0.103%
JNLDOFA U.S. Small Cap Fund	Reasent Corporation			Equity	10,864	353,080	0.055%
JNLDOFA U.S. Small Cap Fund	Mau Land & Pineapple Company, Inc.			Equity	4,993	112,093	0.018%
JNLDOFA U.S. Small Cap Fund	Shenandoah Telecommunications Company			Equity	9,743	137,474	0.022%
JNLDOFA U.S. Small Cap Fund	P.A.M. Transportation Services, Inc.			Equity	4,340	80,230	0.013%
JNLDOFA U.S. Small Cap Fund	Preferred Bank			Equity	2,982	239,306	0.037%
JNLDOFA U.S. Small Cap Fund	Harmonic, Inc.			Equity	19,950	290,672	0.045%
JNLDOFA U.S. Small Cap Fund	Kratco Defense & Security Solutions, Inc.			Equity	22,214	517,586	0.081%
JNLDOFA U.S. Small Cap Fund	Neogenics, Inc.			Equity	23,109	340,858	0.053%
JNLDOFA U.S. Small Cap Fund	National Beverage Corp.			Equity	10,701	502,305	0.079%
JNLDOFA U.S. Small Cap Fund	Astronics Corporation			Equity	141	2,771	0.000%
JNLDOFA U.S. Small Cap Fund	Heritage Financial Corporation			Equity	8,426	183,434	0.029%
JNLDOFA U.S. Small Cap Fund	German American Bancorp, Inc.			Equity	6,624	256,624	0.040%
JNLDOFA U.S. Small Cap Fund	Johnson Outdoors Inc.			Equity	2,183	79,025	0.012%
JNLDOFA U.S. Small Cap Fund	Photronics, Inc.			Equity	11,638	288,157	0.045%
JNLDOFA U.S. Small Cap Fund	United States Lime & Minerals, Inc.			Equity	5,155	503,437	0.079%
JNLDOFA U.S. Small Cap Fund	Mattel, Inc.			Equity	46,224	880,567	0.138%
JNLDOFA U.S. Small Cap Fund	Kadant Inc.			Equity	2,008	678,704	0.106%
JNLDOFA U.S. Small Cap Fund	Climb Global Solutions, Inc.			Equity	1,170	116,462	0.018%
JNLDOFA U.S. Small Cap Fund	Natural Alternatives International, Inc.			Equity	862	4,939	0.001%
JNLDOFA U.S. Small Cap Fund	Rocky Brands, Inc.			Equity	1,969	62,752	0.010%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Resources Connection, Inc.			Equity	9,201	89,250	0.014%
JNLDOFA U.S. Small Cap Fund	Dowseal Group Inc.			Equity	6,911	3,088	0.016%
JNLDOFA U.S. Small Cap Fund	Northrim Bancorp, Inc.			Equity	1,355	96,503	0.015%
JNLDOFA U.S. Small Cap Fund	Nu Skin Enterprises, Inc.			Equity	9,073	66,868	0.010%
JNLDOFA U.S. Small Cap Fund	Schloastic Corporation			Equity	6,084	194,749	0.030%
JNLDOFA U.S. Small Cap Fund	Independent Bank Corporation			Equity	5,507	183,658	0.030%
JNLDOFA U.S. Small Cap Fund	MDU Resources Group, Inc.			Equity	32,234	887,124	0.139%
JNLDOFA U.S. Small Cap Fund	Park National Corporation			Equity	3,057	513,515	0.080%
JNLDOFA U.S. Small Cap Fund	Lifetime Brands, Inc.			Equity	5,223	34,158	0.005%
JNLDOFA U.S. Small Cap Fund	NCR Voyix Corporation			Equity	24,674	334,826	0.052%
JNLDOFA U.S. Small Cap Fund	Progress Software Corporation			Equity	7,230	487,085	0.076%
JNLDOFA U.S. Small Cap Fund	MSC Industrial Direct Co., Inc.			Equity	7,704	663,006	0.104%
JNLDOFA U.S. Small Cap Fund	Pacific Premier Bancorp, Inc.			Equity	17,359	436,752	0.068%
JNLDOFA U.S. Small Cap Fund	ePlus Inc.			Equity	4,895	461,374	0.075%
JNLDOFA U.S. Small Cap Fund	Kforce Inc.			Equity	3,316	203,788	0.032%
JNLDOFA U.S. Small Cap Fund	MATV Holdings, Inc.			Equity	11,996	203,812	0.032%
JNLDOFA U.S. Small Cap Fund	Old National Bancorp			Equity	48,894	912,362	0.143%
JNLDOFA U.S. Small Cap Fund	Ligand Pharmaceuticals Incorporated			Equity	3,233	323,591	0.051%
JNLDOFA U.S. Small Cap Fund	Louisiana-Pacific Corporation (W VA)			Equity	11,733	1,260,828	0.197%
JNLDOFA U.S. Small Cap Fund	Nature's Sunshine Products, Inc.			Equity	4,756	64,777	0.010%
JNLDOFA U.S. Small Cap Fund	IPG Photonics Corporation			Equity	7,122	529,307	0.083%
JNLDOFA U.S. Small Cap Fund	Newell Brands Inc.			Equity	57,151	438,920	0.069%
JNLDOFA U.S. Small Cap Fund	Old Second Bancorp, Inc.			Equity	10,741	167,452	0.026%
JNLDOFA U.S. Small Cap Fund	RPC, Inc.			Equity	34,226	217,677	0.034%
JNLDOFA U.S. Small Cap Fund	KB Home			Equity	13,090	1,121,682	0.176%
JNLDOFA U.S. Small Cap Fund	Seneca Foods Corporation			Equity	1,336	83,273	0.013%
JNLDOFA U.S. Small Cap Fund	Papa John's International, Inc.			Equity	6,264	337,443	0.053%
JNLDOFA U.S. Small Cap Fund	Financial Institutions, Inc.			Equity	3,861	99,498	0.016%
JNLDOFA U.S. Small Cap Fund	ScanSource, Inc.			Equity	5,957	286,115	0.045%
JNLDOFA U.S. Small Cap Fund	PDF Solutions, Inc.			Equity	8,440	267,379	0.042%
JNLDOFA U.S. Small Cap Fund	Shore Bancshares, Inc.			Equity	6,529	91,341	0.014%
JNLDOFA U.S. Small Cap Fund	Myers Industries, Inc.			Equity	6,545	91,545	0.014%
JNLDOFA U.S. Small Cap Fund	Lincoln National Corporation			Equity	13,949	439,533	0.069%
JNLDOFA U.S. Small Cap Fund	Repligen Corporation			Equity	3,737	556,140	0.087%
JNLDOFA U.S. Small Cap Fund	Meniscus Homes Corporation			Equity	2,340	479,864	0.075%
JNLDOFA U.S. Small Cap Fund	Matthews International Corporation			Equity	6,576	393,886	0.064%
JNLDOFA U.S. Small Cap Fund	AXIS Capital Holdings Limited			Equity	13,594	1,088,200	0.170%
JNLDOFA U.S. Small Cap Fund	Vector Group Ltd.			Equity	27,063	403,780	0.063%
JNLDOFA U.S. Small Cap Fund	Tinnet Group, Inc.			Equity	8,009	776,633	0.122%
JNLDOFA U.S. Small Cap Fund	Middlesex Water Company			Equity	9,949	192,397	0.030%
JNLDOFA U.S. Small Cap Fund	Newmark Group, Inc.			Equity	25,561	396,962	0.062%
JNLDOFA U.S. Small Cap Fund	Night, Inc.			Equity	10,772	115,153	0.018%
JNLDOFA U.S. Small Cap Fund	Origin Bancorp, Inc.			Equity	4,841	155,887	0.024%
JNLDOFA U.S. Small Cap Fund	Inspire Medical Systems, Inc.			Equity	2,139	451,439	0.073%
JNLDOFA U.S. Small Cap Fund	exp World Holdings, Inc.			Equity	15,796	222,566	0.035%
JNLDOFA U.S. Small Cap Fund	Columbia Financial, Inc.			Equity	16,143	255,841	0.043%
JNLDOFA U.S. Small Cap Fund	BrightView Holdings, Inc.			Equity	16,445	258,844	0.041%
JNLDOFA U.S. Small Cap Fund	Cushman & Wakefield PLC			Equity	36,992	504,201	0.079%
JNLDOFA U.S. Small Cap Fund	Acus Biosciences, Inc.			Equity	15,331	234,411	0.037%
JNLDOFA U.S. Small Cap Fund	Astrana Health, Inc.			Equity	9,187	532,295	0.083%
JNLDOFA U.S. Small Cap Fund	Viking Therapeutics, Inc.			Equity	1,934	122,442	0.019%
JNLDOFA U.S. Small Cap Fund	Sonor, Inc.			Equity	21,323	162,060	0.041%
JNLDOFA U.S. Small Cap Fund	Sterling Infrastructure, Inc.			Equity	7,140	1,035,443	0.162%
JNLDOFA U.S. Small Cap Fund	Lindsay Corporation			Equity	1,868	232,828	0.036%
JNLDOFA U.S. Small Cap Fund	Selective Insurance Group, Inc.			Equity	10,169	948,768	0.148%
JNLDOFA U.S. Small Cap Fund	Middleby Corporation, The			Equity	5,261	731,963	0.115%
JNLDOFA U.S. Small Cap Fund	Old Republic International Corporation			Equity	21,191	191,585	0.117%
JNLDOFA U.S. Small Cap Fund	Kelly Services, Inc.			Equity	6,816	145,931	0.023%
JNLDOFA U.S. Small Cap Fund	Marten Transport, Ltd.			Equity	14,513	256,880	0.040%
JNLDOFA U.S. Small Cap Fund	Insight Enterprises, Inc.			Equity	6,176	1,330,249	0.208%
JNLDOFA U.S. Small Cap Fund	PAR Technology Corporation			Equity	6,027	313,637	0.048%
JNLDOFA U.S. Small Cap Fund	C&F Financial Corporation			Equity	705	41,447	0.006%
JNLDOFA U.S. Small Cap Fund	MillerKnoll, Inc.			Equity	11,717	292,310	0.046%
JNLDOFA U.S. Small Cap Fund	Tutor Perini Corporation			Equity	14,078	382,358	0.060%
JNLDOFA U.S. Small Cap Fund	Tredgar Corporation			Equity	9,219	59,917	0.009%
JNLDOFA U.S. Small Cap Fund	Miller Industries, Inc.			Equity	3,044	185,684	0.029%
JNLDOFA U.S. Small Cap Fund	Mueller Industries, Inc.			Equity	19,600	1,452,360	0.227%
JNLDOFA U.S. Small Cap Fund	MH Homes, Inc.			Equity	2,075	355,572	0.056%
JNLDOFA U.S. Small Cap Fund	Rogers Corporation			Equity	3,022	341,516	0.053%
JNLDOFA U.S. Small Cap Fund	CNB Financial Corporation			Equity	5,293	127,350	0.020%
JNLDOFA U.S. Small Cap Fund	Enterprise Financial Services Corp.			Equity	6,911	354,258	0.055%
JNLDOFA U.S. Small Cap Fund	Kennametal Inc.			Equity	13,919	360,920	0.056%
JNLDOFA U.S. Small Cap Fund	John B. Sanfilippo & Son, Inc.			Equity	1,926	181,441	0.028%
JNLDOFA U.S. Small Cap Fund	Kirby Corporation			Equity	9,287	1,137,007	0.178%
JNLDOFA U.S. Small Cap Fund	Saga Communications, Inc.			Equity	892	13,032	0.002%
JNLDOFA U.S. Small Cap Fund	Park-Ohio Holdings Corp.			Equity	3,177	97,534	0.015%
JNLDOFA U.S. Small Cap Fund	Mercantile Bank Corporation			Equity	4,110	179,689	0.028%
JNLDOFA U.S. Small Cap Fund	Standard Motor Products, Inc.			Equity	5,195	172,474	0.027%
JNLDOFA U.S. Small Cap Fund	Weyco Group, Inc.			Equity	2,545	86,632	0.014%
JNLDOFA U.S. Small Cap Fund	Silber Financial Corp.			Equity	14,133	1,327,089	0.208%
JNLDOFA U.S. Small Cap Fund	Winnebago Industries, Inc.			Equity	5,514	320,419	0.050%
JNLDOFA U.S. Small Cap Fund	Advance Auto Parts, Inc.			Equity	4,950	193,001	0.030%
JNLDOFA U.S. Small Cap Fund	ACI Worldwide, Inc.			Equity	19,377	986,289	0.154%
JNLDOFA U.S. Small Cap Fund	Wabash National Corporation			Equity	8,680	166,569	0.026%
JNLDOFA U.S. Small Cap Fund	Calavo Growers, Inc.			Equity	4,566	130,288	0.020%
JNLDOFA U.S. Small Cap Fund	Cross Country Healthcare, Inc.			Equity	7,855	105,571	0.017%
JNLDOFA U.S. Small Cap Fund	Titan International, Inc.			Equity	14,464	117,592	0.018%
JNLDOFA U.S. Small Cap Fund	Motorcar Parts of America, Inc.			Equity	6,071	44,865	0.007%
JNLDOFA U.S. Small Cap Fund	PrefORMed Line Products Company			Equity	1,299	166,376	0.026%
JNLDOFA U.S. Small Cap Fund	Transcat Technologies Incorporated			Equity	211	1,140	0.000%
JNLDOFA U.S. Small Cap Fund	Stapan Company			Equity	4,156	321,051	0.050%
JNLDOFA U.S. Small Cap Fund	Horizon Bancorp, Inc.			Equity	10,169	158,128	0.025%
JNLDOFA U.S. Small Cap Fund	Westlamerica Bancorporation			Equity	4,526	223,675	0.035%
JNLDOFA U.S. Small Cap Fund	Vail Resorts, Inc.			Equity	3,662	638,260	0.103%
JNLDOFA U.S. Small Cap Fund	U. S. Physical Therapy, Inc.			Equity	2,548	215,637	0.034%
JNLDOFA U.S. Small Cap Fund	UFP Technologies, Inc.			Equity	1,689	534,906	0.084%
JNLDOFA U.S. Small Cap Fund	Natural Gas Services Group, Inc.			Equity	2,667	56,699	0.009%
JNLDOFA U.S. Small Cap Fund	Cavco Industries, Inc.			Equity	1,536	657,777	0.102%
JNLDOFA U.S. Small Cap Fund	WD-40 Company			Equity	2,240	577,651	0.090%
JNLDOFA U.S. Small Cap Fund	Big 5 Sporting Goods Corporation			Equity	2,721	5,687	0.000%
JNLDOFA U.S. Small Cap Fund	Timothy Industries, Inc.			Equity	14,130	492,289	0.077%
JNLDOFA U.S. Small Cap Fund	Omnirex, Inc.			Equity	7,443	324,515	0.051%
JNLDOFA U.S. Small Cap Fund	Omni, Inc.			Equity	4,429	32,509	0.005%
JNLDOFA U.S. Small Cap Fund	America's Car Mart, Inc.			Equity	1,686	70,677	0.011%
JNLDOFA U.S. Small Cap Fund	MidWestOne Financial Group, Inc.			Equity	4,259	121,509	0.019%
JNLDOFA U.S. Small Cap Fund	Avista Corporation			Equity	12,945	540,619	0.079%
JNLDOFA U.S. Small Cap Fund	Engro Inc.			Equity	3,810	617,906	0.097%
JNLDOFA U.S. Small Cap Fund	Urban Outfitters, Inc.			Equity	17,090	654,718	0.102%
JNLDOFA U.S. Small Cap Fund	Valley National Bancorp			Equity	84,087	771,078	0.121%
JNLDOFA U.S. Small Cap Fund	United Bankshares, Inc.			Equity	24,615	922,324	0.144%
JNLDOFA U.S. Small Cap Fund	Westbaco, Inc.			Equity	10,815	325,984	0.051%
JNLDOFA U.S. Small Cap Fund	Tompkins Financial Corporation			Equity	3,172	183,310	0.029%
JNLDOFA U.S. Small Cap Fund	Tootsie Roll Industries, Inc.			Equity	7,393	228,953	0.036%
JNLDOFA U.S. Small Cap Fund	Sturm, Ruger & Company, Inc.			Equity	1,084	45,181	0.007%
JNLDOFA U.S. Small Cap Fund	Sonoco Products Company			Equity	15,579	851,081	0.133%
JNLDOFA U.S. Small Cap Fund	STAAR Surgical Company			Equity	8,265	307,045	0.048%
JNLDOFA U.S. Small Cap Fund	Brookline Bancorp, Inc.			Equity	20,636	208,217	0.033%
JNLDOFA U.S. Small Cap Fund	Valmont Industries, Inc.			Equity	3,312	962,302	0.151%
JNLDOFA U.S. Small Cap Fund	Universal Insurance Holdings, Inc.			Equity	8,372	185,524	0.029%
JNLDOFA U.S. Small Cap Fund	Synaptics Incorporated			Equity	6,630	514,355	0.080%
JNLDOFA U.S. Small Cap Fund	Toro Company, The			Equity	4,104	357,417	0.056%
JNLDOFA U.S. Small Cap Fund	Beyond, Inc.			Equity	5,463	55,067	0.009%
JNLDOFA U.S. Small Cap Fund	Trekay Shipping (Canada) Ltd.			Equity	19,829	182,427	0.029%
JNLDOFA U.S. Small Cap Fund	VSE Corporation			Equity	3,468	286,908	0.045%
JNLDOFA U.S. Small Cap Fund	Southwest Gas Holdings, Inc.			Equity	11,243	829,284	0.130%
JNLDOFA U.S. Small Cap Fund	Wolverine World Wide, Inc.			Equity	14,929	260,063	0.041%
JNLDOFA U.S. Small Cap Fund	Stanley International Corporation			Equity	1,347	355,473	0.056%
JNLDOFA U.S. Small Cap Fund	UMB Financial Corporation			Equity	8,828	931,354	0.146%
JNLDOFA U.S. Small Cap Fund	Trico Bancshares			Equity	6,090	259,739	0.041%
JNLDOFA U.S. Small Cap Fund	AMN Healthcare Services, Inc.			Equity	7,205	305,420	0.048%
JNLDOFA U.S. Small Cap Fund	Pepco Financial Services Corp.			Equity	2,551	72,711	0.011%
JNLDOFA U.S. Small Cap Fund	Unisys Corporation			Equity	14,597	82,911	0.013%
JNLDOFA U.S. Small Cap Fund	Westwood Holdings Group, Inc.			Equity	2,057	29,518	0.005%
JNLDOFA U.S. Small Cap Fund	Simmons First National Corporation			Equity	23,209	504,804	0.079%
JNLDOFA U.S. Small Cap Fund	Nexstar Media Group, Inc.			Equity	5,298	876,024	0.137%
JNLDOFA U.S. Small Cap Fund	Asbury Automotive Group, Inc.			Equity	3,607	860,594	0.135%
JNLDOFA U.S. Small Cap Fund	Diamond Hill Investment Group, Inc.			Equity	654	105,693	0.017%
JNLDOFA U.S. Small Cap Fund	Superior Group of Companies, Inc.			Equity	3,449	53,425	0.008%
JNLDOFA U.S. Small Cap Fund	Light & Wonder, Inc.			Equity	7,329	664,960	0.104%
JNLDOFA U.S. Small Cap Fund	Strattec Security Corporation			Equity	849	36,218	0.006%
JNLDOFA U.S. Small Cap Fund	Skyline Champion Corporation			Equity	9,794	928,961	0.145%
JNLDOFA U.S. Small Cap Fund	United-Guardian, Inc.			Equity	143	2,271	0.000%
JNLDOFA U.S. Small Cap Fund	3D Systems Corporation			Equity	16,405	46,590	0.007%
JNLDOFA U.S. Small Cap Fund	JetBlue Airways Corporation			Equity	65,438	429,338	0.067%
JNLDOFA U.S. Small Cap Fund	Watts Water Technologies, Inc.			Equity	4,645	962,398	0.151%
JNLDOFA U.S. Small Cap Fund	Zions Bancorporation, National Association			Equity	23,370	1,103,531	0.173%
JNLDOFA U.S. Small Cap Fund	Silgan Holdings Inc.			Equity	18,621	972,353	0.152%
JNLDOFA U.S. Small Cap Fund	WSFS Financial Corporation			Equity	11,170	569,558	0.089%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Simpson Manufacturing Co., Inc.			Equity	6,682	1,278,066	0.200%
JNLDOFA U.S. Small Cap Fund	Southwestern Energy Company			Equity	135,902	266,902	0.151%
JNLDOFA U.S. Small Cap Fund	WAFD, Inc.			Equity	14,753	514,142	0.080%
JNLDOFA U.S. Small Cap Fund	TETRA Technologies, Inc.			Equity	32,216	99,870	0.016%
JNLDOFA U.S. Small Cap Fund	Stewart Information Services Corporation			Equity	5,072	379,081	0.059%
JNLDOFA U.S. Small Cap Fund	Acuity Brands, Inc.			Equity	9,153	1,419,085	0.222%
JNLDOFA U.S. Small Cap Fund	Accent Industries Co.			Equity	1,787	17,334	0.003%
JNLDOFA U.S. Small Cap Fund	Washington Trust Bancorp, Inc.			Equity	4,273	137,633	0.022%
JNLDOFA U.S. Small Cap Fund	Wynn Resorts, Limited			Equity	6,904	661,956	0.104%
JNLDOFA U.S. Small Cap Fund	United Natural Foods, Inc.			Equity	12,705	213,698	0.033%
JNLDOFA U.S. Small Cap Fund	United Community Banks, Inc.			Equity	19,813	590,917	0.091%
JNLDOFA U.S. Small Cap Fund	Stericycle, Inc.			Equity	10,583	645,563	0.101%
JNLDOFA U.S. Small Cap Fund	Universal Electronics Inc.			Equity	3,389	31,280	0.005%
JNLDOFA U.S. Small Cap Fund	Woodward, Inc.			Equity	1,064	285,393	0.045%
JNLDOFA U.S. Small Cap Fund	Hennessy Advisors, Inc.			Equity	750	7,463	0.001%
JNLDOFA U.S. Small Cap Fund	CEVA Inc.			Equity	6,359	153,570	0.024%
JNLDOFA U.S. Small Cap Fund	Heartland Financial USA, Inc.			Equity	7,814	443,054	0.069%
JNLDOFA U.S. Small Cap Fund	Foot Locker, Inc.			Equity	15,632	403,931	0.063%
JNLDOFA U.S. Small Cap Fund	Vicor Corporation			Equity	4,983	209,784	0.033%
JNLDOFA U.S. Small Cap Fund	World Acceptance Corporation			Equity	1,415	166,942	0.026%
JNLDOFA U.S. Small Cap Fund	Medifast, Inc.			Equity	2,181	41,744	0.007%
JNLDOFA U.S. Small Cap Fund	V.F. Corporation			Equity	33,823	674,769	0.106%
JNLDOFA U.S. Small Cap Fund	Verint Systems Inc.			Equity	11,001	278,555	0.044%
JNLDOFA U.S. Small Cap Fund	Universal Corporation			Equity	4,349	230,975	0.036%
JNLDOFA U.S. Small Cap Fund	Tejon Ranch Co.			Equity	7,284	127,834	0.020%
JNLDOFA U.S. Small Cap Fund	Shoe Carnival, Inc.			Equity	6,166	270,379	0.042%
JNLDOFA U.S. Small Cap Fund	TruBridge, Inc.			Equity	3,560	42,578	0.007%
JNLDOFA U.S. Small Cap Fund	TSJ Group			Equity	5,394	313,445	0.049%
JNLDOFA U.S. Small Cap Fund	Unitil Corporation			Equity	3,771	228,447	0.036%
JNLDOFA U.S. Small Cap Fund	Universal Stainless & Alloy Products, Inc.			Equity	1,856	71,697	0.011%
JNLDOFA U.S. Small Cap Fund	Rush Enterprises, Inc.			Equity	3,400	163,030	0.026%
JNLDOFA U.S. Small Cap Fund	The Timken Company			Equity	11,846	986,493	0.156%
JNLDOFA U.S. Small Cap Fund	UltraLife Corporation			Equity	2,646	23,920	0.004%
JNLDOFA U.S. Small Cap Fund	Utah Medical Products, Inc.			Equity	960	64,522	0.010%
JNLDOFA U.S. Small Cap Fund	Veeco Instruments Inc.			Equity	8,879	327,291	0.051%
JNLDOFA U.S. Small Cap Fund	The E.W. Scripps Company			Equity	19,545	431,873	0.070%
JNLDOFA U.S. Small Cap Fund	John Wiley & Sons, Inc.			Equity	8,162	393,817	0.062%
JNLDOFA U.S. Small Cap Fund	Safety Insurance Group, Inc.			Equity	2,516	205,758	0.032%
JNLDOFA U.S. Small Cap Fund	Argon, Inc.			Equity	3,365	341,312	0.053%
JNLDOFA U.S. Small Cap Fund	Webster Financial Corporation			Equity	9,844	463,493	0.073%
JNLDOFA U.S. Small Cap Fund	UGI Corporation			Equity	31,878	809,542	0.127%
JNLDOFA U.S. Small Cap Fund	Red Robin Gourmet Burgers, Inc.			Equity	3,314	14,615	0.002%
JNLDOFA U.S. Small Cap Fund	United States Cellular Corporation			Equity	9,448	516,333	0.081%
JNLDOFA U.S. Small Cap Fund	Texas Capital Bancshares, Inc.			Equity	8,309	693,761	0.092%
JNLDOFA U.S. Small Cap Fund	Radius Recycling, Inc.			Equity	6,721	124,607	0.020%
JNLDOFA U.S. Small Cap Fund	Halozyme Therapeutics, Inc.			Equity	17,047	975,770	0.153%
JNLDOFA U.S. Small Cap Fund	Thor Industries, Inc.			Equity	8,496	933,625	0.146%
JNLDOFA U.S. Small Cap Fund	Formfactor, Inc.			Equity	12,681	583,328	0.091%
JNLDOFA U.S. Small Cap Fund	Whirlpool Corporation			Equity	6,633	709,731	0.111%
JNLDOFA U.S. Small Cap Fund	United States Steel Corporation			Equity	25,655	906,391	0.142%
JNLDOFA U.S. Small Cap Fund	Weiss Markets, Inc.			Equity	4,835	333,277	0.052%
JNLDOFA U.S. Small Cap Fund	Rush Enterprises, Inc.			Equity	11,091	546,938	0.082%
JNLDOFA U.S. Small Cap Fund	Air Transport Services Group, Inc.			Equity	12,680	205,289	0.032%
JNLDOFA U.S. Small Cap Fund	Carter's, Inc.			Equity	6,454	419,381	0.066%
JNLDOFA U.S. Small Cap Fund	Village Super Market, Inc.			Equity	2,681	85,229	0.013%
JNLDOFA U.S. Small Cap Fund	SkyWest, Inc.			Equity	9,231	784,820	0.123%
JNLDOFA U.S. Small Cap Fund	Werner Enterprises, Inc.			Equity	11,439	441,431	0.069%
JNLDOFA U.S. Small Cap Fund	Vishay Intertechnology, Inc.			Equity	22,834	431,791	0.068%
JNLDOFA U.S. Small Cap Fund	SEI Investments Company			Equity	9,099	629,560	0.099%
JNLDOFA U.S. Small Cap Fund	Sensient Technologies Corporation			Equity	7,433	596,275	0.093%
JNLDOFA U.S. Small Cap Fund	Twin Disc, Incorporated			Equity	2,971	29,108	0.004%
JNLDOFA U.S. Small Cap Fund	Worthington Industries, Inc.			Equity	9,020	373,879	0.059%
JNLDOFA U.S. Small Cap Fund	Tennant Company			Equity	3,269	313,955	0.049%
JNLDOFA U.S. Small Cap Fund	Teres Corporation			Equity	10,715	666,931	0.089%
JNLDOFA U.S. Small Cap Fund	Beacon Roofing Supply, Inc.			Equity	11,872	1,026,974	0.161%
JNLDOFA U.S. Small Cap Fund	Haynes International, Inc.			Equity	2,958	176,119	0.028%
JNLDOFA U.S. Small Cap Fund	GSI Technology, Inc.			Equity	3,491	10,648	0.002%
JNLDOFA U.S. Small Cap Fund	Dolby Laboratories, Inc.			Equity	4,183	320,125	0.050%
JNLDOFA U.S. Small Cap Fund	B&G Foods, Inc.			Equity	9,675	87,752	0.014%
JNLDOFA U.S. Small Cap Fund	Commercial Vehicle Group, Inc.			Equity	9,203	29,910	0.005%
JNLDOFA U.S. Small Cap Fund	AngioDynamics, Inc.			Equity	8,259	64,255	0.010%
JNLDOFA U.S. Small Cap Fund	BankFinancial Corporation			Equity	2,643	32,192	0.005%
JNLDOFA U.S. Small Cap Fund	Assured Guaranty Ltd.			Equity	10,642	843,263	0.132%
JNLDOFA U.S. Small Cap Fund	Enterprise Bancorp, Inc.			Equity	2,657	84,918	0.013%
JNLDOFA U.S. Small Cap Fund	Texas Roadhouse, Inc.			Equity	1,768	312,229	0.049%
JNLDOFA U.S. Small Cap Fund	Huron Consulting Group Inc.			Equity	3,157	343,166	0.054%
JNLDOFA U.S. Small Cap Fund	Viad Corp			Equity	4,430	158,127	0.025%
JNLDOFA U.S. Small Cap Fund	Herbalife Nutrition Ltd.			Equity	16,015	115,148	0.018%
JNLDOFA U.S. Small Cap Fund	Cohen & Steers, Inc.			Equity	7,623	731,427	0.114%
JNLDOFA U.S. Small Cap Fund	First Internet Bancorp			Equity	2,700	92,664	0.015%
JNLDOFA U.S. Small Cap Fund	Concept Therapeutics Incorporated			Equity	17,131	762,823	0.124%
JNLDOFA U.S. Small Cap Fund	Farmers National Banc Corp.			Equity	8,200	123,984	0.019%
JNLDOFA U.S. Small Cap Fund	Kingstome Companies, Inc.			Equity	1,409	12,892	0.002%
JNLDOFA U.S. Small Cap Fund	W&T Offshore, Inc.			Equity	12,856	27,640	0.004%
JNLDOFA U.S. Small Cap Fund	TowneBank			Equity	13,286	442,557	0.069%
JNLDOFA U.S. Small Cap Fund	Genworth Financial, Inc.			Equity	81,976	561,536	0.088%
JNLDOFA U.S. Small Cap Fund	Manitex International, Inc.			Equity	4,021	22,638	0.004%
JNLDOFA U.S. Small Cap Fund	MarketAxess Holdings Inc.			Equity	3,501	896,956	0.140%
JNLDOFA U.S. Small Cap Fund	Built-A-Bear Workshop, Inc.			Equity	3,587	124,003	0.019%
JNLDOFA U.S. Small Cap Fund	The Bancorp, Inc.			Equity	9,876	533,716	0.084%
JNLDOFA U.S. Small Cap Fund	EnerSys			Equity	7,049	719,350	0.113%
JNLDOFA U.S. Small Cap Fund	NewMarket Corporation			Equity	1,547	857,641	0.134%
JNLDOFA U.S. Small Cap Fund	ALLETE, Inc.			Equity	9,997	641,707	0.100%
JNLDOFA U.S. Small Cap Fund	First Mid Bancshares, Inc.			Equity	4,662	181,398	0.028%
JNLDOFA U.S. Small Cap Fund	NorthWestern Corporation			Equity	10,011	572,829	0.090%
JNLDOFA U.S. Small Cap Fund	Ultra Clean Holdings, Inc.			Equity	8,319	332,178	0.052%
JNLDOFA U.S. Small Cap Fund	Ormat Technologies, Inc.			Equity	9,684	745,087	0.117%
JNLDOFA U.S. Small Cap Fund	Zumeiz Inc.			Equity	5,071	108,012	0.017%
JNLDOFA U.S. Small Cap Fund	Ciena Corporation			Equity	22,537	1,388,054	0.217%
JNLDOFA U.S. Small Cap Fund	CommVault Systems, Inc.			Equity	6,181	950,947	0.149%
JNLDOFA U.S. Small Cap Fund	Belden Inc.			Equity	7,066	827,994	0.130%
JNLDOFA U.S. Small Cap Fund	Primoris Services Corporation			Equity	10,842	103,264	0.009%
JNLDOFA U.S. Small Cap Fund	Trimas Corporation			Equity	7,918	202,147	0.032%
JNLDOFA U.S. Small Cap Fund	Huntsman Corporation			Equity	28,159	681,448	0.107%
JNLDOFA U.S. Small Cap Fund	Great Lakes Dredge & Dock Corporation			Equity	17,119	180,263	0.028%
JNLDOFA U.S. Small Cap Fund	Western Alliance Bancorporation			Equity	17,381	1,569,283	0.245%
JNLDOFA U.S. Small Cap Fund	Cinemark Holdings, Inc.			Equity	20,118	560,085	0.088%
JNLDOFA U.S. Small Cap Fund	Employers Holdings, Inc.			Equity	5,720	274,388	0.043%
JNLDOFA U.S. Small Cap Fund	Globalstar, Inc.			Equity	8,241	10,219	0.002%
JNLDOFA U.S. Small Cap Fund	Koppers Holdings Inc.			Equity	4,763	173,992	0.027%
JNLDOFA U.S. Small Cap Fund	Treeshouse Foods, Inc.			Equity	10,000	419,800	0.066%
JNLDOFA U.S. Small Cap Fund	Radiant Logistics, Inc.			Equity	11,854	76,221	0.012%
JNLDOFA U.S. Small Cap Fund	Infinera Corporation			Equity	32,621	220,192	0.034%
JNLDOFA U.S. Small Cap Fund	Citi Trends, Inc.			Equity	2,660	48,864	0.008%
JNLDOFA U.S. Small Cap Fund	Brookdale Senior Living Inc.			Equity	39,304	266,874	0.042%
JNLDOFA U.S. Small Cap Fund	Under Armour, Inc.			Equity	32,320	287,971	0.045%
JNLDOFA U.S. Small Cap Fund	Orion Group Holdings, Inc.			Equity	6,095	35,168	0.006%
JNLDOFA U.S. Small Cap Fund	Central Garden & Pet Company			Equity	9,864	303,450	0.047%
JNLDOFA U.S. Small Cap Fund	Clean Energy Fuels Corp.			Equity	47,660	148,223	0.023%
JNLDOFA U.S. Small Cap Fund	Kennedy-Wilson Holdings, Inc.			Equity	23,694	264,662	0.041%
JNLDOFA U.S. Small Cap Fund	RBC Bearings Incorporated			Equity	2,866	858,023	0.134%
JNLDOFA U.S. Small Cap Fund	TechTarget, Inc.			Equity	6,200	151,590	0.024%
JNLDOFA U.S. Small Cap Fund	Vanda Pharmaceuticals Inc.			Equity	13,838	64,900	0.010%
JNLDOFA U.S. Small Cap Fund	Masimo Corporation			Equity	5,033	671,050	0.105%
JNLDOFA U.S. Small Cap Fund	Copa Holdings, S.A.			Equity	5,031	472,109	0.074%
JNLDOFA U.S. Small Cap Fund	Aerovironment, Inc.			Equity	4,855	973,428	0.152%
JNLDOFA U.S. Small Cap Fund	CRService Holdings, Inc.			Equity	27,155	1,035,363	0.162%
JNLDOFA U.S. Small Cap Fund	The Western Union Company			Equity	55,176	658,250	0.103%
JNLDOFA U.S. Small Cap Fund	Enstar Group Limited			Equity	2,847	915,567	0.143%
JNLDOFA U.S. Small Cap Fund	LeMaitre Vascular, Inc.			Equity	3,819	354,747	0.056%
JNLDOFA U.S. Small Cap Fund	Emergent BioSolutions Inc.			Equity	8,296	69,272	0.011%
JNLDOFA U.S. Small Cap Fund	CVR Energy, Inc.			Equity	14,964	344,621	0.054%
JNLDOFA U.S. Small Cap Fund	ICF International, Inc.			Equity	3,126	521,823	0.082%
JNLDOFA U.S. Small Cap Fund	Greenlight Capital Re. Ltd.			Equity	9,394	128,228	0.020%
JNLDOFA U.S. Small Cap Fund	Dana Incorporated			Equity	26,191	276,577	0.043%
JNLDOFA U.S. Small Cap Fund	ArCure, Inc.			Equity	7,913	271,981	0.042%
JNLDOFA U.S. Small Cap Fund	Alimex Group, Inc.			Equity	22,070	130,434	0.020%
JNLDOFA U.S. Small Cap Fund	Evercore Inc.			Equity	4,149	1,051,108	0.164%
JNLDOFA U.S. Small Cap Fund	Home BancShares, Inc.			Equity	35,080	950,317	0.149%
JNLDOFA U.S. Small Cap Fund	First Financial Northwest, Inc.			Equity	719	16,192	0.003%
JNLDOFA U.S. Small Cap Fund	EchoStar Corporation			Equity	2,527	62,720	0.010%
JNLDOFA U.S. Small Cap Fund	Crocs, Inc.			Equity	8,107	1,173,975	0.184%
JNLDOFA U.S. Small Cap Fund	Muesler Water Products, Inc.			Equity	25,435	551,940	0.086%
JNLDOFA U.S. Small Cap Fund	Chart Industries, Inc.			Equity	4,703	683,830	0.108%
JNLDOFA U.S. Small Cap Fund	ACCO Brands Corporation			Equity	25,687	140,508	0.022%
JNLDOFA U.S. Small Cap Fund	Cumberland Pharmaceuticals, Inc.			Equity	2,800	3,584	0.001%
JNLDOFA U.S. Small Cap Fund	Armstrong World Industries, Inc.			Equity	7,412	974,159	0.152%
JNLDOFA U.S. Small Cap Fund	Allegiant Travel Company			Equity	3,350	184,451	0.029%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	iRobot Corporation			Equity	4,529	39,357	0.069%
JNLDOFA U.S. Small Cap Fund	Kaiser Aluminum Corporation			Equity	2,894	24,972	0.032%
JNLDOFA U.S. Small Cap Fund	Liquidity Services, Inc.			Equity	8,039	183,289	0.029%
JNLDOFA U.S. Small Cap Fund	Teradata Corporation			Equity	15,273	463,383	0.073%
JNLDOFA U.S. Small Cap Fund	RadNet, Inc.			Equity	13,803	957,790	0.150%
JNLDOFA U.S. Small Cap Fund	Sally Beauty Holdings, Inc.			Equity	16,636	225,751	0.035%
JNLDOFA U.S. Small Cap Fund	Avis Budget Group, Inc.			Equity	4,659	468,085	0.064%
JNLDOFA U.S. Small Cap Fund	Omega Flex, Inc.			Equity	1,857	93,333	0.015%
JNLDOFA U.S. Small Cap Fund	Accuray Incorporated			Equity	24,581	44,246	0.007%
JNLDOFA U.S. Small Cap Fund	American Public Education, Inc.			Equity	4,531	66,832	0.010%
JNLDOFA U.S. Small Cap Fund	Consolidated Communications Holdings, Inc.			Equity	30,512	141,761	0.022%
JNLDOFA U.S. Small Cap Fund	Invesco Ltd.			Equity	36,108	634,056	0.099%
JNLDOFA U.S. Small Cap Fund	Fonar Corporation			Equity	1,172	18,975	0.003%
JNLDOFA U.S. Small Cap Fund	Ring Energy Inc.			Equity	2,052	3,283	0.001%
JNLDOFA U.S. Small Cap Fund	TFS Financial Corporation			Equity	27,894	359,717	0.056%
JNLDOFA U.S. Small Cap Fund	H&E Equipment Services, Inc.			Equity	5,997	291,934	0.046%
JNLDOFA U.S. Small Cap Fund	Green Plains Inc.			Equity	10,777	145,921	0.023%
JNLDOFA U.S. Small Cap Fund	Hanesbrands Inc.			Equity	57,428	422,096	0.066%
JNLDOFA U.S. Small Cap Fund	Prestige Consumer Healthcare Inc.			Equity	8,912	642,555	0.101%
JNLDOFA U.S. Small Cap Fund	Amerisafe, Inc.			Equity	4,263	206,031	0.032%
JNLDOFA U.S. Small Cap Fund	Willdan Group, Inc.			Equity	2,888	118,264	0.019%
JNLDOFA U.S. Small Cap Fund	Gespac Limited			Equity	20,819	816,513	0.128%
JNLDOFA U.S. Small Cap Fund	eHealth, Inc.			Equity	6,519	26,598	0.004%
JNLDOFA U.S. Small Cap Fund	Universal Logistics Holdings, Inc.			Equity	5,601	242,047	0.038%
JNLDOFA U.S. Small Cap Fund	Titan Machinery Inc.			Equity	5,776	80,460	0.013%
JNLDOFA U.S. Small Cap Fund	First Business Financial Services, Inc.			Equity	2,050	93,460	0.015%
JNLDOFA U.S. Small Cap Fund	The Ensign Group, Inc.			Equity	9,829	1414,197	0.221%
JNLDOFA U.S. Small Cap Fund	MaxLinear, Inc.			Equity	15,671	226,916	0.036%
JNLDOFA U.S. Small Cap Fund	Portland General Electric Company			Equity	16,382	792,889	0.124%
JNLDOFA U.S. Small Cap Fund	KBR, Inc.			Equity	8,935	583,277	0.091%
JNLDOFA U.S. Small Cap Fund	Wheeler & Darrig, Inc.			Equity	6,124	695,625	0.108%
JNLDOFA U.S. Small Cap Fund	First Interstate BancSystem, Inc.			Equity	17,852	547,086	0.086%
JNLDOFA U.S. Small Cap Fund	BankUnited, Inc.			Equity	12,793	466,177	0.073%
JNLDOFA U.S. Small Cap Fund	John Bean Technologies Corporation			Equity	5,532	544,957	0.085%
JNLDOFA U.S. Small Cap Fund	Puma Biotechnology, Inc.			Equity	10,301	26,268	0.004%
JNLDOFA U.S. Small Cap Fund	SunCoke Energy, Inc.			Equity	19,315	101,624	0.016%
JNLDOFA U.S. Small Cap Fund	Mistras Group, Inc.			Equity	7,238	82,296	0.013%
JNLDOFA U.S. Small Cap Fund	Fabrinet			Equity	5,577	1,318,626	0.206%
JNLDOFA U.S. Small Cap Fund	TripAdvisor, Inc.			Equity	20,225	293,060	0.046%
JNLDOFA U.S. Small Cap Fund	Vitway Precision Group, Inc.			Equity	3,693	95,149	0.015%
JNLDOFA U.S. Small Cap Fund	Indium Communications Inc.			Equity	14,331	436,379	0.068%
JNLDOFA U.S. Small Cap Fund	Energy Recovery, Inc.			Equity	8,155	141,815	0.022%
JNLDOFA U.S. Small Cap Fund	Post Holdings, Inc.			Equity	9,605	1,111,779	0.174%
JNLDOFA U.S. Small Cap Fund	Hann Financial Corporation			Equity	7,474	139,016	0.022%
JNLDOFA U.S. Small Cap Fund	Capitol Federal Financial			Equity	30,815	179,960	0.028%
JNLDOFA U.S. Small Cap Fund	Jazz Pharmaceuticals Public Limited Company			Equity	6,397	712,690	0.112%
JNLDOFA U.S. Small Cap Fund	Opeliane, Inc.			Equity	18,433	311,149	0.049%
JNLDOFA U.S. Small Cap Fund	Vera Bradley, Inc.			Equity	7,710	42,097	0.007%
JNLDOFA U.S. Small Cap Fund	Spirit Airlines, Inc.			Equity	18,288	43,691	0.007%
JNLDOFA U.S. Small Cap Fund	Supernus Pharmaceuticals, Inc.			Equity	9,658	301,136	0.047%
JNLDOFA U.S. Small Cap Fund	Matador Resources Company			Equity	16,966	838,460	0.131%
JNLDOFA U.S. Small Cap Fund	Ambarella Inc.			Equity	6,845	386,092	0.060%
JNLDOFA U.S. Small Cap Fund	HomeStreet, Inc.			Equity	4,380	69,029	0.011%
JNLDOFA U.S. Small Cap Fund	Customers Bancorp. Inc.			Equity	7,007	325,475	0.051%
JNLDOFA U.S. Small Cap Fund	Primerica, Inc.			Equity	3,885	1,030,108	0.161%
JNLDOFA U.S. Small Cap Fund	First American Financial Corporation			Equity	15,798	1,042,826	0.163%
JNLDOFA U.S. Small Cap Fund	Acadia Healthcare Company, Inc.			Equity	15,816	1,002,893	0.157%
JNLDOFA U.S. Small Cap Fund	Codexis, Inc.			Equity	9,620	29,630	0.005%
JNLDOFA U.S. Small Cap Fund	Signet Jewelers Limited			Equity	7,829	807,483	0.126%
JNLDOFA U.S. Small Cap Fund	Adius HomeCare Corporation			Equity	6,247	431,948	0.068%
JNLDOFA U.S. Small Cap Fund	Maiden Holdings Ltd.			Equity	2,538	38,129	0.006%
JNLDOFA U.S. Small Cap Fund	Select Medical Holdings Corporation			Equity	22,044	768,674	0.120%
JNLDOFA U.S. Small Cap Fund	DHT Holdings, Inc.			Equity	30,905	340,882	0.053%
JNLDOFA U.S. Small Cap Fund	Hillbrand, Inc.			Equity	11,576	321,813	0.050%
JNLDOFA U.S. Small Cap Fund	Cosmanera Inc.			Equity	19,860	312,199	0.049%
JNLDOFA U.S. Small Cap Fund	Thermon Group Holdings, Inc.			Equity	7,815	233,200	0.036%
JNLDOFA U.S. Small Cap Fund	Magnachip Semiconductor Corporation			Equity	11,762	54,929	0.009%
JNLDOFA U.S. Small Cap Fund	FutureFuel Corp.			Equity	10,483	60,277	0.009%
JNLDOFA U.S. Small Cap Fund	Ingreder Incorporated			Equity	10,388	1,427,623	0.223%
JNLDOFA U.S. Small Cap Fund	Oppenheimer Holdings Inc.			Equity	2,450	125,342	0.020%
JNLDOFA U.S. Small Cap Fund	Ziff Davis, Inc.			Equity	8,387	408,111	0.064%
JNLDOFA U.S. Small Cap Fund	MGPI Processing, Inc.			Equity	3,652	304,029	0.048%
JNLDOFA U.S. Small Cap Fund	Ryerson Holding Corporation			Equity	7,234	144,026	0.023%
JNLDOFA U.S. Small Cap Fund	Douglas Dynamics, Inc.			Equity	5,582	153,952	0.024%
JNLDOFA U.S. Small Cap Fund	Cleanwater Paper Corporation			Equity	3,416	97,493	0.015%
JNLDOFA U.S. Small Cap Fund	Yelp Inc.			Equity	11,957	119,452	0.018%
JNLDOFA U.S. Small Cap Fund	Bright Horizons Family Solutions, Inc.			Equity	9,355	910,916	0.205%
JNLDOFA U.S. Small Cap Fund	Telephone and Data Systems, Inc.			Equity	21,292	495,039	0.077%
JNLDOFA U.S. Small Cap Fund	Transocean Ltd.			Equity	131,348	558,229	0.087%
JNLDOFA U.S. Small Cap Fund	Graphic Packaging Holding Company			Equity	17,650	524,029	0.082%
JNLDOFA U.S. Small Cap Fund	VOXX International Corporation			Equity	6,969	44,323	0.007%
JNLDOFA U.S. Small Cap Fund	QuinStreet, Inc.			Equity	12,746	243,831	0.038%
JNLDOFA U.S. Small Cap Fund	Allison Systems, Inc.			Equity	14,516	1,394,552	0.218%
JNLDOFA U.S. Small Cap Fund	The Wendy's Company			Equity	31,845	557,924	0.087%
JNLDOFA U.S. Small Cap Fund	SPS Commerce, Inc.			Equity	6,236	1,210,844	0.189%
JNLDOFA U.S. Small Cap Fund	ARC Document Solutions, Inc.			Equity	7,490	28,102	0.004%
JNLDOFA U.S. Small Cap Fund	PVH Corp.			Equity	9,224	930,056	0.146%
JNLDOFA U.S. Small Cap Fund	MYR Group Inc.			Equity	2,784	284,608	0.045%
JNLDOFA U.S. Small Cap Fund	Pacira Pharmaceuticals, Inc.			Equity	8,965	134,923	0.021%
JNLDOFA U.S. Small Cap Fund	Vision Corporation			Equity	4,898	876,010	0.137%
JNLDOFA U.S. Small Cap Fund	Genie Energy Ltd.			Equity	6,249	101,546	0.016%
JNLDOFA U.S. Small Cap Fund	Quad/Graphics, Inc.			Equity	8,389	38,086	0.006%
JNLDOFA U.S. Small Cap Fund	EVERTEC, Inc.			Equity	7,840	265,698	0.042%
JNLDOFA U.S. Small Cap Fund	Pacific Biosciences of California, Inc.			Equity	20,078	20,533	0.003%
JNLDOFA U.S. Small Cap Fund	Grand Canyon Education, Inc.			Equity	5,179	734,641	0.114%
JNLDOFA U.S. Small Cap Fund	AxoGen, Inc.			Equity	9,054	126,937	0.020%
JNLDOFA U.S. Small Cap Fund	Calix, Inc.			Equity	11,642	451,593	0.071%
JNLDOFA U.S. Small Cap Fund	Hyster Yale, Inc.			Equity	2,926	186,595	0.029%
JNLDOFA U.S. Small Cap Fund	AMC Networks, Inc.			Equity	7,734	67,208	0.011%
JNLDOFA U.S. Small Cap Fund	The Chef's Warehouse, Inc.			Equity	7,525	316,125	0.049%
JNLDOFA U.S. Small Cap Fund	Pilgrim's Pride Corporation			Equity	9,826	452,487	0.071%
JNLDOFA U.S. Small Cap Fund	Casper Standard Holdings Inc.			Equity	8,771	66,174	0.010%
JNLDOFA U.S. Small Cap Fund	Northwest Bancshares, Inc.			Equity	24,283	324,907	0.051%
JNLDOFA U.S. Small Cap Fund	Midland States Bancorp. Inc.			Equity	5,396	120,762	0.019%
JNLDOFA U.S. Small Cap Fund	Territorial Bancorp Inc.			Equity	1,954	20,400	0.003%
JNLDOFA U.S. Small Cap Fund	Alpha and Omega Semiconductor Limited			Equity	6,718	249,372	0.039%
JNLDOFA U.S. Small Cap Fund	Proto Labs, Inc.			Equity	5,861	172,138	0.027%
JNLDOFA U.S. Small Cap Fund	United Fire Group, Inc.			Equity	6,415	134,266	0.021%
JNLDOFA U.S. Small Cap Fund	Home Bancorp. Inc.			Equity	2,094	93,351	0.015%
JNLDOFA U.S. Small Cap Fund	Virtus Investment Partners, Inc.			Equity	1,275	267,049	0.042%
JNLDOFA U.S. Small Cap Fund	Realty Holdings Corp.			Equity	20,639	104,846	0.016%
JNLDOFA U.S. Small Cap Fund	Mosaic Company, The			Equity	10,357	277,360	0.043%
JNLDOFA U.S. Small Cap Fund	Ameresco, Inc.			Equity	5,518	209,353	0.033%
JNLDOFA U.S. Small Cap Fund	Regional Management Corp.			Equity	2,476	71,177	0.011%
JNLDOFA U.S. Small Cap Fund	Genetec Holdings Inc.			Equity	5,435	893,912	0.135%
JNLDOFA U.S. Small Cap Fund	Lear Corporation			Equity	5,431	592,794	0.093%
JNLDOFA U.S. Small Cap Fund	Ervestnet, Inc.			Equity	7,031	440,281	0.069%
JNLDOFA U.S. Small Cap Fund	MACOM Technology Solutions Holdings, Inc.			Equity	11,389	1,267,140	0.198%
JNLDOFA U.S. Small Cap Fund	Aikermes Public Limited Company			Equity	29,995	839,589	0.131%
JNLDOFA U.S. Small Cap Fund	Air Lease Corporation			Equity	19,693	896,162	0.140%
JNLDOFA U.S. Small Cap Fund	Fortune Brands Innovations, Inc.			Equity	8,323	745,158	0.117%
JNLDOFA U.S. Small Cap Fund	PBF Energy Inc.			Equity	20,741	641,934	0.100%
JNLDOFA U.S. Small Cap Fund	Quavex Building Products Corporation			Equity	7,077	186,387	0.031%
JNLDOFA U.S. Small Cap Fund	Zurich American Corporation			Equity	11,033	675,771	0.106%
JNLDOFA U.S. Small Cap Fund	Marriott Vacations Worldwide Corporation			Equity	6,490	481,818	0.075%
JNLDOFA U.S. Small Cap Fund	Green Dot Corporation			Equity	11,096	129,934	0.020%
JNLDOFA U.S. Small Cap Fund	Liberty Latin America Ltd.			Equity	8,717	83,509	0.013%
JNLDOFA U.S. Small Cap Fund	Goop, Inc.			Equity	19,262	138,301	0.022%
JNLDOFA U.S. Small Cap Fund	Destination XL Group, Inc.			Equity	15,559	45,743	0.007%
JNLDOFA U.S. Small Cap Fund	Acushnet Holdings Corp.			Equity	11,895	758,306	0.119%
JNLDOFA U.S. Small Cap Fund	HCI Group, Inc.			Equity	2,313	247,630	0.039%
JNLDOFA U.S. Small Cap Fund	Berry Global Group, Inc.			Equity	11,859	868,894	0.127%
JNLDOFA U.S. Small Cap Fund	Ichor Holdings, Ltd.			Equity	6,360	202,312	0.032%
JNLDOFA U.S. Small Cap Fund	Accelris Technologies, Inc.			Equity	5,670	594,500	0.093%
JNLDOFA U.S. Small Cap Fund	MRC Global Inc.			Equity	18,864	240,327	0.038%
JNLDOFA U.S. Small Cap Fund	Solars Energy Infrastructure, Inc.			Equity	8,235	105,079	0.016%
JNLDOFA U.S. Small Cap Fund	Kinsale Capital Group, Inc.			Equity	1,963	913,914	0.143%
JNLDOFA U.S. Small Cap Fund	Fox Factory Holding Corp.			Equity	7,234	300,211	0.047%
JNLDOFA U.S. Small Cap Fund	Liberty Latin America Ltd.			Equity	29,006	283,808	0.044%
JNLDOFA U.S. Small Cap Fund	Amneal Pharmaceuticals, Inc.			Equity	49,666	413,221	0.065%
JNLDOFA U.S. Small Cap Fund	Valvoline, Inc.			Equity	23,785	995,402	0.156%
JNLDOFA U.S. Small Cap Fund	Camping World Holdings, Inc.			Equity	6,145	148,832	0.023%
JNLDOFA U.S. Small Cap Fund	Fossil Group, Inc.			Equity	694	812	0.000%
JNLDOFA U.S. Small Cap Fund	Qualys, Inc.			Equity	6,029	774,485	0.121%
JNLDOFA U.S. Small Cap Fund	Playa Hotels & Resorts N.V.			Equity	22,325	173,019	0.027%
JNLDOFA U.S. Small Cap Fund	Stratys, Inc.			Equity	2,641	21,947	0.003%
JNLDOFA U.S. Small Cap Fund	ConnectOne Bancorp, Inc.			Equity	8,777	219,864	0.034%
JNLDOFA U.S. Small Cap Fund	Ribbon Communications Inc.			Equity	40,853	132,772	0.021%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Rocket Pharmaceuticals, Inc.			Equity	11,155	206,033	0.032%
JNLDOFA U.S. Small Cap Fund	Popular, Inc.			Equity	11,494	1,159,630	0.183%
JNLDOFA U.S. Small Cap Fund	Ingevity Corporation			Equity	5,998	233,922	0.037%
JNLDOFA U.S. Small Cap Fund	National Research Corporation			Equity	5,074	116,601	0.018%
JNLDOFA U.S. Small Cap Fund	Shutterstock, Inc.			Equity	6,908	244,336	0.038%
JNLDOFA U.S. Small Cap Fund	Movienta Inc.			Equity	6,266	1,121,113	0.175%
JNLDOFA U.S. Small Cap Fund	Taylor Morrison Home II Corporation			Equity	20,709	1,455,014	0.228%
JNLDOFA U.S. Small Cap Fund	OFG Bancorp			Equity	8,680	392,076	0.061%
JNLDOFA U.S. Small Cap Fund	Integer Holdings Corporation			Equity	6,085	791,050	0.124%
JNLDOFA U.S. Small Cap Fund	Under Armour, Inc.			Equity	35,291	295,033	0.046%
JNLDOFA U.S. Small Cap Fund	ATA International, Inc.			Equity	4,253	138,563	0.022%
JNLDOFA U.S. Small Cap Fund	Bloom'n Brands, Inc.			Equity	13,499	223,138	0.035%
JNLDOFA U.S. Small Cap Fund	Silvercrest Asset Management Group Inc.			Equity	2,300	39,652	0.006%
JNLDOFA U.S. Small Cap Fund	Atlanticus Holdings Corporation			Equity	3,541	124,218	0.019%
JNLDOFA U.S. Small Cap Fund	Natural Grocers By Vitamin Cottage, Inc.			Equity	6,525	193,127	0.030%
JNLDOFA U.S. Small Cap Fund	HomeTrust Bancshares, Inc.			Equity	1,672	56,982	0.009%
JNLDOFA U.S. Small Cap Fund	Byline Bancorp, Inc.			Equity	8,369	224,038	0.035%
JNLDOFA U.S. Small Cap Fund	Adient Public Limited Company			Equity	16,704	377,009	0.059%
JNLDOFA U.S. Small Cap Fund	Murphy USA Inc.			Equity	1,078	531,314	0.082%
JNLDOFA U.S. Small Cap Fund	Banc of California, Inc.			Equity	7,007	103,994	0.016%
JNLDOFA U.S. Small Cap Fund	Amibac Financial Group, Inc.			Equity	10,452	117,167	0.018%
JNLDOFA U.S. Small Cap Fund	Avanos Medical, Inc.			Equity	9,783	235,085	0.037%
JNLDOFA U.S. Small Cap Fund	Genentech Incorporated			Equity	9,988	278,741	0.044%
JNLDOFA U.S. Small Cap Fund	Performant Financial Corporation			Equity	16,702	62,465	0.010%
JNLDOFA U.S. Small Cap Fund	Dave & Buster's Entertainment, Inc.			Equity	7,769	264,534	0.041%
JNLDOFA U.S. Small Cap Fund	Qurate Retail, Inc.			Equity	33,798	20,620	0.003%
JNLDOFA U.S. Small Cap Fund	e.l.i. Beady, Inc.			Equity	6,682	510,478	0.080%
JNLDOFA U.S. Small Cap Fund	Sprouts Farmers Market, Inc.			Equity	17,152	1,893,752	0.296%
JNLDOFA U.S. Small Cap Fund	Enanta Pharmaceuticals, Inc.			Equity	4,878	50,536	0.008%
JNLDOFA U.S. Small Cap Fund	Artisan Partners Asset Management Inc.			Equity	11,914	516,114	0.081%
JNLDOFA U.S. Small Cap Fund	SandRidge Energy, Inc.			Equity	4,423	103,013	0.016%
JNLDOFA U.S. Small Cap Fund	First Hawaiian, Inc.			Equity	21,256	482,338	0.077%
JNLDOFA U.S. Small Cap Fund	Armcore Shipping Services (Ireland) Limited			Equity	9,576	173,326	0.027%
JNLDOFA U.S. Small Cap Fund	Yext, Inc.			Equity	22,372	154,814	0.024%
JNLDOFA U.S. Small Cap Fund	Fate Therapeutics, Inc.			Equity	12,464	43,624	0.007%
JNLDOFA U.S. Small Cap Fund	Lions Gate Entertainment Corp.			Equity	20,978	105,974	0.017%
JNLDOFA U.S. Small Cap Fund	Expro Group Holdings N.V.			Equity	19,098	327,913	0.051%
JNLDOFA U.S. Small Cap Fund	Five Below, Inc.			Equity	6,532	577,102	0.090%
JNLDOFA U.S. Small Cap Fund	Interface, Inc.			Equity	14,088	267,249	0.042%
JNLDOFA U.S. Small Cap Fund	Gates Industrial Corporation PLC			Equity	42,531	746,438	0.117%
JNLDOFA U.S. Small Cap Fund	Tidewater Inc.			Equity	9,575	687,389	0.108%
JNLDOFA U.S. Small Cap Fund	American Airlines Group Inc.			Equity	64,780	728,127	0.114%
JNLDOFA U.S. Small Cap Fund	Advanced Emissions Solutions, Inc.			Equity	3,500	20,545	0.003%
JNLDOFA U.S. Small Cap Fund	RBB Bancorp			Equity	4,633	106,652	0.017%
JNLDOFA U.S. Small Cap Fund	The Manitowoc Company, Inc.			Equity	7,861	75,623	0.012%
JNLDOFA U.S. Small Cap Fund	Lions Gate Entertainment Corp.			Equity	6,205	48,585	0.008%
JNLDOFA U.S. Small Cap Fund	Innoviva, Inc.			Equity	14,217	274,530	0.043%
JNLDOFA U.S. Small Cap Fund	REV Group, Inc.			Equity	13,572	381,599	0.060%
JNLDOFA U.S. Small Cap Fund	IES Holdings, Inc.			Equity	5,048	1,007,682	0.158%
JNLDOFA U.S. Small Cap Fund	Gaia, Inc.			Equity	3,495	17,021	0.003%
JNLDOFA U.S. Small Cap Fund	Denali Therapeutics Inc.			Equity	15,850	461,711	0.072%
JNLDOFA U.S. Small Cap Fund	National Bank Holdings Corporation			Equity	6,898	790,498	0.045%
JNLDOFA U.S. Small Cap Fund	TRI Pointe Homes Holdings, Inc.			Equity	18,243	826,590	0.129%
JNLDOFA U.S. Small Cap Fund	SEACOR Marine Holdings Inc.			Equity	7,293	70,377	0.011%
JNLDOFA U.S. Small Cap Fund	CRISPR Therapeutics AG			Equity	13,456	632,163	0.099%
JNLDOFA U.S. Small Cap Fund	Title Shop Holdings, Inc.			Equity	9,676	63,765	0.010%
JNLDOFA U.S. Small Cap Fund	Chur's Holdings, Inc.			Equity	1,934	72,332	0.011%
JNLDOFA U.S. Small Cap Fund	Beazer Homes USA, Inc.			Equity	6,280	214,588	0.034%
JNLDOFA U.S. Small Cap Fund	Sammina Corporation			Equity	10,221	699,627	0.109%
JNLDOFA U.S. Small Cap Fund	Bank of N.T. Butterfield & Son Limited, The			Equity	8,110	299,097	0.047%
JNLDOFA U.S. Small Cap Fund	Tiptree Inc.			Equity	9,503	185,974	0.029%
JNLDOFA U.S. Small Cap Fund	Genco Shipping & Trading Limited			Equity	10,026	195,507	0.031%
JNLDOFA U.S. Small Cap Fund	Boise Cascade Company			Equity	7,064	995,883	0.156%
JNLDOFA U.S. Small Cap Fund	Metropolitan Bank Holding Corp.			Equity	2,332	122,617	0.019%
JNLDOFA U.S. Small Cap Fund	Varex Imaging Corporation			Equity	9,056	107,248	0.017%
JNLDOFA U.S. Small Cap Fund	Matson Intermodal - Paragon, Inc.			Equity	6,677	952,274	0.149%
JNLDOFA U.S. Small Cap Fund	Agius Pharmaceuticals, Inc.			Equity	10,237	454,830	0.071%
JNLDOFA U.S. Small Cap Fund	Independent Bank Group, Inc.			Equity	7,075	407,945	0.064%
JNLDOFA U.S. Small Cap Fund	Northfield Bancorp, Inc.			Equity	11,160	129,456	0.020%
JNLDOFA U.S. Small Cap Fund	Prothena Corporation Public Limited Company			Equity	8,522	142,573	0.022%
JNLDOFA U.S. Small Cap Fund	Lamb Weston Holdings, Inc.			Equity	2,543	164,634	0.026%
JNLDOFA U.S. Small Cap Fund	Tapestry, Inc.			Equity	7,535	353,994	0.055%
JNLDOFA U.S. Small Cap Fund	ANI Pharmaceuticals, Inc.			Equity	4,783	285,264	0.045%
JNLDOFA U.S. Small Cap Fund	Bluebird Bio, Inc.			Equity	28,824	14,974	0.002%
JNLDOFA U.S. Small Cap Fund	Norwegian Cruise Line Holdings Ltd.			Equity	48,048	985,464	0.154%
JNLDOFA U.S. Small Cap Fund	Five Point Holdings, LLC			Equity	16,309	67,682	0.011%
JNLDOFA U.S. Small Cap Fund	United Parks And Resorts Inc.			Equity	10,231	517,689	0.081%
JNLDOFA U.S. Small Cap Fund	Wex, Inc.			Equity	4,483	940,220	0.147%
JNLDOFA U.S. Small Cap Fund	Alkore Inc.			Equity	6,815	577,503	0.090%
JNLDOFA U.S. Small Cap Fund	Coty Inc.			Equity	62,520	587,063	0.092%
JNLDOFA U.S. Small Cap Fund	Select Energy Services, Inc.			Equity	23,658	263,314	0.041%
JNLDOFA U.S. Small Cap Fund	Blackline, Inc.			Equity	8,295	457,386	0.072%
JNLDOFA U.S. Small Cap Fund	Poibelly Corporation			Equity	6,970	58,130	0.009%
JNLDOFA U.S. Small Cap Fund	Mammoth Energy Services, Inc.			Equity	11,105	45,419	0.007%
JNLDOFA U.S. Small Cap Fund	Geospace Technologies Corporation			Equity	3,473	35,911	0.006%
JNLDOFA U.S. Small Cap Fund	Eastman Kodak Company			Equity	13,838	65,315	0.010%
JNLDOFA U.S. Small Cap Fund	Tilly's, Inc.			Equity	4,196	21,400	0.003%
JNLDOFA U.S. Small Cap Fund	Theravance Biopharma, Inc.			Equity	5,566	44,862	0.007%
JNLDOFA U.S. Small Cap Fund	Associated Capital Group Inc.			Equity	613	21,712	0.003%
JNLDOFA U.S. Small Cap Fund	Readiady Energy Corporation			Equity	20,688	548,048	0.086%
JNLDOFA U.S. Small Cap Fund	Altice USA, Inc.			Equity	41,989	303,293	0.046%
JNLDOFA U.S. Small Cap Fund	Premier Healthcare Solutions, Inc.			Equity	17,771	355,420	0.056%
JNLDOFA U.S. Small Cap Fund	MacroGenics, Inc.			Equity	15,251	50,176	0.008%
JNLDOFA U.S. Small Cap Fund	MMI Holdings, Inc.			Equity	14,951	615,832	0.096%
JNLDOFA U.S. Small Cap Fund	Chegg, Inc.			Equity	21,615	38,259	0.006%
JNLDOFA U.S. Small Cap Fund	Herc Holdings Inc.			Equity	4,787	763,191	0.119%
JNLDOFA U.S. Small Cap Fund	Forestar Group Inc.			Equity	10,563	341,924	0.054%
JNLDOFA U.S. Small Cap Fund	Travelzoo			Equity	3,317	39,370	0.006%
JNLDOFA U.S. Small Cap Fund	TTEC Holdings, Inc.			Equity	8,107	47,588	0.007%
JNLDOFA U.S. Small Cap Fund	Cactus, Inc.			Equity	10,365	618,480	0.097%
JNLDOFA U.S. Small Cap Fund	Par Pacific Holdings, Inc.			Equity	10,384	182,758	0.029%
JNLDOFA U.S. Small Cap Fund	Tactile Systems Technology, Inc.			Equity	5,909	86,390	0.014%
JNLDOFA U.S. Small Cap Fund	Edtas Medicine, Inc.			Equity	19,848	64,272	0.010%
JNLDOFA U.S. Small Cap Fund	Spok Holdings, Inc.			Equity	1,028	15,482	0.002%
JNLDOFA U.S. Small Cap Fund	Essent Group Ltd.			Equity	18,693	1,201,773	0.188%
JNLDOFA U.S. Small Cap Fund	Xencor, Inc.			Equity	11,510	231,466	0.036%
JNLDOFA U.S. Small Cap Fund	Rayonier Advanced Materials Inc.			Equity	17,309	148,185	0.023%
JNLDOFA U.S. Small Cap Fund	Metallus Inc.			Equity	9,782	145,067	0.023%
JNLDOFA U.S. Small Cap Fund	First Foundation Inc.			Equity	15,235	95,066	0.015%
JNLDOFA U.S. Small Cap Fund	Arctost Corporation			Equity	4,370	473,927	0.074%
JNLDOFA U.S. Small Cap Fund	Science Applications International Corporation			Equity	9,286	1,153,991	0.181%
JNLDOFA U.S. Small Cap Fund	Five9, Inc.			Equity	3,889	111,731	0.017%
JNLDOFA U.S. Small Cap Fund	GrafTech International Ltd.			Equity	42,408	55,979	0.009%
JNLDOFA U.S. Small Cap Fund	Trupanion, Inc.			Equity	3,418	143,488	0.022%
JNLDOFA U.S. Small Cap Fund	P.T.I. Partners Inc.			Equity	3,790	505,359	0.078%
JNLDOFA U.S. Small Cap Fund	CNX Resources Corporation			Equity	26,561	865,092	0.135%
JNLDOFA U.S. Small Cap Fund	CONSOL Energy Inc.			Equity	5,298	554,436	0.087%
JNLDOFA U.S. Small Cap Fund	SouthernStar Corporation			Equity	11,821	1,148,765	0.180%
JNLDOFA U.S. Small Cap Fund	O2 Holdings, Inc.			Equity	9,835	784,538	0.123%
JNLDOFA U.S. Small Cap Fund	Knight-Swift Transportation Holdings Inc.			Equity	13,969	753,628	0.118%
JNLDOFA U.S. Small Cap Fund	Berry Corporation (Bry)			Equity	13,770	70,778	0.011%
JNLDOFA U.S. Small Cap Fund	Sabre Corporation			Equity	53,637	196,848	0.031%
JNLDOFA U.S. Small Cap Fund	AIO Networks, Inc.			Equity	7,995	259,848	0.041%
JNLDOFA U.S. Small Cap Fund	RingCentral, Inc.			Equity	6,584	271,512	0.042%
JNLDOFA U.S. Small Cap Fund	Warrior Met Coal, Inc.			Equity	8,395	536,441	0.084%
JNLDOFA U.S. Small Cap Fund	Cleveland-Cliffs Inc.			Equity	48,973	625,385	0.098%
JNLDOFA U.S. Small Cap Fund	Dorian LPG Ltd.			Equity	9,912	343,236	0.054%
JNLDOFA U.S. Small Cap Fund	One Gas, Inc.			Equity	9,096	676,924	0.106%
JNLDOFA U.S. Small Cap Fund	Malibu Boats, Inc.			Equity	3,505	136,029	0.021%
JNLDOFA U.S. Small Cap Fund	Aramark			Equity	23,226	899,543	0.141%
JNLDOFA U.S. Small Cap Fund	Simply Good Foods Company, The			Equity	16,504	573,844	0.090%
JNLDOFA U.S. Small Cap Fund	SoundThinking, Inc.			Equity	3,208	37,181	0.006%
JNLDOFA U.S. Small Cap Fund	Sensata Technologies Holding PLC			Equity	16,545	593,304	0.093%
JNLDOFA U.S. Small Cap Fund	Globant S.A.			Equity	3,929	778,492	0.122%
JNLDOFA U.S. Small Cap Fund	Lands' End, Inc.			Equity	6,627	114,448	0.018%
JNLDOFA U.S. Small Cap Fund	Florida Rock Properties, Inc.			Equity	4,452	132,937	0.021%
JNLDOFA U.S. Small Cap Fund	OneSpan Inc.			Equity	10,728	178,836	0.028%
JNLDOFA U.S. Small Cap Fund	Seacoast Banking Corporation of Florida			Equity	13,866	369,529	0.058%
JNLDOFA U.S. Small Cap Fund	Brighthouse Financial, Inc.			Equity	11,729	528,157	0.083%
JNLDOFA U.S. Small Cap Fund	Navient Corporation			Equity	21,946	242,138	0.038%
JNLDOFA U.S. Small Cap Fund	HealthEquity, Inc.			Equity	13,905	1,138,124	0.178%
JNLDOFA U.S. Small Cap Fund	Waterstone Financial, Inc.			Equity	5,366	78,880	0.012%
JNLDOFA U.S. Small Cap Fund	CM Wind Down Topco LLC			Equity	3,580	4,690	0.001%
JNLDOFA U.S. Small Cap Fund	Deltek US Holdings, Inc.			Equity	11,365	213,094	0.033%
JNLDOFA U.S. Small Cap Fund	Harte Hanks, Inc.			Equity	1,200	8,928	0.001%
JNLDOFA U.S. Small Cap Fund	Red Violet, Inc.			Equity	2,676	76,132	0.012%
JNLDOFA U.S. Small Cap Fund	Dropbox, Inc.			Equity	27,786	706,598	0.111%
JNLDOFA U.S. Small Cap Fund	Paycom Holding Corporation			Equity	5,208	859,164	0.134%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	Enlink Midstream, LLC			Equity	74,570	1,082,011	0.169%
JNLDOFA U.S. Small Cap Fund	Biglari Holdings Inc.			Equity	9	7,491	0.003%
JNLDOFA U.S. Small Cap Fund	Hamilton Lane Incorporated			Equity	6,293	1,062,762	0.166%
JNLDOFA U.S. Small Cap Fund	James River Group, Inc.			Equity	8,510	53,358	0.008%
JNLDOFA U.S. Small Cap Fund	ServisFirst Bancshares, Inc.			Equity	9,988	803,535	0.126%
JNLDOFA U.S. Small Cap Fund	QXW Inc.			Equity	19,511	252,277	0.039%
JNLDOFA U.S. Small Cap Fund	Moxie & Company			Equity	10,640	728,946	0.114%
JNLDOFA U.S. Small Cap Fund	Phibro Animal Health Corporation			Equity	5,100	114,852	0.018%
JNLDOFA U.S. Small Cap Fund	Stock Yards Bancorp, Inc.			Equity	5,174	322,340	0.050%
JNLDOFA U.S. Small Cap Fund	A-Mark Precious Metals, Inc.			Equity	6,310	278,650	0.044%
JNLDOFA U.S. Small Cap Fund	Truarc, Inc.			Equity	28,044	96,752	0.015%
JNLDOFA U.S. Small Cap Fund	Mine Safety Appliances Company, LLC			Equity	6,379	1,131,252	0.177%
JNLDOFA U.S. Small Cap Fund	LGI Homes, Inc.			Equity	4,074	482,850	0.076%
JNLDOFA U.S. Small Cap Fund	Biglari Holdings Inc.			Equity	616	105,958	0.017%
JNLDOFA U.S. Small Cap Fund	Graham Holdings Co., Ltd.			Equity	860	542,802	0.085%
JNLDOFA U.S. Small Cap Fund	NVS Global, Inc.			Equity	2,819	263,520	0.041%
JNLDOFA U.S. Small Cap Fund	Amphastar Pharmaceuticals, Inc.			Equity	5,014	243,329	0.038%
JNLDOFA U.S. Small Cap Fund	ASGN Incorporated			Equity	8,911	830,773	0.130%
JNLDOFA U.S. Small Cap Fund	Spartanash Company			Equity	7,810	176,721	0.028%
JNLDOFA U.S. Small Cap Fund	Synovus Financial Corp.			Equity	23,330	1,046,351	0.164%
JNLDOFA U.S. Small Cap Fund	Lindblad Expeditions, LLC			Equity	7,296	67,488	0.011%
JNLDOFA U.S. Small Cap Fund	Installed Building Products, Inc.			Equity	4,820	1,187,021	0.186%
JNLDOFA U.S. Small Cap Fund	Sportsman's Warehouse Holdings, Inc.			Equity	10,813	29,303	0.005%
JNLDOFA U.S. Small Cap Fund	Antero Resources Corporation			Equity	19,628	562,342	0.088%
JNLDOFA U.S. Small Cap Fund	Western New England Bancorp, Inc.			Equity	6,071	51,604	0.008%
JNLDOFA U.S. Small Cap Fund	Century Communities, Inc.			Equity	5,669	583,794	0.091%
JNLDOFA U.S. Small Cap Fund	Sleep Number Corporation			Equity	4,821	88,321	0.014%
JNLDOFA U.S. Small Cap Fund	Victory Capital Holdings, Inc.			Equity	9,387	520,040	0.081%
JNLDOFA U.S. Small Cap Fund	PlayAGS, Inc.			Equity	6,925	78,876	0.012%
JNLDOFA U.S. Small Cap Fund	Sage Therapeutics Inc.			Equity	10,283	74,243	0.012%
JNLDOFA U.S. Small Cap Fund	Voya Financial, Inc.			Equity	5,335	689,298	0.106%
JNLDOFA U.S. Small Cap Fund	Nishika, Inc.			Equity	7,534	92,065	0.014%
JNLDOFA U.S. Small Cap Fund	ADT, Inc.			Equity	100,866	734,809	0.115%
JNLDOFA U.S. Small Cap Fund	Sterling Bancorp, Inc.			Equity	4,580	20,839	0.003%
JNLDOFA U.S. Small Cap Fund	Inogen, Inc.			Equity	5,687	55,164	0.009%
JNLDOFA U.S. Small Cap Fund	Roller Holdings, Inc.			Equity	4,149	49,129	0.007%
JNLDOFA U.S. Small Cap Fund	Applied Optoelectronics, Inc.			Equity	6,805	97,380	0.015%
JNLDOFA U.S. Small Cap Fund	ITT Inc.			Equity	455	68,027	0.011%
JNLDOFA U.S. Small Cap Fund	Angi Inc.			Equity	19,539	50,411	0.008%
JNLDOFA U.S. Small Cap Fund	Marcus & Millichap Company			Equity	7,317	291,802	0.046%
JNLDOFA U.S. Small Cap Fund	Wyndham Hotels & Resorts, Inc.			Equity	12,131	947,916	0.148%
JNLDOFA U.S. Small Cap Fund	Knowles Corporation			Equity	17,136	308,962	0.048%
JNLDOFA U.S. Small Cap Fund	Perrigo Company Public Limited Company			Equity	22,542	591,277	0.093%
JNLDOFA U.S. Small Cap Fund	Gopro Inc.			Equity	13,284	18,066	0.003%
JNLDOFA U.S. Small Cap Fund	Invance Biotherapeutics, Inc.			Equity	45,903	431,029	0.067%
JNLDOFA U.S. Small Cap Fund	Talos Energy Inc.			Equity	29,946	309,941	0.049%
JNLDOFA U.S. Small Cap Fund	Dwight A. Walker Real Estate, Inc.			Equity	3,890	48,431	0.008%
JNLDOFA U.S. Small Cap Fund	Heritage Insurance Holdings, Inc.			Equity	6,496	79,511	0.012%
JNLDOFA U.S. Small Cap Fund	Spero Therapeutics, Inc.			Equity	10,003	13,404	0.002%
JNLDOFA U.S. Small Cap Fund	Weatherford International Public Limited Company			Equity	7,076	600,894	0.094%
JNLDOFA U.S. Small Cap Fund	Sumun Inc.			Equity	35,620	643,297	0.101%
JNLDOFA U.S. Small Cap Fund	Janus Henderson Group PLC			Equity	25,343	954,808	0.151%
JNLDOFA U.S. Small Cap Fund	Intellia Therapeutics, Inc.			Equity	13,732	282,193	0.044%
JNLDOFA U.S. Small Cap Fund	Hamilton Beach Brands Holding Company			Equity	814	24,770	0.004%
JNLDOFA U.S. Small Cap Fund	B. Riley & Co., LLC			Equity	4,151	21,793	0.003%
JNLDOFA U.S. Small Cap Fund	Hope Bancorp, Inc.			Equity	22,209	278,845	0.044%
JNLDOFA U.S. Small Cap Fund	SMART Global Holdings, Inc.			Equity	9,013	188,822	0.030%
JNLDOFA U.S. Small Cap Fund	Archrock, Inc.			Equity	26,907	544,598	0.085%
JNLDOFA U.S. Small Cap Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	10,536	1,024,099	0.160%
JNLDOFA U.S. Small Cap Fund	Apollorix, Inc.			Equity	1,392	327,877	0.051%
JNLDOFA U.S. Small Cap Fund	PRA Group, Inc.			Equity	7,031	157,213	0.025%
JNLDOFA U.S. Small Cap Fund	Enova International, Inc.			Equity	6,532	547,316	0.086%
JNLDOFA U.S. Small Cap Fund	Merchants Bancorp, Inc.			Equity	7,477	336,839	0.053%
JNLDOFA U.S. Small Cap Fund	Duluth Holdings Inc.			Equity	6,369	23,947	0.004%
JNLDOFA U.S. Small Cap Fund	Dynvex Technologies Corporation			Equity	24,135	269,864	0.042%
JNLDOFA U.S. Small Cap Fund	Penumbra, Inc.			Equity	4,143	805,026	0.126%
JNLDOFA U.S. Small Cap Fund	Planet Fitness, Inc.			Equity	10,496	852,485	0.133%
JNLDOFA U.S. Small Cap Fund	Voyager Therapeutics, Inc.			Equity	7,547	44,150	0.007%
JNLDOFA U.S. Small Cap Fund	Calentis, Inc.			Equity	7,817	258,352	0.040%
JNLDOFA U.S. Small Cap Fund	Independence Holdings, LLC			Equity	19,385	912,452	0.143%
JNLDOFA U.S. Small Cap Fund	TEGNA Inc.			Equity	32,567	517,978	0.081%
JNLDOFA U.S. Small Cap Fund	International Game Technology PLC			Equity	27,717	590,372	0.092%
JNLDOFA U.S. Small Cap Fund	Turning Point Brands, Inc.			Equity	3,773	163,263	0.026%
JNLDOFA U.S. Small Cap Fund	Snake Shack, Inc.			Equity	6,912	713,388	0.112%
JNLDOFA U.S. Small Cap Fund	Lantheus Holdings, Inc.			Equity	10,602	1,163,570	0.182%
JNLDOFA U.S. Small Cap Fund	Encompass Health Corporation			Equity	7,337	709,048	0.111%
JNLDOFA U.S. Small Cap Fund	IELO-WEN Holding, Inc.			Equity	15,090	259,570	0.040%
JNLDOFA U.S. Small Cap Fund	BlueLink Holdings Inc.			Equity	2,172	228,972	0.036%
JNLDOFA U.S. Small Cap Fund	Regeneron Inc.			Equity	10,243	107,449	0.017%
JNLDOFA U.S. Small Cap Fund	Corvus Pharmaceuticals, Inc.			Equity	5,000	26,400	0.004%
JNLDOFA U.S. Small Cap Fund	DMC Global Inc.			Equity	5,357	69,534	0.011%
JNLDOFA U.S. Small Cap Fund	Frestigel, Inc.			Equity	8,090	1,106,469	0.173%
JNLDOFA U.S. Small Cap Fund	LivaNova PLC			Equity	9,596	504,174	0.079%
JNLDOFA U.S. Small Cap Fund	Conduent Incorporated			Equity	49,541	199,650	0.031%
JNLDOFA U.S. Small Cap Fund	Virtu Financial, Inc.			Equity	15,990	487,055	0.076%
JNLDOFA U.S. Small Cap Fund	VZX, Inc.			Equity	4,396	245,561	0.039%
JNLDOFA U.S. Small Cap Fund	AdvanSix Inc.			Equity	5,763	175,080	0.027%
JNLDOFA U.S. Small Cap Fund	Kimball Electronics Group, LLC			Equity	6,051	112,004	0.018%
JNLDOFA U.S. Small Cap Fund	Sphere Entertainment Co.			Equity	4,127	661,229	0.102%
JNLDOFA U.S. Small Cap Fund	Relatix Health, Inc.			Equity	27,739	254,544	0.040%
JNLDOFA U.S. Small Cap Fund	Availa Coating Systems Ltd.			Equity	20,390	737,914	0.115%
JNLDOFA U.S. Small Cap Fund	Golden Entertainment, Inc.			Equity	1,291	41,364	0.006%
JNLDOFA U.S. Small Cap Fund	Calentis, Inc.			Equity	3,039	184,072	0.029%
JNLDOFA U.S. Small Cap Fund	Spiri Inc.			Equity	8,712	592,808	0.092%
JNLDOFA U.S. Small Cap Fund	ETSY, Inc.			Equity	12,137	673,968	0.105%
JNLDOFA U.S. Small Cap Fund	Vista Outdoor Inc.			Equity	10,350	405,513	0.063%
JNLDOFA U.S. Small Cap Fund	Evolent Health, Inc.			Equity	20,028	566,392	0.089%
JNLDOFA U.S. Small Cap Fund	SiteOne Landscape Supply, Inc.			Equity	4,025	607,413	0.095%
JNLDOFA U.S. Small Cap Fund	Ferroglobe PLC			Equity	37,392	173,499	0.027%
JNLDOFA U.S. Small Cap Fund	Cable One, Inc.			Equity	765	267,589	0.042%
JNLDOFA U.S. Small Cap Fund	Stry, LLC			Equity	21,607	696,610	0.109%
JNLDOFA U.S. Small Cap Fund	Equity Bancshares, Inc.			Equity	3,494	143,269	0.023%
JNLDOFA U.S. Small Cap Fund	Red Rock Resorts, Inc.			Equity	8,290	451,308	0.071%
JNLDOFA U.S. Small Cap Fund	GMS Inc.			Equity	6,521	590,607	0.092%
JNLDOFA U.S. Small Cap Fund	Smart Sand, Inc.			Equity	9,622	18,955	0.003%
JNLDOFA U.S. Small Cap Fund	Liberty Broadband Corporation			Equity	2,297	176,456	0.028%
JNLDOFA U.S. Small Cap Fund	VideoOpenWV, Inc.			Equity	12,666	67,547	0.011%
JNLDOFA U.S. Small Cap Fund	Dentsply Sirona Inc.			Equity	31,414	855,089	0.134%
JNLDOFA U.S. Small Cap Fund	Live Oak Bancshares, Inc.			Equity	7,660	362,854	0.057%
JNLDOFA U.S. Small Cap Fund	DHI Group, Inc.			Equity	12,150	22,356	0.003%
JNLDOFA U.S. Small Cap Fund	Adialem Global Education Inc.			Equity	7,788	587,838	0.092%
JNLDOFA U.S. Small Cap Fund	The Chemours Company			Equity	24,510	498,043	0.078%
JNLDOFA U.S. Small Cap Fund	Propetro Holding Corp.			Equity	23,105	176,984	0.028%
JNLDOFA U.S. Small Cap Fund	Liberty Broadband Corporation			Equity	13,826	1,068,612	0.167%
JNLDOFA U.S. Small Cap Fund	Hilton Grand Vacations Inc.			Equity	16,769	609,160	0.095%
JNLDOFA U.S. Small Cap Fund	DXC Technology Company			Equity	29,479	611,689	0.096%
JNLDOFA U.S. Small Cap Fund	Cars.com Inc.			Equity	13,494	226,159	0.035%
JNLDOFA U.S. Small Cap Fund	First Busey Corporation			Equity	10,278	267,434	0.042%
JNLDOFA U.S. Small Cap Fund	Box, Inc.			Equity	22,097	723,235	0.113%
JNLDOFA U.S. Small Cap Fund	The Rmr Group Inc.			Equity	3,994	101,368	0.016%
JNLDOFA U.S. Small Cap Fund	Alarm.Com Holdings, Inc.			Equity	8,994	491,702	0.077%
JNLDOFA U.S. Small Cap Fund	Alcoa Corporation			Equity	25,692	991,197	0.155%
JNLDOFA U.S. Small Cap Fund	International Seaways, Inc.			Equity	9,039	456,051	0.072%
JNLDOFA U.S. Small Cap Fund	Schneider National, Inc.			Equity	14,903	426,747	0.067%
JNLDOFA U.S. Small Cap Fund	Collegium Pharmaceutical, Inc.			Equity	7,303	282,188	0.044%
JNLDOFA U.S. Small Cap Fund	Upland Software, Inc.			Equity	4,567	11,372	0.002%
JNLDOFA U.S. Small Cap Fund	Keamy Financial Corp.			Equity	10,486	113,259	0.018%
JNLDOFA U.S. Small Cap Fund	Even Holdings Inc.			Equity	11,897	156,327	0.024%
JNLDOFA U.S. Small Cap Fund	Donnelley Financial Solutions, Inc.			Equity	5,117	336,852	0.053%
JNLDOFA U.S. Small Cap Fund	Houlihan Lokey, Inc.			Equity	3,341	527,945	0.083%
JNLDOFA U.S. Small Cap Fund	Kura Oncology, Inc.			Equity	17,252	337,104	0.053%
JNLDOFA U.S. Small Cap Fund	Glaxo Corporation			Equity	2,039	665,641	0.092%
JNLDOFA U.S. Small Cap Fund	Nevro Corp.			Equity	5,156	28,822	0.005%
JNLDOFA U.S. Small Cap Fund	FB Financial Corporation			Equity	7,822	367,086	0.057%
JNLDOFA U.S. Small Cap Fund	Energizer Holdings, Inc.			Equity	11,153	354,219	0.055%
JNLDOFA U.S. Small Cap Fund	Zedge, Inc.			Equity	1,112	4,114	0.001%
JNLDOFA U.S. Small Cap Fund	Edgewell Personal Care Colombia S A S			Equity	9,219	336,401	0.053%
JNLDOFA U.S. Small Cap Fund	National Vision Holdings, Inc.			Equity	14,002	152,762	0.024%
JNLDOFA U.S. Small Cap Fund	Ashland Inc.			Equity	9,063	788,209	0.123%
JNLDOFA U.S. Small Cap Fund	Laureate Education, Inc.			Equity	27,807	461,874	0.072%
JNLDOFA U.S. Small Cap Fund	RH			Equity	2,948	965,900	0.154%
JNLDOFA U.S. Small Cap Fund	CSW Industrials, Inc.			Equity	2,653	972,033	0.152%
JNLDOFA U.S. Small Cap Fund	Summit Materials, Inc.			Equity	21,877	853,859	0.134%
JNLDOFA U.S. Small Cap Fund	Boat Barn Holdings, Inc.			Equity	5,187	867,817	0.136%
JNLDOFA U.S. Small Cap Fund	El Pollo Loco Holdings, Inc.			Equity	7,946	108,860	0.017%
JNLDOFA U.S. Small Cap Fund	Veritex Holdings, Inc.			Equity	8,454	222,509	0.035%
JNLDOFA U.S. Small Cap Fund	Viavi Solutions Inc.			Equity	38,851	350,436	0.055%
JNLDOFA U.S. Small Cap Fund	Rocky Mountain Chocolate Factory, Inc.			Equity	1,500	3,000	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	LendingTree, Inc.			Equity	2,920	169,448	0.027%
JNLDOFA U.S. Small Cap Fund	LCI Industries			Equity	4,678	563,986	0.088%
JNLDOFA U.S. Small Cap Fund	Lumentum Holdings Inc.			Equity	9,699	614,723	0.096%
JNLDOFA U.S. Small Cap Fund	Capri Holdings Limited			Equity	7,904	335,446	0.052%
JNLDOFA U.S. Small Cap Fund	Green Brick Partners, Inc.			Equity	7,386	616,879	0.097%
JNLDOFA U.S. Small Cap Fund	BWXI Government Group, Inc.			Equity	8,272	899,166	0.141%
JNLDOFA U.S. Small Cap Fund	Adiant Therapeutics, Inc.			Equity	8,881	10,213	0.002%
JNLDOFA U.S. Small Cap Fund	RCI Hospitality Holdings, Inc.			Equity	1,831	81,571	0.013%
JNLDOFA U.S. Small Cap Fund	Triumph Financial, Inc.			Equity	4,204	334,386	0.052%
JNLDOFA U.S. Small Cap Fund	Blue Bird Global Corporation			Equity	5,992	287,376	0.045%
JNLDOFA U.S. Small Cap Fund	PetIQ, Inc.			Equity	2,975	91,541	0.014%
JNLDOFA U.S. Small Cap Fund	Kosmos Energy Ltd.			Equity	81,099	326,829	0.051%
JNLDOFA U.S. Small Cap Fund	Altair Engineering Inc.			Equity	8,514	813,172	0.127%
JNLDOFA U.S. Small Cap Fund	Apix Medical Corporation			Equity	6,848	8,492	0.001%
JNLDOFA U.S. Small Cap Fund	SGA Technologies, Inc.			Equity	16,644	112,347	0.018%
JNLDOFA U.S. Small Cap Fund	Alogene Therapeutics, Inc.			Equity	31,712	88,794	0.014%
JNLDOFA U.S. Small Cap Fund	Secureworks Corp.			Equity	3,187	28,205	0.004%
JNLDOFA U.S. Small Cap Fund	KaVista Pharmaceuticals Inc.			Equity	7,013	81,211	0.013%
JNLDOFA U.S. Small Cap Fund	LifeVantage Corporation			Equity	1,827	22,070	0.003%
JNLDOFA U.S. Small Cap Fund	Scorpio Tankers Inc.			Equity	9,401	670,291	0.105%
JNLDOFA U.S. Small Cap Fund	Stitch Fix, Inc.			Equity	19,471	54,908	0.009%
JNLDOFA U.S. Small Cap Fund	Inadmed Corp.			Equity	2,980	149,864	0.023%
JNLDOFA U.S. Small Cap Fund	Smartsfinancial, Inc.			Equity	4,173	121,601	0.019%
JNLDOFA U.S. Small Cap Fund	1st Security Bank of Washington			Equity	2,172	96,632	0.015%
JNLDOFA U.S. Small Cap Fund	Element Solutions Inc.			Equity	45,170	1,226,817	0.192%
JNLDOFA U.S. Small Cap Fund	IS Verticals, Inc.			Equity	6,112	130,247	0.020%
JNLDOFA U.S. Small Cap Fund	Construction Partners, Inc.			Equity	7,023	490,205	0.077%
JNLDOFA U.S. Small Cap Fund	VAAO Energy, Inc.			Equity	16,017	91,938	0.014%
JNLDOFA U.S. Small Cap Fund	Airgain, Inc.			Equity	2,231	16,822	0.003%
JNLDOFA U.S. Small Cap Fund	Transcat, Inc.			Equity	1,873	226,202	0.035%
JNLDOFA U.S. Small Cap Fund	Bandwidth Inc.			Equity	5,537	86,953	0.013%
JNLDOFA U.S. Small Cap Fund	Antero Midstream Corporation			Equity	80,449	1,210,757	0.189%
JNLDOFA U.S. Small Cap Fund	Bioceres Crop Solutions Corp.			Equity	3,610	28,411	0.004%
JNLDOFA U.S. Small Cap Fund	Joint Corp, The			Equity	3,837	43,895	0.007%
JNLDOFA U.S. Small Cap Fund	OneSpaWorld Holdings Limited			Equity	18,164	299,888	0.047%
JNLDOFA U.S. Small Cap Fund	Levi Strauss & Co.			Equity	10,720	233,686	0.036%
JNLDOFA U.S. Small Cap Fund	Goosehead Insurance, Inc.			Equity	3,960	353,628	0.055%
JNLDOFA U.S. Small Cap Fund	Tronox Holdings PLC			Equity	28,367	415,009	0.065%
JNLDOFA U.S. Small Cap Fund	Designer Brands Inc.			Equity	8,848	72,678	0.011%
JNLDOFA U.S. Small Cap Fund	Aldelyra Therapeutics, Inc.			Equity	16,902	91,549	0.014%
JNLDOFA U.S. Small Cap Fund	TecnoGlass Inc.			Equity	7,752	533,105	0.083%
JNLDOFA U.S. Small Cap Fund	Chemung Financial Corporation			Equity	1,128	54,516	0.009%
JNLDOFA U.S. Small Cap Fund	Coda Octopus Group, Inc.			Equity	1,104	8,004	0.001%
JNLDOFA U.S. Small Cap Fund	MannKind Corporation			Equity	31,653	199,070	0.031%
JNLDOFA U.S. Small Cap Fund	Paysign, Inc.			Equity	8,178	30,013	0.005%
JNLDOFA U.S. Small Cap Fund	Veracore, Inc.			Equity	12,652	430,674	0.067%
JNLDOFA U.S. Small Cap Fund	Northeast Bank			Equity	1,999	154,183	0.024%
JNLDOFA U.S. Small Cap Fund	Spectrum Brands Holdings, Inc.			Equity	6,058	576,258	0.090%
JNLDOFA U.S. Small Cap Fund	Bank OZK			Equity	20,434	878,458	0.137%
JNLDOFA U.S. Small Cap Fund	Atlantic Union Bank			Equity	17,347	653,461	0.102%
JNLDOFA U.S. Small Cap Fund	Kontor Brands, Inc.			Equity	9,893	809,050	0.127%
JNLDOFA U.S. Small Cap Fund	Mitek Systems, Inc.			Equity	11,105	86,280	0.013%
JNLDOFA U.S. Small Cap Fund	Krysal Biotech, Inc.			Equity	4,543	826,962	0.129%
JNLDOFA U.S. Small Cap Fund	Orthopediatrics Corp.			Equity	5,136	139,237	0.022%
JNLDOFA U.S. Small Cap Fund	Eventbrite, Inc.			Equity	14,895	40,663	0.006%
JNLDOFA U.S. Small Cap Fund	Arvinas Operations, Inc.			Equity	6,094	150,095	0.023%
JNLDOFA U.S. Small Cap Fund	Quantier Corporation			Equity	8,787	114,009	0.018%
JNLDOFA U.S. Small Cap Fund	Crinetics Pharmaceuticals, Inc.			Equity	8,435	431,029	0.067%
JNLDOFA U.S. Small Cap Fund	Scholar Rock Holding Corporation			Equity	4,763	38,152	0.006%
JNLDOFA U.S. Small Cap Fund	MeirGix Holdings plc			Equity	11,955	49,852	0.008%
JNLDOFA U.S. Small Cap Fund	Vim Commodities Inc.			Equity	21,941	610,179	0.095%
JNLDOFA U.S. Small Cap Fund	Eclance, Inc.			Equity	21,224	221,791	0.035%
JNLDOFA U.S. Small Cap Fund	Axonics, Inc.			Equity	7,512	522,835	0.082%
JNLDOFA U.S. Small Cap Fund	Boston Omaha Corporation			Equity	7,012	104,268	0.016%
JNLDOFA U.S. Small Cap Fund	Ynkrx Therapeutics, Inc.			Equity	8,406	810,539	0.127%
JNLDOFA U.S. Small Cap Fund	Twist Bioscience Corporation			Equity	10,086	455,685	0.071%
JNLDOFA U.S. Small Cap Fund	Zuora, Inc.			Equity	12,134	104,595	0.016%
JNLDOFA U.S. Small Cap Fund	SmartSheet Inc.			Equity	11,479	635,477	0.099%
JNLDOFA U.S. Small Cap Fund	Hudson Global, Inc.			Equity	454	7,273	0.001%
JNLDOFA U.S. Small Cap Fund	American Superconductor Corporation			Equity	8,361	197,320	0.031%
JNLDOFA U.S. Small Cap Fund	Helios Technologies, Inc.			Equity	5,419	258,486	0.040%
JNLDOFA U.S. Small Cap Fund	Cynovopt, Inc.			Equity	9,090	73,720	0.012%
JNLDOFA U.S. Small Cap Fund	Bridgewater Bancshares, Inc.			Equity	7,728	376,588	0.057%
JNLDOFA U.S. Small Cap Fund	Iteris, Inc.			Equity	10,268	73,314	0.011%
JNLDOFA U.S. Small Cap Fund	LendingClub Corporation			Equity	16,609	189,841	0.030%
JNLDOFA U.S. Small Cap Fund	BrightSphere Investment Group Inc.			Equity	8,846	224,688	0.035%
JNLDOFA U.S. Small Cap Fund	Park Aerospace Technologies Corp.			Equity	6,289	81,944	0.012%
JNLDOFA U.S. Small Cap Fund	Phresia, Inc.			Equity	4,904	111,762	0.017%
JNLDOFA U.S. Small Cap Fund	Health Catalyst, Inc.			Equity	13,500	109,890	0.017%
JNLDOFA U.S. Small Cap Fund	Alkermes Inc.			Equity	13,366	8,731	0.001%
JNLDOFA U.S. Small Cap Fund	Xerox Holdings Corporation			Equity	24,244	257,714	0.040%
JNLDOFA U.S. Small Cap Fund	Asconova, Inc.			Equity	500	6,730	0.001%
JNLDOFA U.S. Small Cap Fund	BiLife Solutions, Inc.			Equity	9,034	226,211	0.035%
JNLDOFA U.S. Small Cap Fund	Amplify Energy Corp.			Equity	9,379	61,245	0.010%
JNLDOFA U.S. Small Cap Fund	Anterix Inc.			Equity	4,447	167,474	0.026%
JNLDOFA U.S. Small Cap Fund	Globe Life Inc.			Equity	8,139	892,001	0.135%
JNLDOFA U.S. Small Cap Fund	HarborOne Bancorp, Inc.			Equity	11,219	145,629	0.023%
JNLDOFA U.S. Small Cap Fund	Luna Innovations Incorporated			Equity	1,040	2,444	0.000%
JNLDOFA U.S. Small Cap Fund	Digital Turbine USA, Inc.			Equity	14,314	43,944	0.007%
JNLDOFA U.S. Small Cap Fund	CineCard Corporation			Equity	1,463	8,000	0.000%
JNLDOFA U.S. Small Cap Fund	Orsstown Financial Services, Inc.			Equity	4,101	147,472	0.023%
JNLDOFA U.S. Small Cap Fund	Clarivate PLC			Equity	95,699	679,463	0.106%
JNLDOFA U.S. Small Cap Fund	Pulgent Genetics, Inc.			Equity	6,042	131,293	0.021%
JNLDOFA U.S. Small Cap Fund	IOX Genomics, Inc.			Equity	12,783	288,640	0.045%
JNLDOFA U.S. Small Cap Fund	Araviv Inc.			Equity	2,226	9,438	0.001%
JNLDOFA U.S. Small Cap Fund	Envista Holdings Corporation			Equity	20,084	396,860	0.062%
JNLDOFA U.S. Small Cap Fund	Opportun Financial Corporation			Equity	8,399	23,601	0.004%
JNLDOFA U.S. Small Cap Fund	Pennant Group, Inc., The			Equity	7,953	283,922	0.044%
JNLDOFA U.S. Small Cap Fund	Cerence Inc.			Equity	6,551	20,636	0.003%
JNLDOFA U.S. Small Cap Fund	Grocery Outlet Holding Corp.			Equity	16,088	282,344	0.044%
JNLDOFA U.S. Small Cap Fund	First United Corporation			Equity	4,889	14,592	0.002%
JNLDOFA U.S. Small Cap Fund	Civista Bancshares, Inc.			Equity	4,099	73,044	0.011%
JNLDOFA U.S. Small Cap Fund	Onto Innovation Inc.			Equity	4,410	915,340	0.143%
JNLDOFA U.S. Small Cap Fund	SFL Corporation Ltd.			Equity	26,646	308,294	0.048%
JNLDOFA U.S. Small Cap Fund	First Bank of New Jersey			Equity	3,580	54,416	0.009%
JNLDOFA U.S. Small Cap Fund	First Bancshares Inc.			Equity	7,027	225,778	0.035%
JNLDOFA U.S. Small Cap Fund	P.C.B. Bancorp, Inc.			Equity	5,495	65,671	0.010%
JNLDOFA U.S. Small Cap Fund	Gannett Co., Inc.			Equity	36,260	203,781	0.032%
JNLDOFA U.S. Small Cap Fund	Trekay Tankers Ltd.			Equity	5,838	340,064	0.053%
JNLDOFA U.S. Small Cap Fund	Kodak Sciences Inc.			Equity	10,601	27,669	0.004%
JNLDOFA U.S. Small Cap Fund	Cardlytics, Inc.			Equity	10,210	32,840	0.005%
JNLDOFA U.S. Small Cap Fund	International Money Express Inc.			Equity	8,039	148,641	0.023%
JNLDOFA U.S. Small Cap Fund	EverQuote, Inc.			Equity	7,356	155,138	0.024%
JNLDOFA U.S. Small Cap Fund	Revolve Group Inc.			Equity	6,519	161,541	0.025%
JNLDOFA U.S. Small Cap Fund	Repay Holdings Corporation			Equity	17,352	141,592	0.022%
JNLDOFA U.S. Small Cap Fund	Palomar Holdings, Inc.			Equity	4,196	397,235	0.062%
JNLDOFA U.S. Small Cap Fund	Stoke Therapeutics, Inc.			Equity	8,937	109,836	0.017%
JNLDOFA U.S. Small Cap Fund	Fasly, Inc.			Equity	24,025	181,869	0.028%
JNLDOFA U.S. Small Cap Fund	Parsons Corporation			Equity	9,817	914,147	0.143%
JNLDOFA U.S. Small Cap Fund	Compress Public Limited Company			Equity	5,656	463,340	0.073%
JNLDOFA U.S. Small Cap Fund	Paramount Global			Equity	960	21,034	0.003%
JNLDOFA U.S. Small Cap Fund	Paramount Global			Equity	8,923	95,208	0.015%
JNLDOFA U.S. Small Cap Fund	Medichron, Inc.			Equity	5,000	6,300	0.001%
JNLDOFA U.S. Small Cap Fund	Catalyst Pharmaceuticals, Inc.			Equity	20,715	411,814	0.064%
JNLDOFA U.S. Small Cap Fund	Vince Holding Corp.			Equity	900	1,665	0.000%
JNLDOFA U.S. Small Cap Fund	Bill Holdings, Inc.			Equity	11,981	632,118	0.099%
JNLDOFA U.S. Small Cap Fund	Orthix Medical Inc.			Equity	7,069	110,418	0.017%
JNLDOFA U.S. Small Cap Fund	Strategic Education, Inc.			Equity	4,206	389,265	0.061%
JNLDOFA U.S. Small Cap Fund	Lovesac Company, The			Equity	3,679	105,403	0.016%
JNLDOFA U.S. Small Cap Fund	Esquire Financial Holdings, Inc.			Equity	2,037	132,833	0.021%
JNLDOFA U.S. Small Cap Fund	NVB Financial Corp.			Equity	2,838	56,880	0.008%
JNLDOFA U.S. Small Cap Fund	O-I Glass, Inc.			Equity	27,589	361,988	0.057%
JNLDOFA U.S. Small Cap Fund	Primeenergy Resources Corporation			Equity	262	36,104	0.006%
JNLDOFA U.S. Small Cap Fund	Perdoco Education Corporation			Equity	14,636	325,505	0.051%
JNLDOFA U.S. Small Cap Fund	Purple Innovation, Inc.			Equity	18,400	18,192	0.003%
JNLDOFA U.S. Small Cap Fund	Pure Cycle Corporation			Equity	5,869	63,209	0.010%
JNLDOFA U.S. Small Cap Fund	Enerpac Tool Group Corp.			Equity	8,876	371,816	0.058%
JNLDOFA U.S. Small Cap Fund	Option Care Health, Inc.			Equity	29,178	913,271	0.143%
JNLDOFA U.S. Small Cap Fund	Reynolds Consumer Products Inc.			Equity	24,732	769,165	0.120%
JNLDOFA U.S. Small Cap Fund	Presagen, Inc.			Equity	5,958	5,643	0.001%
JNLDOFA U.S. Small Cap Fund	Aspen Aerojets, Inc.			Equity	13,498	373,760	0.058%
JNLDOFA U.S. Small Cap Fund	Beam Therapeutics Inc.			Equity	10,318	252,791	0.040%
JNLDOFA U.S. Small Cap Fund	Gristone Bio, Inc.			Equity	13,416	7,780	0.001%
JNLDOFA U.S. Small Cap Fund	Emerald Holdings, Inc.			Equity	12,928	141,611	0.022%
JNLDOFA U.S. Small Cap Fund	Masstech Digital, Inc.			Equity	2,673	26,730	0.004%
JNLDOFA U.S. Small Cap Fund	Alia Equipment Group Inc.			Equity	7,622	51,372	0.008%
JNLDOFA U.S. Small Cap Fund	InfuSystem Holdings, Inc.			Equity	5,209	34,900	0.005%
JNLDOFA U.S. Small Cap Fund	Electromed, Inc.			Equity	800	17,176	0.003%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDOFA U.S. Small Cap Fund	ACNB Corporation			Equity	1,907	83,279	0.013%
JNLDOFA U.S. Small Cap Fund	acPharmaceuticals Inc.			Equity	1,069	4,870	0.003%
JNLDOFA U.S. Small Cap Fund	Brightcove Inc.			Equity	13,520	29,203	0.009%
JNLDOFA U.S. Small Cap Fund	Luxter Holdings PLC			Equity	4,716	61,072	0.010%
JNLDOFA U.S. Small Cap Fund	Nexa Resources S.A.			Equity	8,594	62,478	0.010%
JNLDOFA U.S. Small Cap Fund	Grid Dynamics Holdings, Inc.			Equity	14,814	207,396	0.032%
JNLDOFA U.S. Small Cap Fund	Independence Contract Drilling, Inc.			Equity	210	46	0.000%
JNLDOFA U.S. Small Cap Fund	BCB Bancorp, Inc.			Equity	4,927	60,799	0.010%
JNLDOFA U.S. Small Cap Fund	Business First Bancshares, Inc.			Equity	5,683	145,883	0.023%
JNLDOFA U.S. Small Cap Fund	NI Holdings Inc.			Equity	3,194	50,082	0.008%
JNLDOFA U.S. Small Cap Fund	Ames National Corporation			Equity	2,412	43,971	0.007%
JNLDOFA U.S. Small Cap Fund	Sphere Entertainment Co.			Equity	5,339	235,874	0.037%
JNLDOFA U.S. Small Cap Fund	Nabors Industries Ltd.			Equity	2,178	140,416	0.022%
JNLDOFA U.S. Small Cap Fund	Oric Pharmaceuticals, Inc.			Equity	9,674	99,159	0.016%
JNLDOFA U.S. Small Cap Fund	IPF Industries, Inc.			Equity	11,044	1,449,989	0.227%
JNLDOFA U.S. Small Cap Fund	Castle Biosciences, Inc.			Equity	5,882	167,755	0.026%
JNLDOFA U.S. Small Cap Fund	Arch Resources, Inc.			Equity	3,088	426,638	0.067%
JNLDOFA U.S. Small Cap Fund	Adaptive Biotechnologies Corporation			Equity	30,246	154,880	0.024%
JNLDOFA U.S. Small Cap Fund	SelectQuote, Inc.			Equity	19,889	40,989	0.006%
JNLDOFA U.S. Small Cap Fund	Reglimune Group, Inc.			Equity	11,040	120,998	0.019%
JNLDOFA U.S. Small Cap Fund	Crossfirst Bankshares, Inc.			Equity	11,725	195,690	0.031%
JNLDOFA U.S. Small Cap Fund	Proggny, Inc.			Equity	14,847	248,836	0.039%
JNLDOFA U.S. Small Cap Fund	Summa Energy International Inc.			Equity	21,011	204,847	0.032%
JNLDOFA U.S. Small Cap Fund	Immunovant, Inc.			Equity	21,830	622,373	0.097%
JNLDOFA U.S. Small Cap Fund	Necture, Inc.			Equity	6,223	8,526	0.001%
JNLDOFA U.S. Small Cap Fund	ICM Biosciences, Inc.			Equity	2,819	46,626	0.007%
JNLDOFA U.S. Small Cap Fund	Reimada Therapeutics, Inc.			Equity	5,202	16,264	0.002%
JNLDOFA U.S. Small Cap Fund	Anerant Bancorp Inc.			Equity	7,649	163,459	0.026%
JNLDOFA U.S. Small Cap Fund	Alector, Inc.			Equity	17,089	79,635	0.012%
JNLDOFA U.S. Small Cap Fund	Acturix Therapeutics Holdings Inc.			Equity	6,755	156,784	0.025%
JNLDOFA U.S. Small Cap Fund	Schindler, Inc.			Equity	7,058	139,926	0.009%
JNLDOFA U.S. Small Cap Fund	Springworks Therapeutics, Inc.			Equity	10,679	242,155	0.054%
JNLDOFA U.S. Small Cap Fund	Black Diamond Therapeutics, Inc.			Equity	11,160	48,546	0.008%
JNLDOFA U.S. Small Cap Fund	Accel Entertainment, Inc.			Equity	14,263	165,736	0.026%
JNLDOFA U.S. Small Cap Fund	Ranpak Holdings Corp			Equity	13,761	89,859	0.014%
JNLDOFA U.S. Small Cap Fund	Xenon Pharmaceuticals Inc.			Equity	2,414	46,890	0.007%
JNLDOFA U.S. Small Cap Fund	SI-BONE, Inc.			Equity	7,730	108,065	0.017%
JNLDOFA U.S. Small Cap Fund	Smith & Wesson Brands, Inc.			Equity	11,712	153,544	0.024%
JNLDOFA U.S. Small Cap Fund	Bank First Corporation			Equity	476	43,364	0.007%
JNLDOFA U.S. Small Cap Fund	Xbiotech Inc.			Equity	6,069	46,890	0.007%
JNLDOFA U.S. Small Cap Fund	Shyft Group, Inc.			Equity	7,710	96,761	0.015%
JNLDOFA U.S. Small Cap Fund	Vital Energy, Inc.			Equity	3,580	96,302	0.015%
JNLDOFA U.S. Small Cap Fund	ChampionX Corporation			Equity	32,392	976,619	0.153%
JNLDOFA U.S. Small Cap Fund	ZoomInfo Technologies Inc.			Equity	40,706	423,015	0.068%
JNLDOFA U.S. Small Cap Fund	Groupm, Inc.			Equity	2,142	20,949	0.003%
JNLDOFA U.S. Small Cap Fund	Bristol Holdings U.S., Inc.			Equity	6,465	224,271	0.035%
JNLDOFA U.S. Small Cap Fund	The AZEK Company Inc.			Equity	23,596	1,104,293	0.173%
JNLDOFA U.S. Small Cap Fund	Avirity Biosciences, Inc.			Equity	16,657	765,056	0.120%
JNLDOFA U.S. Small Cap Fund	Generation Bio Co.			Equity	9,526	23,529	0.004%
JNLDOFA U.S. Small Cap Fund	Premier Financial Corporation			Equity	8,243	193,546	0.030%
JNLDOFA U.S. Small Cap Fund	The ODF Corporation			Equity	7,105	211,374	0.033%
JNLDOFA U.S. Small Cap Fund	Magnite, Inc.			Equity	23,713	328,425	0.051%
JNLDOFA U.S. Small Cap Fund	Match Group, Inc.			Equity	17,100	647,064	0.101%
JNLDOFA U.S. Small Cap Fund	Dun & Bradstreet Holdings, Inc.			Equity	65,205	750,510	0.117%
JNLDOFA U.S. Small Cap Fund	Willcof Holdings Corporation			Equity	18,780	706,128	0.111%
JNLDOFA U.S. Small Cap Fund	Stonestor Group Inc.			Equity	5,404	442,480	0.069%
JNLDOFA U.S. Small Cap Fund	Avent Corporation			Equity	15,925	805,497	0.126%
JNLDOFA U.S. Small Cap Fund	Caesars Entertainment, Inc.			Equity	5,962	248,854	0.039%
JNLDOFA U.S. Small Cap Fund	Orion Engineered Carbons Finance & Co. S.C.A.			Equity	10,771	192,054	0.030%
JNLDOFA U.S. Small Cap Fund	KLX Energy Services Holdings, Inc.			Equity	910	4,978	0.001%
JNLDOFA U.S. Small Cap Fund	Shutterstock, LLC			Equity	9,139	809,715	0.127%
JNLDOFA U.S. Small Cap Fund	Only Group Inc.			Equity	1,749	55,863	0.009%
JNLDOFA U.S. Small Cap Fund	Intrepid Potash, Inc.			Equity	3,418	82,032	0.013%
JNLDOFA U.S. Small Cap Fund	American Outdoor Brands, Inc.			Equity	3,340	30,795	0.005%
JNLDOFA U.S. Small Cap Fund	DEAYA Biosciences, Inc.			Equity	1,215	36,490	0.006%
JNLDOFA U.S. Small Cap Fund	DZS, Inc.			Equity	7,725	4,867	0.001%
JNLDOFA U.S. Small Cap Fund	Immunic, Inc.			Equity	999	1,648	0.000%
JNLDOFA U.S. Small Cap Fund	Northern Oil and Gas Incorporated			Equity	10,106	362,098	0.057%
JNLDOFA U.S. Small Cap Fund	GoodRx Holdings, Inc.			Equity	14,258	98,156	0.015%
JNLDOFA U.S. Small Cap Fund	PMV Pharmaceuticals, Inc.			Equity	10,111	15,065	0.002%
JNLDOFA U.S. Small Cap Fund	API Group Corporation			Equity	22,357	738,228	0.116%
JNLDOFA U.S. Small Cap Fund	Mission Produce, Inc.			Equity	12,981	166,416	0.026%
JNLDOFA U.S. Small Cap Fund	Lencor, Inc.			Equity	1,067	4,978	0.001%
JNLDOFA U.S. Small Cap Fund	Adicet Therapeutics, Inc.			Equity	8,323	11,985	0.002%
JNLDOFA U.S. Small Cap Fund	Vontier Corporation			Equity	24,628	830,949	0.130%
JNLDOFA U.S. Small Cap Fund	Glatfelter Corporation			Equity	10,692	19,246	0.003%
JNLDOFA U.S. Small Cap Fund	Janus International Group, Inc.			Equity	23,956	242,166	0.038%
JNLDOFA U.S. Small Cap Fund	Third Coast Bancshares, Inc.			Equity	1,415	37,880	0.006%
JNLDOFA U.S. Small Cap Fund	Cadre Holdings, Inc.			Equity	5,291	200,793	0.031%
JNLDOFA U.S. Small Cap Fund	Instructure Holdings, Inc.			Equity	533	12,552	0.002%
JNLDOFA U.S. Small Cap Fund	Viant Technology Inc.			Equity	2,632	29,136	0.005%
JNLDOFA U.S. Small Cap Fund	Aethx Test Systems			Equity	7,256	93,240	0.015%
JNLDOFA U.S. Small Cap Fund	Oak Valley Bancorp.			Equity	552	14,667	0.002%
JNLDOFA U.S. Small Cap Fund	Monte Rosa Therapeutics, Inc.			Equity	2,605	13,807	0.002%
JNLDOFA U.S. Small Cap Fund	4D Molecular Therapeutics, Inc.			Equity	2,031	21,955	0.003%
JNLDOFA U.S. Small Cap Fund	Resolute Forest Products Inc.	1/7/2031		Equity	15,741	4,192	0.001%
JNLDOFA U.S. Small Cap Fund	Verity Biosciences, Inc.			Equity	305	665	0.000%
JNLDOFA U.S. Small Cap Fund	Opant Pharmaceuticals, Inc.	1/7/2031		Equity	518	0	0.000%
JNLDOFA U.S. Small Cap Fund	Admire Pharma, Inc.	12/31/2027		Equity	5,183	30,113	0.005%
JNLDOFA U.S. Small Cap Fund	MaxCyte, Inc.			Equity	18,521	72,947	0.011%
JNLDOFA U.S. Small Cap Fund	Nerdwallet, Inc.			Equity	7,208	91,614	0.014%
JNLDOFA U.S. Small Cap Fund	CASI Pharmaceuticals, Inc.			Equity	1,669	9,947	0.002%
JNLDOFA U.S. Small Cap Fund	Crane Company			Equity	7,481	1,184,093	0.185%
JNLDOFA U.S. Small Cap Fund	Compass Therapeutics, Inc.			Equity	5,143	9,463	0.001%
JNLDOFA U.S. Small Cap Fund	Perma-Fix Environmental Services, Inc.			Equity	3,302	40,516	0.006%
JNLDOFA U.S. Small Cap Fund	Southern States Bancshares, Inc.			Equity	1,643	50,489	0.008%
JNLDOFA U.S. Small Cap Fund	Reno Pharmaceuticals, Inc.			Equity	100	170	0.000%
JNLDOFA U.S. Small Cap Fund	Sphere Entertainment Co.			Equity	7,040	299,498	0.047%
JNLDOFA U.S. Small Cap Fund	Core Laboratories LP			Equity	8,704	161,285	0.025%
JNLDOFA U.S. Small Cap Fund	Sanara Medtech Inc.			Equity	420	12,701	0.002%
JNLDOFA U.S. Small Cap Fund	Gates Silver, Inc.			Equity	11,994	180,870	0.028%
JNLDOFA U.S. Small Cap Fund	Skywater Technology, Inc.			Equity	5,627	51,186	0.008%
JNLDOFA U.S. Small Cap Fund	Aura Biosciences, Inc.			Equity	4,147	36,950	0.006%
JNLDOFA U.S. Small Cap Fund	Intapp U.S., Inc.			Equity	11,992	573,577	0.090%
JNLDOFA U.S. Small Cap Fund	Knife River Corporation			Equity	9,089	812,466	0.127%
JNLDOFA U.S. Small Cap Fund	Verastem, Inc.			Equity	4,880	14,591	0.002%
JNLDOFA U.S. Small Cap Fund	Sinclear, Inc.			Equity	7,871	120,426	0.019%
JNLDOFA U.S. Small Cap Fund	Kingsway Financial Services Inc.			Equity	1,919	15,889	0.002%
JNLDOFA U.S. Small Cap Fund	PlayStudios, Inc.			Equity	4,985	7,527	0.001%
JNLDOFA U.S. Small Cap Fund	Gambling Com Group Limited			Equity	6,842	68,557	0.011%
JNLDOFA U.S. Small Cap Fund	Trice Medical Concepts, Inc.			Equity	6,991	40,148	0.006%
JNLDOFA U.S. Small Cap Fund	Leonardo DRS, Inc.			Equity	16,410	463,090	0.072%
JNLDOFA U.S. Small Cap Fund	Nuvalent, Inc.			Equity	615	62,915	0.010%
JNLDOFA U.S. Small Cap Fund	Ramaco Resources, Inc.			Equity	7,863	91,997	0.014%
JNLDOFA U.S. Small Cap Fund	Ramaco Resources, Inc.			Equity	1,716	18,460	0.003%
JNLDOFA U.S. Small Cap Fund	Heritage Global Solutions, Inc.			Equity	5,700	9,690	0.002%
JNLDOFA U.S. Small Cap Fund	Planet Labs Inc.			Equity	30,955	69,030	0.011%
JNLDOFA U.S. Small Cap Fund	BGC Group, Inc.			Equity	68,181	625,902	0.098%
JNLDOFA U.S. Small Cap Fund	Phinia Inc.			Equity	1,850	85,156	0.013%
JNLDOFA U.S. Small Cap Fund	Virginia National Bankshares Corporation			Equity	335	13,953	0.002%
JNLDOFA U.S. Small Cap Fund	Skillz Inc.			Equity	4,199	23,598	0.004%
JNLDOFA U.S. Small Cap Fund	Mama's Creations, Inc.			Equity	8,034	58,648	0.009%
JNLDOFA U.S. Small Cap Fund	Vivid Seats Inc.			Equity	22,670	83,978	0.013%
JNLDOFA U.S. Small Cap Fund	Virta, Inc.			Equity	1,496	9,305	0.001%
JNLDOFA U.S. Small Cap Fund	Atlanta Braves Holdings, Inc.			Equity	7,011	279,038	0.044%
JNLDOFA U.S. Small Cap Fund	Atlanta Braves Holdings, Inc.			Equity	1,811	76,334	0.012%
JNLDOFA U.S. Small Cap Fund	Karat Packaging Inc.			Equity	3,715	96,181	0.015%
JNLDOFA U.S. Small Cap Fund	Bowlero Corp.			Equity	5,192	60,954	0.010%
JNLDOFA U.S. Small Cap Fund	Cleantpark Inc.			Equity	31,640	295,518	0.046%
JNLDOFA U.S. Small Cap Fund	AvePoint, Inc.			Equity	30,639	360,621	0.056%
JNLDOFA U.S. Small Cap Fund	Pyxis Oncology, Inc.			Equity	3,922	14,394	0.002%
JNLDOFA U.S. Small Cap Fund	Source Therapeutics, Inc.	12/31/2024		Equity	6,361	36	0.000%
JNLDOFA U.S. Small Cap Fund	Global Water Resources, Inc.			Equity	870	10,953	0.002%
JNLDOFA U.S. Small Cap Fund	Spectrum Pharmaceuticals, Inc.	12/31/2024		Equity	30,281	0	0.000%
JNLDOFA U.S. Small Cap Fund	Bank7 Corp.			Equity	310	11,690	0.002%
JNLDOFA U.S. Small Cap Fund	Blade Urban Air Mobility, Inc.			Equity	17,496	51,438	0.008%
JNLDOFA U.S. Small Cap Fund	Xponential Fitness Inc.			Equity	2,955	36,642	0.006%
JNLDOFA U.S. Small Cap Fund	Chinook Therapeutics, Inc.	12/30/2024		Equity	10,992	13,740	0.002%
JNLDOFA U.S. Small Cap Fund	Howard Hughes Holdings Inc.			Equity	8,143	630,512	0.099%
JNLDOFA U.S. Small Cap Fund	Enfusion, Inc.			Equity	12,418	117,847	0.018%
JNLDOFA U.S. Small Cap Fund	Backblaze Inc.			Equity	2,825	18,052	0.003%
JNLDOFA U.S. Small Cap Fund	Seadrill Limited			Equity	9,966	396,049	0.062%
JNLDOFA U.S. Small Cap Fund	Leveone, Inc.			Equity	2,642	2,507	0.000%
JNLDOFA U.S. Small Cap Fund	Podcastone, Inc.			Equity	126	1,000	0.000%
JNLDOFA U.S. Small Cap Fund	Lifeway Foods, Inc.			Equity	2,592	67,185	0.011%
JNLDOFA U.S. Small Cap Fund	enCore Energy Corp.			Equity	6,397	25,844	0.004%
JNLDOFA U.S. Small Cap Fund	HilleVax, Inc.			Equity	8,233	14,490	0.002%
JNLDOFA U.S. Small Cap Fund	Ahaas, Inc.			Equity	8,798	108,363	0.017%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDAU.U.S. Small Cap Fund	Vestis Corporation		13.948	Equity	13,948	208.313	0.033%
JNLDAU.U.S. Small Cap Fund	Soho House & Co Inc.			Equity	6,231	31.778	0.005%
JNLDAU.U.S. Small Cap Fund	Paragon 28, Inc.			Equity	2,738	18,290	0.003%
JNLDAU.U.S. Small Cap Fund	Semrush Holdings, Inc.			Equity	12,630	198,417	0.031%
JNLDAU.U.S. Small Cap Fund	NCR Atlas Corporation			Equity	11,592	330,720	0.052%
JNLDAU.U.S. Small Cap Fund	Virco Mfg. Corporation			Equity	3,818	52,822	0.008%
JNLDAU.U.S. Small Cap Fund	Vera Therapeutics, Inc.			Equity	1,394	61,615	0.010%
JNLDAU.U.S. Small Cap Fund	Ranger Energy Services, Inc.			Equity	5,657	67,375	0.011%
JNLDAU.U.S. Small Cap Fund	Aris Water Solutions, Inc.			Equity	5,262	88,770	0.014%
JNLDAU.U.S. Small Cap Fund	FTAI Infrastructure Inc.			Equity	19,092	178,701	0.028%
JNLDAU.U.S. Small Cap Fund	Liberty Global Ltd.			Equity	16,953	366,354	0.057%
JNLDAU.U.S. Small Cap Fund	Liberty Global Ltd.			Equity	15,272	322,392	0.050%
JNLDAU.U.S. Small Cap Fund	Armo, Inc.			Equity	24,759	35,405	0.006%
JNLDAU.U.S. Small Cap Fund	Worthington Steel, Inc.			Equity	9,020	39,770	0.048%
JNLDAU.U.S. Small Cap Fund	Diebold Nixdorf, Incorporated			Equity	4,161	185,830	0.029%
JNLDAU.U.S. Small Cap Fund	Northeast Community Bancorp. Inc.			Equity	2,600	68,770	0.011%
JNLDAU.U.S. Small Cap Fund	Landsea Homes Corporation			Equity	6,645	82,066	0.013%
JNLDAU.U.S. Small Cap Fund	Opal Fuels Inc.			Equity	1,900	6,925	0.001%
JNLDAU.U.S. Small Cap Fund	Praxis Precision Medicines, Inc.			Equity	1,743	100,292	0.016%
JNLDAU.U.S. Small Cap Fund	Synchronon Technologies, Inc.			Equity	577	8,589	0.001%
JNLDAU.U.S. Small Cap Fund	Nextacker LLC			Equity	9,466	354,786	0.056%
JNLDAU.U.S. Small Cap Fund	Novelion Technologies Inc.			Equity	582	24,182	0.004%
JNLDAU.U.S. Small Cap Fund	Prelude Therapeutics Incorporated			Equity	3,117	6,452	0.001%
JNLDAU.U.S. Small Cap Fund	Cadellor AS			Equity	3,398	95,756	0.015%
JNLDAU.U.S. Small Cap Fund	Custom Truck One Source, Inc.			Equity	19,055	65,740	0.010%
JNLDAU.U.S. Small Cap Fund	Inozyme Pharma, Inc.			Equity	8,534	44,633	0.007%
JNLDAU.U.S. Small Cap Fund	Perimeter Solutions			Equity	8,933	19,149	0.019%
JNLDAU.U.S. Small Cap Fund	Leap Therapeutics, Inc.			Equity	2,749	7,065	0.001%
JNLDAU.U.S. Small Cap Fund	Lazard, Inc.			Equity	7,486	377,145	0.059%
JNLDAU.U.S. Small Cap Fund	Fluence Energy, Inc.			Equity	14,205	322,596	0.050%
JNLDAU.U.S. Small Cap Fund	Wirewolf Therapeutics, Inc.			Equity	4,927	19,445	0.002%
JNLDAU.U.S. Small Cap Fund	Acadrium Lithium PLC			Equity	66,906	100,682	0.030%
JNLDAU.U.S. Small Cap Fund	Bristol-Myers Squibb Company	12/30/2030		Equity	7,675	368	0.000%
JNLDAU.U.S. Small Cap Fund	Reservoir Media Management, Inc.			Equity	4,443	36,033	0.006%
JNLDAU.U.S. Small Cap Fund	Sera Prognostics, Inc.			Equity	3,288	25,646	0.004%
JNLDAU.U.S. Small Cap Fund	Dole Public Limited Company			Equity	1,750	28,648	0.004%
JNLDAU.U.S. Small Cap Fund	Janux Therapeutics, Inc.			Equity	1,200	54,518	0.009%
JNLDAU.U.S. Small Cap Fund	Fundamental Global Inc.			Equity	2,400	2,520	0.000%
JNLDAU.U.S. Small Cap Fund	Atlas Energy Solutions Inc.			Equity	338	7,368	0.001%
JNLDAU.U.S. Small Cap Fund	Affimed N.V.			Equity	575	1,932	0.000%
JNLDAU.U.S. Small Cap Fund	Adverum Biotechnologies, Inc.			Equity	2,256	15,837	0.002%
JNLDAU.U.S. Small Cap Fund	LENZ Therapeutics, Inc.			Equity	1,734	41,165	0.006%
JNLDAU.U.S. Small Cap Fund	Community West Bancshares			Equity	3,884	74,805	0.012%
JNLDAU.U.S. Small Cap Fund	Kinmatc Biopharma Inc.	4/3/2031		Equity	931	43	0.000%
JNLDAU.U.S. Small Cap Fund	Energy Services of America Corporation			Equity	1,280	12,160	0.002%
JNLDAU.U.S. Small Cap Fund	CVRx, Inc.			Equity	3,581	31,549	0.005%
JNLDAU.U.S. Small Cap Fund	Tanox Therapeutics, Inc.			Equity	6,436	49,557	0.008%
JNLDAU.U.S. Small Cap Fund	TScan Therapeutics, Inc.			Equity	3,238	16,125	0.003%
JNLDAU.U.S. Small Cap Fund	Nicholas Financial, Inc.			Equity	1,880	11,938	0.002%
JNLDAU.U.S. Small Cap Fund	ATMUS Filtration Technologies Inc.			Equity	7,693	288,718	0.045%
JNLDAU.U.S. Small Cap Fund	Burke & Herbert Financial Services Corp.			Equity	1,882	114,783	0.018%
JNLDAU.U.S. Small Cap Fund	Skyward Specialty Insurance Group, Inc.			Equity	5,022	204,546	0.032%
JNLDAU.U.S. Small Cap Fund	Korika Pharmaceuticals International, PLC			Equity	1,547	188,600	0.030%
JNLDAU.U.S. Small Cap Fund	Six Flags Entertainment Corporation			Equity	8,154	328,688	0.051%
JNLDAU.U.S. Small Cap Fund	American Well Corporation			Equity	1,714	16,249	0.003%
JNLDAU.U.S. Small Cap Fund	New York Community Bancorp. Inc.			Equity	2,570	28,861	0.005%
JNLDAU.U.S. Small Cap Fund	Quint Home Medical Corp.			Equity	5,656	16,516	0.003%
JNLDAU.U.S. Small Cap Fund	Jesper Therapeutics, Inc.			Equity	2,540	47,777	0.007%
JNLDAU.U.S. Small Cap Fund	Viridian Therapeutics, Inc.			Equity	2,378	54,100	0.008%
JNLDAU.U.S. Small Cap Fund	Granite Ridge Resources, Inc.			Equity	7,286	43,279	0.007%
JNLDAU.U.S. Small Cap Fund	Inovo Pharmaceuticals, Inc.			Equity	4,833	27,935	0.004%
JNLDAU.U.S. Small Cap Fund	Kinsman Scientific Corporation			Equity	434	14,448	0.002%
JNLDAU.U.S. Small Cap Fund	Hippo Holdings Inc.			Equity	971	16,390	0.003%
JNLDAU.U.S. Small Cap Fund	USCB Financial Holdings, Inc.			Equity	561	8,555	0.001%
JNLDAU.U.S. Small Cap Fund	Tectonic Therapeutic, Inc.			Equity	71	2,151	0.000%
JNLDAU.U.S. Small Cap Fund	Orange County Bancorp. Inc.			Equity	205	12,368	0.002%
JNLDAU.U.S. Small Cap Fund	Seaport Entertainment Group Inc.			Equity	904	9,788	0.004%
JNLDAU.U.S. Small Cap Fund	Fidelity D&D Bancorp., Inc.			Equity	214	10,559	0.002%
JNLDAU.U.S. Small Cap Fund	Cipher Mining Inc.			Equity	5,531	21,405	0.003%
JNLDAU.U.S. Small Cap Fund	Albitris, Inc.			Equity	275	3,245	0.001%
JNLDAU.U.S. Small Cap Fund	Innovex International, Inc.			Equity	7,750	113,770	0.018%
JNLDAU.U.S. Small Cap Fund	Seaport Entertainment Group Inc.	10/10/2024		Equity	904	2,509	0.000%
Total Non Derivatives						638,984,330	
Derivatives							
Total Derivatives						0	
Total All Investments						638,984,330	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDoubleLine® Core Fixed Income Fund	Cash			Cash Equivalent	10,633,522	10,633,522	0.361%
JNLDoubleLine® Core Fixed Income Fund	PRPM, LLC	10/25/2025	2.61	Fixed Income	2,717,177	2,798,075	0.095%
JNLDoubleLine® Core Fixed Income Fund	Trinity Real Lending 2018 LLC	10/17/2050	1.96	Fixed Income	1,960,207	1,829,323	0.062%
JNLDoubleLine® Core Fixed Income Fund	United Natural Foods, Inc.	10/15/2028	6.75	Fixed Income	467,000	467,841	0.016%
JNLDoubleLine® Core Fixed Income Fund	Banco Do Brasil SA	11/21/2030	8.75	Fixed Income	1,680,000	1,680,913	0.057%
JNLDoubleLine® Core Fixed Income Fund	Avaton Capital	10/31/2025	8.25	Fixed Income	331,075	318,970	0.011%
JNLDoubleLine® Core Fixed Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	72,678,331	72,935,010	2.477%
JNLDoubleLine® Core Fixed Income Fund	Oversea-Chinese Banking Corporation Limited	9/10/2030	1.83	Fixed Income	1,100,000	1,068,199	0.036%
JNLDoubleLine® Core Fixed Income Fund	Academy, Ltd.	11/15/2027	6.00	Fixed Income	420,000	430,702	0.015%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	10/31/2027	0.50	Fixed Income	710,000	748,140	0.025%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.00	Fixed Income	6,722,561	5,606,014	0.190%
JNLDoubleLine® Core Fixed Income Fund	VR Funding LLC	11/15/2027	2.79	Fixed Income	2,272,986	2,108,169	0.072%
JNLDoubleLine® Core Fixed Income Fund	CNT Holdings I Corp	10/18/2027	8.75	Fixed Income	387,387	393,833	0.013%
JNLDoubleLine® Core Fixed Income Fund	TAU Ibanco Holding SA	11/1/2030	4.63	Fixed Income	900,000	890,460	0.030%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	11/15/2030	0.88	Fixed Income	153,020,000	130,740,109	4.440%
JNLDoubleLine® Core Fixed Income Fund	NRG Energy, Inc.	12/2/2025	2.00	Fixed Income	1,410,000	1,370,116	0.047%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	11/15/2040	1.38	Fixed Income	950,000	649,301	0.022%
JNLDoubleLine® Core Fixed Income Fund	Frontier Communications Parent, Inc.	5/1/2028	5.00	Fixed Income	260,000	263,153	0.009%
JNLDoubleLine® Core Fixed Income Fund	Upstart Pass-Through Trust	2/20/2027	2.75	Fixed Income	201,582	197,510	0.007%
JNLDoubleLine® Core Fixed Income Fund	Empresa Electrica Cochane SpA	5/14/2027	5.50	Fixed Income	400,580	406,854	0.014%
JNLDoubleLine® Core Fixed Income Fund	PBF Holding Company LLC	2/15/2028	6.00	Fixed Income	220,000	219,028	0.007%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	11/30/2027	0.63	Fixed Income	710,000	649,144	0.022%
JNLDoubleLine® Core Fixed Income Fund	Service Properties Trust	12/15/2027	5.50	Fixed Income	115,000	111,417	0.004%
JNLDoubleLine® Core Fixed Income Fund	CNX Resources Corporation	1/15/2029	6.00	Fixed Income	330,000	336,014	0.011%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	11/30/2025	0.38	Fixed Income	790,000	759,766	0.026%
JNLDoubleLine® Core Fixed Income Fund	Banco Internacional Del Peru S.A.A. - Interbank	7/8/2030	4.00	Fixed Income	2,050,000	2,039,160	0.069%
JNLDoubleLine® Core Fixed Income Fund	AssuredPartners, Inc.	1/15/2029	5.63	Fixed Income	400,000	390,221	0.013%
JNLDoubleLine® Core Fixed Income Fund	Assembleia da Republica	10/18/2030	0.48	Fixed Income	400,000	402,221	0.014%
JNLDoubleLine® Core Fixed Income Fund	Gouvernement De France	5/25/2031	1.50	Fixed Income	400,000	418,144	0.014%
JNLDoubleLine® Core Fixed Income Fund	SG Commercial Mortgage Securities Trust 2016-C5	6/12/2026	3.93	Fixed Income	2,391,000	2,224,463	0.076%
JNLDoubleLine® Core Fixed Income Fund	Banco de Credito del Peru	7/1/2030	5.88	Fixed Income	750,000	738,916	0.026%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2018-B2 Mortgage Trust	2/17/2028	4.42	Fixed Income	1,997,000	1,721,167	0.058%
JNLDoubleLine® Core Fixed Income Fund	GrafTech Finance Inc.	12/15/2028	4.63	Fixed Income	200,000	136,600	0.005%
JNLDoubleLine® Core Fixed Income Fund	IBM Acquisition, LLC	11/15/2029	6.25	Fixed Income	290,000	278,238	0.009%
JNLDoubleLine® Core Fixed Income Fund	Envi Power Peru S.A.	8/20/2027	4.32	Fixed Income	386,471	347,160	0.012%
JNLDoubleLine® Core Fixed Income Fund	Community Health Systems, Inc.	1/15/2029	6.00	Fixed Income	285,000	280,207	0.010%
JNLDoubleLine® Core Fixed Income Fund	Adam International Container Terminal Private Limited	2/16/2031	3.00	Fixed Income	496,000	438,337	0.015%
JNLDoubleLine® Core Fixed Income Fund	Bioceanico Sovereign Certificate Limited	6/5/2034	5.75	Fixed Income	1,058,131	827,479	0.028%
JNLDoubleLine® Core Fixed Income Fund	NCL Corporation Ltd	3/15/2027	5.88	Fixed Income	165,000	166,303	0.006%
JNLDoubleLine® Core Fixed Income Fund	Townsquare Media, Inc.	2/1/2026	6.88	Fixed Income	415,000	419,174	0.014%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Commercial Mortgage Trust 2020-C55	2/15/2030	3.14	Fixed Income	1,034,000	918,700	0.031%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	12/31/2027	0.63	Fixed Income	560,000	510,660	0.017%
JNLDoubleLine® Core Fixed Income Fund	Commonwealth of Australia	12/21/2030	1.00	Fixed Income	610,000	588,117	0.020%
JNLDoubleLine® Core Fixed Income Fund	New Zealand Parliament	5/15/2031	1.50	Fixed Income	1,840,000	1,005,999	0.034%
JNLDoubleLine® Core Fixed Income Fund	USQ Rail I LLC	2/28/2051	2.25	Fixed Income	1,946,605	1,781,376	0.060%
JNLDoubleLine® Core Fixed Income Fund	Community Health Systems, Inc.	4/15/2029	6.88	Fixed Income	130,000	121,865	0.004%
JNLDoubleLine® Core Fixed Income Fund	Castleside Aircraft Structured Trust 2021-1	11/1/2028	3.47	Fixed Income	2,371,339	2,385,878	0.077%
JNLDoubleLine® Core Fixed Income Fund	VOLT XCOL LLC	2/27/2051	4.89	Fixed Income	385,419	383,537	0.013%
JNLDoubleLine® Core Fixed Income Fund	Exeter Automobile Receivables Trust 2021-1	11/16/2026	1.08	Fixed Income	1,052,179	1,036,650	0.035%
JNLDoubleLine® Core Fixed Income Fund	Exeter Automobile Receivables Trust 2021-1	2/15/2028	2.21	Fixed Income	2,850,000	2,776,579	0.094%
JNLDoubleLine® Core Fixed Income Fund	Hardens Funding LLC	6/20/2028	5.71	Fixed Income	4,700,000	4,611,369	0.157%
JNLDoubleLine® Core Fixed Income Fund	Octagon Investment Partners 30, Ltd.	3/18/2030	8.84	Fixed Income	2,500,000	2,540,137	0.087%
JNLDoubleLine® Core Fixed Income Fund	TIF Funding II LLC	2/20/2046	1.65	Fixed Income	3,537,500	3,172,382	0.108%
JNLDoubleLine® Core Fixed Income Fund	Aethon United BR LP	2/15/2026	8.25	Fixed Income	305,000	311,926	0.011%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	1/31/2028	0.75	Fixed Income	57,140,000	52,176,739	1.726%
JNLDoubleLine® Core Fixed Income Fund	Community Health Systems, Inc.	2/15/2031	4.75	Fixed Income	330,000	328,008	0.010%
JNLDoubleLine® Core Fixed Income Fund	Chile Electricity PEC SpA	1/25/2028	7.88	Fixed Income	1,729,168	1,420,712	0.048%
JNLDoubleLine® Core Fixed Income Fund	PetSmart, LLC	2/15/2028	4.75	Fixed Income	830,000	800,735	0.027%
JNLDoubleLine® Core Fixed Income Fund	PetSmart, LLC	2/15/2029	7.75	Fixed Income	500,000	488,162	0.017%
JNLDoubleLine® Core Fixed Income Fund	Alexandria Real Estate Equities, Inc.	9/18/2051	5.88	Fixed Income	1,988,000	1,347,330	0.046%
JNLDoubleLine® Core Fixed Income Fund	UFC Holdings, LLC	4/29/2026	8.29	Fixed Income	368,664	374,501	0.013%
JNLDoubleLine® Core Fixed Income Fund	LSFP Atlantes Holdings, LLC	2/15/2026	7.75	Fixed Income	795,000	809,025	0.027%
JNLDoubleLine® Core Fixed Income Fund	Pull House Resorts, Inc.	2/15/2028	8.25	Fixed Income	280,000	283,241	0.010%
JNLDoubleLine® Core Fixed Income Fund	First Advantage Holdings, LLC	3/31/2027	8.11	Fixed Income	436,396	436,303	0.015%
JNLDoubleLine® Core Fixed Income Fund	PennyMac Financial Services, Inc.	2/15/2029	4.25	Fixed Income	280,000	266,798	0.009%
JNLDoubleLine® Core Fixed Income Fund	Galaxy XVII CLO Ltd	7/15/2031	6.56	Fixed Income	1,000,000	1,018,668	0.035%
JNLDoubleLine® Core Fixed Income Fund	CMG Media Corporation	12/17/2026	8.93	Fixed Income	129,471	110,185	0.004%
JNLDoubleLine® Core Fixed Income Fund	Centene Corporation	3/12/2031	2.50	Fixed Income	3,172,000	3,205,685	0.113%
JNLDoubleLine® Core Fixed Income Fund	Progress Residential 2021-SFR1 Trust	3/19/2026	2.76	Fixed Income	6,600,000	6,279,276	0.213%
JNLDoubleLine® Core Fixed Income Fund	United Overseas Bank Limited	1/30/2031	1.75	Fixed Income	1,300,000	1,243,860	0.042%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	2/15/2041	1.88	Fixed Income	106,400,000	78,259,296	2.657%
JNLDoubleLine® Core Fixed Income Fund	AltaPartners, LLP	3/4/2028	5.88	Fixed Income	592,346	595,765	0.020%
JNLDoubleLine® Core Fixed Income Fund	Aseuron LLC	2/5/2028	10.61	Fixed Income	100,000	93,510	0.003%
JNLDoubleLine® Core Fixed Income Fund	Octagon Investment Partners XXI, Ltd.	2/14/2031	8.13	Fixed Income	500,000	505,443	0.017%
JNLDoubleLine® Core Fixed Income Fund	Aseuron LLC	2/5/2028	8.61	Fixed Income	617,008	607,987	0.021%
JNLDoubleLine® Core Fixed Income Fund	Upbound Group, Inc.	2/15/2029	6.38	Fixed Income	170,388	145,368	0.005%
JNLDoubleLine® Core Fixed Income Fund	Logic Technologies Bidco Limited	12/31/2024	9.48	Fixed Income	314,708	313,217	0.011%
JNLDoubleLine® Core Fixed Income Fund	PetSmart, Inc.	12/31/2024	9.10	Fixed Income	808,333	800,591	0.027%
JNLDoubleLine® Core Fixed Income Fund	DCent Buyer, Inc.	2/16/2029	12.25	Fixed Income	111,046	94,744	0.003%
JNLDoubleLine® Core Fixed Income Fund	FEL Energy V5 S.a.r.l.	12/1/2040	9.75	Fixed Income	350,671	340,297	0.012%
JNLDoubleLine® Core Fixed Income Fund	Clidrop Mortgage Loan Trust 2021-3L1	2/25/2066	2.75	Fixed Income	578,373	549,284	0.019%
JNLDoubleLine® Core Fixed Income Fund	Endure Digital Inc.	1/27/2028	8.81	Fixed Income	317,091	281,198	0.010%
JNLDoubleLine® Core Fixed Income Fund	Thayer Park CLO, Ltd.	4/20/2034	8.34	Fixed Income	1,000,000	1,013,737	0.034%
JNLDoubleLine® Core Fixed Income Fund	Catalent Pharma Solutions Inc.	5/18/2026	7.03	Fixed Income	1,107,759	1,108,106	0.038%
JNLDoubleLine® Core Fixed Income Fund	Macy's Retail Holdings	4/1/2029	5.88	Fixed Income	1,200,000	1,201,380	0.040%
JNLDoubleLine® Core Fixed Income Fund	Neuberger Berman CLO XVI-S Ltd.	4/17/2034	8.46	Fixed Income	2,008,000	2,038,719	0.069%
JNLDoubleLine® Core Fixed Income Fund	Consolidated Communications, Inc.	10/1/2028	5.00	Fixed Income	430,000	405,950	0.014%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	21,879,942	18,403,175	0.625%
JNLDoubleLine® Core Fixed Income Fund	Symphony CLO XVI, Ltd.	10/15/2031	1.00	Fixed Income	1,000,000	1,010,150	0.034%
JNLDoubleLine® Core Fixed Income Fund	Sasol Financing USA LLC	9/18/2026	4.38	Fixed Income	200,000	194,535	0.007%
JNLDoubleLine® Core Fixed Income Fund	TricoBraun Holdings, Inc.	1/29/2028	8.61	Fixed Income	383,911	376,178	0.013%
JNLDoubleLine® Core Fixed Income Fund	Spin Holdings Inc.	2/26/2028	9.26	Fixed Income	167,190	146,812	0.005%
JNLDoubleLine® Core Fixed Income Fund	Trilon Water Holdings Incorporated	4/1/2029	6.25	Fixed Income	315,000	314,389	0.011%
JNLDoubleLine® Core Fixed Income Fund	Oak Hill Credit Partners X-R Ltd.	4/20/2034	8.59	Fixed Income	2,000,000	2,039,780	0.069%
JNLDoubleLine® Core Fixed Income Fund	Dryden 43 Senior Loan Fund LLC	4/20/2034	6.79	Fixed Income	1,000,000	1,018,514	0.035%
JNLDoubleLine® Core Fixed Income Fund	VOLT XCOL LLC	4/25/2051	5.24	Fixed Income	389,183	388,587	0.013%
JNLDoubleLine® Core Fixed Income Fund	Constant Contact Inc.	12/31/2024	9.57	Fixed Income	493,212	413,738	0.014%
JNLDoubleLine® Core Fixed Income Fund	Klockner-Pentaplast of America, Inc.	2/4/2026	9.72	Fixed Income	202,889	191,268	0.006%
JNLDoubleLine® Core Fixed Income Fund	Canyon Capital CLO 2021-2 Ltd.	4/17/2034	8.66	Fixed Income	1,000,000	1,019,760	0.035%
JNLDoubleLine® Core Fixed Income Fund	Lions Gate Capital Holdings LLC	4/15/2029	5.50	Fixed Income	65,000	49,267	0.002%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	5/1/2026	0.75	Fixed Income	38,000,000	36,344,218	1.248%
JNLDoubleLine® Core Fixed Income Fund	TRTX 2021-FLA Issuer, Ltd.	3/17/2038	6.40	Fixed Income	1,748,854	1,737,958	0.059%
JNLDoubleLine® Core Fixed Income Fund	Government of the Republic of Panama	4/29/2053	4.30	Fixed Income	700,000	508,872	0.017%
JNLDoubleLine® Core Fixed Income Fund	UBS Commercial Mortgage Trust 2017-C7	1/18/2028	4.29	Fixed Income	2,000,000	1,861,437	0.063%
JNLDoubleLine® Core Fixed Income Fund	Commonwealth of Australia	6/21/2031	1.50	Fixed Income	1,670,000	1,602,042	0.049%
JNLDoubleLine® Core Fixed Income Fund	Versus Securitization Trust 2021-R2	2/25/2066	2.24	Fixed Income	3,017,000	2,586,443	0.088%
JNLDoubleLine® Core Fixed Income Fund	Broadcom Inc.	4/15/2033	3.42	Fixed Income	3,264,000	3,020,492	0.103%
JNLDoubleLine® Core Fixed Income Fund	American Airlines, Inc.	3/10/2028	10.29	Fixed Income	318,750	333,853	0.011%
JNLDoubleLine® Core Fixed Income Fund	Trilon Water Holdings, Inc.	3/16/2028	8.85	Fixed Income	2,013,850	2,009,983	0.068%
JNLDoubleLine® Core Fixed Income Fund	DG Investment Intermediate Holdings 2, Inc.	3/18/2029	12.11	Fixed Income	80,000	74,652	0.003%
JNLDoubleLine® Core Fixed Income Fund	TMS International Corp.	4/15/2029	6.25	Fixed Income	220,000	215,636	0.007%
JNLDoubleLine® Core Fixed Income Fund	DG Investment Intermediate Holdings 2, Inc.	12/31/2024	9.11	Fixed Income	458,281	456,389	0.015%
JNLDoubleLine® Core Fixed Income Fund	Renaissance Home Equity Loan Trust 2006-3	8/25/2036	5.80	Fixed Income	1,963,120	750,499	0.025%
JNLDoubleLine® Core Fixed Income Fund	Wash Multifamily Acquisition Inc.	4/15/2026	5.75	Fixed Income	425,000	434,238	0.015%
JNLDoubleLine® Core Fixed Income Fund	Progress Residential 2021-SFR3 Trust	5/19/2026	2.54	Fixed Income	12,000,000	11,387,318	0.387%
JNLDoubleLine® Core Fixed Income Fund	First Horizon Alternative Mortgage Securities Trust 2007-FA4	8/25/2037	6.25	Fixed Income	8,080,639	3,052,830	0.104%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	8,391,182	6,981,761	0.237%
JNLDoubleLine® Core Fixed Income Fund	Magic Mergerco, Inc.	5/1/2026	5.25	Fixed Income	295,000	154,900	0.005%
JNLDoubleLine® Core Fixed Income Fund	Magic Mergerco, Inc.	5/1/2029	7.88	Fixed Income	165,000	102,381	0.003%
JNLDoubleLine® Core Fixed Income Fund	Midwest Gaming Borrower, LLC	5/1/2029	4.88	Fixed Income	405,000	396,453	0.013%
JNLDoubleLine® Core Fixed Income Fund	Park Place Securities, Inc.	7/25/2035	5.94	Fixed Income	5,000,000	4,305,962	0.146%
JNLDoubleLine® Core Fixed Income Fund	Tech America Corp	12/31/2024	9.36	Fixed Income	300,614	293,757	0.010%
JNLDoubleLine® Core Fixed Income Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	4.63	Fixed Income	580,000	572,775	0.019%
JNLDoubleLine® Core Fixed Income Fund	JPMorgan Chase & Co.	4/22/2032	2.58	Fixed Income	2,309,000	2,083,783	0.071%
JNLDoubleLine® Core Fixed Income Fund	Banco Davivienda S A	1/1/2020	6.65	Fixed Income	650,000	574,453	0.020%
JNLDoubleLine® Core Fixed Income Fund	Coy Inc.	4/15/2028	5.00	Fixed Income	405,000	412,738	0.014%
JNLDoubleLine® Core Fixed Income Fund	HighTower Holdings LLC	4/15/2029	6.75	Fixed Income	315,000	311,176	0.011%
JNLDoubleLine® Core Fixed Income Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Frontier Communications Holdings, LLC	11/1/2029	5.88	Fixed Income	479,026	487,470	0.017%
JNLDoubleLine® Core Fixed Income Fund	Weir Group PLC (T)HE	5/13/2026	2.30	Fixed Income	4,552,000	4,414,258	0.150%
JNLDoubleLine® Core Fixed Income Fund	Banco do Estado do Rio Grande do Sul S/A	1/28/2031	5.38	Fixed Income	600,000	594,101	0.020%
JNLDoubleLine® Core Fixed Income Fund	PT Pertamina (Persero)	2/9/2026	1.40	Fixed Income	1,000,000	958,534	0.033%
JNLDoubleLine® Core Fixed Income Fund	Acuris Finance US, Inc.	5/1/2028	5.00	Fixed Income	475,000	444,605	0.015%
JNLDoubleLine® Core Fixed Income Fund	DBS Group Holdings Ltd	3/10/2031	1.82	Fixed Income	1,200,000	1,153,869	0.039%
JNLDoubleLine® Core Fixed Income Fund	Univision Communications Inc.	5/1/2029	4.50	Fixed Income	325,000	326,411	0.010%
JNLDoubleLine® Core Fixed Income Fund	JSW Hydro Energy Limited	5/18/2031	4.13	Fixed Income	380,000	352,801	0.012%
JNLDoubleLine® Core Fixed Income Fund	Suburban Propane Partners, L.P.	6/1/2031	5.00	Fixed Income	290,000	275,126	0.009%
JNLDoubleLine® Core Fixed Income Fund	Al Cardeneria (Spain), S.L.U	6/15/2033	5.75	Fixed Income	1,000,000	834,628	0.028%
JNLDoubleLine® Core Fixed Income Fund	Wellfleet CLO X, Ltd	7/20/2033	6.71	Fixed Income	1,986,527	2,014,211	0.069%
JNLDoubleLine® Core Fixed Income Fund	Upstart Pass-Through Trust Series 2021-S04	7/20/2027	2.00	Fixed Income	763,033	743,751	0.025%
JNLDoubleLine® Core Fixed Income Fund	HSI Asset Securitization Corporation Trust 2007-NC1	4/25/2037	5.33	Fixed Income	353,783	239,711	0.008%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO X0II	7/17/2034	8.86	Fixed Income	2,000,000	2,003,342	0.068%
JNLDoubleLine® Core Fixed Income Fund	HSBC Holdings PLC	9/12/2026	6.58	Fixed Income	4,433,000	4,266,411	0.152%
JNLDoubleLine® Core Fixed Income Fund	Willis North America Inc.	9/15/2028	4.50	Fixed Income	3,996,000	4,001,103	0.136%
JNLDoubleLine® Core Fixed Income Fund	Clear Channel Outdoor Holdings, Inc.	6/1/2029	7.50	Fixed Income	185,000	163,790	0.006%
JNLDoubleLine® Core Fixed Income Fund	Corporation De Securite Garda World	6/1/2029	6.00	Fixed Income	320,000	313,920	0.011%
JNLDoubleLine® Core Fixed Income Fund	National Australia Bank Limited	5/1/2031	2.99	Fixed Income	2,972,000	2,692,968	0.091%
JNLDoubleLine® Core Fixed Income Fund	Pagaya AI Debt Selection Trust	1/25/2029	3.00	Fixed Income	685,915	685,155	0.023%
JNLDoubleLine® Core Fixed Income Fund	Empresas Publicas de Medellin E.S.P.	2/15/2031	4.38	Fixed Income	500,000	443,324	0.015%
JNLDoubleLine® Core Fixed Income Fund	Allied Universal Holdco LLC	5/4/2028	9.10	Fixed Income	757,996	750,439	0.025%
JNLDoubleLine® Core Fixed Income Fund	Adani Ports and Special Economic Zone Limited	7/3/2029	4.38	Fixed Income	800,000	764,979	0.026%
JNLDoubleLine® Core Fixed Income Fund	Cap S.A.	4/27/2031	3.90	Fixed Income	600,000	501,224	0.017%
JNLDoubleLine® Core Fixed Income Fund	XHR LP	6/1/2029	4.88	Fixed Income	740,000	721,353	0.024%
JNLDoubleLine® Core Fixed Income Fund	Canyon CLO 2021-3, Ltd.	7/17/2034	8.61	Fixed Income	1,000,000	1,018,863	0.035%
JNLDoubleLine® Core Fixed Income Fund	UBS Barclay's Commercial Mortgage Trust 2013-CS	3/12/2046	3.94	Fixed Income	2,351,000	2,050,693	0.070%
JNLDoubleLine® Core Fixed Income Fund	Bausch Health Companies Inc.	6/1/2028	4.88	Fixed Income	440,000	351,524	0.012%
JNLDoubleLine® Core Fixed Income Fund	JPMorgan Chase & Co.	6/1/2029	2.07	Fixed Income	2,021,000	1,883,840	0.064%
JNLDoubleLine® Core Fixed Income Fund	Chord Energy Corporation	6/1/2026	6.38	Fixed Income	500,000	511,950	0.017%
JNLDoubleLine® Core Fixed Income Fund	Bsp V Chinae	8/15/2031	5.90	Fixed Income	540,000	526,096	0.018%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	5/31/2026	0.75	Fixed Income	1,350,000	1,298,626	0.044%
JNLDoubleLine® Core Fixed Income Fund	Adani Ports and Special Economic Zone Limited	2/2/2031	3.10	Fixed Income	300,000	255,582	0.009%
JNLDoubleLine® Core Fixed Income Fund	Empresas Publicas de Medellin E.S.P.	7/18/2029	4.25	Fixed Income	1,900,000	1,744,741	0.059%
JNLDoubleLine® Core Fixed Income Fund	Goldman Sachs Group, Inc. The	9/10/2027	5.94	Fixed Income	1,715,000	1,719,898	0.058%
JNLDoubleLine® Core Fixed Income Fund	CVR Partners, LP	5/15/2028	2.13	Fixed Income	1,000,000	1,099,936	0.037%
JNLDoubleLine® Core Fixed Income Fund	SunCoke Energy, Inc.	6/30/2029	4.88	Fixed Income	475,000	437,289	0.015%
JNLDoubleLine® Core Fixed Income Fund	SoFi Consumer Loan Program 2021-1 Trust	5/25/2030	9.72	Fixed Income	712,823	709,437	0.024%
JNLDoubleLine® Core Fixed Income Fund	Tiger Acquisition, LLC	5/21/2028	8.60	Fixed Income	249,837	248,336	0.008%
JNLDoubleLine® Core Fixed Income Fund	Adani International Container Terminal Private Limited	2/16/2031	3.57	Fixed Income	747,000	687,204	0.023%
JNLDoubleLine® Core Fixed Income Fund	Brown Group Holding, LLC	12/31/2024	8.00	Fixed Income	378,975	377,900	0.013%
JNLDoubleLine® Core Fixed Income Fund	Polaris Newco LLC	6/3/2028	9.51	Fixed Income	393,614	392,708	0.013%
JNLDoubleLine® Core Fixed Income Fund	Cruz Energy Egenor S. Enc. Por A.	4/28/2027	5.63	Fixed Income	265,000	266,716	0.009%
JNLDoubleLine® Core Fixed Income Fund	CoreLogic, Inc.	4/14/2028	8.96	Fixed Income	153,854	152,620	0.005%
JNLDoubleLine® Core Fixed Income Fund	Madison IAQ LLC	6/30/2028	4.13	Fixed Income	335,000	327,010	0.011%
JNLDoubleLine® Core Fixed Income Fund	Madison IAQ LLC	6/30/2029	5.88	Fixed Income	585,000	578,734	0.020%
JNLDoubleLine® Core Fixed Income Fund	Madison Park Funding XLV Ltd	7/17/2034	8.71	Fixed Income	1,000,000	1,020,657	0.035%
JNLDoubleLine® Core Fixed Income Fund	Bundesrepublik Deutschland	2/15/2031	2.10	Fixed Income	750,000	739,563	0.025%
JNLDoubleLine® Core Fixed Income Fund	Banco de Credito del Peru	9/30/2031	3.25	Fixed Income	1,250,000	1,183,174	0.040%
JNLDoubleLine® Core Fixed Income Fund	Sun Communities Operating Limited Partnership	2/15/2031	2.70	Fixed Income	2,715,000	2,387,515	0.081%
JNLDoubleLine® Core Fixed Income Fund	Brighthouse Financial, Inc.	6/28/2028	2.00	Fixed Income	1,300,000	1,179,089	0.040%
JNLDoubleLine® Core Fixed Income Fund	Renaissance Home Equity Loan Trust 2006-1	3/25/2036	6.17	Fixed Income	3,373,841	3,076,693	0.110%
JNLDoubleLine® Core Fixed Income Fund	SG Residential Mortgage Trust 2021-1	7/25/2061	2.50	Fixed Income	3,258,000	2,175,098	0.074%
JNLDoubleLine® Core Fixed Income Fund	AMSR Trust	8/19/2026	2.48	Fixed Income	3,000,000	2,836,150	0.096%
JNLDoubleLine® Core Fixed Income Fund	AMSR Trust	8/19/2026	2.58	Fixed Income	2,500,000	2,361,673	0.080%
JNLDoubleLine® Core Fixed Income Fund	AMSR Trust	8/19/2026	3.28	Fixed Income	3,000,000	2,834,151	0.095%
JNLDoubleLine® Core Fixed Income Fund	AMSR Trust	8/19/2026	3.67	Fixed Income	2,000,000	1,897,121	0.064%
JNLDoubleLine® Core Fixed Income Fund	Leeward Renewable Energy Operations, LLC	7/1/2029	4.25	Fixed Income	420,000	400,387	0.014%
JNLDoubleLine® Core Fixed Income Fund	Greystone Select Financial LLC	12/31/2024	10.54	Fixed Income	120,000	121,700	0.004%
JNLDoubleLine® Core Fixed Income Fund	PENN Entertainment, Inc.	7/1/2029	4.13	Fixed Income	200,000	184,258	0.006%
JNLDoubleLine® Core Fixed Income Fund	Progress Residential 2021-SFR6 Trust	7/1/2026	2.53	Fixed Income	1,150,000	1,089,936	0.037%
JNLDoubleLine® Core Fixed Income Fund	Progress Residential 2021-SFR6 Trust	7/1/2026	3.42	Fixed Income	2,000,000	1,902,093	0.065%
JNLDoubleLine® Core Fixed Income Fund	Madison IAQ LLC	6/15/2028	7.89	Fixed Income	603,522	611,833	0.021%
JNLDoubleLine® Core Fixed Income Fund	Event Holdings Inc.	7/15/2029	5.00	Fixed Income	625,000	628,958	0.021%
JNLDoubleLine® Core Fixed Income Fund	Morgan Stanley Capital I Trust 2021-L6	7/1/2031	3.57	Fixed Income	747,000	687,204	0.023%
JNLDoubleLine® Core Fixed Income Fund	Gulfport Energy Operating Corporation	7/1/2026	8.00	Fixed Income	219,230	229,267	0.008%
JNLDoubleLine® Core Fixed Income Fund	ADMI Corp.	12/23/2027	9.11	Fixed Income	236,947	231,545	0.008%
JNLDoubleLine® Core Fixed Income Fund	Chemiere Energy, Inc.	10/15/2028	4.63	Fixed Income	2,280,000	2,306,928	0.078%
JNLDoubleLine® Core Fixed Income Fund	Seapac Corporation	8/1/2029	8.96	Fixed Income	136,000	131,116	0.005%
JNLDoubleLine® Core Fixed Income Fund	Starwood Mortgage Residential Trust 2019-INV1	9/25/2049	3.06	Fixed Income	6,721,000	6,298,800	0.214%
JNLDoubleLine® Core Fixed Income Fund	AnWINS Group, Inc.	6/30/2029	4.88	Fixed Income	360,000	349,996	0.012%
JNLDoubleLine® Core Fixed Income Fund	NBC Funding LLC	7/30/2026	2.99	Fixed Income	4,196,875	4,004,306	0.136%
JNLDoubleLine® Core Fixed Income Fund	MVC Acquisition Corp.	8/1/2028	5.75	Fixed Income	280,000	279,367	0.009%
JNLDoubleLine® Core Fixed Income Fund	APX Group, Inc.	7/1/2028	8.30	Fixed Income	522,109	529,885	0.018%
JNLDoubleLine® Core Fixed Income Fund	DIRECTV Financing, LLC	8/15/2027	5.88	Fixed Income	450,000	444,620	0.015%
JNLDoubleLine® Core Fixed Income Fund	Acursure, LLC	6/1/2029	6.00	Fixed Income	170,000	165,678	0.006%
JNLDoubleLine® Core Fixed Income Fund	Greystone CRE Notes 2021-FL3, Ltd.	5/15/2039	4.13	Fixed Income	2,131,761	2,129,692	0.072%
JNLDoubleLine® Core Fixed Income Fund	CCO Holdings, LLC	11/15/2034	4.25	Fixed Income	215,000	178,485	0.006%
JNLDoubleLine® Core Fixed Income Fund	U.S. Auto Funding Trust 2021-1	5/15/2026	2.20	Fixed Income	3,182,009	3,117,678	0.106%
JNLDoubleLine® Core Fixed Income Fund	Al Aqua Merger Sub, Inc.	6/1/2028	10.70	Fixed Income	654,718	658,159	0.022%
JNLDoubleLine® Core Fixed Income Fund	DirectTV Financing, LLC	7/22/2027	8.36	Fixed Income	214,379	214,278	0.007%
JNLDoubleLine® Core Fixed Income Fund	Event Holdings Inc.	12/31/2027	7.86	Fixed Income	149,863	150,165	0.005%
JNLDoubleLine® Core Fixed Income Fund	Sabre GBLB, Inc.	12/17/2027	8.86	Fixed Income	64,099	59,681	0.002%
JNLDoubleLine® Core Fixed Income Fund	Sabre GBLB, Inc.	12/17/2027	8.86	Fixed Income	40,795	37,984	0.001%
JNLDoubleLine® Core Fixed Income Fund	Premier Entertainment Sub, LLC	7/1/2029	5.63	Fixed Income	145,000	109,548	0.004%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO XXXI Ltd	10/25/2034	8.80	Fixed Income	1,092,615	1,092,615	0.034%
JNLDoubleLine® Core Fixed Income Fund	Asurion LLC	11/15/2029	10.61	Fixed Income	200,000	184,495	0.006%
JNLDoubleLine® Core Fixed Income Fund	Uber Technologies, Inc.	8/15/2029	4.50	Fixed Income	2,506,000	2,495,750	0.085%
JNLDoubleLine® Core Fixed Income Fund	Aveanna Healthcare, LLC	12/31/2024	8.91	Fixed Income	315,518	310,185	0.011%
JNLDoubleLine® Core Fixed Income Fund	ModivCare Inc.	10/1/2029	8.00	Fixed Income	80,000	52,204	0.002%
JNLDoubleLine® Core Fixed Income Fund	Commscope, LLC.	9/1/2029	4.75	Fixed Income	160,000	129,039	0.004%
JNLDoubleLine® Core Fixed Income Fund	W. R. Grace Holdings LLC	8/15/2029	5.63	Fixed Income	570,000	539,474	0.018%
JNLDoubleLine® Core Fixed Income Fund	Royal Caribbean Cruises Ltd.	8/31/2026	5.50	Fixed Income	525,000	532,624	0.018%
JNLDoubleLine® Core Fixed Income Fund	Signal Rail LLC	8/18/2051	2.23	Fixed Income	1,765,940	1,612,068	0.054%
JNLDoubleLine® Core Fixed Income Fund	AdiaHealth LLC	3/1/2030	5.13	Fixed Income	925,000	249,172	0.008%
JNLDoubleLine® Core Fixed Income Fund	American Aie & Manufacturing, Inc.	10/1/2029	5.00	Fixed Income	210,000	197,513	0.007%
JNLDoubleLine® Core Fixed Income Fund	CFI Funding 2019-II Ltd	10/16/2034	8.60	Fixed Income	500,000	511,099	0.017%
JNLDoubleLine® Core Fixed Income Fund	MARBLE POINT CLO XXII Ltd	10/17/2034	9.05	Fixed Income	2,000,000	2,041,700	0.069%
JNLDoubleLine® Core Fixed Income Fund	Viad Corp	12/31/2024	9.50	Fixed Income	148,152	148,006	0.005%
JNLDoubleLine® Core Fixed Income Fund	Clarivate Science Holdings Corporation	7/1/2029	4.88	Fixed Income	230,000	224,195	0.008%
JNLDoubleLine® Core Fixed Income Fund	Canyon CLO 2021-4 Ltd	10/16/2034	11.86	Fixed Income	1,000,000	1,029,100	0.035%
JNLDoubleLine® Core Fixed Income Fund	VCAI 2021-NPL4, LLC	8/25/2051	1.87	Fixed Income	451,859	450,469	0.015%
JNLDoubleLine® Core Fixed Income Fund	DISH DBS Corporation	6/1/2029	5.13	Fixed Income	285,000	195,938	0.007%
JNLDoubleLine® Core Fixed Income Fund	EAB Global, Inc.	12/31/2024	8.50	Fixed Income	452,725	450,790	0.015%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	8/15/2041	1.75	Fixed Income	61,230,000	43,533,615	1.478%
JNLDoubleLine® Core Fixed Income Fund	AT&T Inc.	8/15/2053	3.50	Fixed Income	6,803,000	4,842,462	0.158%
JNLDoubleLine® Core Fixed Income Fund	Specialty Underwriting & Residential Finance Trust, Series 2007-AB1	3/25/2037	5.38	Fixed Income	5,778,265	3,101,614	0.105%
JNLDoubleLine® Core Fixed Income Fund	Monogram Food Solutions, LLC	12/31/2024	9.36	Fixed Income	294,451	290,111	0.010%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO IX Ltd	7/20/2033	10.04	Fixed Income	1,000,000	973,362	0.033%
JNLDoubleLine® Core Fixed Income Fund	Mannott International, Inc.	10/15/2033	2.75	Fixed Income	2,311,000	2,000,183	0.068%
JNLDoubleLine® Core Fixed Income Fund	Action Woods USA L.L.C.	4/1/2030	4.63	Fixed Income	285,000	280,328	0.010%
JNLDoubleLine® Core Fixed Income Fund	VCAI 2021-NPL5, LLC	8/25/2051	1.87	Fixed Income	1,440,532	1,432,295	0.049%
JNLDoubleLine® Core Fixed Income Fund	LFS Topco LLC	10/15/2026	5.88	Fixed Income	340,000	328,893	0.011%
JNLDoubleLine® Core Fixed Income Fund	Bank of America Corporation	9/21/2036	2.48	Fixed Income	4,977,000	4,210,633	0.143%
JNLDoubleLine® Core Fixed Income Fund	Aviation Capital Group LLC	9/20/2026	1.95	Fixed Income	3,358,000	3,184,549	0.108%
JNLDoubleLine® Core Fixed Income Fund	CNX Midstream Partners LP	4/15/2030	4.75	Fixed Income	470,000	449,442	0.015%
JNLDoubleLine® Core Fixed Income Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	1/18/2033	5.13	Fixed Income	1,300,000	1,249,712	0.042%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.50	Fixed Income	7,092,783	6,233,514	0.212%
JNLDoubleLine® Core Fixed Income Fund	Upstart Securitization Trust 2021-4	9/20/2031	1.84	Fixed Income	1,056,429	1,049,895	0.036%
JNLDoubleLine® Core Fixed Income Fund	Upstart Securitization Trust 2021-4	9/20/2031	3.19	Fixed Income	5,000,000	4,797,707	0.163%
JNLDoubleLine® Core Fixed Income Fund	AlSpring Buyer LLC	4/21/2028	8.89	Fixed Income	659,242	656,728	0.022%
JNLDoubleLine® Core Fixed Income Fund	Pacty Evergreen Group Issuer LLC	10/15/2028	4.38	Fixed Income	395,000	386,466	0.013%
JNLDoubleLine® Core Fixed Income Fund	SWF Escrow Issuer Corporation	10/1/2029	6.50	Fixed Income	95,000	63,100	0.002%
JNLDoubleLine® Core Fixed Income Fund	Olympus Water US Holding Corporation	10/1/2029	6.25	Fixed Income	200,000	199,768	0.007%
JNLDoubleLine® Core Fixed Income Fund	Sabra Health Care Limited Partnership	12/1/2031	3.20	Fixed Income	1,100,000	978,535	0.033%
JNLDoubleLine® Core Fixed Income Fund	Barrings CLO LD 2020-1	10/15/2036	8.76	Fixed Income	1,000,000	1,020,383	0.035%
JNLDoubleLine® Core Fixed Income Fund	VCAI Asset Securitization, LLC	8/25/2051	1.87	Fixed Income	2,826,469	2,804,096	0.095%
JNLDoubleLine® Core Fixed Income Fund	Domatch Debt Merger Subordinated Incorporated	10/15/2029	6.63	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Bally's Corporation	8/15/2028	8.79	Fixed Income	439,353	425,574	0.014%
JNLDoubleLine® Core Fixed Income Fund	Sonic Automotive, Inc.	11/15/2029	4.63	Fixed Income	525,000	520,239	0.017%
JNLDoubleLine® Core Fixed Income Fund	Bank of America Corporation	10/20/2032	2.57	Fixed Income	1,566,000	1,392,628	0.047%
JNLDoubleLine® Core Fixed Income Fund	Sumitomo Helios VII Issuer, LLC	10/20/2028	2.63	Fixed Income	3,177,685	2,111,783	0.072%
JNLDoubleLine® Core Fixed Income Fund	Comerstone OnDemand, Inc.	9/8/2026	9.11	Fixed Income	310,674	290,267	0.010%
JNLDoubleLine® Core Fixed Income Fund	Castlelake Aviation Limited	10/22/2026	7.45	Fixed Income	534,717	537,194	0.002%
JNLDoubleLine® Core Fixed Income Fund	Chamberlain Group Inc	12/31/2049		Fixed Income	45,000	44,730	0.002%
JNLDoubleLine® Core Fixed Income Fund	Canyon Capital CLO 2019-2 Ltd	10/16/2034	8.86	Fixed Income	1,000,000	1,020,628	0.035%
JNLDoubleLine® Core Fixed Income Fund	OHA Loan Funding 2015-1 Ltd.	1/19/2037	8.74	Fixed Income	1,500,000	1,534,975	0.052%
JNLDoubleLine® Core Fixed Income Fund	Ecopetrol S.A.	11/2/2051	5.88	Fixed Income	2,900,000	2,180,871	0.074%
JNLDoubleLine® Core Fixed Income Fund	MATV Holdings, Inc.	10/1/2026	6.38	Fixed Income	540,000	557,988	0.019%
JNLDoubleLine® Core Fixed Income Fund	Southwestern Electric Power Company	11/1/2051	3.25	Fixed Income	1,745,000	1,227,852	0.042%
JNLDoubleLine® Core Fixed Income Fund	Nationstar Mortgage Holdings Inc.	11/15/2031	5.75	Fixed Income	545,000	545,829	0.019%
JNLDoubleLine® Core Fixed Income Fund	COPT Defense Properties	12/1/2033	2.90	Fixed Income	1,745,000	1,480,661	0.050%
JNLDoubleLine® Core Fixed Income Fund	Restoration Hardware, Inc.	10/15/2028	7.86	Fixed Income	409,430	393,343	0.013%
JNLDoubleLine® Core Fixed Income Fund	Parkland Corporation	5/1/2030	4.63	Fixed Income	290,000	279,204	0.009%
JNLDoubleLine® Core Fixed Income Fund	Ford Motor Company	2/12/2032	3.25	Fixed Income	2,573,000	2,203,475	0.075%
JNLDoubleLine® Core Fixed Income Fund	Hot Hotels & Resorts, LP	12/15/2031	2.90	Fixed Income	2,659,000	2,363,123	0.080%
JNLDoubleLine® Core Fixed Income Fund	SCFE Empire Holdings, Inc.	5/1/2027	7.63	Fixed Income	470,000	498,378	0.017%
JNLDoubleLine® Core Fixed Income Fund	DISH DBS Corporation	12/1/2028	5.75	Fixed Income	525,000	471,042	0.016%
JNLDoubleLine® Core Fixed Income Fund	LaserShip, Inc.	5/7/2029	13.10	Fixed Income	75,000	30,177	0.001%
JNLDoubleLine® Core Fixed Income Fund	Spring 2021-1 Limited	10/15/2028	3.75	Fixed Income	1,831,407	1,821,023	0.062%
JNLDoubleLine® Core Fixed Income Fund	Bank 2021-BNK37	11/18/2031	3.21	Fixed Income	2,121,000	1,636,428	0.056%
JNLDoubleLine® Core Fixed Income Fund	Helios Software Holdings, Inc.	5/1/2028	4.63	Fixed Income	450,000	423,677	0.014%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	10/20/2051	2.50	Fixed Income	3,789,635	3,319,018	0.113%
JNLDoubleLine® Core Fixed Income Fund	Massachusetts Mutual Life Insurance Company	12/1/2061	3.20	Fixed Income	2,475,000	1,662,233	0.056%
JNLDoubleLine® Core Fixed Income Fund	Renesas Electronics Corporation	11/25/2026	2.17	Fixed Income	4,494,000	4,231,735	0.147%
JNLDoubleLine® Core Fixed Income Fund	Chamberlain Group Inc	10/22/2028	8.60	Fixed Income	335,685	333,748	0.011%
JNLDoubleLine® Core Fixed Income Fund	Imperial Fund Mortgage Trust 2021-NOM4	1/25/2057	3.45	Fixed Income	3,000,000	2,315,053	0.079%
JNLDoubleLine® Core Fixed Income Fund	AASET 2021-2 Trust	12/15/2028	3.54	Fixed Income	1,080,930	938,632	0.032%
JNLDoubleLine® Core Fixed Income Fund	Astra Acquisition Corp.	10/22/2029	14.47	Fixed Income	215,933	22,082	0.001%
JNLDoubleLine® Core Fixed Income Fund	Cathedral Lake VIII, Ltd.	1/22/2035	8.16	Fixed Income	1,000,000	1,017,705	0.035%
JNLDoubleLine® Core Fixed Income Fund	Cathedral Lake VIII, Ltd.	1/22/2035	8.96	Fixed Income	1,000,000	1,005,073	0.034%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	11/20/2051	2.50	Fixed Income	13,273,382	11,612,577	0.394%
JNLDoubleLine® Core Fixed Income Fund	Identi Software, Inc.	11/20/2027	9.83	Fixed Income	138,140	120,325	0.004%
JNLDoubleLine® Core Fixed Income Fund	Cambellsville Independent School District	1/25/2035	9.00	Fixed Income	2,500,000	2,514,904	0.084%
JNLDoubleLine® Core Fixed Income Fund	Trimaran CAVJ 2021-3, Ltd.	1/18/2035	9.32	Fixed Income	4,500,000	4,591,401	0.156%
JNLDoubleLine® Core Fixed Income Fund	Octagon Investment Partners 40 Ltd.	1/20/2035	8.89	Fixed Income	1,000,000	995,360	0.034%
JNLDoubleLine® Core Fixed Income Fund	Marvell Technology, Inc.	4/15/2031	2.95	Fixed Income	4,375,000	4,011,869	0.136%
JNLDoubleLine® Core Fixed Income Fund	Cap S.A.	4/27/2031	3.90	Fixed Income	1,400,000	1,399,758	0.049%
JNLDoubleLine® Core Fixed Income Fund	Dun & Bradstreet Corporation, The	12/15/2029	5.00	Fixed Income	570,000	576,062	0.020%
JNLDoubleLine® Core Fixed Income Fund	Coherent Corp.	11/15/2029	5.00	Fixed Income	230,000	228,268	0.008%
JNLDoubleLine® Core Fixed Income Fund	Great Outdoors Group, LLC	2/26/2028	9.12	Fixed Income	537,616	537,187	0.018%
JNLDoubleLine® Core Fixed Income Fund	APX Group, Inc.	7/1/2028	1.546	Fixed Income	1,546	1,545	0.000%
JNLDoubleLine® Core Fixed Income Fund	Ascend Learning, LLC	11/18/2029	11.10	Fixed Income	154,885	149,704	0.005%
JNLDoubleLine® Core Fixed Income Fund	CHG PPC Parent LLC	11/17/2028	8.11	Fixed Income	545,011	542,821	0.018%
JNLDoubleLine® Core Fixed Income Fund	Freeport LNG Investments, LLLP	11/17/2028	9.04	Fixed Income	303,727	306,183	0.010%
JNLDoubleLine® Core Fixed Income Fund	MedAssets Software Intermediate Holdings, Inc.	11/18/2028	9.36	Fixed Income	182,037	173,833	0.006%
JNLDoubleLine® Core Fixed Income Fund	Walker & Dunlop, Inc.	10/14/2028	7.60	Fixed Income	189,638	189,912	0.006%
JNLDoubleLine® Core Fixed Income Fund	Aveanna Healthcare, LLC	12/8/2029	12.21	Fixed Income	147,000	139,604	0.005%
JNLDoubleLine® Core Fixed Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/12/2052	4.40	Fixed Income	500,000	387,771	0.013%
JNLDoubleLine® Core Fixed Income Fund	Royal Caribbean Cruise Line	7/15/2027	5.38	Fixed Income	2,189,000	2,231,178	0.076%
JNLDoubleLine® Core Fixed Income Fund	Anywhere Real Estate Group LLC	4/15/2030	5.25	Fixed Income	80,000	65,741	0.002%
JNLDoubleLine® Core Fixed Income Fund	Ascend Learning, LLC	11/18/2028	8.85	Fixed Income	255,559	254,323	0.009%
JNLDoubleLine® Core Fixed Income Fund	General Motors Financial Company, Inc.	1/12/2032	3.10	Fixed Income	2,509,000	2,210,794	0.075%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	9/20/2051	3.00	Fixed Income	10,576,468	1,734,548	0.058%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.50	Fixed Income	16,692,290	14,544,881	0.494%
JNLDoubleLine® Core Fixed Income Fund	Trilon Container International Limited	3/15/2032	3.25	Fixed Income	1,644,000	1,421,621	0.048%
JNLDoubleLine® Core Fixed Income Fund	Feritta Entertainment LLC	1/15/2030	6.75	Fixed Income	365,000	344,754	0.012%
JNLDoubleLine® Core Fixed Income Fund	CCO Holdings, LLC	2/1/2032	4.75	Fixed Income	385,000	341,597	0.012%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	12/20/2050	2.00	Fixed Income	9,072,284	1,044,983	0.035%
JNLDoubleLine® Core Fixed Income Fund	JPMorgan Chase & Co.	1/25/2033	2.96	Fixed Income	2,264,000	2,051,337	0.070%
JNLDoubleLine® Core Fixed Income Fund	Morgan Stanley	1/21/2033	2.94	Fixed Income	770,000	693,547	0.024%
JNLDoubleLine® Core Fixed Income Fund	Bank 2022-BNK39	11/16/2032	3.18	Fixed Income	3,601,000	3,167,222	0.108%
JNLDoubleLine® Core Fixed Income Fund	Bank 2022-BNK39	11/16/2032	3.50	Fixed Income	1,400,000	1,399,758	0.049%
JNLDoubleLine® Core Fixed Income Fund	Intelsat Jackson Holdings S.A.	3/15/2030	6.50	Fixed Income	235,000	226,485	0.008%
JNLDoubleLine® Core Fixed Income Fund	Minerva Merger Sub Inc	2/15/2030	6.50	Fixed Income	415,000	402,397	0.014%
JNLDoubleLine® Core Fixed Income Fund	Ocean Trails CLO V	10/14/2031	9.01	Fixed Income	1,000,000	1,020,305	0.035%
JNLDoubleLine® Core Fixed Income Fund	Feritta Entertainment, LLC	11/3/2029	8.85	Fixed Income	988,541	988,971	0.034%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2022-B32 Mortgage Trust	1/16/2032	3.53	Fixed Income	3,446,000	2,926,669	0.099%
JNLDoubleLine® Core Fixed Income Fund	AMC Entertainment Holdings, Inc.	2/15/2029	7.50	Fixed Income	135,000	105,917	0.004%
JNLDoubleLine® Core Fixed Income Fund	McAfee Corp.	2/15/2030	7.38	Fixed Income	175,000	172,397	0.006%
JNLDoubleLine® Core Fixed Income Fund	Light & Wonder, Inc.	3/1/2030	6.63	Fixed Income	330,000	329,472	0.011%
JNLDoubleLine® Core Fixed Income Fund	News Corporation	2/15/2032	5.13	Fixed Income	160,000	158,324	0.005%
JNLDoubleLine® Core Fixed Income Fund	JPMorgan Chase & Co.	2/24/2026	2.60	Fixed Income	1,349,000	1,339,176	0.045%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Inc.	2/24/2028	3.07	Fixed Income	917,000	894,386	0.030%
JNLDoubleLine® Core Fixed Income Fund	AthenaHealth Group, Inc.	1/27/2029	8.50	Fixed Income	662,944	650,860	0.023%
JNLDoubleLine® Core Fixed Income Fund	Ascend Learning, LLC	11/18/2028	8.85	Fixed Income	247,530	246,333	0.008%
JNLDoubleLine® Core Fixed Income Fund	Energizer Holdings, Inc.	12/31/2027	6.50	Fixed Income	225,000	231,641	0.008%
JNLDoubleLine® Core Fixed Income Fund	Sols IV BV	2/9/2029	8.57	Fixed Income	368,366	367,664	0.012%
JNLDoubleLine® Core Fixed Income Fund	Berkshire Hathaway Finance Corporation	3/15/2052	3.85	Fixed Income	1,125,000	1,852,665	0.062%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/25/2051	2.50	Fixed Income	5,329,700	3,210,453	0.109%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2021-B31 Mortgage Trust	12/17/2031	2.67	Fixed Income	1,450,242	1,280,694	0.043%
JNLDoubleLine® Core Fixed Income Fund	MEGlobal Canada LLC	5/18/2025	5.00	Fixed Income	1,400,000	1,422,200	0.048%
JNLDoubleLine® Core Fixed Income Fund	Hexion Holdings Corporation	3/2/2029	9.77	Fixed Income	516,535	517,716	0.018%
JNLDoubleLine® Core Fixed Income Fund	Simplex Group	12/26/2031	5.20	Fixed Income	400,000	358,848	0.013%
JNLDoubleLine® Core Fixed Income Fund	Owens & Minor, Inc.	4/1/2030	6.00	Fixed Income	265,000	266,355	0.009%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/25/2052	2.50	Fixed Income	6,264,744	3,862,261	0.131%
JNLDoubleLine® Core Fixed Income Fund	Workday, Inc.	4/1/2029	3.70	Fixed Income	2,010,000	1,999,360	0.068%
JNLDoubleLine® Core Fixed Income Fund	Petroleco del Peru - Petropuru S.A.	6/18/2047	5.63	Fixed Income	1,600,000	1,168,880	0.040%
JNLDoubleLine® Core Fixed Income Fund	Team Health Holdings, Inc.	3/2/2027	10.50	Fixed Income	142,944	138,986	0.005%
JNLDoubleLine® Core Fixed Income Fund	Al Candelera (Spain), S.L.U.	6/15/2033	5.75	Fixed Income	1,500,000	1,251,942	0.043%
JNLDoubleLine® Core Fixed Income Fund	Connecticut Avenue Securities Trust 2022-R04	3/25/2042	8.38	Fixed Income	6,000,000	6,254,043	0.212%
JNLDoubleLine® Core Fixed Income Fund	Hess Infrastructure Partners LP	10/15/2029	8.50	Fixed Income	330,000	337,178	0.011%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	4/25/2042	8.18	Fixed Income	10,000,000	10,345,189	0.351%
JNLDoubleLine® Core Fixed Income Fund	Element Materials Technology Group US Holdings Inc	12/31/2049		Fixed Income	165,000	165,104	0.006%
JNLDoubleLine® Core Fixed Income Fund	MASTR Asset Securitization Trust 2006-2	6/25/2036	6.00	Fixed Income	1,901,147	710,653	0.024%
JNLDoubleLine® Core Fixed Income Fund	MASTR Asset Securitization Trust 2006-2	6/25/2036	6.00	Fixed Income	1,262,500	1,235,199	0.042%
JNLDoubleLine® Core Fixed Income Fund	Securitized Asset Backed Receivables LLC Trust 2007-BR2	2/25/2037	5.43	Fixed Income	12,588,756	5,450,577	0.185%
JNLDoubleLine® Core Fixed Income Fund	Deutsche Alt-A Securities Mortgage Loan Trust, Series 2007-OA1	2/25/2047	5.12	Fixed Income	2,474,353	1,418,304	0.049%
JNLDoubleLine® Core Fixed Income Fund	Morgan Stanley	4/20/2028	4.21	Fixed Income	1,696,000	1,725,814	0.059%
JNLDoubleLine® Core Fixed Income Fund	Compass Power Generation LLC	7/1/2029	9.63	Fixed Income	375,251	375,062	0.013%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2032	2.46	Fixed Income	11,428,200	10,190,592	0.346%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2004-24CB	4/25/2035	5.50	Fixed Income	3,133,409	2,746,040	0.093%
JNLDoubleLine® Core Fixed Income Fund	CWMBS, Inc.	11/25/2035	5.50	Fixed Income	2,974,088	1,795,678	0.061%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-9T1	5/25/2036	6.75	Fixed Income	5,109,472	1,969,314	0.067%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-25CB	10/25/2036	6.88	Fixed Income	3,858,572	1,658,029	0.057%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-19CB	8/25/2036	6.00	Fixed Income	3,202,152	1,932,360	0.066%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2007-16CB	8/25/2037	6.00	Fixed Income	3,108,124	2,404,299	0.082%
JNLDoubleLine® Core Fixed Income Fund	Perigo Investments, LLC	4/5/2029	7.60	Fixed Income	246,283	245,411	0.008%
JNLDoubleLine® Core Fixed Income Fund	Elevance Health, Inc.	5/15/2052	4.55	Fixed Income	631,000	575,158	0.020%
JNLDoubleLine® Core Fixed Income Fund	The Goodyear Tire & Rubber Company	7/15/2031	5.25	Fixed Income	235,000	214,797	0.007%
JNLDoubleLine® Core Fixed Income Fund	PT. Indonesia Asahan Aluminium	5/15/2025	4.75	Fixed Income	1,200,000	1,218,528	0.041%
JNLDoubleLine® Core Fixed Income Fund	THL Credit Wind River 2018-L CLO Ltd.	7/15/2030	11.06	Fixed Income	500,000	499,117	0.017%
JNLDoubleLine® Core Fixed Income Fund	THL Credit Wind River 2018-L CLO Ltd.	7/15/2030	8.46	Fixed Income	1,500,000	1,526,225	0.052%
JNLDoubleLine® Core Fixed Income Fund	Bausch & Lomb Corporation	5/5/2027	8.27	Fixed Income	1,804,253	1,799,240	0.061%
JNLDoubleLine® Core Fixed Income Fund	PENN Entertainment, Inc.	4/13/2029	8.10	Fixed Income	596,344	597,372	0.020%
JNLDoubleLine® Core Fixed Income Fund	UnitedHealth Group Incorporated	5/15/2062	4.95	Fixed Income	960,000	946,195	0.032%
JNLDoubleLine® Core Fixed Income Fund	Sols IV BV	2/9/2029	8.57	Fixed Income	135,259	135,004	0.005%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2050	3.50	Fixed Income	12,406,320	11,689,665	0.397%
JNLDoubleLine® Core Fixed Income Fund	Banco Continental S.A.E.C.A.	12/10/2025	2.75	Fixed Income	150,000	146,484	0.005%
JNLDoubleLine® Core Fixed Income Fund	Urzaid Rady Ministrow	4/25/2032	1.75	Fixed Income	3,300,000	687,284	0.023%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Commercial Mortgage Trust 2022-GC48	5/17/2032	4.58	Fixed Income	3,000,000	2,965,158	0.102%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	5.00	Fixed Income	8,299,555	8,356,225	0.284%
JNLDoubleLine® Core Fixed Income Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	9/13/2034	5.88	Fixed Income	500,000	488,460	0.017%
JNLDoubleLine® Core Fixed Income Fund	Univision Communications Inc.	6/10/2029	9.58	Fixed Income	299,763	294,785	0.010%
JNLDoubleLine® Core Fixed Income Fund	T-Mobile USA, Inc.	10/15/2052	3.40	Fixed Income	2,376,000	1,776,339	0.060%
JNLDoubleLine® Core Fixed Income Fund	UPL Corporation Limited	6/16/2030	4.63	Fixed Income	800,000	690,935	0.023%
JNLDoubleLine® Core Fixed Income Fund	Braskem						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Mong Duong Finance Holdings B.V.	5/7/2029	5.13	Fixed Income	421,640	417,277	0.014%
JNLDoubleLine® Core Fixed Income Fund	Cloud Software Group, Inc.	3/31/2029	6.50	Fixed Income	325,000	323,518	0.013%
JNLDoubleLine® Core Fixed Income Fund	1375209 BC Ltd	1/30/2028	9.00	Fixed Income	87,000	87,553	0.003%
JNLDoubleLine® Core Fixed Income Fund	Bausch Health Companies Inc.	10/15/2030	14.00	Fixed Income	30,000	29,381	0.001%
JNLDoubleLine® Core Fixed Income Fund	Element Materials Technology Group US Holdings Inc	4/12/2029	9.68	Fixed Income	245,625	245,846	0.008%
JNLDoubleLine® Core Fixed Income Fund	Canada, Government of	8/1/2031	1.50	Fixed Income	500,000	502,084	0.012%
JNLDoubleLine® Core Fixed Income Fund	Oracle Corporation	11/9/2032	6.25	Fixed Income	1,099,000	1,242,583	0.042%
JNLDoubleLine® Core Fixed Income Fund	Guara Norte S.a.r.l.	6/15/2034	5.20	Fixed Income	1,490,670	1,442,355	0.049%
JNLDoubleLine® Core Fixed Income Fund	CCFCE 2016-C6 Mortgage Trust	8/12/2026	2.95	Fixed Income	2,918,133	2,854,334	0.097%
JNLDoubleLine® Core Fixed Income Fund	Adani Electricity Mumbai Limited	7/22/2031	3.87	Fixed Income	503,000	538,248	0.015%
JNLDoubleLine® Core Fixed Income Fund	BBGMS Mortgage Trust 2020-C9	10/18/2030	2.04	Fixed Income	1,275,000	1,105,838	0.038%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2021-B30 Mortgage Trust	11/18/2031	2.58	Fixed Income	1,654,000	1,454,030	0.049%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2019-B13 Mortgage Trust	8/17/2029	2.70	Fixed Income	1,000,000	917,117	0.031%
JNLDoubleLine® Core Fixed Income Fund	Playa Resorts Holding B.V.	11/22/2028	8.03	Fixed Income	546,250	542,351	0.018%
JNLDoubleLine® Core Fixed Income Fund	Meta Platforms, Inc.	8/15/2052	4.45	Fixed Income	2,540,000	2,369,828	0.080%
JNLDoubleLine® Core Fixed Income Fund	Pacific Gas And Electric Company	1/15/2053	6.75	Fixed Income	5,026,000	5,801,031	0.197%
JNLDoubleLine® Core Fixed Income Fund	Adani Electricity Mumbai Limited	12/1/2030	3.95	Fixed Income	400,000	383,077	0.012%
JNLDoubleLine® Core Fixed Income Fund	Barco Industrial S.A.	2/19/2031	4.88	Fixed Income	1,350,000	1,335,884	0.045%
JNLDoubleLine® Core Fixed Income Fund	NCL Corporation Ltd.	2/1/2028	8.38	Fixed Income	315,000	335,227	0.011%
JNLDoubleLine® Core Fixed Income Fund	Tenet Healthcare Corporation	10/1/2028	6.13	Fixed Income	300,000	311,673	0.011%
JNLDoubleLine® Core Fixed Income Fund	Network I2 Limited	1/1/2200	5.65	Fixed Income	1,700,000	1,740,496	0.059%
JNLDoubleLine® Core Fixed Income Fund	BBGMS Mortgage Trust 2021-C12	11/18/2031	2.69	Fixed Income	3,157,000	2,799,772	0.095%
JNLDoubleLine® Core Fixed Income Fund	Madison Park Funding XIV, Ltd.	10/22/2030	8.49	Fixed Income	2,000,000	2,036,521	0.069%
JNLDoubleLine® Core Fixed Income Fund	LCM 28 Ltd	10/21/2030	8.49	Fixed Income	1,000,000	976,576	0.033%
JNLDoubleLine® Core Fixed Income Fund	Banco Espirito Santo S.A.	1/1/2200	2.63	Fixed Income	4,600,000	1,433,736	0.049%
JNLDoubleLine® Core Fixed Income Fund	McDonald's Corporation	9/1/2047	4.45	Fixed Income	2,434,000	2,231,316	0.076%
JNLDoubleLine® Core Fixed Income Fund	Petroleos Mexicanos	9/1/2047	6.75	Fixed Income	1,000,000	1,116,865	0.038%
JNLDoubleLine® Core Fixed Income Fund	Duke Energy Corporation	8/15/2047	3.95	Fixed Income	2,746,000	2,243,036	0.076%
JNLDoubleLine® Core Fixed Income Fund	Cosan Overseas Limited	1/1/2200	8.25	Fixed Income	1,300,000	1,342,612	0.046%
JNLDoubleLine® Core Fixed Income Fund	Washington Mutual Mortgage Pass-Through Certificates Wmalt Series 2006-A9 Trust	11/25/2046	5.95	Fixed Income	1,206,852	1,054,583	0.036%
JNLDoubleLine® Core Fixed Income Fund	Empresa de Transportes de Pasajeros Metro S.A.	1/25/2047	5.00	Fixed Income	1,085,000	1,016,886	0.035%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/15/2038	3.00	Fixed Income	9,807,360	9,582,270	0.121%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-OA01	9/20/2046	5.27	Fixed Income	6,23,412	660,320	0.022%
JNLDoubleLine® Core Fixed Income Fund	CSX Corporation	11/1/2046	3.80	Fixed Income	5,637,000	4,797,991	0.163%
JNLDoubleLine® Core Fixed Income Fund	GS Mortgage Securities Trust 2016-GS3	9/14/2026	3.72	Fixed Income	9,000,000	8,121,892	0.276%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/25/2045	4.03	Fixed Income	1,438,000	684,362	0.023%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	8/1/2046	3.00	Fixed Income	13,399,004	12,317,023	0.418%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	1/1/2047	3.00	Fixed Income	8,662,499	7,957,581	0.270%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	8/1/2047	3.00	Fixed Income	8,423,604	7,730,228	0.262%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	10/1/2047	3.74	Fixed Income	9,011,607	8,545,528	0.290%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	5/20/2048	3.50	Fixed Income	17,251,721	16,408,534	0.557%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Commercial Mortgage Trust 2017-C41	11/17/2027	4.19	Fixed Income	1,643,000	1,558,645	0.053%
JNLDoubleLine® Core Fixed Income Fund	Renew 20172	9/22/2053	3.22	Fixed Income	2,639,061	2,356,979	0.080%
JNLDoubleLine® Core Fixed Income Fund	Netflix, Inc.	4/15/2028	4.88	Fixed Income	654,000	684,362	0.023%
JNLDoubleLine® Core Fixed Income Fund	B.A.T Capital Corporation	9/25/2047	4.54	Fixed Income	1,927,000	1,638,071	0.056%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	10/1/2048	4.00	Fixed Income	1,802,229	1,758,918	0.060%
JNLDoubleLine® Core Fixed Income Fund	Cabinet Office, Government of Japan	3/20/2038	0.50	Fixed Income	94,500,000	597,417	0.020%
JNLDoubleLine® Core Fixed Income Fund	Bank of America Corporation	5/25/2035	5.59	Fixed Income	1,816,455	1,848,151	0.063%
JNLDoubleLine® Core Fixed Income Fund	Mellon Residential Funding Corporation	8/10/2029	6.13	Fixed Income	8,792	8,749	0.000%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns AL-TA Trust 2006-3	5/25/2035	5.45	Fixed Income	59,358	56,980	0.002%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2007-OA7	5/25/2047	5.33	Fixed Income	139,814	122,096	0.004%
JNLDoubleLine® Core Fixed Income Fund	Wakvu Mortgage Pass-Through Certificates Series 2003-AR9 Trust	11/25/2047	5.15	Fixed Income	19,941	15,365	0.001%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-OA21	3/20/2047	5.27	Fixed Income	2,063,449	1,830,166	0.062%
JNLDoubleLine® Core Fixed Income Fund	GS Mortgage Securities Corp.	11/25/2035	4.58	Fixed Income	23,511	21,522	0.001%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns AL-TA Trust 2006-3	9/25/2035	5.24	Fixed Income	64,143	38,573	0.001%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns ARM Trust 2004-1	4/25/2033	6.50	Fixed Income	2,275	2,245	0.000%
JNLDoubleLine® Core Fixed Income Fund	Merrill Lynch Mortgage Capital Inc.	11/25/2035	5.47	Fixed Income	17,957	17,040	0.001%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-OA17	12/20/2046	5.27	Fixed Income	3,062,651	2,785,029	0.095%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns Structured Products Inc. Trust 2007-R6	1/26/2036	5.52	Fixed Income	143,821	106,081	0.004%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	5/20/2026	4.88	Fixed Income	1,658	1,663	0.000%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Mortgage Loan Trust Series 2007-AH1.3	4/15/2042	5.74	Fixed Income	214,581	152,924	0.005%
JNLDoubleLine® Core Fixed Income Fund	Securitized Asset Backed Receivables LLC Trust 2007-HE1	12/25/2036	5.09	Fixed Income	214,156	44,981	0.002%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns ARM Trust 2004-1	1/25/2034	6.54	Fixed Income	30,465	30,218	0.001%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns Structured Products Inc. Trust 2007-R6	12/26/2046	4.21	Fixed Income	115,146	91,279	0.003%
JNLDoubleLine® Core Fixed Income Fund	Structured Asset Mortgage Investments LLC	9/19/2032	5.09	Fixed Income	2,097	2,023	0.000%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	2/20/2027	4.62	Fixed Income	293	294	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/25/2035	6.58	Fixed Income	5,495	5,578	0.000%
JNLDoubleLine® Core Fixed Income Fund	CWMBS, Inc.	2/20/2036	7.52	Fixed Income	10,179	9,583	0.000%
JNLDoubleLine® Core Fixed Income Fund	Credit Suisse First Boston Mortgage Securities Corp.	3/25/2032	6.08	Fixed Income	10,938	10,117	0.000%
JNLDoubleLine® Core Fixed Income Fund	CWMBS, Inc.	11/25/2034	4.73	Fixed Income	82,071	76,654	0.003%
JNLDoubleLine® Core Fixed Income Fund	Washington Mutual Mortgage Securities Corp.	8/25/2042	6.52	Fixed Income	15,942	15,563	0.001%
JNLDoubleLine® Core Fixed Income Fund	Prime Mortgage Trust 2005-4	2/25/2034	5.37	Fixed Income	2,611	2,611	0.000%
JNLDoubleLine® Core Fixed Income Fund	Harborside Mortgage Loan Trust	5/19/2035	5.52	Fixed Income	27,209	26,822	0.001%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns ARM Trust 2004-1	11/25/2030	5.13	Fixed Income	244	235	0.000%
JNLDoubleLine® Core Fixed Income Fund	Master Asset Backed Securities Trust 2007-WMC1	1/25/2037	5.07	Fixed Income	268,814	75,828	0.003%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	5/20/2030	4.88	Fixed Income	510	515	0.000%
JNLDoubleLine® Core Fixed Income Fund	Wakvu Mortgage Pass-Through Certificates Series 2002-AR17 Trust	11/25/2042	5.15	Fixed Income	8,848	8,248	0.000%
JNLDoubleLine® Core Fixed Income Fund	IndyMac Bancorp, Inc.	1/25/2032	6.52	Fixed Income	64	63	0.000%
JNLDoubleLine® Core Fixed Income Fund	IndyMac MBS, Inc.	1/25/2036	3.68	Fixed Income	146,094	131,764	0.004%
JNLDoubleLine® Core Fixed Income Fund	Washington Mutual Mortgage Securities Corp.	2/25/2031	5.77	Fixed Income	112	110	0.000%
JNLDoubleLine® Core Fixed Income Fund	CWMBS, Inc.	11/21/2034	5.81	Fixed Income	229,261	223,929	0.008%
JNLDoubleLine® Core Fixed Income Fund	Harborside Mortgage Loan Trust	7/19/2035	5.07	Fixed Income	17,058	96,098	0.003%
JNLDoubleLine® Core Fixed Income Fund	Merrill Lynch Mortgage Investors Trust, Series MLCC 2003-C	5/25/2033	6.26	Fixed Income	51,005	49,211	0.002%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns ARM Trust 2004-1	2/25/2033	6.37	Fixed Income	43	41	0.000%
JNLDoubleLine® Core Fixed Income Fund	Structured Asset Mortgage Investments II, Inc.	7/19/2035	5.58	Fixed Income	67,751	63,500	0.002%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns ARM Trust 2004-1	11/25/2030	5.13	Fixed Income	654	654	0.000%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	4/20/2030	5.00	Fixed Income	496	497	0.000%
JNLDoubleLine® Core Fixed Income Fund	Bear Stearns ARM Trust 2004-1	11/25/2034	6.05	Fixed Income	97,283	87,687	0.003%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	2/20/2032	4.62	Fixed Income	6,646	6,712	0.000%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Mortgage Loan Trust Inc.	6/15/2035	6.77	Fixed Income	6,773	6,823	0.000%
JNLDoubleLine® Core Fixed Income Fund	Structured Asset Mortgage Investments II Trust 2007-AR2	3/25/2037	5.23	Fixed Income	245,765	97,509	0.003%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	2/20/2032	4.62	Fixed Income	4,377	4,420	0.000%
JNLDoubleLine® Core Fixed Income Fund	CWMBS, Inc.	2/20/2035	5.07	Fixed Income	13,798	13,749	0.000%
JNLDoubleLine® Core Fixed Income Fund	GS Mortgage Securities Corp.	5/25/2035	5.20	Fixed Income	81,512	78,102	0.003%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2043	6.36	Fixed Income	33,621	33,652	0.001%
JNLDoubleLine® Core Fixed Income Fund	BCAP LLC 2011-RR4-B Trust	2/26/2036	5.25	Fixed Income	466,536	188,407	0.006%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2035	5.69	Fixed Income	99,398	102,105	0.003%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	7/1/2027	7.49	Fixed Income	23	23	0.000%
JNLDoubleLine® Core Fixed Income Fund	Kinder Morgan Energy Partners, L.P.	11/15/2038	6.95	Fixed Income	3,457,000	3,973,755	0.135%
JNLDoubleLine® Core Fixed Income Fund	Lumen Technologies Inc.	6/1/2036	8.00	Fixed Income	230,000	108,519	0.004%
JNLDoubleLine® Core Fixed Income Fund	Cytera CD Holdings, Inc.	5/1/2026	8.33	Fixed Income	142,065	142	0.000%
JNLDoubleLine® Core Fixed Income Fund	Banco Espirito Santo S.A.	11/1/2029	8.00	Fixed Income	1,880,000	961,027	0.031%
JNLDoubleLine® Core Fixed Income Fund	Al Candelaria (Spain), S.L.U	12/15/2028	7.50	Fixed Income	574,999	579,095	0.020%
JNLDoubleLine® Core Fixed Income Fund	Vedanta Resources Limited	12/9/2028	13.88	Fixed Income	1,316,000	1,368,618	0.046%
JNLDoubleLine® Core Fixed Income Fund	Adani Energy Solutions Limited	8/3/2026	4.00	Fixed Income	1,000,000	976,413	0.033%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	8/15/2034	4.50	Fixed Income	1,039,201	1,041,233	0.035%
JNLDoubleLine® Core Fixed Income Fund	Reliance Industries Limited	1/28/2025	4.13	Fixed Income	250,000	251,120	0.009%
JNLDoubleLine® Core Fixed Income Fund	COMM 2015-DC1 Mortgage Trust	1/10/2025	4.42	Fixed Income	200,000	173,294	0.006%
JNLDoubleLine® Core Fixed Income Fund	Eversource Energy	10/1/2024	2.90	Fixed Income	4,000,000	4,058,000	0.138%
JNLDoubleLine® Core Fixed Income Fund	BB-UBS Trust 2012-Show	11/7/2036	0.73	Fixed Income	11,689,000	14,176	0.000%
JNLDoubleLine® Core Fixed Income Fund	CSMC Trust 2017-2-L1	11/12/2024	3.25	Fixed Income	5,200,000	536,918	0.018%
JNLDoubleLine® Core Fixed Income Fund	BB-UBS Trust 2012-Show	11/7/2036	0.28	Fixed Income	6,436,000	2,972	0.000%
JNLDoubleLine® Core Fixed Income Fund	Traverse Midstream Partners LLC	2/16/2028	8.75	Fixed Income	105,317	106,937	0.004%
JNLDoubleLine® Core Fixed Income Fund	Banco Mercantil Del Norte, S.A. Institucion De Banca Multiple, Grupo Financiero Banorte	1/1/2200	7.63	Fixed Income	800,000	814,426	0.028%
JNLDoubleLine® Core Fixed Income Fund	COMM 2015-CR22 Mortgage Trust	3/12/2048	0.94	Fixed Income	75,381,240	122,370	0.004%
JNLDoubleLine® Core Fixed Income Fund	H Food Holdings LLC	5/17/2025	9.01	Fixed Income	125,418	94,496	0.003%
JNLDoubleLine® Core Fixed Income Fund	Millicom International Cellular SA	10/15/2026	6.63	Fixed Income	540,000	555,169	0.019%
JNLDoubleLine® Core Fixed Income Fund	Transocean Proseidon Limited	2/1/2027	6.88	Fixed Income	252,000	254,804	0.009%
JNLDoubleLine® Core Fixed Income Fund	Sydney Airport Finance Company Pty Limited	4/30/2025	3.38	Fixed Income	2,000,000	2,663,653	0.090%
JNLDoubleLine® Core Fixed Income Fund	Lions Gate Capital Holdings LLC	3/20/2025	7.60	Fixed Income	88,099	87,925	0.003%
JNLDoubleLine® Core Fixed Income Fund	CSC Holdings, LLC	2/1/2029	6.50	Fixed Income	455,000	381,310	0.013%
JNLDoubleLine® Core Fixed Income Fund	Ulad Vradny Czech Republic	7/23/2029	2.75	Fixed Income	7,400,000	318,833	0.011%
JNLDoubleLine® Core Fixed Income Fund	Fidelcorps Patrimoine Autonome Panaméricana	11/15/2035	8.25	Fixed Income	429,637	429,637	0.015%
JNLDoubleLine® Core Fixed Income Fund	Naviest Private Education Loan Trust 2017-A	9/15/2025	3.91	Fixed Income	6,065,924	5,972,083	0.203%
JNLDoubleLine® Core Fixed Income Fund	Ameren Corporation	2/15/2026	3.65	Fixed Income	5,000,000	4,968,846	0.169%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2024	4.50	Fixed Income	357	358	0.000%
JNLDoubleLine® Core Fixed Income Fund	Matheson Merger Sub	6/1/2026	8.00	Fixed Income	295,000	29,230	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2024	4.50	Fixed Income	202	203	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Penske Truck Leasing Co., L.P.	4/1/2027	4.20	Fixed Income	1,785,000	1,812,578	0.062%
JNLDoubleLine® Core Fixed Income Fund	Departamento Administrativo De La Presidencia De La Republica	4/25/2027	3.88	Fixed Income	680,000	686,450	0.020%
JNLDoubleLine® Core Fixed Income Fund	Bausch Health Companies Inc.	1/31/2027	8.50	Fixed Income	195,000	162,428	0.006%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2025	4.50	Fixed Income	196	196	0.000%
JNLDoubleLine® Core Fixed Income Fund	Commscope Technologies LLC	3/15/2027	5.00	Fixed Income	185,000	155,465	0.005%
JNLDoubleLine® Core Fixed Income Fund	Sabine Press Liquefaction, LLC	3/15/2027	5.00	Fixed Income	1,523,000	1,545,540	0.049%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2025	4.00	Fixed Income	3,999	3,999	0.000%
JNLDoubleLine® Core Fixed Income Fund	CCO Holdings, LLC	5/1/2027	5.13	Fixed Income	550,000	552,694	0.019%
JNLDoubleLine® Core Fixed Income Fund	NSTAR Electric Company	5/15/2027	3.20	Fixed Income	5,000,000	4,938,182	0.168%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2025	4.50	Fixed Income	230	230	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2025	4.00	Fixed Income	1,324	1,324	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2025	4.50	Fixed Income	1,689	1,689	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2025	4.50	Fixed Income	1,416	1,416	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2025	4.00	Fixed Income	437	436	0.000%
JNLDoubleLine® Core Fixed Income Fund	Millicom International Cellular SA	11/15/2028	5.13	Fixed Income	360,000	354,010	0.011%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.00	Fixed Income	288	288	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.00	Fixed Income	418	418	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.50	Fixed Income	3,620	3,622	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.00	Fixed Income	53	53	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.00	Fixed Income	967	966	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.50	Fixed Income	177	178	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.50	Fixed Income	24,800	24,810	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2025	4.00	Fixed Income	153	153	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2025	4.50	Fixed Income	53	53	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2025	4.00	Fixed Income	1,531	1,527	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2025	4.50	Fixed Income	2,199	2,200	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	15,257	15,273	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2025	4.00	Fixed Income	121	121	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2025	4.00	Fixed Income	2,855	2,849	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2025	4.00	Fixed Income	5,875	5,862	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2025	4.00	Fixed Income	2,917	2,909	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2025	4.00	Fixed Income	12,022	11,986	0.000%
JNLDoubleLine® Core Fixed Income Fund	Crown Castle Inc.	9/1/2027	3.65	Fixed Income	8,851,000	8,706,586	0.296%
JNLDoubleLine® Core Fixed Income Fund	Expedia Group, Inc.	2/15/2028	3.80	Fixed Income	2,260,000	2,228,352	0.076%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Commercial Mortgage Trust 2018-C43	3/1/2051	0.72	Fixed Income	59,672,805	1,009,235	0.034%
JNLDoubleLine® Core Fixed Income Fund	CSA1 2017 Cx10 Commercial Mortgage Trust	11/1/2027	4.42	Fixed Income	2,360,000	1,994,993	0.064%
JNLDoubleLine® Core Fixed Income Fund	Duke Energy Corporation	8/15/2027	3.15	Fixed Income	5,000,000	4,880,670	0.166%
JNLDoubleLine® Core Fixed Income Fund	UBS Commercial Mortgage Trust 2017-C4	10/15/2027	4.68	Fixed Income	3,298,000	2,888,563	0.098%
JNLDoubleLine® Core Fixed Income Fund	Arow Electronics, Inc.	11/1/2028	3.88	Fixed Income	1,850,000	1,823,964	0.062%
JNLDoubleLine® Core Fixed Income Fund	Match Group Holdings II, LLC	12/15/2027	5.00	Fixed Income	570,000	571,987	0.019%
JNLDoubleLine® Core Fixed Income Fund	Boston Gas Company	8/1/2027	3.15	Fixed Income	5,000,000	4,849,338	0.155%
JNLDoubleLine® Core Fixed Income Fund	NP SPE II LLC	10/20/2047	3.37	Fixed Income	1,633,986	1,597,151	0.054%
JNLDoubleLine® Core Fixed Income Fund	Shenton Aircraft Investment I Limited	11/15/2027	4.75	Fixed Income	1,575,079	1,513,226	0.051%
JNLDoubleLine® Core Fixed Income Fund	Cabinet Office, Government of Japan	12/20/2027	0.10	Fixed Income	52,800,000	963,967	0.031%
JNLDoubleLine® Core Fixed Income Fund	Government of the Republic of Panama	3/31/2028	3.88	Fixed Income	20,000,000	193,300	0.007%
JNLDoubleLine® Core Fixed Income Fund	Sandor-Palata	10/27/2027	3.00	Fixed Income	235,000,000	628,501	0.021%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Commercial Mortgage Trust 2016-GC36	1/12/2026	4.90	Fixed Income	2,892,000	2,559,240	0.087%
JNLDoubleLine® Core Fixed Income Fund	The Cleveland Electric Illuminating Company	4/1/2028	3.50	Fixed Income	1,500,000	1,474,651	0.050%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.00	Fixed Income	259	259	0.000%
JNLDoubleLine® Core Fixed Income Fund	UPL Corporation Limited	3/8/2028	4.50	Fixed Income	700,000	632,001	0.021%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.00	Fixed Income	1,009	1,006	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.00	Fixed Income	1,424	1,416	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.50	Fixed Income	408	409	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.00	Fixed Income	10,464	10,437	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.00	Fixed Income	4,455	4,443	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	4.00	Fixed Income	1,729	1,775	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2025	5.50	Fixed Income	2,028	2,028	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	53	52	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	1,027	1,025	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.50	Fixed Income	4,989	1,990	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	20,789	90,016	0.003%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	4,670	4,658	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.00	Fixed Income	2,517	2,514	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2025	4.00	Fixed Income	3,741	3,731	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2025	4.00	Fixed Income	336	336	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2025	4.00	Fixed Income	752	750	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2025	4.50	Fixed Income	718	718	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2025	4.00	Fixed Income	16,520	16,471	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2026	4.00	Fixed Income	1,127	1,119	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2026	4.00	Fixed Income	2,320	2,313	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2026	4.00	Fixed Income	541	539	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2026	4.00	Fixed Income	823	821	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2026	4.00	Fixed Income	1,680	1,676	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2026	4.50	Fixed Income	14,249	14,338	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2026	4.00	Fixed Income	619	617	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	24,351	24,277	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	2,555	2,555	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	2,948	2,939	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	17,765	17,710	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	14,437	14,393	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.50	Fixed Income	158	158	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	982	982	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	31,461	31,365	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	123	122	0.000%
JNLDoubleLine® Core Fixed Income Fund	Empresa Elctrica Anagninos S.p.A.	5/25/2029	4.88	Fixed Income	651,750	584,454	0.020%
JNLDoubleLine® Core Fixed Income Fund	South Africa, Parliament of	10/1/2028	4.30	Fixed Income	880,000	1,699,520	0.056%
JNLDoubleLine® Core Fixed Income Fund	Translec S.A.	11/12/2029	3.88	Fixed Income	2,500,000	2,413,627	0.082%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2026	4.00	Fixed Income	12,436	12,398	0.000%
JNLDoubleLine® Core Fixed Income Fund	GNL Quintero S.A.	7/31/2029	4.63	Fixed Income	1,471,000	1,471,452	0.050%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2026	4.00	Fixed Income	2,413	2,428	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2026	4.00	Fixed Income	12,239	12,201	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2026	4.00	Fixed Income	9,365	9,336	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2026	4.50	Fixed Income	998	1,004	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2026	4.50	Fixed Income	683	687	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2026	4.50	Fixed Income	131	132	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	14,280	14,236	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	2,015	2,009	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	6,699	6,176	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	53,489	53,325	0.002%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	3,399	3,389	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	3,303	3,293	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	2,542	2,528	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	1,252	1,248	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2026	4.00	Fixed Income	47,061	46,917	0.002%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2026	4.00	Fixed Income	9,920	9,990	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2026	4.00	Fixed Income	1,987	1,981	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2026	4.00	Fixed Income	3,123	3,113	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2026	4.50	Fixed Income	1,467	1,425	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2026	4.50	Fixed Income	567	571	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2026	4.00	Fixed Income	21,873	21,806	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2026	4.00	Fixed Income	10,676	10,646	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2026	4.50	Fixed Income	188	189	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2026	4.00	Fixed Income	1,020	1,017	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2026	4.00	Fixed Income	1,835	1,830	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2026	4.00	Fixed Income	19,274	19,215	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2026	4.00	Fixed Income	3,177	3,167	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	9/1/2026	4.00	Fixed Income	13,158	13,122	0.000%
JNLDoubleLine® Core Fixed Income Fund	Voya CLO 2014-1, Ltd.	4/18/2031	8.34	Fixed Income	1,000,000	1,018,320	0.035%
JNLDoubleLine® Core Fixed Income Fund	Dryden ST CLO Ltd	5/15/2031	7.93	Fixed Income	1,000,000	995,862	0.034%
JNLDoubleLine® Core Fixed Income Fund	Bairings CLO Ltd 2018-1	4/15/2031	8.16	Fixed Income	1,000,000	1,010,279	0.034%
JNLDoubleLine® Core Fixed Income Fund	LCM XV LP	7/22/2030	9.24	Fixed Income	2,750,000	2,807,687	0.095%
JNLDoubleLine® Core Fixed Income Fund	Long Point Park CLO, Ltd.	11/7/2030	7.95	Fixed Income	1,000,000	1,017,794	0.035%
JNLDoubleLine® Core Fixed Income Fund	Wind River 2014-1 CLO Ltd.	7/18/2031	8.54	Fixed Income	1,000,000	1,010,745	0.035%
JNLDoubleLine® Core Fixed Income Fund	RR 4 Ltd	4/15/2030	8.51	Fixed Income	1,000,000	1,020,609	0.035%
JNLDoubleLine® Core Fixed Income Fund	Voya CLO 2018-2 Ltd	7/15/2031	8.31	Fixed Income	1,000,000	1,018,656	0.035%
JNLDoubleLine® Core Fixed Income Fund	LCM XIV Limited Partnership	7/21/2031	8.29	Fixed Income	2,000,000	2,023,309	0.069%
JNLDoubleLine® Core Fixed Income Fund	Cock Park CLO, Ltd.	4/1/2030	8.15	Fixed Income	2,000,000	2,036,458	0.069%
JNLDoubleLine® Core Fixed Income Fund	South Africa, Parliament of	1/31/2030	8.00	Fixed Income	10,580,000	599,383	0.020%
JNLDoubleLine® Core Fixed Income Fund	Arium XII	11/21/2030	8.24	Fixed Income	1,000,000	1,016,896	0.035%
JNLDoubleLine® Core Fixed Income Fund	Canyon Capital CLO 2016-1 Ltd	7/15/2031	8.36	Fixed Income	1,000,000	1,008,281	0.034%
JNLDoubleLine® Core Fixed Income Fund	Greenwood Park CLO, Ltd.	4/15/2031	8.66	Fixed Income	1,000,000	1,019,888	0.035%
JNLDoubleLine® Core Fixed Income Fund	Oxagon Investment Partners 37 Ltd.	7/25/2033	8.40	Fixed Income	1,000,000	1,008,893	0.034%
JNLDoubleLine® Core Fixed Income Fund	Wind River 2014-2 CLO Ltd.	11/5/2031	8.46	Fixed Income	1,000,000	1,019,154	0.035%
JNLDoubleLine® Core Fixed Income Fund	Canyon Capital CLO 2014-1 Ltd	1/30/2031	8.27	Fixed Income	1,134,070	1,130,037	0.038%
JNLDoubleLine® Core							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Halliburton Company	11/15/2035	4.85	Fixed Income	925,000	940,649	0.032%
JNLDoubleLine® Core Fixed Income Fund	Option One Mortgage Loan Trust 2005-3	8/25/2037	5.75	Fixed Income	2,839,176	2,716,014	0.092%
JNLDoubleLine® Core Fixed Income Fund	First Horizon Mortgage Pass-Through Trust 2006-AR1	10/25/2035	5.35	Fixed Income	218,473	200,365	0.070%
JNLDoubleLine® Core Fixed Income Fund	Structured Asset Investment Loan Trust 2005-4	1/25/2036	5.59	Fixed Income	976,342	928,903	0.032%
JNLDoubleLine® Core Fixed Income Fund	First Horizon Mortgage Pass-Through Trust 2006-AR1	2/25/2036	5.42	Fixed Income	40,052	38,038	0.001%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Mortgage Loan Trust Inc.	11/25/2035	4.86	Fixed Income	1,117,136	1,119,540	0.038%
JNLDoubleLine® Core Fixed Income Fund	Chase Mortgage Finance Trust	12/25/2035	4.58	Fixed Income	39,377	38,381	0.001%
JNLDoubleLine® Core Fixed Income Fund	South Africa, Parliament of	2/28/2035	4.88	Fixed Income	12,600,000	680,823	0.023%
JNLDoubleLine® Core Fixed Income Fund	Banc of America Funding Corp	2/20/2035	5.09	Fixed Income	223,054	214,158	0.007%
JNLDoubleLine® Core Fixed Income Fund	J.P. Morgan Mortgage Trust 2005-A1	1/25/2036	5.75	Fixed Income	52,118	24,915	0.001%
JNLDoubleLine® Core Fixed Income Fund	WaMu Asset-Backed Certificates, WaMu Series 200X-HEX Trust	9/25/2034	6.00	Fixed Income	63,693	63,694	0.002%
JNLDoubleLine® Core Fixed Income Fund	Residential Accredit Loans, Inc.	1/25/2036	5.24	Fixed Income	3,132,886	2,317,821	0.079%
JNLDoubleLine® Core Fixed Income Fund	CWMBIS, Inc.	10/25/2034	5.50	Fixed Income	1,060,535	1,062,175	0.036%
JNLDoubleLine® Core Fixed Income Fund	Emirates Sembcorp Water & Power Company P.J.S.C.	8/1/2035	4.45	Fixed Income	1,000,000	963,508	0.033%
JNLDoubleLine® Core Fixed Income Fund	WaMu Mortgage Pass-Through Certificates Series 2003-AR9 Trust	1/25/2036	5.05	Fixed Income	137,035	126,523	0.004%
JNLDoubleLine® Core Fixed Income Fund	IndyMac MBS, Inc.	8/25/2035	3.95	Fixed Income	742,848	587,025	0.020%
JNLDoubleLine® Core Fixed Income Fund	MortgageIT Mortgage Loan Trust 2006-1	12/25/2035	5.49	Fixed Income	580,073	566,583	0.019%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2005-43	8/25/2035	5.97	Fixed Income	4,537,283	2,374,037	0.081%
JNLDoubleLine® Core Fixed Income Fund	CWMBIS, Inc.	12/25/2035	5.75	Fixed Income	875,329	438,378	0.015%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2005-43	8/25/2035	6.52	Fixed Income	162,338	156,063	0.005%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2005-45	11/20/2035	5.74	Fixed Income	2,762,787	2,594,053	0.088%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2005-45	11/25/2035	5.51	Fixed Income	5,762,743	2,922,268	0.099%
JNLDoubleLine® Core Fixed Income Fund	CSAMP Trust 2006-HE4	6/25/2036	5.25	Fixed Income	359,286	349,053	0.012%
JNLDoubleLine® Core Fixed Income Fund	ChaseFlex Trust Series 2007-3	7/25/2037	5.00	Fixed Income	335,592	117,254	0.004%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-HY11	6/25/2036	5.21	Fixed Income	4,526,976	4,197,550	0.143%
JNLDoubleLine® Core Fixed Income Fund	Option One Mortgage Loan Trust 2007-6	7/25/2037	5.10	Fixed Income	601,095	367,600	0.012%
JNLDoubleLine® Core Fixed Income Fund	BCAP LLC Trust 2011-RR5	3/26/2037	4.46	Fixed Income	45,699	44,123	0.001%
JNLDoubleLine® Core Fixed Income Fund	ABFC 2006-HE1 Trust	1/25/2037	5.19	Fixed Income	2,586,767	1,357,902	0.046%
JNLDoubleLine® Core Fixed Income Fund	SMB Private Education Loan Trust 2018-B	3/15/2028	5.93	Fixed Income	800,333	797,541	0.027%
JNLDoubleLine® Core Fixed Income Fund	BCAP LLC 2010-RR11-H Trust	3/27/2047	4.79	Fixed Income	4,057,759	3,089,103	0.105%
JNLDoubleLine® Core Fixed Income Fund	J.P. Morgan Mortgage Trust 2005-A1	4/25/2036	5.50	Fixed Income	12,017	11,817	0.000%
JNLDoubleLine® Core Fixed Income Fund	BCAP LLC Trust 2011-RR5	5/25/2037	5.00	Fixed Income	2,982,015	1,453,386	0.049%
JNLDoubleLine® Core Fixed Income Fund	CSMC Mortgage-Backed Trust 2006-6	7/25/2036	6.00	Fixed Income	1,264,405	623,553	0.021%
JNLDoubleLine® Core Fixed Income Fund	RASC Series 2006-EMX9 Trust	9/25/2036	5.31	Fixed Income	886,740	816,801	0.028%
JNLDoubleLine® Core Fixed Income Fund	Citicorp Mortgage Securities Trust, Series 2007-2	2/25/2037	6.00	Fixed Income	583,938	538,118	0.018%
JNLDoubleLine® Core Fixed Income Fund	Lehman VS Trust, Series 2007-2N	10/31/2025	5.12	Fixed Income	3,804,903	2,844,864	0.097%
JNLDoubleLine® Core Fixed Income Fund	WaMu Mortgage Pass-Through Certificates, Series 2006-AR8 Trust	8/25/2036	4.97	Fixed Income	779,399	749,695	0.025%
JNLDoubleLine® Core Fixed Income Fund	MASTR Asset Backed Securities Trust 2007-HE2	8/25/2037	6.12	Fixed Income	3,730,306	3,237,243	0.110%
JNLDoubleLine® Core Fixed Income Fund	WaMu Mortgage Pass-Through Certificates Series 2007-HY1 Trust	2/25/2037	4.17	Fixed Income	783,986	698,102	0.024%
JNLDoubleLine® Core Fixed Income Fund	WaMu Mortgage Pass-Through Certificates Series 2007-HY1 Trust	7/25/2037	4.17	Fixed Income	71,707	72,638	0.002%
JNLDoubleLine® Core Fixed Income Fund	J.P. Morgan Mortgage Acquisition Trust 2007-CH1	11/25/2036	5.79	Fixed Income	1,395,595	1,480,050	0.050%
JNLDoubleLine® Core Fixed Income Fund	WaMu Mortgage Pass-Through Certificates, Series 2007-HY7 Trust	7/25/2037	4.15	Fixed Income	136,813	126,895	0.004%
JNLDoubleLine® Core Fixed Income Fund	Fermacca Enterprises S. de R.L. de C.V.	3/30/2038	6.38	Fixed Income	3,674,885	3,650,220	0.124%
JNLDoubleLine® Core Fixed Income Fund	Oracle Corporation	11/15/2037	3.80	Fixed Income	810,000	178,150	0.006%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Mortgage Loan Trust 2007-FS1	10/25/2037	4.27	Fixed Income	1,598,354	1,558,259	0.053%
JNLDoubleLine® Core Fixed Income Fund	CSMC Series 2010-18R	4/27/2038	3.50	Fixed Income	200,717	192,197	0.007%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	2/15/2038	5.00	Fixed Income	343,606	352,392	0.012%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	11/15/2039	5.00	Fixed Income	47,917	49,273	0.002%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	2/15/2039	5.00	Fixed Income	252,793	259,414	0.009%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	3/15/2039	5.00	Fixed Income	62,758	64,406	0.002%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	3/15/2039	5.00	Fixed Income	198,840	204,033	0.007%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	4/15/2039	5.00	Fixed Income	1,549,919	1,515,232	0.049%
JNLDoubleLine® Core Fixed Income Fund	Bombardier Inc.	4/15/2027	7.88	Fixed Income	267,000	277,445	0.009%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	6/15/2039	5.00	Fixed Income	14,556	14,952	0.001%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	6/15/2039	5.00	Fixed Income	1,812	1,860	0.000%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	7/15/2039	5.00	Fixed Income	566,810	582,028	0.002%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	1/1/2039	6.98	Fixed Income	1,149,211	1,175,978	0.040%
JNLDoubleLine® Core Fixed Income Fund	Enuguale Trust	5/3/2027	5.88	Fixed Income	600,000	604,716	0.021%
JNLDoubleLine® Core Fixed Income Fund	Cabinet Office, Government of Japan	3/20/2031	1.90	Fixed Income	133,000,000	1,004,723	0.034%
JNLDoubleLine® Core Fixed Income Fund	Mosaic Solar Loans 2017-2 LLC	1/22/2030	3.82	Fixed Income	2,127,956	2,594,518	0.088%
JNLDoubleLine® Core Fixed Income Fund	Nalagis LLC	10/31/2025	9.12	Fixed Income	324,118	298,439	0.010%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	11/15/2041	2.50	Fixed Income	211,326	207,544	0.007%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2038	4.50	Fixed Income	23,990	24,290	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2038	4.50	Fixed Income	178,463	180,694	0.006%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2038	4.50	Fixed Income	128,395	130,030	0.004%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2038	4.50	Fixed Income	32,216	32,619	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2038	5.00	Fixed Income	88,150	90,829	0.003%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2039	5.00	Fixed Income	9,243	9,520	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2039	5.00	Fixed Income	155,229	151,715	0.005%
JNLDoubleLine® Core Fixed Income Fund	Enable Midstream Partners, LP	5/15/2044	5.00	Fixed Income	2,248,000	2,099,406	0.071%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	24,305	24,601	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	52,781	53,427	0.002%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	19,534	20,133	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	10,760	10,893	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	18,312	18,533	0.001%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	11/15/2044	3.00	Fixed Income	385,231	357,462	0.012%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	35,291	35,715	0.001%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	11/15/2045	3.00	Fixed Income	222,394	206,363	0.007%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2040	5.00	Fixed Income	4,931	5,082	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2040	4.50	Fixed Income	4,738	4,797	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2040	4.50	Fixed Income	18,610	18,696	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2040	4.50	Fixed Income	11,655	11,798	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2040	4.50	Fixed Income	184,972	187,277	0.006%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2040	4.50	Fixed Income	4,930	4,992	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2040	4.50	Fixed Income	6,151	6,227	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	24,619	25,429	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2040	4.50	Fixed Income	3,108	3,146	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	7,284	7,374	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2040	5.00	Fixed Income	16,465	16,672	0.001%
JNLDoubleLine® Core Fixed Income Fund	Claris Global LP	5/15/2025	5.25	Fixed Income	132,000	135,132	0.005%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2040	4.50	Fixed Income	10,171	10,297	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2040	4.50	Fixed Income	38,361	38,807	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.50	Fixed Income	345,681	349,984	0.012%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.50	Fixed Income	15,459	15,715	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.50	Fixed Income	1,724	1,744	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.50	Fixed Income	75,002	75,936	0.003%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2040	4.50	Fixed Income	6,390	6,470	0.000%
JNLDoubleLine® Core Fixed Income Fund	Abbyvie Inc.	5/14/2045	4.70	Fixed Income	2,292,000	2,256,169	0.077%
JNLDoubleLine® Core Fixed Income Fund	Ecopetrol S.A.	5/28/2045	5.88	Fixed Income	250,000	193,060	0.007%
JNLDoubleLine® Core Fixed Income Fund	Departamento Administrativo De La Presidencia De La Republica	6/15/2045	5.00	Fixed Income	600,000	450,602	0.015%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2041	4.50	Fixed Income	4,111	4,162	0.000%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	5/15/2045	3.00	Fixed Income	46,189	42,844	0.001%
JNLDoubleLine® Core Fixed Income Fund	Banco De Bodega	5/12/2026	6.25	Fixed Income	400,000	411,207	0.014%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	7/15/2045	3.00	Fixed Income	286,224	265,592	0.009%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2041	4.50	Fixed Income	3,349	3,390	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2041	4.50	Fixed Income	12,442	12,591	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2041	4.50	Fixed Income	291,265	294,715	0.010%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2041	4.50	Fixed Income	4,564	4,621	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2041	4.50	Fixed Income	20,578	20,834	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2041	4.50	Fixed Income	53,975	54,645	0.002%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2041	4.50	Fixed Income	41,519	42,036	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2041	4.50	Fixed Income	6,771	6,856	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2041	4.50	Fixed Income	29,123	29,483	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2042	4.50	Fixed Income	5,503	5,572	0.000%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	7/1/2042	4.50	Fixed Income	2,239	2,267	0.000%
JNLDoubleLine® Core Fixed Income Fund	CommScope, Inc.	2/7/2026	8.61	Fixed Income	207,883	201,131	0.007%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2043	5.00	Fixed Income	34,360	35,544	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	3/1/2044	5.00	Fixed Income	32,935	33,984	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2044	5.00	Fixed Income	24,061	24,827	0.001%
JNLDoubleLine® Core Fixed Income Fund	Vedanta Resources Finance II PLC	4/23/2026	9.25	Fixed Income	200,000	206,210	0.007%
JNLDoubleLine® Core Fixed Income Fund	Mexico Generadora De Energia, S. De R.L. De C.V.	12/6/2032	5.50	Fixed Income	604,840	614,567	0.021%
JNLDoubleLine® Core Fixed Income Fund	CF 2019-CF1 Mortgage Trust	5/17/2052	4.12	Fixed Income	2,737,000	983,927	0.033%
JNLDoubleLine® Core Fixed Income Fund	Vesta Fargo Commercial Mortgage Trust 2019-CS0	4/15/2029	4.35	Fixed Income	3,189,000	2,811,298	0.095%
JNLDoubleLine® Core Fixed Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	3/5/2026	5.75	Fixed Income	14,000,000	678,016	0.023%
JNLDoubleLine® Core Fixed Income Fund	NuStar Logistics, L.P.	6/1/2026	6.00	Fixed Income	510,000	523,605	0.018%
JNLDoubleLine® Core Fixed Income Fund	Berry Global Escrow Corporation	7/15/2026	4.88	Fixed Income	861,000	866,508	0.029%
JNLDoubleLine® Core Fixed Income Fund	Marathon Petroleum Corporation	12/15/2026	5.13	Fixed Income	1,581,540	1,581,540	0.046%
JNLDoubleLine® Core Fixed Income Fund	Start Ltd	5/15/2025	4.09	Fixed Income	824,966	795,939	0.027%
JNLDoubleLine® Core Fixed Income Fund	Octagon Investment Partners XVI, Ltd.	7/17/2030	8.55	Fixed Income	500,000	502,137	0.017%
JNLDoubleLine® Core Fixed Income Fund	HCA Inc.	6/15/2049	5.25	Fixed Income	4,649,000	4,693,873	0.159%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	ONEOK, Inc.	9/1/2029	3.40	Fixed Income	1,235,000	1,177,768	0.040%
JNLDoubleLine® Core Fixed Income Fund	Private Funding LLC	7/30/2027	4.45	Fixed Income	4,812,500	4,812,500	0.152%
JNLDoubleLine® Core Fixed Income Fund	Cometa Energia SA de CV	4/24/2035	6.38	Fixed Income	624,800	649,239	0.022%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	3/20/2049	2.50	Fixed Income	5,220,435	4,681,281	0.159%
JNLDoubleLine® Core Fixed Income Fund	TransCanada Pipelines Limited	3/1/2034	4.63	Fixed Income	3,000,000	2,963,050	0.101%
JNLDoubleLine® Core Fixed Income Fund	Petroleos del Peru - Petroperu S.A.	9/19/2032	4.75	Fixed Income	1,000,000	789,497	0.027%
JNLDoubleLine® Core Fixed Income Fund	Cencosud S.A.	7/17/2027	4.38	Fixed Income	200,000	200,135	0.007%
JNLDoubleLine® Core Fixed Income Fund	Credito Real, S.A.B. de C.V., Sofom, E.N.R.	1/1/2200	3.17	Fixed Income	1,100,000	5,500	0.000%
JNLDoubleLine® Core Fixed Income Fund	GS Mortgage Securities Trust 2015-GC32	7/11/2025	3.35	Fixed Income	1,969,000	1,820,991	0.062%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2047	3.00	Fixed Income	1,433,095	3,722,749	0.126%
JNLDoubleLine® Core Fixed Income Fund	BRICMS 2019-TALL Mortgage Trust	3/16/2027	8.53	Fixed Income	4,330,000	3,013,698	0.102%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	7/1/2047	3.00	Fixed Income	1,899,843	1,742,359	0.059%
JNLDoubleLine® Core Fixed Income Fund	Installed Building Products, Inc.	2/1/2028	5.75	Fixed Income	425,000	427,461	0.015%
JNLDoubleLine® Core Fixed Income Fund	SRVM 191 A2 FXI	10/25/2026	3.88	Fixed Income	3,810,000	3,742,652	0.127%
JNLDoubleLine® Core Fixed Income Fund	Banco Mercantil del Norte, S.A., Institucion De Banca Multiple, Grupo Financiero Banorte	1/1/2200	7.50	Fixed Income	200,000	200,148	0.007%
JNLDoubleLine® Core Fixed Income Fund	Telesat Canada	10/15/2027	6.50	Fixed Income	70,000	25,322	0.001%
JNLDoubleLine® Core Fixed Income Fund	WAVE 2019-1 LLC	9/15/2027	3.60	Fixed Income	1,827,269	1,748,512	0.059%
JNLDoubleLine® Core Fixed Income Fund	Alliant Holdings Intermediate LLC	10/15/2027	6.75	Fixed Income	470,000	483,007	0.016%
JNLDoubleLine® Core Fixed Income Fund	BRICMS Mortgage Trust 2019-C3	5/17/2029	4.18	Fixed Income	4,250,000	3,702,924	0.118%
JNLDoubleLine® Core Fixed Income Fund	Mach 1 Cayman Limited	8/1/2026	3.47	Fixed Income	3,736,576	3,477,728	0.118%
JNLDoubleLine® Core Fixed Income Fund	CSC Holdings, LLC	4/15/2027	7.71	Fixed Income	410,699	376,231	0.013%
JNLDoubleLine® Core Fixed Income Fund	CCO Holdings, LLC	3/1/2030	4.75	Fixed Income	745,000	687,395	0.023%
JNLDoubleLine® Core Fixed Income Fund	CCet Buyer, Inc.	7/31/2026	9.25	Fixed Income	211,330	204,812	0.007%
JNLDoubleLine® Core Fixed Income Fund	Sumrun Assets Issuer 2019-2, LLC	11/1/2027	3.61	Fixed Income	2,565,049	2,428,635	0.082%
JNLDoubleLine® Core Fixed Income Fund	Medco Oak Tree Pte. Ltd.	5/14/2026	7.38	Fixed Income	1,400,000	1,458,570	0.050%
JNLDoubleLine® Core Fixed Income Fund	Horizon Aircraft Finance III Limited	11/15/2026	3.43	Fixed Income	1,433,525	1,732,566	0.043%
JNLDoubleLine® Core Fixed Income Fund	Freemport McMoran Inc.	9/1/2029	8.00	Fixed Income	300,000	305,424	0.010%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo & Company	10/30/2030	2.88	Fixed Income	2,133,000	2,005,705	0.068%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2029	2.14	Fixed Income	19,300,000	17,757,514	0.603%
JNLDoubleLine® Core Fixed Income Fund	Mosaic Solar Loan Trust 2019-2	5/20/2032	3.28	Fixed Income	560,262	505,682	0.017%
JNLDoubleLine® Core Fixed Income Fund	Dana Incorporated	11/15/2027	3.38	Fixed Income	120,000	121,536	0.004%
JNLDoubleLine® Core Fixed Income Fund	ARD Finance S.A.	8/30/2027	6.50	Fixed Income	200,000	49,255	0.002%
JNLDoubleLine® Core Fixed Income Fund	Light and Wonder International, Inc.	11/15/2029	7.25	Fixed Income	243,000	260,175	0.009%
JNLDoubleLine® Core Fixed Income Fund	Bank 2019-BNK23	11/16/2029	2.92	Fixed Income	2,331,000	2,154,751	0.073%
JNLDoubleLine® Core Fixed Income Fund	VCI Properties Inc.	12/1/2029	4.63	Fixed Income	2,335,000	2,325,680	0.079%
JNLDoubleLine® Core Fixed Income Fund	Talwind 2019-1 Limited	12/15/2026	3.97	Fixed Income	2,484,033	2,393,153	0.080%
JNLDoubleLine® Core Fixed Income Fund	Telesat Canada	6/1/2027	4.88	Fixed Income	55,000	26,333	0.001%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	11/1/2029	2.28	Fixed Income	10,700,000	9,856,237	0.335%
JNLDoubleLine® Core Fixed Income Fund	Cleary Energy Operating LLC	3/15/2028	4.75	Fixed Income	550,000	540,973	0.018%
JNLDoubleLine® Core Fixed Income Fund	Grifco Worldwide Operations USA, Inc.	11/15/2027	7.40	Fixed Income	247,298	243,333	0.008%
JNLDoubleLine® Core Fixed Income Fund	Calpine Corporation	2/15/2028	4.50	Fixed Income	585,000	574,463	0.020%
JNLDoubleLine® Core Fixed Income Fund	Bancolombia SA	12/18/2029	4.63	Fixed Income	1,900,959	1,903,959	0.065%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/25/2048		Fixed Income	5,240,437	3,956,759	0.134%
JNLDoubleLine® Core Fixed Income Fund	URS Commercial Mortgage Trust 2019-C18	5/1/2029	3.68	Fixed Income	3,650,000	3,192,403	0.108%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2006-OC3	3/25/2036	5.55	Fixed Income	5,244,506	4,475,429	0.152%
JNLDoubleLine® Core Fixed Income Fund	JPMBB Commercial Mortgage Securities Trust 2014-C23	9/1/2047	4.21	Fixed Income	2,747,250	2,395,560	0.081%
JNLDoubleLine® Core Fixed Income Fund	Telesat Canada	11/22/2026	8.07	Fixed Income	83,510	41,467	0.001%
JNLDoubleLine® Core Fixed Income Fund	Morgan Stanley Capital I Trust 2019-NUGS	12/15/2036	8.05	Fixed Income	3,663,000	86,273	0.003%
JNLDoubleLine® Core Fixed Income Fund	Bausch Health Companies Inc.	1/30/2030	5.25	Fixed Income	125,000	71,121	0.002%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2029	2.37	Fixed Income	12,200,000	11,274,342	0.383%
JNLDoubleLine® Core Fixed Income Fund	HSI Asset Securitization Corporation	10/25/2036	5.25	Fixed Income	5,374,976	1,661,184	0.056%
JNLDoubleLine® Core Fixed Income Fund	Transocean Inc.	2/1/2027	8.00	Fixed Income	189,000	181,424	0.007%
JNLDoubleLine® Core Fixed Income Fund	Allico Financing S.A.	1/15/2028	5.00	Fixed Income	245,000	209,762	0.007%
JNLDoubleLine® Core Fixed Income Fund	New Residential Mortgage Loan Trust 2020-NOM1	1/25/2060	3.21	Fixed Income	3,600,000	3,151,553	0.107%
JNLDoubleLine® Core Fixed Income Fund	BAMLL Commercial Mortgage Securities Trust 2016-ISQR	8/14/2026	3.73	Fixed Income	3,125,000	1,470,441	0.050%
JNLDoubleLine® Core Fixed Income Fund	Novelis Corporation	1/30/2030	4.75	Fixed Income	425,000	424,708	0.014%
JNLDoubleLine® Core Fixed Income Fund	SCAP LLC Trust 2007-AA2	5/25/2027	9.08	Fixed Income	1,231,365	1,283,200	0.044%
JNLDoubleLine® Core Fixed Income Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LOOP	12/7/2026	3.99	Fixed Income	2,547,000	408,876	0.014%
JNLDoubleLine® Core Fixed Income Fund	Prime Service Services Borrower, LLC	11/15/2028	6.25	Fixed Income	225,000	228,016	0.008%
JNLDoubleLine® Core Fixed Income Fund	RAL Series 2007-QS7 Trust	5/25/2037	6.00	Fixed Income	2,556,900	1,954,420	0.068%
JNLDoubleLine® Core Fixed Income Fund	Navient Corporation	2/15/2027	5.00	Fixed Income	280,000	298,153	0.010%
JNLDoubleLine® Core Fixed Income Fund	Corporacion De Securite Garda World	2/15/2027	4.63	Fixed Income	625,000	617,345	0.021%
JNLDoubleLine® Core Fixed Income Fund	Dealer Tire, LLC	2/1/2028	8.00	Fixed Income	325,000	329,105	0.011%
JNLDoubleLine® Core Fixed Income Fund	ABFC 2007-WMCL Trust	6/25/2037	6.22	Fixed Income	2,996,269	1,687,577	0.057%
JNLDoubleLine® Core Fixed Income Fund	Ziggo Financing Partnership	7/1/2028	7.71	Fixed Income	270,000	254,333	0.009%
JNLDoubleLine® Core Fixed Income Fund	Castle United States Holding Corporation	2/15/2028	9.50	Fixed Income	90,000	42,163	0.001%
JNLDoubleLine® Core Fixed Income Fund	Sumnova Sol Issuer, LLC	1/30/2030	3.35	Fixed Income	2,581,514	2,255,778	0.077%
JNLDoubleLine® Core Fixed Income Fund	Castle US Holding Corporation	2/28/2027	9.07	Fixed Income	143,128	95,746	0.003%
JNLDoubleLine® Core Fixed Income Fund	Sagphire Aviation Finance I Limited	3/15/2027	3.23	Fixed Income	1,869,261	1,650,589	0.054%
JNLDoubleLine® Core Fixed Income Fund	Lifpoint Health, Inc.	2/15/2027	4.38	Fixed Income	515,000	507,845	0.017%
JNLDoubleLine® Core Fixed Income Fund	Willis Engine Structured Trust V	3/15/2028	3.23	Fixed Income	3,802,226	3,489,689	0.119%
JNLDoubleLine® Core Fixed Income Fund	Mattamy Homes Limited	3/1/2030	4.63	Fixed Income	645,000	620,067	0.021%
JNLDoubleLine® Core Fixed Income Fund	Zayo Group Holdings, Inc.	7/20/2027	8.36	Fixed Income	289,539	270,801	0.009%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Commercial Mortgage Trust 2020-555	12/12/2029	3.62	Fixed Income	2,584,000	2,126,085	0.072%
JNLDoubleLine® Core Fixed Income Fund	Estado Espanol	4/30/2030	0.50	Fixed Income	1,170,000	1,171,911	0.040%
JNLDoubleLine® Core Fixed Income Fund	Icahn Enterprises LP	5/15/2027	5.25	Fixed Income	415,000	405,926	0.014%
JNLDoubleLine® Core Fixed Income Fund	Alice Franco	2/15/2028	6.00	Fixed Income	435,000	1,190,666	0.040%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	3/31/2027	0.63	Fixed Income	700,000	650,684	0.022%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	3/31/2025	0.50	Fixed Income	120,000	117,714	0.004%
JNLDoubleLine® Core Fixed Income Fund	Exxon Mobil Corporation	3/19/2040	4.23	Fixed Income	1,944,000	1,825,034	0.062%
JNLDoubleLine® Core Fixed Income Fund	JP Morgan Chase & Co.	4/22/2033	2.52	Fixed Income	2,757,000	2,535,653	0.085%
JNLDoubleLine® Core Fixed Income Fund	Dorfield Dakota Holding, LLC	3/5/2027	9.08	Fixed Income	1,014,590	993,093	0.034%
JNLDoubleLine® Core Fixed Income Fund	Grifon Corporation	3/1/2028	5.75	Fixed Income	420,000	416,237	0.014%
JNLDoubleLine® Core Fixed Income Fund	The Southern Company	4/30/2030	3.70	Fixed Income	2,500,000	2,450,046	0.083%
JNLDoubleLine® Core Fixed Income Fund	Dominion Energy, Inc.	4/1/2030	3.38	Fixed Income	4,500,000	4,337,229	0.147%
JNLDoubleLine® Core Fixed Income Fund	ITC Holdings Corp.	5/14/2030	2.95	Fixed Income	1,250,000	1,167,292	0.040%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	5/15/2030	0.63	Fixed Income	76,420,000	65,065,764	2.209%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	5/15/2050	1.25	Fixed Income	1,780,000	960,704	0.033%
JNLDoubleLine® Core Fixed Income Fund	Live Nation Entertainment, Inc.	5/15/2027	6.50	Fixed Income	260,000	271,612	0.009%
JNLDoubleLine® Core Fixed Income Fund	MI Homes, Inc.	7/1/2028	4.18	Fixed Income	380,000	376,800	0.012%
JNLDoubleLine® Core Fixed Income Fund	AT&T Inc.	6/1/2031	2.75	Fixed Income	4,000,000	3,651,760	0.124%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	5/15/2040	1.13	Fixed Income	13,920,000	9,250,701	0.314%
JNLDoubleLine® Core Fixed Income Fund	Arloph Packaging Finance Public Limited Company	8/15/2027	5.25	Fixed Income	255,000	197,544	0.007%
JNLDoubleLine® Core Fixed Income Fund	CCL Industries Inc.	9/1/2030	3.25	Fixed Income	1,477,000	1,360,589	0.046%
JNLDoubleLine® Core Fixed Income Fund	Mill City Mortgage Loan Trust 2017-1	9/25/2030	4.05	Fixed Income	8,210,000	7,522,888	0.255%
JNLDoubleLine® Core Fixed Income Fund	CSAL 2016-C6 Commercial Mortgage Trust	4/1/2026	3.92	Fixed Income	1,097,000	1,019,293	0.035%
JNLDoubleLine® Core Fixed Income Fund	GSF Mortgage Loan Trust 2006-OA1	8/25/2046	5.41	Fixed Income	15,461,340	3,560,048	0.121%
JNLDoubleLine® Core Fixed Income Fund	GS Mortgage Securities Corp Trust 2018-RVR	7/15/2035	6.39	Fixed Income	1,898,000	1,100,147	0.039%
JNLDoubleLine® Core Fixed Income Fund	Venus Securitization Trust 2020-1	3/25/2060	3.89	Fixed Income	1,863,000	1,855,471	0.063%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Mortgage Backed Securities 2007-15 Trust	11/25/2037	6.00	Fixed Income	1,665,318	1,507,655	0.051%
JNLDoubleLine® Core Fixed Income Fund	TransDigm Inc.	11/15/2027	5.50	Fixed Income	520,000	529,957	0.018%
JNLDoubleLine® Core Fixed Income Fund	Equinox, Inc.	7/15/2027	1.90	Fixed Income	1,815,000	1,803,775	0.061%
JNLDoubleLine® Core Fixed Income Fund	Level 3 Financing, Inc.	7/1/2028	4.25	Fixed Income	180,000	146,336	0.005%
JNLDoubleLine® Core Fixed Income Fund	Mosaic Solar Loan Trust 2020-1	3/22/2032	2.10	Fixed Income	782,089	709,414	0.024%
JNLDoubleLine® Core Fixed Income Fund	Mosaic Solar Loan Trust 2020-1	11/22/2032	3.10	Fixed Income	977,612	853,997	0.029%
JNLDoubleLine® Core Fixed Income Fund	Sumnova Helios IV Issuer, LLC	6/23/2027	2.88	Fixed Income	1,665,469	1,484,786	0.051%
JNLDoubleLine® Core Fixed Income Fund	Burninate Buyer LLC	7/1/2028	9.08	Fixed Income	485,007	471,721	0.017%
JNLDoubleLine® Core Fixed Income Fund	Dana Incorporated	6/15/2028	5.63	Fixed Income	300,000	309,353	0.011%
JNLDoubleLine® Core Fixed Income Fund	NeaApp, Inc.	6/22/2025	1.88	Fixed Income	2,051,000	2,023,038	0.069%
JNLDoubleLine® Core Fixed Income Fund	Venture XVII CLO Limited	10/15/2029	7.21	Fixed Income	816,399	830,465	0.028%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Alternative Loan 2007-PA6 Trust	12/25/2037	6.40	Fixed Income	364,657	139,778	0.005%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	6/30/2025	0.25	Fixed Income	530,000	515,180	0.017%
JNLDoubleLine® Core Fixed Income Fund	Banco de Credito del Peru	7/1/2030	3.13	Fixed Income	800,000	789,243	0.027%
JNLDoubleLine® Core Fixed Income Fund	Dryden 40 Senior Loan Fund	8/15/2031	8.48	Fixed Income	1,000,000	1,012,907	0.034%
JNLDoubleLine® Core Fixed Income Fund	Enersight Energy LLC	6/30/2027	13.43	Fixed Income	135,883	122,365	0.004%
JNLDoubleLine® Core Fixed Income Fund	TK Elevator U.S. Newco, Inc.	7/15/2027	5.25	Fixed Income	325,000	325,263	0.011%
JNLDoubleLine® Core Fixed Income Fund	Magnum Management Corporation	7/15/2029	5.25	Fixed Income	280,000	278,258	0.009%
JNLDoubleLine® Core Fixed Income Fund	Freemport-McMoran Inc.	8/1/2028	4.38	Fixed Income	200,000	199,748	0.007%
JNLDoubleLine® Core Fixed Income Fund	Freemport-McMoran Inc.	8/1/2030	4.63	Fixed Income	100,000	100,108	0.003%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Mortgage Loan Trust 2018-RP1	9/25/2064	3.00	Fixed Income	1,500,000	1,280,541	0.043%
JNLDoubleLine® Core Fixed Income Fund	Goodgreen 2020-1 Trust	4/15/2055	2.63	Fixed Income	526,711	446,611	0.015%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	7/31/2025	0.25	Fixed Income	530,000	513,744	0.017%
JNLDoubleLine® Core Fixed Income Fund	Group 1 Automotive, Inc.	8/15/2028	4.00	Fixed Income	275,000	263,821	0.009%
JNLDoubleLine® Core Fixed Income Fund	Bundesrepublik Deutschland	8/15/2030		Fixed Income	640,000	637,626	0.022%
JNLDoubleLine® Core Fixed Income Fund	Wyndham Hotels & Resorts, Inc.	8/15/2028	4.38	Fixed Income	585,000	567,404	0.019%
JNLDoubleLine® Core Fixed Income Fund	Iron Mountain Incorporated	2/15/2031	4.50	Fixed Income	275,000	262,607	0.009%
JNLDoubleLine® Core Fixed Income Fund	XHR LP	8/15/2025	6.38	Fixed Income	280,000	189,325	0.007%
JNLDoubleLine® Core Fixed Income Fund	Treasury, United States Department of	8/15/2030	0.63	Fixed Income	72,550,000	61,192,619	2.078%
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Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Structured Asset Securities Corporation Mortgage Loan Trust 2006-BC3	10/25/2036	5.29	Fixed Income	3,187,239	2,237,049	0.076%
JNLDoubleLine® Core Fixed Income Fund	Canwell Acquisition Corp.	8/17/2027	9.43	Fixed Income	800,809	800,809	0.027%
JNLDoubleLine® Core Fixed Income Fund	AMSR 2020-SFR5 Trust	11/19/2025	2.68	Fixed Income	8,000,000	7,771,744	0.264%
JNLDoubleLine® Core Fixed Income Fund	AMSR 2020-SFR5 Trust	11/19/2025	2.93	Fixed Income	10,000,000	9,725,877	0.330%
JNLDoubleLine® Core Fixed Income Fund	SG Mortgage Securities Trust 2006-FRE2	7/25/2036	1.38	Fixed Income	15,985,437	2,904,957	0.102%
JNLDoubleLine® Core Fixed Income Fund	Optim One Mortgage Loan Trust 2007-CP1	3/25/2037	5.09	Fixed Income	1,395,517	1,334,762	0.046%
JNLDoubleLine® Core Fixed Income Fund	C-BASS 2007-CB1 Trust	1/25/2037	3.19	Fixed Income	2,542,768	748,525	0.025%
JNLDoubleLine® Core Fixed Income Fund	COLT 2020-RPL1 Trust	1/25/2065	2.88	Fixed Income	4,257,000	3,338,971	0.113%
JNLDoubleLine® Core Fixed Income Fund	Departamento Administrativo De La Presidencia De La Republica	5/15/2051	4.13	Fixed Income	2,700,000	1,746,443	0.059%
JNLDoubleLine® Core Fixed Income Fund	BBCMS Mortgage Trust 2021-C9	2/18/2031	2.30	Fixed Income	2,916,000	2,561,571	0.087%
JNLDoubleLine® Core Fixed Income Fund	Tenet Healthcare Corporation	2/1/2027	6.25	Fixed Income	335,000	339,366	0.012%
JNLDoubleLine® Core Fixed Income Fund	Bundesrepublik Deutschland	8/15/2032	1.70	Fixed Income	1,150,000	1,256,029	0.043%
JNLDoubleLine® Core Fixed Income Fund	Alexandria Real Estate Equities, Inc.	4/15/2053	5.15	Fixed Income	465,400	455,464	0.015%
JNLDoubleLine® Core Fixed Income Fund	Uniti Group Inc.	2/15/2028	10.50	Fixed Income	250,000	268,023	0.009%
JNLDoubleLine® Core Fixed Income Fund	Casavus Entertainment Inc.	1/25/2039	8.00	Fixed Income	115,125	118,783	0.004%
JNLDoubleLine® Core Fixed Income Fund	American Airlines, Inc.	2/15/2028	7.25	Fixed Income	540,000	557,598	0.019%
JNLDoubleLine® Core Fixed Income Fund	Ireland, Government of	5/15/2029	1.10	Fixed Income	720,000	767,236	0.026%
JNLDoubleLine® Core Fixed Income Fund	Verus Securitization Trust 2023-INV1	2/25/2068	6.00	Fixed Income	5,335,848	5,394,549	0.183%
JNLDoubleLine® Core Fixed Income Fund	Jacobs Engineering Group Inc.	3/1/2033	5.30	Fixed Income	1,565,000	1,644,768	0.056%
JNLDoubleLine® Core Fixed Income Fund	Amgen Inc.	3/2/2063	5.75	Fixed Income	3,162,000	3,358,559	0.114%
JNLDoubleLine® Core Fixed Income Fund	CT Trust	2/3/2032	5.13	Fixed Income	700,000	646,721	0.022%
JNLDoubleLine® Core Fixed Income Fund	Romania, Government of	11/25/2024	3.70	Fixed Income	6,970,000	1,602,826	0.054%
JNLDoubleLine® Core Fixed Income Fund	Advanced Drainage Systems, Inc.	6/15/2030	6.38	Fixed Income	508,000	525,330	0.018%
JNLDoubleLine® Core Fixed Income Fund	United Overseas Bank Limited	10/14/2031	2.00	Fixed Income	900,000	861,127	0.029%
JNLDoubleLine® Core Fixed Income Fund	Alice France S.A.	8/31/2028	10.80	Fixed Income	425,707	328,004	0.011%
JNLDoubleLine® Core Fixed Income Fund	Asurion LLC	8/19/2028	9.60	Fixed Income	118,869	117,011	0.004%
JNLDoubleLine® Core Fixed Income Fund	San Diego Gas & Electric Company	4/1/2053	5.00	Fixed Income	650,000	684,968	0.023%
JNLDoubleLine® Core Fixed Income Fund	Sedgwick Claims Management Services, Inc.	2/16/2028	8.25	Fixed Income	500,000	504,479	0.017%
JNLDoubleLine® Core Fixed Income Fund	Bank 2021-BNK38	12/15/2031	2.52	Fixed Income	3,800,000	3,287,924	0.112%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	4/20/2047	3.50	Fixed Income	4,082,043	3,902,942	0.133%
JNLDoubleLine® Core Fixed Income Fund	AEP Transmission Company, LLC	3/15/2053	5.40	Fixed Income	425,000	1,443,141	0.049%
JNLDoubleLine® Core Fixed Income Fund	JSW Energy Limited	1/15/2031	4.13	Fixed Income	989,000	917,274	0.031%
JNLDoubleLine® Core Fixed Income Fund	Vantage Specialty Chemicals, Inc.	10/26/2026	9.87	Fixed Income	198,744	197,871	0.007%
JNLDoubleLine® Core Fixed Income Fund	INEOS US Finance LLC	2/9/2030	8.50	Fixed Income	926,039	925,089	0.031%
JNLDoubleLine® Core Fixed Income Fund	Eagle Parent Corp.	3/17/2029	9.58	Fixed Income	48,045	45,466	0.002%
JNLDoubleLine® Core Fixed Income Fund	UnitedHealth Group Incorporated	4/15/2053	5.40	Fixed Income	2,981,000	2,429,292	0.078%
JNLDoubleLine® Core Fixed Income Fund	Urzad Rady Ministrow	10/25/2033	6.00	Fixed Income	1,500,000	434,008	0.015%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	4/20/2052	3.00	Fixed Income	15,747,330	14,254,823	0.484%
JNLDoubleLine® Core Fixed Income Fund	Global Bank Corporation	4/16/2029	5.25	Fixed Income	700,000	702,869	0.024%
JNLDoubleLine® Core Fixed Income Fund	Cloud Software Group, Inc.	9/20/2029	9.00	Fixed Income	210,000	213,787	0.007%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2023-B38 Mortgage Trust	2/17/2033	5.52	Fixed Income	1,650,000	1,755,832	0.060%
JNLDoubleLine® Core Fixed Income Fund	Uniqiel Luxembourg SA	10/1/2026	8.75	Fixed Income	400,000	100,783	0.003%
JNLDoubleLine® Core Fixed Income Fund	Agropur S.A.	1/20/2032	4.80	Fixed Income	500,000	462,879	0.016%
JNLDoubleLine® Core Fixed Income Fund	Claros Global LP	5/15/2023	6.40	Fixed Income	530,000	659,263	0.023%
JNLDoubleLine® Core Fixed Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/4/2053	6.34	Fixed Income	2,800,000	2,682,765	0.097%
JNLDoubleLine® Core Fixed Income Fund	Trident TPI Holdings, Inc.	12/31/2028	12.75	Fixed Income	490,000	559,583	0.019%
JNLDoubleLine® Core Fixed Income Fund	Marble Point CLO X Ltd	12/18/2030	7.06	Fixed Income	500,000	505,780	0.017%
JNLDoubleLine® Core Fixed Income Fund	Moran Stanley Capital Trust 2020-HR8	3/15/2030	1.78	Fixed Income	1,361,911	1,181,175	0.040%
JNLDoubleLine® Core Fixed Income Fund	Frigocon Concepcion S.A.	7/21/2028	7.70	Fixed Income	400,000	285,510	0.010%
JNLDoubleLine® Core Fixed Income Fund	Take-Two Interactive Software, Inc.	3/28/2028	4.95	Fixed Income	3,793,000	3,870,469	0.131%
JNLDoubleLine® Core Fixed Income Fund	CynusOne Data Centers Issuer I LLC	4/20/2028	5.45	Fixed Income	1,844,442	1,830,366	0.062%
JNLDoubleLine® Core Fixed Income Fund	Bank 2020-BNK26	11/17/2030	2.16	Fixed Income	2,000,000	1,692,066	0.057%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Commercial Mortgage Trust 2021-C61	10/17/2031	2.41	Fixed Income	1,000,000	866,866	0.029%
JNLDoubleLine® Core Fixed Income Fund	CSMC 2022-RPL4 Trust	4/25/2062	3.90	Fixed Income	7,388,574	7,155,431	0.243%
JNLDoubleLine® Core Fixed Income Fund	Emerald Debt Merger Sub LLC	12/15/2030	6.63	Fixed Income	525,000	551,548	0.019%
JNLDoubleLine® Core Fixed Income Fund	BP Capital Markets America Inc.	9/11/2033	4.89	Fixed Income	1,769,000	1,803,743	0.061%
JNLDoubleLine® Core Fixed Income Fund	Iron Mountain Incorporated	1/25/2034	9.75	Fixed Income	469,000	483,235	0.016%
JNLDoubleLine® Core Fixed Income Fund	Foundry JV Holdco LLC	1/25/2034	5.88	Fixed Income	1,000,000	1,029,786	0.035%
JNLDoubleLine® Core Fixed Income Fund	Rizer Investment Enterprises Pte. Ltd	5/19/2033	4.75	Fixed Income	1,566,000	1,625,491	0.055%
JNLDoubleLine® Core Fixed Income Fund	XPO, Inc.	6/1/2031	7.13	Fixed Income	650,000	696,862	0.024%
JNLDoubleLine® Core Fixed Income Fund	ITC Holdings Corp	6/1/2033	5.40	Fixed Income	760,000	799,297	0.027%
JNLDoubleLine® Core Fixed Income Fund	OBX 2023-NQM4 Trust	3/25/2063	6.11	Fixed Income	3,692,919	3,751,018	0.127%
JNLDoubleLine® Core Fixed Income Fund	Venture Global LNG, Inc.	6/1/2028	8.13	Fixed Income	365,000	390,398	0.013%
JNLDoubleLine® Core Fixed Income Fund	Venture Global LNG, Inc.	6/1/2031	8.38	Fixed Income	235,000	254,270	0.009%
JNLDoubleLine® Core Fixed Income Fund	Penske Truck Leasing Co. L.P.	5/24/2025	9.75	Fixed Income	219,000	1,368,997	0.046%
JNLDoubleLine® Core Fixed Income Fund	Ameren Illinois Company	6/1/2033	4.95	Fixed Income	1,500,000	1,566,488	0.053%
JNLDoubleLine® Core Fixed Income Fund	HOMES Trust	2/25/2068	6.46	Fixed Income	4,924,736	4,990,155	0.169%
JNLDoubleLine® Core Fixed Income Fund	Minerva Luxembourg S.A.	3/18/2031	4.38	Fixed Income	1,200,000	1,334,507	0.045%
JNLDoubleLine® Core Fixed Income Fund	CVS Health Corporation	6/1/2053	5.88	Fixed Income	3,150,000	3,270,121	0.113%
JNLDoubleLine® Core Fixed Income Fund	CVS Health Corporation	6/1/2033	5.30	Fixed Income	2,244,000	2,335,758	0.079%
JNLDoubleLine® Core Fixed Income Fund	Marfrig Holdings (Europe) B.V.	1/29/2031	3.95	Fixed Income	1,200,000	1,072,050	0.036%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	7/20/2051	3.50	Fixed Income	13,940,960	13,324,937	0.452%
JNLDoubleLine® Core Fixed Income Fund	Burlington Northern Santa Fe, LLC	4/15/2054	7.25	Fixed Income	1,467,475	1,553,475	0.052%
JNLDoubleLine® Core Fixed Income Fund	HUB International Limited	6/15/2030	7.25	Fixed Income	265,000	276,632	0.009%
JNLDoubleLine® Core Fixed Income Fund	Portera Holdings Inc.	7/1/2030	7.50	Fixed Income	265,000	272,316	0.009%
JNLDoubleLine® Core Fixed Income Fund	Tenet Healthcare Corporation	6/15/2030	6.13	Fixed Income	530,000	548,519	0.019%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Commercial Mortgage Trust 2021-C60	4/15/2031	2.06	Fixed Income	1,611,000	1,410,806	0.048%
JNLDoubleLine® Core Fixed Income Fund	Civitas Resources, Inc.	7/1/2028	8.38	Fixed Income	550,000	586,313	0.020%
JNLDoubleLine® Core Fixed Income Fund	Viking Cruises Limited	7/15/2031	9.13	Fixed Income	240,000	266,930	0.009%
JNLDoubleLine® Core Fixed Income Fund	Sempra	8/1/2033	5.50	Fixed Income	4,000,000	4,229,941	0.144%
JNLDoubleLine® Core Fixed Income Fund	Bain Capital Credit CLO 2023-3, Limited	7/24/2036	8.53	Fixed Income	1,000,000	1,030,037	0.035%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO 36 Ltd	7/28/2033	8.88	Fixed Income	500,000	513,904	0.017%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO 36 Ltd	7/28/2036	8.13	Fixed Income	500,000	514,104	0.017%
JNLDoubleLine® Core Fixed Income Fund	TierPoint Issuer LLC	6/25/2026	6.00	Fixed Income	5,000,000	4,996,162	0.170%
JNLDoubleLine® Core Fixed Income Fund	Invesco US CLO 2023-3 Ltd	7/15/2036	7.95	Fixed Income	1,000,000	1,027,151	0.035%
JNLDoubleLine® Core Fixed Income Fund	Invesco US CLO 2023-3 Ltd	7/15/2036	8.45	Fixed Income	500,000	514,711	0.017%
JNLDoubleLine® Core Fixed Income Fund	American Tower Corporation	7/15/2033	5.55	Fixed Income	1,047,000	1,110,447	0.038%
JNLDoubleLine® Core Fixed Income Fund	Flame Aggregator LLC			Equity	248	1,503	0.000%
JNLDoubleLine® Core Fixed Income Fund	Fortrea Holdings Inc.	6/12/2030	8.49	Fixed Income	22,998	23,114	0.001%
JNLDoubleLine® Core Fixed Income Fund	Flame Aggregator LLC			Equity	2,491	15,138	0.001%
JNLDoubleLine® Core Fixed Income Fund	Beacon Roofing Supply, Inc.	8/1/2030	6.50	Fixed Income	500,000	523,314	0.018%
JNLDoubleLine® Core Fixed Income Fund	Empower CLO 2023-2 Ltd	7/15/2036	8.70	Fixed Income	500,000	515,710	0.018%
JNLDoubleLine® Core Fixed Income Fund	Empower CLO 2023-2 Ltd	7/15/2036	8.05	Fixed Income	500,000	515,945	0.018%
JNLDoubleLine® Core Fixed Income Fund	Ontario Gaming GTA Limited Partnership	8/1/2030	10.38	Fixed Income	300,000	315,127	0.011%
JNLDoubleLine® Core Fixed Income Fund	Brand Industrial Services, Inc.	8/1/2030	10.38	Fixed Income	295,000	320,803	0.011%
JNLDoubleLine® Core Fixed Income Fund	ACHV ABS Trust 2023-3PL	8/19/2030	7.17	Fixed Income	1,539,315	1,547,128	0.053%
JNLDoubleLine® Core Fixed Income Fund	Alternative Loan Trust 2005-45	12/25/2035	5.75	Fixed Income	2,488,800	2,288,157	0.078%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	9/15/2042	3.50	Fixed Income	1,273,265	1,233,245	0.042%
JNLDoubleLine® Core Fixed Income Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2013-C11	4/1/2046	3.22	Fixed Income	1,224,026	1,148,146	0.039%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	11/20/2051	3.00	Fixed Income	11,281,809	10,191,384	0.346%
JNLDoubleLine® Core Fixed Income Fund	Niagara Park CLO, Ltd.	7/17/2032	7.15	Fixed Income	500,000	508,463	0.017%
JNLDoubleLine® Core Fixed Income Fund	CARLYLE US CLO 2019-4 LTD	4/15/2035	7.05	Fixed Income	1,000,000	1,015,644	0.034%
JNLDoubleLine® Core Fixed Income Fund	Residential Accredited Loans, Inc.	1/25/2036	5.88	Fixed Income	3,604,778	2,779,731	0.094%
JNLDoubleLine® Core Fixed Income Fund	Adani Ports and Special Economic Zone Limited	8/4/2027	4.20	Fixed Income	500,000	485,810	0.016%
JNLDoubleLine® Core Fixed Income Fund	Arsenal AIC Parent LLC	10/1/2030	8.00	Fixed Income	150,000	166,999	0.006%
JNLDoubleLine® Core Fixed Income Fund	Carminal Corporation	8/15/2029	7.00	Fixed Income	340,000	364,164	0.012%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO XXX Ltd	7/28/2031	7.49	Fixed Income	500,000	498,127	0.017%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO XXX Ltd	4/25/2034	7.25	Fixed Income	1,000,000	1,013,950	0.034%
JNLDoubleLine® Core Fixed Income Fund	Central Parent Inc.	6/15/2029	8.00	Fixed Income	395,000	420,296	0.014%
JNLDoubleLine® Core Fixed Income Fund	BRAVO Residential Funding Trust 2023-NOM5	6/25/2063	6.51	Fixed Income	8,338,876	8,521,204	0.289%
JNLDoubleLine® Core Fixed Income Fund	VT Topco, Inc.	9/15/2030	8.50	Fixed Income	535,000	577,082	0.020%
JNLDoubleLine® Core Fixed Income Fund	Adani Energy Solutions Limited	5/21/2036	4.25	Fixed Income	453,000	403,405	0.014%
JNLDoubleLine® Core Fixed Income Fund	GS Mortgage Securities Corp II	9/11/2026	4.47	Fixed Income	2,300,000	2,295,052	0.078%
JNLDoubleLine® Core Fixed Income Fund	UBS Commercial Mortgage Trust 2017-C4	8/17/2027	3.30	Fixed Income	476,289	461,559	0.016%
JNLDoubleLine® Core Fixed Income Fund	Clear Channel Outdoor Holdings, Inc.	9/15/2028	9.00	Fixed Income	180,000	192,080	0.007%
JNLDoubleLine® Core Fixed Income Fund	Bain Capital Credit CLO 2023-4 Ltd	10/21/2036	10.28	Fixed Income	500,000	519,685	0.018%
JNLDoubleLine® Core Fixed Income Fund	TransDigm Inc.	12/15/2030	6.88	Fixed Income	515,000	549,755	0.019%
JNLDoubleLine® Core Fixed Income Fund	Lehman XS Trust Series 2006-12N	8/25/2046	5.32	Fixed Income	2,289,527	2,288,252	0.077%
JNLDoubleLine® Core Fixed Income Fund	ONEOK, Inc.	9/1/2053	6.63	Fixed Income	5,952,000	6,650,789	0.225%
JNLDoubleLine® Core Fixed Income Fund	Aligned Data Centers Issuer, LLC	8/15/2028	6.00	Fixed Income	5,250,000	5,370,469	0.182%
JNLDoubleLine® Core Fixed Income Fund	Lehman Mortgage Trust 2006-3	9/25/2036	5.47	Fixed Income	11,532,246	2,906,176	0.099%
JNLDoubleLine® Core Fixed Income Fund	Starwood Property Trust, Inc.	7/26/2026	8.60	Fixed Income	153,028	153,256	0.005%
JNLDoubleLine® Core Fixed Income Fund	CSN Resources S.A.	4/8/2032	5.88	Fixed Income	1,400,000	1,313,145	0.042%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	9/20/2048	4.00	Fixed Income	5,542,002	5,004,066	0.187%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	8/20/2047	3.00	Fixed Income	6,649,676	6,024,421	0.205%
JNLDoubleLine® Core Fixed Income Fund	Goldentree Loan Management US Cio 15 Ltd	10/20/2036	9.68	Fixed Income	1,000,000	1,040,401	0.035%
JNLDoubleLine® Core Fixed Income Fund	Access CIO, LLC	9/15/2038	8.25	Fixed Income	392,458	392,458	0.014%
JNLDoubleLine® Core Fixed Income Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	9/20/2049	5.48	Fixed Income	12,796,865	12,626,060	0.429%
JNLDoubleLine® Core Fixed Income Fund	Katsuma C.O.V. Ltd.	10/20/2026	10.64	Fixed Income	1,000,000	1,004,530	0.036%
JNLDoubleLine® Core Fixed Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	3/6/2025	5.00	Fixed Income	13,300,000	663,012	0.023%
JNLDoubleLine® Core Fixed Income Fund	Canacol Energy Ltd.	11/24/2028	5.75	Fixed Income	1,400,000	778,061	0.026%
JNLDoubleLine® Core Fixed Income Fund	Sito Royalties Operating Partnership, LP	11/1/2028	7.88	Fixed Income	260,000	280,463	0.010%
JNLDoubleLine® Core Fixed Income Fund	Tamco Building Products, LLC	9/13/2030	8.17	Fixed Income	227,700	228,399	0.008%
JNLDoubleLine® Core Fixed Income Fund	Acushnet Company	10/15/2028	7.38	Fixed Income	265,000	268,507	0.010%
JNLDoubleLine® Core Fixed Income Fund	Virgin Media Bristol LLC	3/6/2031	8.66	Fixed Income	645,000	641,469	0.022%
JNLDoubleLine® Core Fixed Income Fund	Bausch & Lomb Corporation	9/14/2028	9.25	Fixed Income	237,600	237,217	0.008%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2053	5.50	Fixed Income	26,680,237	27,332,892	0.928%
JNLDoubleLine® Core Fixed Income Fund	Pretium Packaging, LLC	10/1/2028	7.88	Fixed Income	95,707	684,017	0.03%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo & Company	10/23/2034	6.49	Fixed Income	3,111,000	3,563,152	0.121%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	10/1/2053	6.00	Fixed Income	15,628,544	16,206,647	0.550%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	6.00	Fixed Income	10,284,047	10,658,028	0.362%
JNLDoubleLine® Core Fixed Income Fund	Venture Global LMG, Inc.	2/1/2032	9.88	Fixed Income	260,000	293,185	0.010%
JNLDoubleLine® Core Fixed Income Fund	Gran Tierra Energy Inc.	10/15/2029	9.50	Fixed Income	1,500,000	1,488,068	0.051%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	3/25/2051	4.00	Fixed Income	3,908,674	3,244,808	0.110%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	3/15/2057	5.76	Fixed Income	1,825,730	1,804,130	0.061%
JNLDoubleLine® Core Fixed Income Fund	Kalina Generation S.A.	8/16/2027	4.13	Fixed Income	200,000	197,831	0.007%
JNLDoubleLine® Core Fixed Income Fund	UBS Commercial Mortgage Trust 2018-C8	1/18/2028	3.72	Fixed Income	1,419,379	1,383,314	0.047%
JNLDoubleLine® Core Fixed Income Fund	Bank 2018-BNK14	7/17/2028	3.97	Fixed Income	2,591,000	2,536,429	0.086%
JNLDoubleLine® Core Fixed Income Fund	Gouvernement De France	5/25/2033	3.00	Fixed Income	850,000	970,212	0.033%
JNLDoubleLine® Core Fixed Income Fund	Bundesrepublik Deutschland	5/15/2038	1.00	Fixed Income	800,000	754,803	0.026%
JNLDoubleLine® Core Fixed Income Fund	Hilcorp Energy L.P.	11/1/2033	8.38	Fixed Income	105,000	116,823	0.004%
JNLDoubleLine® Core Fixed Income Fund	Bombardier Inc.	11/15/2030	8.75	Fixed Income	415,000	469,414	0.016%
JNLDoubleLine® Core Fixed Income Fund	Pacific Gas And Electric Company	3/15/2034	6.95	Fixed Income	2,014,000	2,296,073	0.078%
JNLDoubleLine® Core Fixed Income Fund	Outfront Media Capital Corporation	2/15/2031	7.58	Fixed Income	200,000	219,074	0.007%
JNLDoubleLine® Core Fixed Income Fund	Sealed Air Corporation	2/15/2031	7.25	Fixed Income	515,000	559,520	0.019%
JNLDoubleLine® Core Fixed Income Fund	Spiri AeroSystems, Inc.	11/15/2030	9.75	Fixed Income	190,000	218,930	0.007%
JNLDoubleLine® Core Fixed Income Fund	O'Reilly Automotive, Inc.	11/20/2026	5.75	Fixed Income	906,000	962,834	0.032%
JNLDoubleLine® Core Fixed Income Fund	ClubCorp Holdings, Inc.	10/1/2028	10.60	Fixed Income	355,766	356,056	0.012%
JNLDoubleLine® Core Fixed Income Fund	Nabors Industries, Inc.	1/31/2039	9.13	Fixed Income	330,000	345,424	0.012%
JNLDoubleLine® Core Fixed Income Fund	Santander-Palata	11/24/2032	4.75	Fixed Income	267,000,000	716,996	0.024%
JNLDoubleLine® Core Fixed Income Fund	Pretium Packaging, LLC	10/1/2028	9.85	Fixed Income	236,590	192,529	0.007%
JNLDoubleLine® Core Fixed Income Fund	Citigroup Commercial Mortgage Trust 2018-B2	11/25/2028	3.74	Fixed Income	2,863,000	2,787,098	0.095%
JNLDoubleLine® Core Fixed Income Fund	Cornwall Transportation And Infrastructure Investors LLC	2/1/2030	7.88	Fixed Income	620,000	684,314	0.023%
JNLDoubleLine® Core Fixed Income Fund	PT Freeport Indonesia	4/14/2032	5.32	Fixed Income	500,000	519,321	0.018%
JNLDoubleLine® Core Fixed Income Fund	American Airlines, Inc.	3/9/2029	8.50	Fixed Income	515,000	562,596	0.019%
JNLDoubleLine® Core Fixed Income Fund	INEOS Quattro Holdings UK Ltd	5/1/2028	9.60	Fixed Income	522,375	522,185	0.018%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	2.50	Fixed Income	12,717,931	11,165,269	0.379%
JNLDoubleLine® Core Fixed Income Fund	Element Fleet Management Corp.	12/4/2028	6.32	Fixed Income	2,170,000	2,352,408	0.080%
JNLDoubleLine® Core Fixed Income Fund	Pike Corporation	1/31/2031	8.63	Fixed Income	255,000	277,326	0.009%
JNLDoubleLine® Core Fixed Income Fund	Intergroup Financial Services Corp.	10/19/2027	4.13	Fixed Income	800,000	788,869	0.027%
JNLDoubleLine® Core Fixed Income Fund	Mosaic Company, The	11/15/2028	5.38	Fixed Income	1,000,000	1,056,513	0.036%
JNLDoubleLine® Core Fixed Income Fund	TransDigm, Inc.	2/28/2031	7.84	Fixed Income	921,665	917,995	0.031%
JNLDoubleLine® Core Fixed Income Fund	EG Group Limited	2/7/2028	11.07	Fixed Income	302,859	302,318	0.010%
JNLDoubleLine® Core Fixed Income Fund	PennyMac Financial Services, Inc.	12/15/2029	7.88	Fixed Income	310,000	337,576	0.011%
JNLDoubleLine® Core Fixed Income Fund	Flutter Financial B.V.	11/18/2030	7.23	Fixed Income	133,968	133,964	0.005%
JNLDoubleLine® Core Fixed Income Fund	MSWF Commercial Mortgage Trust 2023-2	11/18/2028	5.96	Fixed Income	109,872	112,450	0.004%
JNLDoubleLine® Core Fixed Income Fund	NJ Trust 2023-GSP	11/2/2029	6.48	Fixed Income	2,350,000	2,503,985	0.085%
JNLDoubleLine® Core Fixed Income Fund	Wells Fargo Commercial Mortgage Trust 2020-C58	9/17/2030	1.81	Fixed Income	2,830,000	2,485,561	0.084%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2053	2.50	Fixed Income	24,459,327	21,457,036	0.709%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	20,768,276	18,167,890	0.617%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	9,105,766	7,971,329	0.271%
JNLDoubleLine® Core Fixed Income Fund	Williams Companies, Inc., The	3/15/2034	5.15	Fixed Income	2,843,000	2,848,745	0.098%
JNLDoubleLine® Core Fixed Income Fund	ADMI Corp.	12/23/2027	11.00	Fixed Income	317,600	317,395	0.011%
JNLDoubleLine® Core Fixed Income Fund	Hyundai Capital America	1/8/2029	5.30	Fixed Income	4,427,000	4,602,178	0.156%
JNLDoubleLine® Core Fixed Income Fund	Credit Agricole SA	1/10/2030	5.34	Fixed Income	2,270,000	2,357,615	0.080%
JNLDoubleLine® Core Fixed Income Fund	Iron Mountain, Inc.	1/31/2031	7.25	Fixed Income	501,213	497,549	0.017%
JNLDoubleLine® Core Fixed Income Fund	AerCap Ireland Capital Designated Activity Company	11/19/2029	5.10	Fixed Income	1,650,000	1,702,216	0.058%
JNLDoubleLine® Core Fixed Income Fund	T-Mobile USA, Inc.	4/15/2034	5.15	Fixed Income	1,788,000	1,854,334	0.063%
JNLDoubleLine® Core Fixed Income Fund	Energy Transfer LP	5/15/2054	5.95	Fixed Income	2,272,000	2,381,802	0.081%
JNLDoubleLine® Core Fixed Income Fund	PT Adaro Indonesia	10/31/2024	4.25	Fixed Income	600,000	609,244	0.021%
JNLDoubleLine® Core Fixed Income Fund	Berry Global, Inc.	11/5/2034	5.65	Fixed Income	1,250,000	1,296,576	0.044%
JNLDoubleLine® Core Fixed Income Fund	Royal Bank of Canada	2/1/2034	8.48	Fixed Income	848,000	887,927	0.030%
JNLDoubleLine® Core Fixed Income Fund	NEP Group, Inc.	8/19/2026	10.11	Fixed Income	419,261	401,036	0.014%
JNLDoubleLine® Core Fixed Income Fund	Tallgrass Energy Partners, LP	2/15/2029	7.38	Fixed Income	265,000	270,423	0.009%
JNLDoubleLine® Core Fixed Income Fund	Avallon Holdings Funding Limited	3/1/2029	7.57	Fixed Income	1,990,000	2,060,138	0.070%
JNLDoubleLine® Core Fixed Income Fund	Buffalo Energy Mexico Holding S A De C V	2/15/2039	7.88	Fixed Income	600,000	643,010	0.023%
JNLDoubleLine® Core Fixed Income Fund	Extra Space Storage LP	2/1/2034	5.40	Fixed Income	2,265,000	2,359,726	0.080%
JNLDoubleLine® Core Fixed Income Fund	Eversource Energy	1/1/2034	5.50	Fixed Income	1,148,000	1,209,338	0.041%
JNLDoubleLine® Core Fixed Income Fund	Bank of America Corporation	12/3/2035	5.47	Fixed Income	1,795,000	1,906,155	0.065%
JNLDoubleLine® Core Fixed Income Fund	Ward NewCo 3, Inc.	11/30/2032	7.63	Fixed Income	215,000	215,000	0.007%
JNLDoubleLine® Core Fixed Income Fund	Hilton Grand Vacations Borrower LLC	2/1/2034	5.50	Fixed Income	258,700	256,487	0.009%
JNLDoubleLine® Core Fixed Income Fund	American Homes 4 Rent, L.P.	2/1/2034	5.50	Fixed Income	3,195,000	3,327,176	0.113%
JNLDoubleLine® Core Fixed Income Fund	Merlin Entertainments Group U.S. Holdings Inc.	2/15/2031	7.38	Fixed Income	845,000	855,347	0.029%
JNLDoubleLine® Core Fixed Income Fund	Caesars Entertainment, Inc.	2/15/2032	6.50	Fixed Income	525,000	547,574	0.019%
JNLDoubleLine® Core Fixed Income Fund	Charter NEX US, Inc.	12/1/2027	8.50	Fixed Income	238,352	238,381	0.008%
JNLDoubleLine® Core Fixed Income Fund	NGI Energy Operating LLC	2/15/2029	8.13	Fixed Income	420,000	435,014	0.015%
JNLDoubleLine® Core Fixed Income Fund	BCPE Empire Holdings, Inc.	12/25/2028	9.25	Fixed Income	996,247	996,372	0.034%
JNLDoubleLine® Core Fixed Income Fund	Nortrop Grumman Corporation	9/1/2094	5.50	Fixed Income	2,245,000	2,324,505	0.079%
JNLDoubleLine® Core Fixed Income Fund	Cross Financial Corp	9/15/2031	8.75	Fixed Income	306,875	306,597	0.010%
JNLDoubleLine® Core Fixed Income Fund	Dun & Bradstreet Corporation (The)	1/18/2029	7.61	Fixed Income	281,486	281,391	0.010%
JNLDoubleLine® Core Fixed Income Fund	Kodiak Gas Services, LLC	2/15/2029	7.25	Fixed Income	520,000	543,191	0.018%
JNLDoubleLine® Core Fixed Income Fund	UKG, Inc.	2/1/2031	6.88	Fixed Income	255,000	266,501	0.009%
JNLDoubleLine® Core Fixed Income Fund	NEC US Holdings Ltd.	12/20/2031	8.00	Fixed Income	530,000	529,798	0.018%
JNLDoubleLine® Core Fixed Income Fund	Husky Injection Molding Systems Ltd.	2/15/2029	9.00	Fixed Income	600,000	630,894	0.021%
JNLDoubleLine® Core Fixed Income Fund	INEOS Finance PLC	4/15/2029	7.50	Fixed Income	525,000	574,396	0.020%
JNLDoubleLine® Core Fixed Income Fund	Westjet Loyalty LP	2/1/2031	9.08	Fixed Income	1,090,925	986,374	0.034%
JNLDoubleLine® Core Fixed Income Fund	Helix Software Holdings, Inc.	7/15/2030	8.08	Fixed Income	401,570	399,280	0.014%
JNLDoubleLine® Core Fixed Income Fund	UKG, Inc.	1/30/2031	8.55	Fixed Income	922,688	940,931	0.032%
JNLDoubleLine® Core Fixed Income Fund	Prumo Participacoes E Investimentos SA	12/31/2031	7.50	Fixed Income	1,340,236	1,371,165	0.047%
JNLDoubleLine® Core Fixed Income Fund	Allied Universal Holdco LLC	2/15/2031	7.88	Fixed Income	670,000	691,591	0.023%
JNLDoubleLine® Core Fixed Income Fund	Carroll U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	97,180	97,012	0.003%
JNLDoubleLine® Core Fixed Income Fund	Antera Services, LLC	2/15/2031	8.50	Fixed Income	155,000	155,333	0.005%
JNLDoubleLine® Core Fixed Income Fund	Applied Systems, Inc.	2/7/2031	6.29	Fixed Income	199,500	199,568	0.007%
JNLDoubleLine® Core Fixed Income Fund	AssuredPartners, Inc.	12/31/2049	9.00	Fixed Income	30,000	29,965	0.001%
JNLDoubleLine® Core Fixed Income Fund	Applied Systems, Inc.	2/7/2032	10.58	Fixed Income	140,000	144,266	0.005%
JNLDoubleLine® Core Fixed Income Fund	Illuminate Buyer, LLC	12/31/2029	8.86	Fixed Income	328,217	328,886	0.011%
JNLDoubleLine® Core Fixed Income Fund	Ardanagh Finco Ltd.	2/15/2031	7.75	Fixed Income	520,000	546,409	0.019%
JNLDoubleLine® Core Fixed Income Fund	Philip Morris International Inc.	2/13/2034	5.25	Fixed Income	1,913,000	1,997,674	0.068%
JNLDoubleLine® Core Fixed Income Fund	Dry Midstream Services Permian Basin LLC	2/15/2028	8.25	Fixed Income	428,715	428,588	0.015%
JNLDoubleLine® Core Fixed Income Fund	Cummings Inc.	2/20/2054	5.45	Fixed Income	1,025,000	1,091,713	0.037%
JNLDoubleLine® Core Fixed Income Fund	AAR Escrow Issuer, LLC	3/15/2029	6.75	Fixed Income	310,000	323,252	0.011%
JNLDoubleLine® Core Fixed Income Fund	Ineos US Finance LLC	1/30/2031	9.00	Fixed Income	124,688	124,750	0.004%
JNLDoubleLine® Core Fixed Income Fund	Carroll U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	5,261	5,246	0.000%
JNLDoubleLine® Core Fixed Income Fund	Carroll U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	416,920	416,125	0.014%
JNLDoubleLine® Core Fixed Income Fund	Minsur S.A.	10/28/2031	4.50	Fixed Income	500,000	469,492	0.016%
JNLDoubleLine® Core Fixed Income Fund	Marriott International, Inc.	5/15/2034	5.30	Fixed Income	2,230,000	2,337,193	0.079%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	12/1/2053	6.00	Fixed Income	2,559,445	2,693,311	0.091%
JNLDoubleLine® Core Fixed Income Fund	Abvie Inc.	3/15/2064	5.50	Fixed Income	1,210,000	1,296,107	0.044%
JNLDoubleLine® Core Fixed Income Fund	Antera Services, LLC	2/7/2031	9.83	Fixed Income	197,405	191,994	0.007%
JNLDoubleLine® Core Fixed Income Fund	Royal Caribbean Cruises Ltd.	3/15/2032	6.25	Fixed Income	310,000	322,460	0.011%
JNLDoubleLine® Core Fixed Income Fund	Exelon Corporation	3/15/2034	5.45	Fixed Income	3,925,000	4,123,075	0.140%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	8/1/2053	6.00	Fixed Income	4,430,066	4,567,046	0.155%
JNLDoubleLine® Core Fixed Income Fund	KOYA Inc.	2/1/2029	6.25	Fixed Income	1,505,000	1,616,581	0.055%
JNLDoubleLine® Core Fixed Income Fund	Radiology Partners, Inc.	2/15/2030	9.90	Fixed Income	93,296	89,690	0.003%
JNLDoubleLine® Core Fixed Income Fund	Onvo, Inc.	4/1/2031	3.38	Fixed Income	1,320,000	1,202,315	0.041%
JNLDoubleLine® Core Fixed Income Fund	Builders FirstSource, Inc.	2/1/2034	6.38	Fixed Income	650,000	678,563	0.023%
JNLDoubleLine® Core Fixed Income Fund	Fiserv, Inc.	3/15/2034	5.45	Fixed Income	2,122,000	2,227,960	0.076%
JNLDoubleLine® Core Fixed Income Fund	Radiology Partners, Inc.	1/31/2029	8.50	Fixed Income	126,876	129,130	0.004%
JNLDoubleLine® Core Fixed Income Fund	STWD 2019-FL1, Ltd.	10/15/2024	7.15	Fixed Income	350,000	345,942	0.012%
JNLDoubleLine® Core Fixed Income Fund	United Airlines, Inc.	2/15/2031	8.03	Fixed Income	473,813	481,255	0.016%
JNLDoubleLine® Core Fixed Income Fund	AssuredPartners, Inc.	2/15/2027	8.75	Fixed Income	582,075	581,523	0.020%
JNLDoubleLine® Core Fixed Income Fund	Gobierno de La Republica del Paraguay	3/27/2027	4.70	Fixed Income	400,000	399,208	0.014%
JNLDoubleLine® Core Fixed Income Fund	T-Mobile USA, Inc.	11/5/2055	5.50	Fixed Income	5,000,000	5,235,920	0.178%
JNLDoubleLine® Core Fixed Income Fund	Litton Advisory Group LLC	2/24/2031	8.25	Fixed Income	387,215	386,237	0.013%
JNLDoubleLine® Core Fixed Income Fund	Patinrimonio en Fideicomiso D.S. 093-2002 - EF Intertal Shopping Malls	4/3/2028	5.75	Fixed Income	800,000	827,357	0.028%
JNLDoubleLine® Core Fixed Income Fund	Chemiere Energy, Inc.	4/15/2034	5.65	Fixed Income	1,000,000	1,064,110	0.036%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	AGCO Corporation	3/21/2034	5.80	Fixed Income	790,000	823,419	0.028%
JNLDoubleLine® Core Fixed Income Fund	Aherne Holding Ltd	4/1/2054	6.25	Fixed Income	2,124,000	2,333,904	0.079%
JNLDoubleLine® Core Fixed Income Fund	CNH Industrial Capital LLC	4/20/2029	5.10	Fixed Income	1,115,000	1,176,676	0.040%
JNLDoubleLine® Core Fixed Income Fund	Macquarie Airfinance Holdings Limited	3/26/2029	6.40	Fixed Income	1,061,000	1,105,131	0.038%
JNLDoubleLine® Core Fixed Income Fund	Macquarie Airfinance Holdings Limited	3/26/2031	6.50	Fixed Income	215,000	226,766	0.008%
JNLDoubleLine® Core Fixed Income Fund	Campbell Soup Company	3/21/2034	5.40	Fixed Income	1,107,000	1,159,990	0.039%
JNLDoubleLine® Core Fixed Income Fund	Dynasty Acquisition Co., Inc.	12/31/2049		Fixed Income		14,434	0.000%
JNLDoubleLine® Core Fixed Income Fund	Dynasty Acquisition Co., Inc.	12/31/2049		Fixed Income	5,566	5,567	0.000%
JNLDoubleLine® Core Fixed Income Fund	Miller Brands Acquisition Holdco, Inc.	4/1/2032	6.75	Fixed Income	525,000	562,231	0.019%
JNLDoubleLine® Core Fixed Income Fund	PT Bank Negara Indonesia (Persero), Tbk	3/30/2026	3.75	Fixed Income	900,000	876,953	0.030%
JNLDoubleLine® Core Fixed Income Fund	AB Group Public Limited Company	3/26/2035	5.87	Fixed Income	2,855,000	3,013,408	0.102%
JNLDoubleLine® Core Fixed Income Fund	Columbus McKinnon Corporation	5/14/2028	7.83	Fixed Income	36,606	36,614	0.001%
JNLDoubleLine® Core Fixed Income Fund	Comision Federal De Electricidad, E.P.E.	2/9/2031	3.35	Fixed Income	200,000	173,643	0.006%
JNLDoubleLine® Core Fixed Income Fund	M Windows and Doors, LLC	3/21/2031	8.75	Fixed Income	94,763	94,863	0.003%
JNLDoubleLine® Core Fixed Income Fund	Parther Escrow Issuer LLC	8/1/2031	7.13	Fixed Income	425,000	425,000	0.016%
JNLDoubleLine® Core Fixed Income Fund	Level 3 Financing, Inc.	4/15/2029	10.50	Fixed Income	475,000	523,893	0.018%
JNLDoubleLine® Core Fixed Income Fund	Keurig Dr Pepper Inc.	3/15/2031	5.20	Fixed Income	1,835,000	2,024,412	0.069%
JNLDoubleLine® Core Fixed Income Fund	BPR Trust 2021-TY	9/15/2038	6.26	Fixed Income	2,462,000	2,447,306	0.083%
JNLDoubleLine® Core Fixed Income Fund	Glencore Funding LLC	4/4/2029	5.37	Fixed Income	3,785,000	4,012,922	0.136%
JNLDoubleLine® Core Fixed Income Fund	GGAM Finance Ltd	4/15/2029	6.88	Fixed Income	525,000	564,505	0.019%
JNLDoubleLine® Core Fixed Income Fund	Smurfit Kappa Treasury Unlimited Company	1/15/2030	5.20	Fixed Income	2,175,000	2,270,870	0.077%
JNLDoubleLine® Core Fixed Income Fund	Matador Resources Company	4/15/2032	6.50	Fixed Income	420,000	432,732	0.015%
JNLDoubleLine® Core Fixed Income Fund	Level 3 Financing, Inc.	4/1/2030	4.50	Fixed Income	170,000	179,334	0.005%
JNLDoubleLine® Core Fixed Income Fund	Cengage Learning, Inc.	3/24/2031	9.54	Fixed Income	234,413	242,986	0.008%
JNLDoubleLine® Core Fixed Income Fund	Progress Residential 2024-SFR2 Trust	4/1/2029	3.30	Fixed Income	5,900,000	5,627,661	0.191%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.00	Fixed Income	1,749,092	1,781,259	0.060%
JNLDoubleLine® Core Fixed Income Fund	Movida Europe S.A.	4/11/2029	7.95	Fixed Income	500,000	499,429	0.017%
JNLDoubleLine® Core Fixed Income Fund	ILVI Incorporated	7/2/2029	7.75	Fixed Income	70,160	70,108	0.002%
JNLDoubleLine® Core Fixed Income Fund	Curium BdcCo S.a.r.l.	7/31/2029	9.34	Fixed Income	133,857	134,170	0.005%
JNLDoubleLine® Core Fixed Income Fund	Curium BdcCo S.a.r.l.	7/31/2029	9.34	Fixed Income	59,476	59,615	0.002%
JNLDoubleLine® Core Fixed Income Fund	Curium BdcCo S.a.r.l.	7/31/2029	9.34	Fixed Income	201,682	202,154	0.007%
JNLDoubleLine® Core Fixed Income Fund	VT Topco, Inc.	8/12/2030		Fixed Income		163,745	0.006%
JNLDoubleLine® Core Fixed Income Fund	Pacific Dental Services, LLC	3/7/2031	7.85	Fixed Income	469,038	469,538	0.016%
JNLDoubleLine® Core Fixed Income Fund	Mister Car Wash Holdings, Inc.	3/21/2031	8.25	Fixed Income	94,763	94,818	0.003%
JNLDoubleLine® Core Fixed Income Fund	Genesee & Wyoming Inc.	4/15/2032	6.25	Fixed Income	1,055,000	1,117,032	0.038%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	1/1/2035	14.68	Fixed Income	14,668,320	15,425,204	0.524%
JNLDoubleLine® Core Fixed Income Fund	Level 3 Financing Inc.	4/15/2029	11.41	Fixed Income	78,549	80,225	0.003%
JNLDoubleLine® Core Fixed Income Fund	Level 3 Financing Inc.	4/15/2030	11.41	Fixed Income	78,549	79,950	0.003%
JNLDoubleLine® Core Fixed Income Fund	Mitsubishi UFJ Financial Group Inc	4/17/2035	5.43	Fixed Income	2,230,000	2,402,334	0.082%
JNLDoubleLine® Core Fixed Income Fund	Radiology Partners Inc	1/31/2031	7.26	Fixed Income	417,490	412,146	0.014%
JNLDoubleLine® Core Fixed Income Fund	Visra Operations Company LLC	4/15/2032	6.88	Fixed Income	315,000	341,786	0.012%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	4/1/2054	6.00	Fixed Income	1,143,083	1,185,008	0.040%
JNLDoubleLine® Core Fixed Income Fund	Radiology Partners Inc	1/31/2029	10.38	Fixed Income	4,300	4,250	0.000%
JNLDoubleLine® Core Fixed Income Fund	Avestiv Technologies, LLC	4/1/2029	13.00	Fixed Income	5,577	5,688	0.000%
JNLDoubleLine® Core Fixed Income Fund	Connecticut Avenue Securities Trust 2024-R03	3/25/2027	6.43	Fixed Income	16,700,640	16,728,501	0.568%
JNLDoubleLine® Core Fixed Income Fund	Ministry of Finance	9/30/2027	3.75	Fixed Income	4,000,000	1,052,606	0.036%
JNLDoubleLine® Core Fixed Income Fund	Dynasty Acquisition Co., Inc.	8/24/2028	8.75	Fixed Income	188,860	188,946	0.006%
JNLDoubleLine® Core Fixed Income Fund	Dynasty Acquisition Co., Inc.	8/24/2028	8.75	Fixed Income	489,816	490,038	0.017%
JNLDoubleLine® Core Fixed Income Fund	Kyndryl Holdings, Inc.	10/15/2041	4.10	Fixed Income	2,965,000	2,441,777	0.083%
JNLDoubleLine® Core Fixed Income Fund	TK Elevator US Newco Inc	4/11/2030	8.59	Fixed Income	431,824	438,948	0.015%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	2/1/2054	5.50	Fixed Income	11,388,121	11,755,668	0.399%
JNLDoubleLine® Core Fixed Income Fund	Trian Acquisition Limited	2/1/2029	10.33	Fixed Income	503,738	518,461	0.018%
JNLDoubleLine® Core Fixed Income Fund	TK Elevator US Newco Inc	4/11/2030	8.59	Fixed Income	252,143	257,143	0.009%
JNLDoubleLine® Core Fixed Income Fund	Altera Mountain Company	8/1/2028	8.50	Fixed Income	652,357	653,045	0.022%
JNLDoubleLine® Core Fixed Income Fund	ZF North America Capital, Inc.	4/23/2032	6.88	Fixed Income	2,575,000	2,659,100	0.090%
JNLDoubleLine® Core Fixed Income Fund	Ultra Clean Holdings, Inc.	2/27/2028	8.75	Fixed Income	250,640	251,328	0.009%
JNLDoubleLine® Core Fixed Income Fund	Valisure	4/15/2030	7.50	Fixed Income	535,000	585,038	0.020%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	4/1/2054	5.50	Fixed Income	5,984,450	6,188,817	0.210%
JNLDoubleLine® Core Fixed Income Fund	AREIT 2024-CRE9 Ltd	2/20/2029	7.63	Fixed Income	1,820,000	1,820,915	0.062%
JNLDoubleLine® Core Fixed Income Fund	Six Flags Operations Inc.	5/1/2032	6.63	Fixed Income	630,000	668,337	0.023%
JNLDoubleLine® Core Fixed Income Fund	Citizens Financial Group, Inc.	4/25/2035	6.85	Fixed Income	645,000	677,204	0.024%
JNLDoubleLine® Core Fixed Income Fund	Brand Industrial Services Inc.	8/1/2030	9.75	Fixed Income	382,728	377,927	0.013%
JNLDoubleLine® Core Fixed Income Fund	Medline Borrower, LP	10/23/2028	8.00	Fixed Income	502,015	502,071	0.017%
JNLDoubleLine® Core Fixed Income Fund	Par Petroleum, LLC	2/28/2030	9.06	Fixed Income	103,688	105,929	0.004%
JNLDoubleLine® Core Fixed Income Fund	NRG Energy, Inc.	2/27/2031	7.26	Fixed Income	246,750	246,750	0.009%
JNLDoubleLine® Core Fixed Income Fund	LoanCore 2021-CRE5 Issuer Ltd.	7/15/2036	7.50	Fixed Income	2,000,000	1,983,041	0.067%
JNLDoubleLine® Core Fixed Income Fund	Banco Del Estado De Chile	1/1/2200	7.95	Fixed Income	300,000	332,351	0.011%
JNLDoubleLine® Core Fixed Income Fund	Quikrete Holdings, Inc.	3/18/2029	7.50	Fixed Income	241,924	241,918	0.008%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	5/1/2054	6.15	Fixed Income	2,845,615	2,942,126	0.102%
JNLDoubleLine® Core Fixed Income Fund	Quikrete Holdings, Inc.	3/18/2031	7.75	Fixed Income	74,625	74,640	0.003%
JNLDoubleLine® Core Fixed Income Fund	Lima Metro Line 2 Finance Limited	4/5/2036	4.35	Fixed Income	333,896	315,927	0.011%
JNLDoubleLine® Core Fixed Income Fund	Trident TPI Holdings, Inc.	9/15/2028	9.33	Fixed Income	408,387	408,767	0.014%
JNLDoubleLine® Core Fixed Income Fund	Central Corporation	10/18/2028	8.95	Fixed Income	508,219	508,646	0.018%
JNLDoubleLine® Core Fixed Income Fund	LifePoint Health, Inc.	11/16/2028	10.05	Fixed Income	601,979	611,055	0.021%
JNLDoubleLine® Core Fixed Income Fund	Harvest Midstream L.P.	5/15/2032	7.50	Fixed Income	495,000	535,250	0.018%
JNLDoubleLine® Core Fixed Income Fund	DTE Energy Company	6/1/2034	5.85	Fixed Income	3,465,000	3,801,867	0.129%
JNLDoubleLine® Core Fixed Income Fund	Icon Investments Six Designated Activity Company	5/8/2029	5.95	Fixed Income	1,200,000	1,308,461	0.044%
JNLDoubleLine® Core Fixed Income Fund	Icon Investments Six Designated Activity Company	5/8/2034	6.00	Fixed Income	1,200,000	1,304,914	0.044%
JNLDoubleLine® Core Fixed Income Fund	CyruOne Data Centers Issuer I LLC	5/20/2029	4.50	Fixed Income	3,000,000	2,923,497	0.099%
JNLDoubleLine® Core Fixed Income Fund	Government National Mortgage Association	11/20/2045	5.38	Fixed Income	1,764,238	1,736,552	0.059%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	4/1/2054	6.00	Fixed Income	9,723,350	9,717,812	0.326%
JNLDoubleLine® Core Fixed Income Fund	Park Intermediate Holdings LLC	2/1/2030	7.00	Fixed Income	730,000	776,125	0.026%
JNLDoubleLine® Core Fixed Income Fund	Foundry JV Holdco LLC	1/25/2032	6.15	Fixed Income	1,500,000	1,597,289	0.054%
JNLDoubleLine® Core Fixed Income Fund	Foundry JV Holdco LLC	1/25/2038	6.40	Fixed Income	1,201,000	1,295,469	0.044%
JNLDoubleLine® Core Fixed Income Fund	Realer Renard Corporation	2/15/2026	6.05	Fixed Income	866,000	886,174	0.030%
JNLDoubleLine® Core Fixed Income Fund	Brans Delaware I, LLC	1/11/2035	8.25	Fixed Income	49,817	50,204	0.002%
JNLDoubleLine® Core Fixed Income Fund	LC Arah US Bidco LLC	4/14/2031	8.35	Fixed Income	350,000	351,177	0.012%
JNLDoubleLine® Core Fixed Income Fund	United Natural Foods, Inc.	4/25/2031	10.00	Fixed Income	204,448	204,544	0.007%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	4/1/2053	5.50	Fixed Income	12,001,447	12,392,540	0.421%
JNLDoubleLine® Core Fixed Income Fund	Ares Capital Corporation	5/15/2029	5.95	Fixed Income	1,550,000	1,573,160	0.051%
JNLDoubleLine® Core Fixed Income Fund	Altera Mountain Company	5/31/2030	8.75	Fixed Income	208,353	208,834	0.007%
JNLDoubleLine® Core Fixed Income Fund	Entergy Arkansas, LLC	6/1/2054	5.75	Fixed Income	1,105,000	1,214,857	0.041%
JNLDoubleLine® Core Fixed Income Fund	Colvix Corporation	2/21/2031	8.45	Fixed Income	472,625	475,148	0.016%
JNLDoubleLine® Core Fixed Income Fund	Cougar JV Subsidiary, LLC	5/15/2032	5.90	Fixed Income	260,000	282,401	0.010%
JNLDoubleLine® Core Fixed Income Fund	Host Hotels & Resorts, L.P.	7/1/2034	5.70	Fixed Income	2,240,000	2,363,227	0.080%
JNLDoubleLine® Core Fixed Income Fund	Allassian Corporation	5/15/2029	5.25	Fixed Income	1,840,000	1,940,717	0.066%
JNLDoubleLine® Core Fixed Income Fund	Avolon Holdings Funding Limited	11/15/2029	5.75	Fixed Income	2,460,000	2,590,299	0.088%
JNLDoubleLine® Core Fixed Income Fund	OneMain Finance Corporation	5/10/2031	7.50	Fixed Income	630,000	655,433	0.023%
JNLDoubleLine® Core Fixed Income Fund	Phillips Edison Grocery Center Operating Partnership L.P.	7/15/2034	5.75	Fixed Income	1,695,000	1,803,684	0.061%
JNLDoubleLine® Core Fixed Income Fund	Charter Communications Operating, LLC	6/1/2029	6.10	Fixed Income	850,000	899,372	0.031%
JNLDoubleLine® Core Fixed Income Fund	Modena Buyer LLC	4/3/2031	9.83	Fixed Income	205,359	196,238	0.007%
JNLDoubleLine® Core Fixed Income Fund	Lifepoint Health, Inc.	6/1/2032	8.00	Fixed Income	655,000	714,893	0.025%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.50	Fixed Income	4,935,160	4,653,164	0.158%
JNLDoubleLine® Core Fixed Income Fund	Market Group Inc.	5/16/2054	6.00	Fixed Income	830,000	902,946	0.031%
JNLDoubleLine® Core Fixed Income Fund	Black Hills Corporation	1/15/2035	6.00	Fixed Income	2,122,000	2,308,712	0.078%
JNLDoubleLine® Core Fixed Income Fund	Lifepoint Health, Inc.	5/9/2031	8.96	Fixed Income	74,813	75,102	0.003%
JNLDoubleLine® Core Fixed Income Fund	MF1 2024-FL14 LLC	3/19/2039	7.20	Fixed Income	2,500,000	2,509,124	0.085%
JNLDoubleLine® Core Fixed Income Fund	NaftWest Markets PLC	5/1/2029	5.41	Fixed Income	2,190,000	2,319,857	0.079%
JNLDoubleLine® Core Fixed Income Fund	Southern California Edison Company	6/1/2031	5.45	Fixed Income	1,930,000	2,094,191	0.071%
JNLDoubleLine® Core Fixed Income Fund	Oranien & Co	5/14/2031	7.48	Fixed Income	213,960	213,690	0.007%
JNLDoubleLine® Core Fixed Income Fund	Blue Racer Midstream, LLC	7/15/2032	7.25	Fixed Income	520,000	554,197	0.019%
JNLDoubleLine® Core Fixed Income Fund	Waterbridge Midstream Operating LLC	5/7/2029	9.60	Fixed Income	190,000	191,848	0.007%
JNLDoubleLine® Core Fixed Income Fund	MPLX LP	6/1/2034	5.50	Fixed Income	2,221,000	2,328,709	0.079%
JNLDoubleLine® Core Fixed Income Fund	BP Capital Markets America Inc.	11/17/2034	5.23	Fixed Income	2,205,000	2,332,868	0.079%
JNLDoubleLine® Core Fixed Income Fund	Nouryon Finance B.V.	4/2/2028	8.63	Fixed Income	335,712	321,928	0.011%
JNLDoubleLine® Core Fixed Income Fund	Nouryon Finance B.V.	8/3/2028	8.63	Fixed Income	82,730	83,565	0.003%
JNLDoubleLine® Core Fixed Income Fund	Whatstarbonds LLC	8/3/2028	8.00	Fixed Income	586,699	585,697	0.020%
JNLDoubleLine® Core Fixed Income Fund	BSPTK 2023-FL10 Issuer LLC	8/15/2028	8.36	Fixed Income	2,500,000	2,530,089	0.086%
JNLDoubleLine® Core Fixed Income Fund	Southern Veterinary Partners, LLC	10/5/2027	9.00	Fixed Income	713,172	713,650	0.024%
JNLDoubleLine® Core Fixed Income Fund	Service Properties Trust	6/15/2032	8.88	Fixed Income	110,000	108,152	0.004%
JNLDoubleLine® Core Fixed Income Fund	AEP Texas Inc.	5/15/2029	5.45	Fixed Income	1,290,000	1,369,792	0.047%
JNLDoubleLine® Core Fixed Income Fund	Coronerstone Building Brands, Inc.	5/5/2031	9.60	Fixed Income	95,000	54,515	0.002%
JNLDoubleLine® Core Fixed Income Fund	MF1 2023-FL12 LLC	11/19/2038	8.51	Fixed Income	2,500,000	2,517,280	0.085%
JNLDoubleLine® Core Fixed Income Fund	Gobierno de la Republica de Guatemala	6/5/2027	4.38	Fixed Income	200,000	198,071	0.007%
JNLDoubleLine® Core Fixed Income Fund	San Miguel Industrias Pet S.A.	8/2/2028	3.50	Fixed Income	200,000	184,003	0.006%
JNLDoubleLine® Core Fixed Income Fund	Schlumberger Holdings Corporation	11/15/2029	5.00	Fixed Income	1,792,000	1,879,076	0.064%
JNLDoubleLine® Core Fixed Income Fund	Bomardier, Inc.	6/1/2032	7.00	Fixed Income	165,000	172,181	0.006%
JNLDoubleLine® Core Fixed Income Fund	Verisk Analytics, Inc.	6/5/2034	5.25	Fixed Income	2,221,000	2,329,303	0.079%
JNLDoubleLine® Core Fixed Income Fund	Gates Corporation	7/1/2029	6.88	Fixed Income	345,000	365,138	0.012%
JNLDoubleLine® Core Fixed Income Fund	CPI Holdco B LLC	5/10/2031	7.25	Fixed Income	145,000	144,276	0.005%
JNLDoubleLine® Core Fixed Income Fund	Arizona Public Service Company	8/15/2034	7.70	Fixed Income	2,188,000	2,324,366	0.078%
JNLDoubleLine® Core Fixed Income Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Core Fixed Income Fund	Enbridge Holdings, Inc.	12/22/2027	6.92	Fixed Income	193,948	194,168	0.007%
JNLDoubleLine® Core Fixed Income Fund	Maclean, LLC	9/1/2029	8.45	Fixed Income	486,805	486,816	0.017%
JNLDoubleLine® Core Fixed Income Fund	Mat'ac, Inc.	6/15/2029	5.90	Fixed Income	750,000	794,674	0.027%
JNLDoubleLine® Core Fixed Income Fund	Grant Thornton Advisors LLC	5/30/2031	8.50	Fixed Income	300,000	300,403	0.010%
JNLDoubleLine® Core Fixed Income Fund	Sotera Health Holdings, LLC	5/30/2031	8.50	Fixed Income	625,000	622,797	0.021%
JNLDoubleLine® Core Fixed Income Fund	Duke Energy Corporation	6/15/2034	5.45	Fixed Income	2,126,000	2,258,792	0.077%
JNLDoubleLine® Core Fixed Income Fund	Switch AES Issuer, LLC	6/25/2035	5.44	Fixed Income	3,000,000	3,034,433	0.103%
JNLDoubleLine® Core Fixed Income Fund	Connect Finco Sarl	12/11/2026	8.75	Fixed Income	99,210	96,578	0.003%
JNLDoubleLine® Core Fixed Income Fund	Edelman Financial Center, LLC	10/23/2028	10.50	Fixed Income	205,000	204,121	0.007%
JNLDoubleLine® Core Fixed Income Fund	Buckeye Partners, L.P.	7/1/2029	6.88	Fixed Income	730,000	761,547	0.026%
JNLDoubleLine® Core Fixed Income Fund	Michell International, Inc.	8/5/2031	8.93	Fixed Income	1,010,000	994,491	0.034%
JNLDoubleLine® Core Fixed Income Fund	AcelorMittal	6/17/2034	6.00	Fixed Income	1,176,000	1,268,189	0.043%
JNLDoubleLine® Core Fixed Income Fund	United Talent Agency, LLC	7/7/2028	8.87	Fixed Income	149,250	150,247	0.005%
JNLDoubleLine® Core Fixed Income Fund	Reynolds Group Holdings Inc.	9/25/2028	7.75	Fixed Income	285,859	285,652	0.010%
JNLDoubleLine® Core Fixed Income Fund	Broadstreet Partners, Inc.	5/10/2031	8.50	Fixed Income	244,316	243,304	0.008%
JNLDoubleLine® Core Fixed Income Fund	Assemet Financial Holdings, Inc.	6/3/2031	7.95	Fixed Income	180,000	177,844	0.006%
JNLDoubleLine® Core Fixed Income Fund	Bancolombia SA	12/24/2034	8.63	Fixed Income	600,000	653,739	0.022%
JNLDoubleLine® Core Fixed Income Fund	Staples, Inc.	11/15/2030	12.75	Fixed Income	70,000	59,351	0.002%
JNLDoubleLine® Core Fixed Income Fund	Enel Finance International N.V.	6/26/2029	5.13	Fixed Income	782,000	811,020	0.028%
JNLDoubleLine® Core Fixed Income Fund	Aviation Capital Group LLC	7/15/2029	5.38	Fixed Income	1,627,000	1,683,218	0.057%
JNLDoubleLine® Core Fixed Income Fund	EMRLD Borrower LP	7/15/2031	6.75	Fixed Income	270,000	285,939	0.010%
JNLDoubleLine® Core Fixed Income Fund	Harbor Freight Tools USA, Inc.	6/5/2031	7.75	Fixed Income	328,263	234,478	0.008%
JNLDoubleLine® Core Fixed Income Fund	Prodyant, Inc.	8/31/2028	8.25	Fixed Income	654,687	654,345	0.022%
JNLDoubleLine® Core Fixed Income Fund	White Cap Buyer LLC	10/19/2029	8.50	Fixed Income	260,000	258,043	0.009%
JNLDoubleLine® Core Fixed Income Fund	Ion Trading Technologies S.a.r.l.	6/30/2027	9.02	Fixed Income	149,931	150,927	0.005%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2054	6.00	Fixed Income	5,913,483	6,121,314	0.208%
JNLDoubleLine® Core Fixed Income Fund	Vale Overseas Ltd	6/28/2054	6.40	Fixed Income	848,000	907,497	0.031%
JNLDoubleLine® Core Fixed Income Fund	Edelman Financial Center, LLC	3/15/2028	8.50	Fixed Income	595,914	594,816	0.020%
JNLDoubleLine® Core Fixed Income Fund	LSM Acquisition LLC	6/6/2031	8.97	Fixed Income	1,019,384	1,003,951	0.034%
JNLDoubleLine® Core Fixed Income Fund	Trans Union, LLC	6/6/2031	7.00	Fixed Income	189,525	189,132	0.006%
JNLDoubleLine® Core Fixed Income Fund	ASSET 2024-1	5/16/2031	6.26	Fixed Income	2,212,710	2,286,356	0.078%
JNLDoubleLine® Core Fixed Income Fund	Kronos Acquisition Holdings Inc	6/30/2033	7.30	Fixed Income	265,000	271,147	0.009%
JNLDoubleLine® Core Fixed Income Fund	ECO Services Operations Corp	6/9/2031	7.50	Fixed Income	512,807	515,745	0.018%
JNLDoubleLine® Core Fixed Income Fund	ECO Services Operations Corp	6/9/2031	7.50	Fixed Income	197,797	198,930	0.007%
JNLDoubleLine® Core Fixed Income Fund	Aeropuertos Dominicanos Siglo XXI	6/30/2034	7.00	Fixed Income	200,000	212,512	0.007%
JNLDoubleLine® Core Fixed Income Fund	Frontier Communications Corp.	6/20/2031	8.50	Fixed Income	420,000	431,149	0.015%
JNLDoubleLine® Core Fixed Income Fund	Apro, LLC	6/26/2031	8.87	Fixed Income	375,000	377,970	0.013%
JNLDoubleLine® Core Fixed Income Fund	Olympus Water US Holding Corporation	6/6/2031	8.85	Fixed Income	588,525	588,216	0.020%
JNLDoubleLine® Core Fixed Income Fund	Michell International, Inc.	6/7/2032	10.50	Fixed Income	225,000	220,941	0.008%
JNLDoubleLine® Core Fixed Income Fund	Energy Transfer LP	9/1/2029	7.13	Fixed Income	1,111,000	1,157,128	0.039%
JNLDoubleLine® Core Fixed Income Fund	Medco Laurel Tree Pte. Ltd.	11/27/2028	6.95	Fixed Income	200,000	205,421	0.007%
JNLDoubleLine® Core Fixed Income Fund	1011778 B.C. Unlimited Liability Company	9/23/2030	7.00	Fixed Income	214,463	212,128	0.007%
JNLDoubleLine® Core Fixed Income Fund	Avonagh Medco 3 PLC	2/28/2031	8.53	Fixed Income	95,746	98,550	0.003%
JNLDoubleLine® Core Fixed Income Fund	CVS Business Services, LLC	6/13/2031	8.80	Fixed Income	336,000	332,803	0.011%
JNLDoubleLine® Core Fixed Income Fund	LYB International Finance III, LLC	3/1/2034	5.50	Fixed Income	2,164,000	2,262,268	0.077%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2024-V8 Mortgage Trust	5/17/2029	5.71	Fixed Income	2,386,000	2,477,274	0.084%
JNLDoubleLine® Core Fixed Income Fund	Waterbridge Midstream Operating LLC	6/22/2029	10.08	Fixed Income	130,000	128,681	0.004%
JNLDoubleLine® Core Fixed Income Fund	Athene Global Funding	7/8/2027	5.25	Fixed Income	1,884,000	1,983,475	0.069%
JNLDoubleLine® Core Fixed Income Fund	AerCap Ireland Capital Designated Activity Company	3/10/2055	6.95	Fixed Income	2,192,000	2,303,588	0.078%
JNLDoubleLine® Core Fixed Income Fund	Banco Santander, S.A.	7/15/2028	5.37	Fixed Income	2,200,000	2,277,059	0.077%
JNLDoubleLine® Core Fixed Income Fund	Packaging Corporation of America	12/15/2029	3.00	Fixed Income	393,000	373,292	0.013%
JNLDoubleLine® Core Fixed Income Fund	Oncoflog Borrower LLC	6/1/2031	8.50	Fixed Income	708,223	701,607	0.024%
JNLDoubleLine® Core Fixed Income Fund	Watco Companies, L.L.C.	8/1/2032	7.13	Fixed Income	520,000	549,212	0.019%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2054	5.50	Fixed Income	2,945,764	3,041,758	0.103%
JNLDoubleLine® Core Fixed Income Fund	Kronos Acquisition Holdings Inc.	6/27/2031	9.31	Fixed Income	165,000	157,776	0.005%
JNLDoubleLine® Core Fixed Income Fund	BDS 2022-F111 LLC	3/19/2039	7.31	Fixed Income	2,230,000	2,331,557	0.079%
JNLDoubleLine® Core Fixed Income Fund	BlueMountain CLO XVIII Ltd	7/20/2033	9.39	Fixed Income	2,000,000	2,057,629	0.069%
JNLDoubleLine® Core Fixed Income Fund	Broadstreet Partners, Inc.	5/10/2031	8.50	Fixed Income	25,009	24,905	0.001%
JNLDoubleLine® Core Fixed Income Fund	Entergy Corporation	12/1/2054	7.13	Fixed Income	1,084,000	1,153,536	0.039%
JNLDoubleLine® Core Fixed Income Fund	Bank of New York Mellon Corporation, The	7/22/2032	5.06	Fixed Income	1,943,000	2,033,605	0.069%
JNLDoubleLine® Core Fixed Income Fund	Banco Nacional De Panama	8/11/2030	20.00	Fixed Income	166,000	166,024	0.001%
JNLDoubleLine® Core Fixed Income Fund	Goldman Sachs Group, Inc., The	7/23/2035	5.33	Fixed Income	2,099,000	2,197,030	0.075%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	5/1/2054	5.50	Fixed Income	11,964,483	12,316,982	0.418%
JNLDoubleLine® Core Fixed Income Fund	BlackRock Funding, Inc.	1/8/2055	5.35	Fixed Income	2,853,000	3,030,101	0.103%
JNLDoubleLine® Core Fixed Income Fund	Cloud Software Group, Inc.	3/30/2029	9.33	Fixed Income	1,012,989	1,022,105	0.034%
JNLDoubleLine® Core Fixed Income Fund	Acureus, LLC	11/6/2030	8.21	Fixed Income	623,535	617,938	0.021%
JNLDoubleLine® Core Fixed Income Fund	Nabors Industries, Inc.	8/15/2031	6.88	Fixed Income	130,000	125,863	0.004%
JNLDoubleLine® Core Fixed Income Fund	SM Energy Company	8/1/2032	7.00	Fixed Income	505,000	513,630	0.017%
JNLDoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	7/1/2052	5.50	Fixed Income	12,539,132	12,910,315	0.415%
JNLDoubleLine® Core Fixed Income Fund	Occidental Petroleum Corporation	1/1/2032	5.38	Fixed Income	485,000	496,402	0.017%
JNLDoubleLine® Core Fixed Income Fund	CARLYLE US CLO 2018-4 LTD	10/9/2037	8.04	Fixed Income	500,000	503,861	0.017%
JNLDoubleLine® Core Fixed Income Fund	Bain Capital Credit CLO 2024-4 Ltd	10/23/2037	7.97	Fixed Income	500,000	505,097	0.017%
JNLDoubleLine® Core Fixed Income Fund	Gobierno de la Republica de Guatemala	21/3/2028	4.98	Fixed Income	360,000	360,000	0.001%
JNLDoubleLine® Core Fixed Income Fund	Cydistade Acquisition Holdings, Inc.	11/1/2030	6.88	Fixed Income	515,000	532,941	0.018%
JNLDoubleLine® Core Fixed Income Fund	Group 1 Automotive, Inc.	1/15/2030	6.38	Fixed Income	340,000	349,287	0.012%
JNLDoubleLine® Core Fixed Income Fund	GIP Pilot Acquisition Partners LP	10/4/2030	7.82	Fixed Income	198,997	202,058	0.007%
JNLDoubleLine® Core Fixed Income Fund	Oncoflog Borrower LLC	6/12/2032	10.50	Fixed Income	235,000	232,486	0.008%
JNLDoubleLine® Core Fixed Income Fund	Homeserve USA Holding Corp.	10/21/2030	7.21	Fixed Income	203,975	203,916	0.007%
JNLDoubleLine® Core Fixed Income Fund	Permian Resources Operating, LLC	2/1/2033	6.25	Fixed Income	255,000	261,546	0.009%
JNLDoubleLine® Core Fixed Income Fund	Netflix, Inc.	5/15/2054	5.40	Fixed Income	1,610,000	1,718,823	0.058%
JNLDoubleLine® Core Fixed Income Fund	Amazon	12/31/2049	6.50	Fixed Income	455,000	453,294	0.016%
JNLDoubleLine® Core Fixed Income Fund	Standard Building Solutions Inc.	8/15/2032	6.50	Fixed Income	260,000	272,375	0.009%
JNLDoubleLine® Core Fixed Income Fund	Amerum Escrow Corp.	8/1/2032	7.25	Fixed Income	310,000	326,449	0.011%
JNLDoubleLine® Core Fixed Income Fund	Federal National Mortgage Association, Inc.	6/1/2047	3.50	Fixed Income	4,146,864	3,994,910	0.136%
JNLDoubleLine® Core Fixed Income Fund	Brown Group Holding, LLC	12/31/2034	8.00	Fixed Income	136,681	136,293	0.005%
JNLDoubleLine® Core Fixed Income Fund	Cornerstone Building Brands, Inc.	8/15/2029	9.50	Fixed Income	500,000	520,156	0.018%
JNLDoubleLine® Core Fixed Income Fund	Clarios Global LP	5/6/2030	7.75	Fixed Income	648,375	647,833	0.022%
JNLDoubleLine® Core Fixed Income Fund	Enterprise Products Operating LLC	2/18/2055	5.55	Fixed Income	2,191,000	2,282,502	0.078%
JNLDoubleLine® Core Fixed Income Fund	GBF US III LLC	7/28/2031	8.28	Fixed Income	165,000	166,833	0.006%
JNLDoubleLine® Core Fixed Income Fund	McGraw-Hill Education, Inc.	8/1/2031	7.38	Fixed Income	100,000	104,147	0.004%
JNLDoubleLine® Core Fixed Income Fund	Truist Financial Corporation	8/5/2032	5.15	Fixed Income	2,194,000	2,265,153	0.077%
JNLDoubleLine® Core Fixed Income Fund	Reynolds Group Holdings Inc.	9/25/2028	7.75	Fixed Income	55,627	55,587	0.002%
JNLDoubleLine® Core Fixed Income Fund	Reynolds Group Holdings Inc.	9/25/2028	7.75	Fixed Income	61,590	61,545	0.002%
JNLDoubleLine® Core Fixed Income Fund	CHC Healthcare Services Inc.	9/29/2028	8.86	Fixed Income	284,334	284,607	0.009%
JNLDoubleLine® Core Fixed Income Fund	Barf Merger Sub Inc	7/3/2031	9.01	Fixed Income	935,000	946,537	0.032%
JNLDoubleLine® Core Fixed Income Fund	Conservice Midco, LLC	5/13/2027	8.75	Fixed Income	307,282	307,618	0.010%
JNLDoubleLine® Core Fixed Income Fund	Mavis Tre Express Services Corp.	5/4/2028	8.75	Fixed Income	353,283	352,955	0.012%
JNLDoubleLine® Core Fixed Income Fund	High Tower Holdings LLC	4/21/2028	8.75	Fixed Income	613,463	621,663	0.021%
JNLDoubleLine® Core Fixed Income Fund	Virginia Electric and Power Company	8/15/2054	5.55	Fixed Income	796,000	841,897	0.029%
JNLDoubleLine® Core Fixed Income Fund	Entergy Utility Assets, LLC	9/15/2034	5.15	Fixed Income	1,114,000	1,157,102	0.039%
JNLDoubleLine® Core Fixed Income Fund	Targa Resources Corp.	2/15/2035	5.50	Fixed Income	478,000	495,714	0.017%
JNLDoubleLine® Core Fixed Income Fund	Quanta Services, Inc.	8/9/2034	5.25	Fixed Income	2,205,000	2,376,465	0.077%
JNLDoubleLine® Core Fixed Income Fund	Genuine Parts Company	8/15/2029	4.95	Fixed Income	2,175,000	2,230,452	0.076%
JNLDoubleLine® Core Fixed Income Fund	Lightning Power LLC	8/15/2032	7.25	Fixed Income	305,000	323,011	0.011%
JNLDoubleLine® Core Fixed Income Fund	D.R. Horton, Inc.	10/15/2034	5.00	Fixed Income	2,406,000	2,454,090	0.083%
JNLDoubleLine® Core Fixed Income Fund	Edgewater Generation, L.L.C.	7/26/2030	9.50	Fixed Income	230,000	231,301	0.008%
JNLDoubleLine® Core Fixed Income Fund	COP Holdco LP	12/31/2030	7.58	Fixed Income	413,962	413,309	0.014%
JNLDoubleLine® Core Fixed Income Fund	ASSET 2024-1	5/16/2031	6.90	Fixed Income	4,978,992	5,130,448	0.174%
JNLDoubleLine® Core Fixed Income Fund	Hovmest Aerospace Inc.	10/15/2031	4.85	Fixed Income	798,000	818,521	0.028%
JNLDoubleLine® Core Fixed Income Fund	JELD-WEN Holdings, Inc.	9/1/2032	7.00	Fixed Income	425,000	432,698	0.015%
JNLDoubleLine® Core Fixed Income Fund	Pest Holdings, Inc.	9/1/2033	6.38	Fixed Income	405,000	414,546	0.014%
JNLDoubleLine® Core Fixed Income Fund	Zimmer Biomet Holdings, Inc.	9/15/2034	5.20	Fixed Income	2,167,000	2,222,046	0.075%
JNLDoubleLine® Core Fixed Income Fund	Ministry of Finance	2/27/2026	0.50	Fixed Income	2,400,000	614,135	0.021%
JNLDoubleLine® Core Fixed Income Fund	Global Aviation Leasing Co., Ltd.	9/1/2027	8.75	Fixed Income	860,000	880,075	0.030%
JNLDoubleLine® Core Fixed Income Fund	Wind River 2021-1 CLO LP	7/20/2037	9.17	Fixed Income	500,000	507,717	0.017%
JNLDoubleLine® Core Fixed Income Fund	JSW Infrastructure Limited	1/21/2029	4.95	Fixed Income	700,000	687,568	0.023%
JNLDoubleLine® Core Fixed Income Fund	Arcois, Inc.	8/15/2032	6.88	Fixed Income	205,000	215,904	0.007%
JNLDoubleLine® Core Fixed Income Fund	Archrock Partners, L.P.	9/1/2032	6.63	Fixed Income	510,000	526,857	0.018%
JNLDoubleLine® Core Fixed Income Fund	O'Reilly Automotive, Inc.	8/19/2034	5.00	Fixed Income	1,119,000	1,138,533	0.039%
JNLDoubleLine® Core Fixed Income Fund	Enlink Midstream, LLC	9/1/2034	5.65	Fixed Income	3,313,000	3,432,650	0.117%
JNLDoubleLine® Core Fixed Income Fund	Benchmark 2024-V9 Mortgage Trust	8/17/2029	5.60	Fixed Income	2,361,000	2,459,744	0.084%
JNLDoubleLine® Core Fixed Income Fund	Sound Point CLO XVIII Ltd	12/1/2031	8.04	Fixed Income	1,000,000	993,921	0.034%
JNLDoubleLine® Core Fixed Income Fund	InfBlue Airways Corporation	9/20/2031	9.98	Fixed Income	330,400	350,655	0.012%
JNLDoubleLine® Core Fixed Income Fund	Royal Pharma PLC	9/2/2034	5.40	Fixed Income	2,168,000	2,260,595	0.077%
JNLDoubleLine® Core Fixed Income Fund	Wind River 2021-4 CLO Ltd.	1/22/2035	6.71	Fixed Income	5,000,000	5,068,299	0.172%
JNLDoubleLine® Core Fixed Income Fund	6297782 LLC	9/1/2027	4.91	Fixed Income	407,000	411,342	0.014%
JNLDoubleLine® Core Fixed Income Fund	Garuda World Security Corporation	7/1/2029	8.60	Fixed Income	557,870	559,180	0.019%
JNLDoubleLine® Core Fixed Income Fund	Wand Newco 3, Inc.	1/30/2031	8.50	Fixed Income	200,000	199,705	0.007%
JNLDoubleLine® Core Fixed Income Fund	Quest Diagnostics Incorporated	12/15/2034	5.00	Fixed Income	2,183,000	2,224,032	0.076%
JNLDoubleLine® Core Fixed Income Fund	Kenan Advantage Group, Inc.	1/25/2029	8.50	Fixed Income	353,227	361,251	0.012%
JNLDoubleLine® Core Fixed Income Fund	Devon Energy Corporation	9/15/2054	5.75	Fixed Income	2,226,000	2,181,721	0.074%
JNLDoubleLine®							

Fund Name	Investor	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/DoubleLine® Core Fixed Income Fund	Barclays PLC	9/10/2030	4.94	Fixed Income	2,504,000	2,533,429	0.086%
JNL/DoubleLine® Core Fixed Income Fund	Ardorhang Mico 3 PLC	2/28/2031	8.85	Fixed Income	18,172	18,191	0.001%
JNL/DoubleLine® Core Fixed Income Fund	Ardorhang Mico 3 PLC	2/28/2031	8.53	Fixed Income	86,663	87,783	0.003%
JNL/DoubleLine® Core Fixed Income Fund	Harbor Freight Tools USA, Inc.	6/5/2031	7.24	Fixed Income	31,737	31,430	0.001%
JNL/DoubleLine® Core Fixed Income Fund	CPPIB Capital Inc.	9/7/2031	8.59	Fixed Income	175,000	174,968	0.006%
JNL/DoubleLine® Core Fixed Income Fund	ABG Intermediate Holdings 2 LLC	12/31/2049		Fixed Income	135,000	135,085	0.005%
JNL/DoubleLine® Core Fixed Income Fund	Performance Food Group, Inc.	9/15/2032	6.13	Fixed Income	450,000	461,681	0.016%
JNL/DoubleLine® Core Fixed Income Fund	Uber Technologies, Inc.	9/15/2034	4.80	Fixed Income	2,180,000	2,180,864	0.014%
JNL/DoubleLine® Core Fixed Income Fund	Caladence Design Systems, Inc.	9/10/2034	7.70	Fixed Income	1,045,000	1,059,493	0.036%
JNL/DoubleLine® Core Fixed Income Fund	Avent Corporation	11/1/2031	6.25	Fixed Income	100,000	102,736	0.003%
JNL/DoubleLine® Core Fixed Income Fund	Federal Home Loan Mortgage Corporation	8/25/2044	7.08	Fixed Income	4,000,000	4,027,220	0.137%
JNL/DoubleLine® Core Fixed Income Fund	Horizon Aircraft Finance II Limited	9/15/2049	5.38	Fixed Income	2,000,000	2,013,795	0.068%
JNL/DoubleLine® Core Fixed Income Fund	Canvva Auto Receivables Trust 2024-P3	5/10/2029	5.31	Fixed Income	1,500,000	1,498,588	0.051%
JNL/DoubleLine® Core Fixed Income Fund	Victria Holdings LLC	9/15/2029	8.75	Fixed Income	415,000	437,060	0.015%
JNL/DoubleLine® Core Fixed Income Fund	Gerding New York LLC	10/1/2029	7.25	Fixed Income	365,000	369,593	0.013%
JNL/DoubleLine® Core Fixed Income Fund	BMO 2024-SC55 Mortgage Trust	9/1/2029	4.32	Fixed Income	2,367,000	2,425,547	0.082%
JNL/DoubleLine® Core Fixed Income Fund	Macquarie Airfinance Holdings Limited	3/17/2030	5.15	Fixed Income	222,000	222,783	0.009%
JNL/DoubleLine® Core Fixed Income Fund	Bunge Limited Finance Corp.	9/17/2034	4.65	Fixed Income	2,700,000	2,698,647	0.092%
JNL/DoubleLine® Core Fixed Income Fund	Delta 2 Lux Sert	12/31/2049		Fixed Income	25,000	24,990	0.001%
JNL/DoubleLine® Core Fixed Income Fund	Delta 2 Lux Sert	12/31/2049		Fixed Income	50,000	49,979	0.002%
JNL/DoubleLine® Core Fixed Income Fund	Focus Financial Partners Inc.	12/31/2049		Fixed Income	912,844	909,025	0.031%
JNL/DoubleLine® Core Fixed Income Fund	Focus Financial Partners Inc.	12/31/2049		Fixed Income	97,956	97,632	0.003%
JNL/DoubleLine® Core Fixed Income Fund	Banco Activo, S.A., Institucion de Banca Multiple, Grupo Financiero Activo	1/31/2041	7.25	Fixed Income	1,300,000	1,356,978	0.046%
JNL/DoubleLine® Core Fixed Income Fund	Alliant Holdings Intermediate, LLC	10/1/2031	6.50	Fixed Income	300,000	304,155	0.010%
JNL/DoubleLine® Core Fixed Income Fund	Service Public Federal Chancellerie Du Premier Ministre	10/22/2034	2.85	Fixed Income	800,000	813,980	0.031%
JNL/DoubleLine® Core Fixed Income Fund	Hewlett Packard Enterprise Company	10/15/2034	5.00	Fixed Income	5,386,000	5,331,361	0.181%
JNL/DoubleLine® Core Fixed Income Fund	Citigroup Inc.	9/19/2039	5.41	Fixed Income	2,224,000	2,222,532	0.075%
JNL/DoubleLine® Core Fixed Income Fund	BKAMS Mortgage Trust 2024-SC29	9/1/2029	5.21	Fixed Income	2,436,000	2,436,055	0.083%
JNL/DoubleLine® Core Fixed Income Fund	Vortex Open LLC	4/30/2030	8.00	Fixed Income	55,295	21,768	0.001%
JNL/DoubleLine® Core Fixed Income Fund	Vortex Open LLC	4/30/2030	11.26	Fixed Income	12,240	12,256	0.000%
JNL/DoubleLine® Core Fixed Income Fund	Royal Caribbean Cruises Ltd.	9/30/2031	5.63	Fixed Income	200,000	202,740	0.007%
JNL/DoubleLine® Core Fixed Income Fund	Ladbrock Holdings Inc.	10/1/2034	4.80	Fixed Income	5,388,000	5,332,829	0.181%
JNL/DoubleLine® Core Fixed Income Fund	Cirgo	12/31/2049		Fixed Income	685,000	683,922	0.023%
JNL/DoubleLine® Core Fixed Income Fund	Vortex Open LLC	12/15/2028	9.12	Fixed Income	110,543	78,848	0.003%
JNL/DoubleLine® Core Fixed Income Fund	Sonoco Products Company	9/1/2029	4.60	Fixed Income	782,000	781,098	0.027%
JNL/DoubleLine® Core Fixed Income Fund	Universal Health Services, Inc.	10/15/2029	4.63	Fixed Income	2,376,000	2,361,699	0.080%
JNL/DoubleLine® Core Fixed Income Fund	Uvent	9/1/2031		Fixed Income	395,000	394,558	0.013%
JNL/DoubleLine® Core Fixed Income Fund	Storm King Park CLO LTD	10/15/2037	6.30	Fixed Income	2,200,000	2,203,468	0.075%
JNL/DoubleLine® Core Fixed Income Fund	Comision Federal De Electricidad, E.P.E.	1/24/2035	6.45	Fixed Income	400,000	399,393	0.014%
JNL/DoubleLine® Core Fixed Income Fund	Compass Power Generation LLC	12/31/2049		Fixed Income	185,000	185,858	0.006%
JNL/DoubleLine® Core Fixed Income Fund	Fresby US Acquisition Corp	12/31/2049		Fixed Income	45,000	45,000	0.002%
JNL/DoubleLine® Core Fixed Income Fund	Aethon United BR LP	10/1/2029	7.50	Fixed Income	490,000	496,707	0.017%
JNL/DoubleLine® Core Fixed Income Fund	Benchmark 2024-V10 Mortgage Trust	9/1/2029	5.28	Fixed Income	2,400,000	2,468,972	0.084%
JNL/DoubleLine® Core Fixed Income Fund	Alpha Generation LLC	12/31/2049		Fixed Income	375,000	374,933	0.013%
JNL/DoubleLine® Core Fixed Income Fund	First Advantage	12/31/2049		Fixed Income	1,070,000	1,084,650	0.036%
JNL/DoubleLine® Core Fixed Income Fund	Madison Safety & Flow	12/31/2049		Fixed Income	185,000	184,769	0.006%
JNL/DoubleLine® Core Fixed Income Fund	BCPE Permutor Buyer Inc	12/31/2049		Fixed Income	95,000	94,545	0.003%
JNL/DoubleLine® Core Fixed Income Fund	Curium Bdo SA RI	12/31/2049		Fixed Income	170,000	170,354	0.006%
JNL/DoubleLine® Core Fixed Income Fund	LSPF Atlantis Holdings, LLC	9/10/2029	10.26	Fixed Income	29,625	29,625	0.001%
JNL/DoubleLine® Core Fixed Income Fund	Wayfar LLC	10/31/2029	7.25	Fixed Income	250,000	256,055	0.009%
JNL/DoubleLine® Core Fixed Income Fund	MATW Holdings, Inc.	10/1/2029	8.00	Fixed Income	360,000	366,798	0.012%
JNL/DoubleLine® Core Fixed Income Fund	Transdigm, Inc.	9/5/2032	7.32	Fixed Income	410,000	408,874	0.014%
JNL/DoubleLine® Core Fixed Income Fund	Polar US Borrower, LLC	10/1/2028		Fixed Income	149,814	148,646	0.004%
JNL/DoubleLine® Core Fixed Income Fund	American Equity Investment Life Holding Company	10/1/2029	5.75	Fixed Income	886,000	890,699	0.030%
JNL/DoubleLine® Core Fixed Income Fund	Alliant Holdings Intermediate, LLC	9/12/2031	7.96	Fixed Income	481,363	479,036	0.016%
JNL/DoubleLine® Core Fixed Income Fund	Dynamo US Bdo Inc	12/31/2049		Fixed Income	130,000	130,000	0.004%
JNL/DoubleLine® Core Fixed Income Fund	Starwood Property Trust, Inc.	4/15/2030	6.00	Fixed Income	169,045	169,045	0.006%
JNL/DoubleLine® Core Fixed Income Fund	Windstream Services, LLC	10/1/2031	8.25	Fixed Income	315,000	320,824	0.011%
JNL/DoubleLine® Core Fixed Income Fund	LD Celulose International GmbH	1/26/2032	7.95	Fixed Income	600,000	615,447	0.021%
JNL/DoubleLine® Core Fixed Income Fund	ThruStar Generation And Funding LLC	12/31/2049		Fixed Income	450,000	448,438	0.015%
JNL/DoubleLine® Core Fixed Income Fund	U.S. Foods Inc.	4/15/2033	5.75	Fixed Income	700,000	699,866	0.024%
JNL/DoubleLine® Core Fixed Income Fund	Fortress Transportation And Infrastructure Investors LLC	4/15/2033	5.88	Fixed Income	700,000	696,500	0.024%
Total Non Derivatives						2,941,701,741	
Derivatives							
JNL/DoubleLine® Core Fixed Income Fund	Bought USD / Sold I & S			Derivative		2,451	0.000%
JNL/DoubleLine® Core Fixed Income Fund	Bought USD / Sold I & S			Derivative		4,368	0.000%
JNL/DoubleLine® Core Fixed Income Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	300	32,342	0.001%
JNL/DoubleLine® Core Fixed Income Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	7,625	3,215,043	0.109%
JNL/DoubleLine® Core Fixed Income Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	740	3,676,883	0.124%
JNL/DoubleLine® Core Fixed Income Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-2,145	554,278	0.019%
JNL/DoubleLine® Core Fixed Income Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-35	50,746	0.002%
Total Derivatives						3,182,345	
All Investments						2,944,884,086	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDoubleLine® Emerging Markets Fixed Income Fund	Cash			Cash Equivalent	369,427	369,427	0.060%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Do Brasil SA	1/1/2200	8.75	Fixed Income	7,600,000	8,031,652	1.303%
JNLDoubleLine® Emerging Markets Fixed Income Fund	JNL Government Money Market Fund			4.82 Cash Equivalent	5,376,121	5,391,292	0.874%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Oversea-Chinese Banking Corporation Limited	9/10/2030	1.83	Fixed Income	11,200,000	10,876,205	1.764%
JNLDoubleLine® Emerging Markets Fixed Income Fund	ITAU Unibanco Holding SA	1/1/2200	4.63	Fixed Income	1,000,000	1,079,430	0.159%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Empresa Electrica Cochane SPA	5/14/2027	5.50	Fixed Income	2,704,355	2,679,809	0.435%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Internacional Del Peru S.A.A. – Interbank	7/8/2030	4.00	Fixed Income	10,590,000	12,526,756	2.031%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco de Credito del Peru	7/1/2030	3.13	Fixed Income	9,250,000	9,125,635	1.480%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Finix Power Peru S.A.	9/20/2027	4.32	Fixed Income	594,118	579,694	0.094%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani International Container Terminal Private Limited	2/16/2031	3.00	Fixed Income	686,000	7,065,378	1.098%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Bioceanic Sovereign Certificate Limited	6/5/2034		Fixed Income	5,280,657	4,137,395	0.671%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Chile Electricity PEC SpA	1/25/2028		Fixed Income	4,644,050	3,815,626	0.619%
JNLDoubleLine® Emerging Markets Fixed Income Fund	United Overseas Bank Limited	3/16/2031	1.75	Fixed Income	9,700,000	9,281,107	1.505%
JNLDoubleLine® Emerging Markets Fixed Income Fund	PEL Energy VI S.a.r.l.	12/1/2040	5.75	Fixed Income	1,428,890	1,396,112	0.225%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Minerva Luxembourg S.A.	3/18/2031	4.38	Fixed Income	4,000,000	3,558,684	0.577%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Sasol Financing USA LLC	9/18/2026	4.38	Fixed Income	1,000,000	972,675	0.158%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Davivienda S A	1/1/2200	6.65	Fixed Income	2,950,000	2,607,131	0.423%
JNLDoubleLine® Emerging Markets Fixed Income Fund	AES Andres B.V.	5/4/2028	5.00	Fixed Income	5,000,000	5,089,133	0.825%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Periana Holdings, LLC	4/19/2026	5.95	Fixed Income	6,700,000	6,963,123	1.113%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco do Estado do Rio Grande do Sul S/A.	1/28/2031	5.38	Fixed Income	3,000,000	2,970,507	0.482%
JNLDoubleLine® Emerging Markets Fixed Income Fund	PT Pertamina (Persero)	2/9/2026	1.40	Fixed Income	2,800,000	2,683,896	0.435%
JNLDoubleLine® Emerging Markets Fixed Income Fund	DBS Group Holdings Ltd	3/10/2031	1.82	Fixed Income	8,900,000	8,857,862	1.389%
JNLDoubleLine® Emerging Markets Fixed Income Fund	JSW Hydro Energy Limited	5/18/2031	4.13	Fixed Income	1,216,000	1,128,963	0.183%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Al Candelaria (Spain), S.L.U	6/15/2033	5.75	Fixed Income	4,000,000	3,338,512	0.541%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Empresas Publicas de Medellin E.S.P.	2/15/2031	4.38	Fixed Income	5,400,000	4,787,897	0.776%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani Ports and Special Economic Zone Limited	7/8/2029	4.38	Fixed Income	800,000	7,164,378	1.149%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Cap S.A.	4/27/2031	3.90	Fixed Income	2,250,000	1,879,589	0.305%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani Ports and Special Economic Zone Limited	2/2/2031	3.10	Fixed Income	3,800,000	3,237,367	0.525%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Empresas Publicas de Medellin E.S.P.	7/18/2029	4.25	Fixed Income	10,000,000	9,182,866	1.499%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani International Container Terminal Private Limited	2/18/2034	3.00	Fixed Income	5,872,700	5,257,144	0.858%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Orad Energy Eggen AS, For A.	4/28/2029	5.63	Fixed Income	2,431,000	2,886,425	0.460%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco de Credito del Peru	9/30/2031	3.25	Fixed Income	6,500,000	6,152,495	0.998%
JNLDoubleLine® Emerging Markets Fixed Income Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	1/18/2033	5.13	Fixed Income	6,900,000	6,633,068	1.076%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Compania de Minas Buenaventura S.A.A.	7/23/2026	5.50	Fixed Income	6,796,000	6,783,577	1.100%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Ecopetrol S.A.	11/2/2031	5.88	Fixed Income	10,900,000	7,993,428	1.292%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Ecopetrol S.A.	11/2/2031	4.63	Fixed Income	5,150,000	4,504,462	0.730%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Cap S.A.	4/27/2031	3.90	Fixed Income	8,229,000	6,874,285	1.115%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/12/2052	4.40	Fixed Income	6,600,000	5,118,579	0.830%
JNLDoubleLine® Emerging Markets Fixed Income Fund	ME Global Canada LLC	5/18/2027	5.15	Fixed Income	7,400,000	5,404,153	0.894%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Simpair Europe	1/26/2031	5.20	Fixed Income	6,525,000	5,478,525	0.888%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Petroleos del Peru - Petroperu S.A.	6/19/2047	5.63	Fixed Income	3,300,000	2,303,839	0.374%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Al Candelaria (Spain), S.L.U	6/15/2033	5.75	Fixed Income	8,519,000	7,110,211	1.153%
JNLDoubleLine® Emerging Markets Fixed Income Fund	PT. Indonesia Asahan Aluminium	5/15/2025	4.75	Fixed Income	7,380,000	7,412,830	1.204%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Continental S.A.E.C.A.	12/10/2025	2.75	Fixed Income	150,000	146,479	0.024%
JNLDoubleLine® Emerging Markets Fixed Income Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	9/13/2034	5.88	Fixed Income	4,900,000	4,786,910	0.776%
JNLDoubleLine® Emerging Markets Fixed Income Fund	UPL Corporation Limited	6/16/2030	4.63	Fixed Income	7,300,000	6,304,780	1.022%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Braskem Netherlands Finance B.V.	12/3/2081	8.50	Fixed Income	1,500,000	1,534,264	0.247%
JNLDoubleLine® Emerging Markets Fixed Income Fund	CEMEX S.A.B. de C.V.	1/1/2200	5.13	Fixed Income	11,000,000	10,857,193	1.761%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Network 02 Limited	1/1/2200	3.98	Fixed Income	900,000	884,439	0.143%
JNLDoubleLine® Emerging Markets Fixed Income Fund	MVZ Capital B.V.	6/1/2034	6.75	Fixed Income	7,484,909	7,473,021	1.212%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Rutas 2 And 7 Finance Ltd	9/30/2030	5.13	Fixed Income	8,143,132	6,143,132	1.049%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Nacional De Comercio Exterior, S.N.C.	8/11/2031	2.72	Fixed Income	7,000,000	6,397,638	1.039%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Braskem Idesa, S.A.P.I.	2/20/2032	6.99	Fixed Income	2,900,000	2,307,490	0.374%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Mercantil Del Norte S.A	1/1/2200	6.63	Fixed Income	2,300,000	2,164,993	0.351%
JNLDoubleLine® Emerging Markets Fixed Income Fund	PT Freport Indonesia	4/14/2027	4.76	Fixed Income	6,400,000	6,572,238	1.064%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Sumo Duong Finance Holdings B.V.	5/7/2029	5.13	Fixed Income	5,017,521	4,680,932	0.805%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco GNB Sudameris S.A.	4/16/2031	7.50	Fixed Income	800,000	800,493	0.130%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Guana Norte S.a.r.l.	6/15/2034	5.20	Fixed Income	11,583,334	11,207,899	1.818%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani Electricity Mumbai Limited	7/22/2031	3.67	Fixed Income	900,000	788,847	0.128%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Gobierno de la Republica de Guatemala	9/10/2027	5.25	Fixed Income	200,000	2,099,268	0.340%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani Electricity Mumbai Limited	2/12/2030	3.95	Fixed Income	4,600,000	4,175,381	0.677%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Industrial S.A.	1/29/2031	4.88	Fixed Income	4,800,000	4,749,204	0.770%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Network 02 Limited	1/1/2200	5.65	Fixed Income	11,000,000	11,262,056	1.826%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Petroleos Mexicanos	9/21/2047	6.75	Fixed Income	7,650,000	5,484,153	0.899%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Cosan Overseas Limited	1/1/2200	8.25	Fixed Income	7,900,000	8,158,950	1.323%
JNLDoubleLine® Emerging Markets Fixed Income Fund	New Costa LLC			Equity	1	0	0.000%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Al Candelaria (Spain), S.L.U	12/15/2028	7.50	Fixed Income	2,632,727	2,651,502	0.430%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Vedanta Resources Limited	12/9/2029	13.88	Fixed Income	6,110,000	6,354,268	1.056%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani Energy Solutions Limited	8/3/2026	4.00	Fixed Income	3,800,000	3,710,370	0.602%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Reliance Industries Limited	1/28/2025	4.13	Fixed Income	3,750,000	3,767,873	0.611%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Mercantil Del Norte, S.A., Institucion De Banca Multiple, Grupo Financiero Banorte	1/1/2200	7.63	Fixed Income	6,900,000	7,024,429	1.139%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Millicom International Cellular SA	10/15/2028	6.63	Fixed Income	4,050,000	4,040,768	0.658%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Bharti Airtel Limited	6/10/2025	4.38	Fixed Income	200,000	202,188	0.033%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Fidelsocom Patrimonio Autonomo Panamericaana	1/15/2035	8.25	Fixed Income	1,203,020	1,227,064	0.199%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Departamento Administrativo De La Presidencia De La Republica	4/25/2027	3.88	Fixed Income	1,000,000	861,594	0.159%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Millicom International Cellular SA	1/15/2028	5.13	Fixed Income	1,170,000	1,150,534	0.187%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Reliance Industries Limited	11/30/2027	3.67	Fixed Income	250,000	247,482	0.040%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Government of the Republic of Panama	3/17/2028	3.88	Fixed Income	400,000	386,599	0.063%
JNLDoubleLine® Emerging Markets Fixed Income Fund	UPL Corporation Limited	3/8/2028	4.50	Fixed Income	1,191,000	1,075,305	0.174%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Empresa Electrica Arganosa S.p.A.	5/25/2029	4.88	Fixed Income	1,260,000	1,149,278	0.190%
JNLDoubleLine® Emerging Markets Fixed Income Fund	South Africa, Parliament of	10/12/2039	6.00	Fixed Income	6,020,000	6,123,803	0.993%
JNLDoubleLine® Emerging Markets Fixed Income Fund	GNL Quintero S.A.	7/31/2029	4.63	Fixed Income	117,680	117,716	0.019%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Lima Metro Line 2 Finance Limited	7/5/2034	5.88	Fixed Income	3,268,835	3,339,275	0.542%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Fermaca Empreites S. de R.L. de C.V.	3/30/2038	6.38	Fixed Income	367,489	365,022	0.059%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Ennegate Trust	5/30/2027	5.88	Fixed Income	2,300,000	2,318,087	0.378%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Aby Transmision Sur S.A.	4/30/2043	6.88	Fixed Income	877,824	972,007	0.158%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Ecopetrol S.A.	5/28/2045	5.88	Fixed Income	950,000	733,629	0.119%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Departamento Administrativo De La Presidencia De La Republica	6/15/2045	5.00	Fixed Income	13,000,000	9,763,053	1.583%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Bogota	12/1/2026	5.00	Fixed Income	500,000	514,107	0.084%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Vedanta Resources Finance II PLC	4/23/2026	9.25	Fixed Income	2,000,000	2,062,170	0.334%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Mexico Generadora De Energia, S. De R.L. De C.V.	12/6/2032	5.50	Fixed Income	2,351,618	2,389,437	0.387%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Millicom International Cellular SA	3/25/2029	6.25	Fixed Income	3,466,800	3,457,364	0.561%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Ocufoformas, S.A.P.I. de C.V.	12/4/2025	10.25	Fixed Income	2,400,000	1,120,243	0.182%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Adani Ports and Special Economic Zone Limited	7/30/2027	4.00	Fixed Income	2,600,000	2,507,304	0.407%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Cometa Energia SA de CV	4/24/2035	6.38	Fixed Income	1,483,900	1,541,944	0.250%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Petroleos del Peru - Petroperu S.A.	6/19/2032	4.75	Fixed Income	4,400,000	3,752,937	0.609%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Cencosud S.A.	7/17/2027	4.38	Fixed Income	400,000	400,268	0.065%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Credito Real, S.A.B. De C.V., Sofom, E.N.R.	1/1/2200	9.13	Fixed Income	3,200,000	16,000	0.003%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Banco Mercantil Del Norte, S.A., Institucion De Banca Multiple, Grupo Financiero Banorte	1/1/2200	7.50	Fixed Income	1,200,000	1,200,989	0.195%
JNLDoubleLine® Emerging Markets Fixed Income Fund	AES Andres SA	10/7/2029	6.35	Fixed Income	1,156,000	1,183,031	0.192%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Mexico Oak Tree Pte. Ltd.	5/14/2026	7.38	Fixed Income	7,185,000	7,485,588	1.214%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Freepore-McMoran Inc.	9/1/2029	5.25	Fixed Income	700,000	713,812	0.116%
JNLDoubleLine® Emerging Markets Fixed Income Fund	AES Andres SA	10/7/2029	6.35	Fixed Income	1,500,000	1,531,062	0.248%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Bancolombia SA	12/18/2029	4.63	Fixed Income	10,973,000	10,995,866	1.783%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Grupo Andl Acciones y Valores S.A.	3/4/2030	4.38	Fixed Income	200,000	179,405	0.029%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Alpha Africa, Parliament of	2/10/2039	9.00	Fixed Income	292,241	323,444	0.052%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Hunt Oil U.S.A. Inc.	6/1/2028	6.38	Fixed Income	799,104	725,864	0.116%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	4/27/2051	5.00	Fixed Income	1,400,000	1,214,889	0.197%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Ecopetrol S.A.	4/29/2030	6.88	Fixed Income	2,000,000	2,061,227	0.334%
JNLDoubleLine® Emerging Markets Fixed Income Fund	EQUATE Petrochemical B.V.	11/3/2026	4.25	Fixed Income	200,000	200,748	0.033%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Freepore-McMoran Inc.	8/1/2028	4.38	Fixed Income	1,200,000	1,198,490	0.194%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Freepore-McMoran Inc.	8/1/2030	4.63	Fixed Income	600,000	600,631	0.097%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Braskem Netherlands Finance B.V.	1/23/2081	8.50	Fixed Income	6,000,000	6,099,288	0.989%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Oversea-Chinese Banking Corporation Limited	9/10/2030	1.83	Fixed Income	3,000,000	2,913,269	0.472%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Government of the Republic of Panama	7/23/2060	3.87	Fixed Income	11,300,000	7,202,184	1.168%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Government of the Republic of Panama	9/29/2032	2.25	Fixed Income	5,000,000	3,875,622	0.629%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Departamento Administrativo De La Presidencia De La Republica	5/15/2051	4.13	Fixed Income	4,000,000	2,587,323	0.420%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Multibank, Inc.	2/3/2028	7.75	Fixed Income	1,500,000	1,577,505	0.256%
JNLDoubleLine® Emerging Markets Fixed Income Fund	CT Trust	2/3/2032	5.13	Fixed Income	5,000,000	4,619,437	0.749%
JNLDoubleLine® Emerging Markets Fixed Income Fund	United Overseas Bank Limited	10/14/2031	2.00	Fixed Income	2,600,000	2,487,703	0.403%
JNLDoubleLine® Emerging Markets Fixed Income Fund	JSW Energy Limited	5/18/2031	4.13	Fixed Income	6,232,000	5,785,927	0.938%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Global Bank Corporation	2/16/2029	5.25	Fixed Income	3,500,000	3,281,244	0.537%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Unigel Luxembourg SA	10/1/2026	8.75	Fixed Income	900,000	226,762	0.037%
JNLDoubleLine® Emerging Markets Fixed Income Fund	Agropur S.A.	12/0/2032	4.60	Fixed Income	1,850,000	1,	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Minsur S.A.	10/28/2031	4.50	Fixed Income	3,000,000	2,817,054	0.457%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Gobierno de La Republica del Paraguay	3/27/2027	4.70	Fixed Income	490,000	399,208	0.065%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Patrimonio en Fideicomiso D.S. 093-2002 - EF InRetail Shopping Malls	4/3/2028	5.75	Fixed Income	4,147,000	4,288,613	0.696%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Patrimonio en Fideicomiso D.S. N 093-2002-EF-InRetail Consumer	3/22/2028	3.25	Fixed Income	5,850,000	5,464,181	0.886%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Southern Copper Corporation	4/23/2025	3.88	Fixed Income	1,500,000	1,514,309	0.246%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Acu Petreides Luxembourg S.a r.l.	7/13/2039	7.50	Fixed Income	6,802,513	6,922,437	1.123%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Grupo Kuo, S.A.B. De C.V.	7/7/2027	5.75	Fixed Income	4,498,000	4,485,673	0.727%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	PT Bank Negara Indonesia (Persero), Tbk.	3/30/2026	3.75	Fixed Income	5,200,000	5,066,838	0.822%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Comision Federal De Electricidad, E.P.E.	2/9/2031	3.35	Fixed Income	200,000	173,643	0.028%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Movida Europe S.A.	4/11/2029	7.85	Fixed Income	3,000,000	2,998,975	0.486%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Banco Del Estado De Chile	11/1/200	7.95	Fixed Income	1,500,000	1,661,755	0.269%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Lima Metro Line 2 Finance Limited	4/5/2036	4.35	Fixed Income	8,316,522	7,868,961	1.276%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Gobierno de la Republica de Guatemala	6/5/2027	4.38	Fixed Income	1,200,000	1,188,433	0.193%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	San Miguel Industrias Pet S.A.	8/2/2028	3.50	Fixed Income	1,200,000	1,104,018	0.179%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Bancolombia SA	12/04/2034	8.63	Fixed Income	2,900,000	3,159,137	0.512%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Electricidad Firme de Mexico Holdings, S.A. de C.V.	11/20/2026	4.90	Fixed Income	1,650,000	1,637,856	0.266%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Aeropuertos Dominicanos Siglo XXI	6/30/2034	7.00	Fixed Income	200,000	212,512	0.034%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Medco Laurel Tree Pte. Ltd.	11/12/2028	6.95	Fixed Income	2,585,000	2,655,101	0.431%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Movida Europe S.A.	4/11/2029	7.85	Fixed Income	2,000,000	1,999,340	0.324%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Banco Nacional De Panama	8/11/2030	2.50	Fixed Income	300,000	249,036	0.040%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Gobierno de la Republica de Guatemala	2/13/2028	4.88	Fixed Income	2,200,000	2,181,281	0.354%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	JSW Infrastructure Limited	1/21/2029	4.95	Fixed Income	3,700,000	3,634,295	0.589%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Office Cherillen Des Phosphates SA	10/22/2025	4.50	Fixed Income	1,460,000	1,474,929	0.239%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Ternocandelaria Power SA	9/17/2031	7.75	Fixed Income	2,200,000	2,262,910	0.367%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Banco Actinver, S.A., Institucion de Banca Multiple, Grupo Financiero Actinver	1/31/2041	7.25	Fixed Income	5,100,000	5,323,529	0.863%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	Comision Federal De Electricidad, E.P.E.	1/24/2035	6.45	Fixed Income	3,300,000	3,294,996	0.534%
JNL/DoubleLine® Emerging Markets Fixed Income Fund	LD Cellulose International GmbH	1/26/2032	7.95	Fixed Income	3,500,000	3,590,105	0.582%
Total Non Derivatives						616,637,366	
Derivatives							
Total Derivatives						0	
Total All Investments						616,637,366	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDoubleLine® Shiller Enhanced CAPE Fund	Cash			Cash Equivalent	696.150	696.150	0.038%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Long Beach Mortgage Loan Trust 2006-6	7/25/2036	5.27	Fixed Income	9,475,857	3,752,222	0.209%
JNLDoubleLine® Shiller Enhanced CAPE Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	70,822,753	71,097,332	3.911%
JNLDoubleLine® Shiller Enhanced CAPE Fund	PREMP 2016-KF18 Mortgage Trust	5/25/2026	10.96	Fixed Income	456,962	453,255	0.025%
JNLDoubleLine® Shiller Enhanced CAPE Fund	PREMP 2017-KF27 Mortgage Trust	12/25/2026	9.81	Fixed Income	266,158	261,558	0.014%
JNLDoubleLine® Shiller Enhanced CAPE Fund	PREMP 2017-KF30 Mortgage Trust	3/25/2027	8.63	Fixed Income	499,228	492,228	0.027%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Oversea-Chinese Banking Corporation Limited	9/10/2030	1.83	Fixed Income	1,700,000	1,650,853	0.091%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Loampal Solar Loan 2020-3 LLC	8/20/2035	2.47	Fixed Income	1,668,284	1,433,829	0.079%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Fondo Ibrusa, S.A. de C.V., Sociedad de Inversion de Renta Variable	4/11/2027	4.38	Fixed Income	1,400,220	1,386,222	0.077%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	11/25/2030	0.88	Fixed Income	125,000,000	108,799,853	5.875%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Santander Drive Auto Receivables Trust 2020-4	9/15/2025	1.48	Fixed Income	406,514	404,197	0.022%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Upstart Pass-Through Trust Series 2020-S16	1/20/2027	3.00	Fixed Income	314,407	314,119	0.017%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Empresa Elctrica Cochran S.A.	5/14/2027	5.50	Fixed Income	638,680	632,883	0.035%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	11/25/2030	1.30	Fixed Income	6,738,533	6,295,853	0.346%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Gold Fields Orogen Holding (BVI) Limited	5/15/2029	6.13	Fixed Income	400,000	428,257	0.024%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Banco Internacional Del Peru S.A.A. - Interbank	7/8/2030	4.00	Fixed Income	1,500,000	1,492,465	0.082%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Carvana Auto Receivables Trust 2020-P1	9/8/2025	1.82	Fixed Income	1,300,000	1,243,957	0.068%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Banco Continental S.A. de C.A.	7/1/2030	3.13	Fixed Income	1,150,000	1,134,537	0.062%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Departamento Administrativo De La Presidencia De La Republica	1/28/2026	4.50	Fixed Income	2,100,000	2,093,907	0.115%
JNLDoubleLine® Shiller Enhanced CAPE Fund	CEMEX S.A.B. de C.V.	11/19/2029	5.45	Fixed Income	400,000	412,092	0.023%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Loampal Solar Loan 2021-1 Ltd.	11/19/2024	2.29	Fixed Income	1,741,079	1,430,971	0.079%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Fenix Power Peru S.A.	9/20/2027	4.32	Fixed Income	1,188,235	1,159,387	0.064%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Bioeconico Sovereign Certificate Limited	6/5/2034		Fixed Income	464,698	364,091	0.020%
JNLDoubleLine® Shiller Enhanced CAPE Fund	GS Mortgage Securities Trust 2020-GSA2	12/12/2053	1.82	Fixed Income	28,269,754	21,266,803	0.117%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Benchmark 2020-S12 Mortgage Trust	11/6/2054	1.62	Fixed Income	30,413,039	21,933,862	0.123%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	12/31/2025	0.38	Fixed Income	65,250,000	62,559,102	3.411%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Avolon Holdings Funding Limited	2/21/2026	2.13	Fixed Income	1,750,000	1,696,521	0.093%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Royal Bank of Canada	1/20/2026	5.81	Fixed Income	816,000	824,602	0.045%
JNLDoubleLine® Shiller Enhanced CAPE Fund	VOLT 1XCVI, LLC	2/27/2051	4.89	Fixed Income	3,389,044	3,289,900	0.243%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Asstra SPV Corp	3/24/2026	4.38	Fixed Income	800,000	788,226	0.044%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	8/27/2029	7.76	Fixed Income	920,282	873,033	0.048%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Exeter Automobile Receivables Trust 2021-1	11/16/2026	1.08	Fixed Income	701,453	691,100	0.038%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Exeter Automobile Receivables Trust 2021-1	21/5/2028	2.21	Fixed Income	3,350,000	3,263,698	0.180%
JNLDoubleLine® Shiller Enhanced CAPE Fund	LF Funding LLC	2/25/2041	1.65	Fixed Income	2,830,000	2,597,538	0.139%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	1/31/2028	0.75	Fixed Income	80,900,000	73,872,912	4.064%
JNLDoubleLine® Shiller Enhanced CAPE Fund	LCM XVI Limited Partnership	10/15/2031	6.71	Fixed Income	3,147,021	3,195,648	0.176%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Chile Electricity PEC SPA	12/5/2028	2.31	Fixed Income	2,371,430	1,948,405	0.107%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	2/28/2031	0.38	Fixed Income	56,200,000	51,732,890	2.866%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Alternative Loan Trust 2006-OCB	11/25/2036	5.29	Fixed Income	851,307	787,078	0.043%
JNLDoubleLine® Shiller Enhanced CAPE Fund	VOLT 1XCVI, LLC	2/27/2051	2.24	Fixed Income	1,615,072	1,610,740	0.089%
JNLDoubleLine® Shiller Enhanced CAPE Fund	United Overseas Bank Limited	3/16/2031	1.75	Fixed Income	2,000,000	1,913,630	0.105%
JNLDoubleLine® Shiller Enhanced CAPE Fund	First Franklin Mortgage Loan Trust 2004-FF10 Asset-Backed Certificates, Series 2004-FF10	11/6/2054	5.62	Fixed Income	989,276	967,265	0.052%
JNLDoubleLine® Shiller Enhanced CAPE Fund	COMM 2014-CORE16 Mortgage Trust	4/12/2047	4.87	Fixed Income	1,000,000	905,481	0.050%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Carrington Mortgage Loan Trust, Series 2006-NC4	7/25/2036	5.13	Fixed Income	1,379,429	1,349,215	0.074%
JNLDoubleLine® Shiller Enhanced CAPE Fund	VMC Finance 2019-FL3 LLC	9/17/2036	7.26	Fixed Income	29,756	29,859	0.002%
JNLDoubleLine® Shiller Enhanced CAPE Fund	New Mountain CLO 2148	4/15/2034	6.75	Fixed Income	4,000,000	4,093,965	0.248%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Securitized Asset Backed Receivables LLC Trust 2007-HE1	12/25/2036	5.19	Fixed Income	5,105,357	1,079,577	0.059%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Upstart Pass-Through Trust Series 2021-S13	5/20/2027	2.00	Fixed Income	158,370	155,079	0.009%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Catalent Pharma Solutions Inc.	5/18/2026	7.03	Fixed Income	2,208,866	2,209,558	0.122%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Asplundh Tree Expert, LLC	7/10/2027	7.10	Fixed Income	1,493,379	1,494,161	0.082%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Sasid Financing USA LLC	9/18/2026	4.38	Fixed Income	200,000	194,535	0.011%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Alternative Loan Trust 2007-23CB	9/25/2037	6.50	Fixed Income	5,707,225	3,093,864	0.170%
JNLDoubleLine® Shiller Enhanced CAPE Fund	CMALT 1 (CMortgage Alternative Loan Trust), Series 2007-A6	6/25/2037	6.00	Fixed Income	816,679	741,215	0.041%
JNLDoubleLine® Shiller Enhanced CAPE Fund	VOLT 1XCVI, LLC	4/25/2051	4.34	Fixed Income	274,134	273,714	0.014%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	3/31/2033	0.75	Fixed Income	58,850,000	56,285,171	3.066%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Elmwood CLO II Ltd	4/20/2034	6.69	Fixed Income	5,000,000	5,072,401	0.279%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Morgan Stanley ABS Capital I Inc. Trust 2007-HE3	12/25/2036	5.10	Fixed Income	2,868,764	1,680,933	0.092%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Securitized Asset Backed Receivables LLC Trust 2006-WM4	11/25/2036	6.45	Fixed Income	1,692,508	437,084	0.240%
JNLDoubleLine® Shiller Enhanced CAPE Fund	AAJX Mortgage Loan Trust 2021-C	1/25/2061	9.12	Fixed Income	971,821	967,538	0.053%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Battalion CLO XI Ltd	4/24/2034	6.69	Fixed Income	8,000,000	8,110,392	0.446%
JNLDoubleLine® Shiller Enhanced CAPE Fund	KFC Holding Co.	3/10/2028	6.88	Fixed Income	1,291,924	1,298,370	0.071%
JNLDoubleLine® Shiller Enhanced CAPE Fund	VOLT 1XCVI, LLC	4/25/2051	2.12	Fixed Income	3,008,134	2,965,301	0.164%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Banco de Credito del Peru	1/30/2033	3.25	Fixed Income	1,500,000	1,419,899	0.078%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Gobierno de La Republica del Paraguay	4/15/2026	5.00	Fixed Income	900,000	921,920	0.051%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Palmer Square CLO Ltd	7/17/2034	6.71	Fixed Income	5,000,000	5,084,149	0.280%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Galaxy XXI CLO Ltd	4/17/2034	6.75	Fixed Income	8,000,000	8,115,461	0.444%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Marlette Funding Trust 2021-1	11/16/2031	7.10	Fixed Income	867,176	856,280	0.047%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Washington Mutual Asset-Backed Certificates WMABS Series 2006-HE5 Trust	10/25/2036	5.15	Fixed Income	7,368,219	2,513,861	0.138%
JNLDoubleLine® Shiller Enhanced CAPE Fund	FS Rialto 2021-FL2 Issuer, Ltd.	5/18/2038	6.43	Fixed Income	3,452,943	3,447,828	0.190%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Battalion CLO XII Ltd	7/17/2034	6.74	Fixed Income	1,500,000	1,524,415	0.084%
JNLDoubleLine® Shiller Enhanced CAPE Fund	TAU Unibanco Holding SA	4/15/2031	3.98	Fixed Income	1,200,000	1,189,568	0.065%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Structured Adjustable Rate Mortgage Loan Trust Series 2006-11	12/25/2036	5.29	Fixed Income	2,918,850	2,834,451	0.156%
JNLDoubleLine® Shiller Enhanced CAPE Fund	WaMu Asset-Backed Certificates, WaMu Series 200X-HEX Trust	4/25/2036	5.55	Fixed Income	6,534,784	2,332,839	0.128%
JNLDoubleLine® Shiller Enhanced CAPE Fund	VOLT 1X CVI, LLC	5/25/2051	1.99	Fixed Income	1,270,101	1,261,251	0.069%
JNLDoubleLine® Shiller Enhanced CAPE Fund	PT Pertamina (Persero)	9/8/2026	1.40	Fixed Income	1,700,000	1,629,598	0.090%
JNLDoubleLine® Shiller Enhanced CAPE Fund	DBS Group Holdings Ltd	3/10/2031	1.82	Fixed Income	2,200,000	2,115,427	0.116%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Plecoor Technologies Operating Company, LLC	4/21/2028	7.10	Fixed Income	4,579,067	4,572,094	0.252%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Wellfleet CLO X, Ltd.	7/20/2032	6.71	Fixed Income	9,932,637	10,071,056	0.554%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Sound Point CLO XXIII	7/17/2034	6.73	Fixed Income	10,000,000	10,151,681	0.568%
JNLDoubleLine® Shiller Enhanced CAPE Fund	MP CLO VIII Ltd	4/28/2034	6.73	Fixed Income	5,000,000	5,063,228	0.279%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Neva Resources S.A.	5/4/2027	5.38	Fixed Income	300,000	305,835	0.017%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Pagaya AI Debt Selection Trust	1/25/2029	3.00	Fixed Income	483,668	483,132	0.027%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Pagaya AI Debt Selection Trust	11/16/2029	1.82	Fixed Income	311,205	304,781	0.017%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Wells Fargo Commercial Mortgage Trust 2018-C48	11/16/2032	6.10	Fixed Income	12,805,522	426,128	0.023%
JNLDoubleLine® Shiller Enhanced CAPE Fund	LoanCore 2021-CRE5 Issuer Ltd.	7/15/2036	6.51	Fixed Income	1,965,604	1,964,931	0.108%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Legacy Mortgage Asset Trust 2021-GS3	7/25/2061	4.75	Fixed Income	3,368,956	3,366,949	0.185%
JNLDoubleLine® Shiller Enhanced CAPE Fund	LFT CRE 2021-FL1 LLC	6/17/2039	6.38	Fixed Income	3,803,823	3,588,671	0.197%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	4/31/2025	0.50	Fixed Income	1,200,000	1,196,587	0.172%
JNLDoubleLine® Shiller Enhanced CAPE Fund	CBAM 2017-2 Ltd	7/17/2034	6.74	Fixed Income	5,000,000	5,073,267	0.279%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Nicohop Technology Incorporated	9/1/2025	4.25	Fixed Income	230,000	230,123	0.013%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Empresas Publicas de Medellin E.S.P.	7/18/2029	4.25	Fixed Income	300,000	275,485	0.015%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Goffi Consumer Loan Program 2021-1 Trust	5/25/2030	9.12	Fixed Income	1,069,214	1,064,104	0.058%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Glencore Funding LLC	4/16/2025	4.00	Fixed Income	967,000	960,609	0.054%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Gruposura Finance	4/29/2026	5.50	Fixed Income	800,000	810,634	0.045%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Adan International Container Terminal Private Limited	2/16/2033	3.00	Fixed Income	664,000	584,450	0.032%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Harbortrust Mortgage Loan Trust, 2006-11	12/18/2036	5.42	Fixed Income	3,705,598	3,332,397	0.183%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Arbor Multifamily Mortgage Securities Trust 2021-M2	6/15/2054	1.22	Fixed Income	50,953,112	2,774,459	0.153%
JNLDoubleLine® Shiller Enhanced CAPE Fund	MF1 2021-FL6 Ltd.	7/18/2036	6.23	Fixed Income	635,644	632,509	0.035%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Orazul Energy Esgor S. Enc. Por A.	4/28/2027	5.63	Fixed Income	950,000	956,152	0.053%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	6/15/2042	1.36	Fixed Income	299,759	299,865	0.017%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Pretium Mortgage Credit Partners 12021-NPL2, LLC	6/27/2060	4.99	Fixed Income	2,560,138	2,539,004	0.140%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Camposol SA	2/9/2027	6.00	Fixed Income	350,000	318,031	0.017%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Banco de Credito del Peru	9/30/2031	3.25	Fixed Income	200,000	189,308	0.010%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Crown City CLO	7/20/2034	6.71	Fixed Income	3,000,000	3,044,114	0.167%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Dell International L.L.C.	7/15/2025	5.85	Fixed Income	701,000	715,051	0.039%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Edenfield Int America Trust 2021-ESH	7/15/2038	6.29	Fixed Income	3,590,873	3,594,185	0.198%
JNLDoubleLine® Shiller Enhanced CAPE Fund	BBGMS Mortgage Trust 2021-C10	7/17/2054	1.13	Fixed Income	26,096,000	1,455,073	0.080%
JNLDoubleLine® Shiller Enhanced CAPE Fund	BBGMS Mortgage Trust 2021-C10	7/17/2054	1.80	Fixed Income	16,250,000	1,457,191	0.080%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Sound Point CLO XXIII Ltd	7/20/2034	6.71	Fixed Income	7,500,000	7,610,945	0.419%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Marble Point CLO XXII Ltd	7/25/2034	6.75	Fixed Income	7,500,000	7,598,436	0.418%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Chemiere Energy, Inc.	10/15/2028	4.63	Fixed Income	1,557,000	1,575,389	0.087%
JNLDoubleLine® Shiller Enhanced CAPE Fund	BRSP 2021-FL1, Ltd.	8/19/2038	6.23	Fixed Income	3,563,228	3,554,693	0.196%
JNLDoubleLine® Shiller Enhanced CAPE Fund	BRSP 2021-FL1, Ltd.	8/19/2038	6.88	Fixed Income	4,812,000	4,762,149	0.252%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Pretium Mortgage Credit Partners LLC	7/25/2051	1.87	Fixed Income	12,623,323	12,502,300	0.688%
JNLDoubleLine® Shiller Enhanced CAPE Fund	KREF 2021-FL2 Ltd.	2/17/2039	6.27	Fixed Income	4,091,705	4,051,321	0.223%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Bear Stearns AFM Trust 2007-1	2/25/2047	6.45	Fixed Income	5,968,140	5,175,551	0.285%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Greystone CRE Notes 2021-FL3, Ltd.	7/15/2039	6.23	Fixed Income	3,385,053	3,381,785	0.183%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Greystone CRE Notes 2021-FL3, Ltd.	7/15/2039	7.21	Fixed Income	1,300,000	1,293,206	0.071%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Treasury, United States Department of	7/31/2026	0.63	Fixed Income	34,550,000	32,729,318	1.800%
JNLDoubleLine® Shiller Enhanced CAPE Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine Shiller Enhanced CAPE Fund	Treasury, United States Department of	9/30/2026	0.88	Fixed Income	40,100,000	37,983,183	2.090%
JNLDoubleLine Shiller Enhanced CAPE Fund	OPG Trust 2021-P0RT	10/15/2036	5.00	Fixed Income	2,219,289	2,219,289	0.123%
JNLDoubleLine Shiller Enhanced CAPE Fund	Standard Industries Inc.	9/5/2028	6.92	Fixed Income	1,896,866	1,896,931	0.104%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2018-HCLV Mortgage Trust	9/15/2033	7.57	Fixed Income	197,000	88,890	0.005%
JNLDoubleLine Shiller Enhanced CAPE Fund	Compania de Minas Buenaventura S.A.A.	7/23/2026	5.50	Fixed Income	1,100,000	1,097,993	0.060%
JNLDoubleLine Shiller Enhanced CAPE Fund	Whitebox CLO B Ltd	10/16/2034	6.78	Fixed Income	15,000,000	15,226,247	0.868%
JNLDoubleLine Shiller Enhanced CAPE Fund	BX Commercial Mortgage Trust 2021-XL2	10/15/2033	5.90	Fixed Income	3,185,237	3,186,383	0.174%
JNLDoubleLine Shiller Enhanced CAPE Fund	Alternative Loan Trust 2007-12T1	6/25/2037	6.00	Fixed Income	4,205,323	1,939,563	0.107%
JNLDoubleLine Shiller Enhanced CAPE Fund	Merrill Lynch Mortgage Investors Trust, Series MLCC 2006-2	5/25/2037	5.29	Fixed Income	5,987,694	3,499,680	0.193%
JNLDoubleLine Shiller Enhanced CAPE Fund	Sierra Timeshare 2021-2 Receivables Funding LLC	9/20/2038	1.95	Fixed Income	485,688	459,597	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Blanc de America Funding 2006-D Trust	9/20/2036	3.97	Fixed Income	1,788,673	1,395,175	0.082%
JNLDoubleLine Shiller Enhanced CAPE Fund	Colt 2021-RP1L Trust	9/25/2061	1.67	Fixed Income	3,156,039	2,849,330	0.157%
JNLDoubleLine Shiller Enhanced CAPE Fund	Residential Mortgage Loan Trust 2019-2	5/27/2059	3.86	Fixed Income	10,440,545	10,423,326	0.573%
JNLDoubleLine Shiller Enhanced CAPE Fund	Starwood Mortgage Residential Trust 2021-5	9/25/2066	1.92	Fixed Income	7,299,556	6,322,796	0.348%
JNLDoubleLine Shiller Enhanced CAPE Fund	Purewest Funding LLC	12/20/2036	4.09	Fixed Income	1,593,862	1,568,862	0.086%
JNLDoubleLine Shiller Enhanced CAPE Fund	CHL Mortgage Pass-Through Trust 2007-HY3	7/25/2037	6.00	Fixed Income	2,835,345	1,395,886	0.077%
JNLDoubleLine Shiller Enhanced CAPE Fund	LCCM 2021-FL3 Trust	11/17/2036	7.01	Fixed Income	2,250,000	2,203,591	0.121%
JNLDoubleLine Shiller Enhanced CAPE Fund	LCCM 2021-FL3 Trust	11/17/2036	7.41	Fixed Income	2,250,000	2,176,632	0.120%
JNLDoubleLine Shiller Enhanced CAPE Fund	Venus Securitization Trust 2021-7	10/25/2066	1.93	Fixed Income	1,380,432	1,253,368	0.069%
JNLDoubleLine Shiller Enhanced CAPE Fund	Angell Oak Mortgage Trust 2021-7	11/25/2025	1.98	Fixed Income	3,271,586	2,846,292	0.157%
JNLDoubleLine Shiller Enhanced CAPE Fund	Pagaya AI Debt Selection Trust 2021-5	8/15/2029	2.63	Fixed Income	304,980	304,799	0.017%
JNLDoubleLine Shiller Enhanced CAPE Fund	Pagaya AI Debt Selection Trust 2021-5	8/15/2029	3.93	Fixed Income	10,998,704	10,687,617	0.589%
JNLDoubleLine Shiller Enhanced CAPE Fund	CQS US CLO 2021-1 Ltd	1/22/2035	6.76	Fixed Income	6,000,000	6,084,403	0.335%
JNLDoubleLine Shiller Enhanced CAPE Fund	CQS US CLO 2021-1 Ltd	1/22/2035	7.42	Fixed Income	3,400,000	3,457,458	0.190%
JNLDoubleLine Shiller Enhanced CAPE Fund	Trimaran CAVU 2021-3, Ltd.	11/18/2035	6.75	Fixed Income	6,500,000	6,596,137	0.363%
JNLDoubleLine Shiller Enhanced CAPE Fund	BSPRIT 2021-FL7 Issuer, Ltd.	12/15/2038	7.26	Fixed Income	2,000,000	1,989,016	0.109%
JNLDoubleLine Shiller Enhanced CAPE Fund	Walker & Dunlop, Inc.	10/14/2028	7.60	Fixed Income	632,135	629,149	0.035%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo & Company	4/17/2026	4.09	Fixed Income	2,000,000	1,937,340	0.107%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bank of Montreal	1/10/2025	1.50	Fixed Income	732,000	727,696	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	MF1 2022-FL8 Ltd.	2/20/2037	6.31	Fixed Income	3,196,589	3,188,617	0.175%
JNLDoubleLine Shiller Enhanced CAPE Fund	Planet Fitness Master	12/7/2026	3.95	Fixed Income	975,000	853,521	0.046%
JNLDoubleLine Shiller Enhanced CAPE Fund	Ahor Realty Collateralized Loan Obligation Ltd	11/15/2037	6.19	Fixed Income	4,115,931	4,118,058	0.227%
JNLDoubleLine Shiller Enhanced CAPE Fund	Pagaya AI Debt Trust 2022-1	10/15/2029	3.34	Fixed Income	4,021,982	3,991,945	0.220%
JNLDoubleLine Shiller Enhanced CAPE Fund	BSPRIT 2022-FL8 Issuer, Ltd.	2/17/2037	6.84	Fixed Income	4,031,496	4,028,737	0.222%
JNLDoubleLine Shiller Enhanced CAPE Fund	Navient Private Education Refi Loan Trust 2022-A	7/15/2070	2.23	Fixed Income	3,120,618	2,880,854	0.158%
JNLDoubleLine Shiller Enhanced CAPE Fund	KREF 2022-FL3 Ltd	2/22/2039	6.41	Fixed Income	3,388,100	3,395,175	0.189%
JNLDoubleLine Shiller Enhanced CAPE Fund	TRTX 2022-FL5 Issuer, Ltd.	2/17/2039	6.73	Fixed Income	5,068,944	5,049,901	0.278%
JNLDoubleLine Shiller Enhanced CAPE Fund	BX Commercial Mortgage Trust 2022-LP2	2/15/2039	6.11	Fixed Income	2,277,707	2,271,555	0.125%
JNLDoubleLine Shiller Enhanced CAPE Fund	LoanOne 2021-CRE7 Issuer Ltd	12/1/2037	6.89	Fixed Income	3,205,705	3,206,335	0.176%
JNLDoubleLine Shiller Enhanced CAPE Fund	Mizuho Financial Group, Inc.	9/22/2027	6.19	Fixed Income	840,000	852,214	0.047%
JNLDoubleLine Shiller Enhanced CAPE Fund	COLY 2022-2 Mortgage Loan Trust	2/25/2067	2.99	Fixed Income	3,497,135	3,334,199	0.183%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Commercial Mortgage Trust 2022-ONL	2/18/2027	3.86	Fixed Income	5,250,000	4,763,956	0.262%
JNLDoubleLine Shiller Enhanced CAPE Fund	Charles Schwab Corporation, The	3/9/2027	6.22	Fixed Income	810,000	820,134	0.045%
JNLDoubleLine Shiller Enhanced CAPE Fund	MFC Finance 2022-FL5 LLC	2/18/2039	7.26	Fixed Income	2,217,244	2,218,165	0.122%
JNLDoubleLine Shiller Enhanced CAPE Fund	MEGlobal Canada Ltd	5/18/2025	5.00	Fixed Income	600,000	609,507	0.034%
JNLDoubleLine Shiller Enhanced CAPE Fund	Kinder Morgan, Inc.	6/1/2025	4.30	Fixed Income	815,000	823,304	0.045%
JNLDoubleLine Shiller Enhanced CAPE Fund	PT Freepost Indonesia	4/14/2027	4.76	Fixed Income	600,000	616,146	0.034%
JNLDoubleLine Shiller Enhanced CAPE Fund	Lendbox Securitization Trust 2022-1	5/17/2027	4.22	Fixed Income	783,572	778,096	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	FS Rialto 2021-FL3 Issuer, Ltd.	11/18/2036	6.46	Fixed Income	4,139,691	4,123,928	0.227%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bain Capital Credit CLO 2022-3, Limited	7/17/2035	7.29	Fixed Income	10,500,000	10,672,862	0.587%
JNLDoubleLine Shiller Enhanced CAPE Fund	Citigroup Mortgage Trust 2021-4-L6	4/26/2038	4.75	Fixed Income	11,513,627	10,550,320	0.580%
JNLDoubleLine Shiller Enhanced CAPE Fund	PT Indonesia Asahan Aluminium	5/15/2025	4.76	Fixed Income	1,900,000	1,929,149	0.109%
JNLDoubleLine Shiller Enhanced CAPE Fund	MF1 2022-FL9 LLC	6/22/2037	7.11	Fixed Income	3,272,056	3,283,259	0.181%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bank Continental S.A.E.C.A.	12/10/2025	2.75	Fixed Income	400,000	390,621	0.021%
JNLDoubleLine Shiller Enhanced CAPE Fund	General Mills, Inc.	4/17/2025	4.00	Fixed Income	725,000	734,974	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	Pacific Gas And Electric Company	9/8/2025	4.95	Fixed Income	769,000	790,717	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	Braskem Netherlands Finance B.V.	12/25/2026	8.50	Fixed Income	1,400,000	1,423,167	0.078%
JNLDoubleLine Shiller Enhanced CAPE Fund	Canadian Imperial Bank of Commerce	8/4/2025	3.95	Fixed Income	802,000	803,111	0.044%
JNLDoubleLine Shiller Enhanced CAPE Fund	New York Life Global Funding	8/5/2025	3.60	Fixed Income	643,000	644,215	0.035%
JNLDoubleLine Shiller Enhanced CAPE Fund	BX Trust 2022-PSB	8/15/2039	7.55	Fixed Income	2,457,809	2,472,193	0.136%
JNLDoubleLine Shiller Enhanced CAPE Fund	AI Group North America Corporation	10/13/2022	6.19	Fixed Income	1,001,300	1,004,168	0.054%
JNLDoubleLine Shiller Enhanced CAPE Fund	MV24 Capital B.V.	6/1/2034	6.75	Fixed Income	1,182,450	1,180,572	0.065%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banco Nacional De Comercio Exterior, S.N.C.	8/11/2031	2.72	Fixed Income	1,400,000	1,279,528	0.070%
JNLDoubleLine Shiller Enhanced CAPE Fund	Low's Companies, Inc.	9/8/2025	4.40	Fixed Income	462,000	463,328	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	PT Freepost Indonesia	4/14/2027	4.76	Fixed Income	1,000,000	1,026,814	0.056%
JNLDoubleLine Shiller Enhanced CAPE Fund	MHC Commercial Mortgage Trust 2021-MHC	4/15/2026	6.01	Fixed Income	3,523,282	3,518,501	0.194%
JNLDoubleLine Shiller Enhanced CAPE Fund	Ming Doung Finance Holdings B.V.	5/7/2029	5.13	Fixed Income	421,640	417,277	0.023%
JNLDoubleLine Shiller Enhanced CAPE Fund	Ahor Realty Commercial Real Estate Notes 2022-FI2, LLC	5/15/2037	6.95	Fixed Income	4,227,734	4,239,467	0.233%
JNLDoubleLine Shiller Enhanced CAPE Fund	BX Commercial Mortgage Trust 2021-CIP	12/15/2038	6.13	Fixed Income	2,356,840	2,347,165	0.129%
JNLDoubleLine Shiller Enhanced CAPE Fund	Public Service Enterprise Group Incorporated	11/15/2027	5.85	Fixed Income	1,092,000	1,167,793	0.064%
JNLDoubleLine Shiller Enhanced CAPE Fund	Oracle Corporation	11/10/2025	5.80	Fixed Income	1,502,000	1,559,772	0.086%
JNLDoubleLine Shiller Enhanced CAPE Fund	General Mills, Inc.	11/18/2025	5.24	Fixed Income	608,000	620,278	0.034%
JNLDoubleLine Shiller Enhanced CAPE Fund	Guava Norte S.a.r.l.	6/15/2034	6.19	Fixed Income	1,573,485	1,573,485	0.084%
JNLDoubleLine Shiller Enhanced CAPE Fund	Glencore Funding LLC	9/1/2025	1.63	Fixed Income	600,000	584,900	0.032%
JNLDoubleLine Shiller Enhanced CAPE Fund	Gobierno de la Republica de Guatemala	5/3/2026	4.50	Fixed Income	1,700,000	1,710,179	0.094%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banco Industrial S.A.	1/29/2031	4.88	Fixed Income	950,000	939,924	0.052%
JNLDoubleLine Shiller Enhanced CAPE Fund	Network G Limited	1/1/2020	5.65	Fixed Income	250,000	250,946	0.014%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bank of Nova Scotia, The	2/2/2026	4.75	Fixed Income	713,000	723,163	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Commercial Mortgage Trust 2018-C47	10/17/2028	5.08	Fixed Income	344,000	305,941	0.017%
JNLDoubleLine Shiller Enhanced CAPE Fund	GS Mortgage Securities Corp Trust 2018-RVR	7/16/2035	7.74	Fixed Income	2,000,000	11,883	0.000%
JNLDoubleLine Shiller Enhanced CAPE Fund	Cosun Luxembourg S.A.	12/20/2027	7.00	Fixed Income	1,450,000	1,475,572	0.081%
JNLDoubleLine Shiller Enhanced CAPE Fund	Nations Commercial Mortgage Trust 2018-FL1	6/15/2035	7.34	Fixed Income	3,129,000	2,276,245	0.125%
JNLDoubleLine Shiller Enhanced CAPE Fund	Deutsche Alt-A Securities Mortgage Loan Trust Series 2007-2	9/25/2047	5.27	Fixed Income	804,071	697,041	0.038%
JNLDoubleLine Shiller Enhanced CAPE Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	11/12/2029	5.35	Fixed Income	900,000	909,256	0.050%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2015-CCRE12 Mortgage Trust	10/15/2046	0.74	Fixed Income	2,303,031	14,890	0.001%
JNLDoubleLine Shiller Enhanced CAPE Fund	Kestrel Aircraft Funding Limited	11/18/2048	4.25	Fixed Income	897,484	856,146	0.047%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Mortgage Backed Securities 2007-7 Trust	6/25/2037	6.00	Fixed Income	168,421	153,366	0.008%
JNLDoubleLine Shiller Enhanced CAPE Fund	Cybera DC Holdings, Inc.	5/1/2026	8.33	Fixed Income	107,269	107	0.000%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2014-UBS3 Mortgage Trust	6/12/2047	0.78	Fixed Income	2,272,323	12,468	0.001%
JNLDoubleLine Shiller Enhanced CAPE Fund	AI Chandra (Spain), S.L.U.	4/1/2028	7.04	Fixed Income	1,341,819	1,351,231	0.074%
JNLDoubleLine Shiller Enhanced CAPE Fund	GS Mortgage Securities Trust 2014-GC24	9/12/2047	0.61	Fixed Income	984,590	1,070	0.000%
JNLDoubleLine Shiller Enhanced CAPE Fund	WFRBS Commercial Mortgage Trust 2014-C21	8/16/2047	0.70	Fixed Income	90,335	228	0.000%
JNLDoubleLine Shiller Enhanced CAPE Fund	Adam Energy Solutions Limited	8/3/2026	4.00	Fixed Income	1,100,000	1,074,054	0.059%
JNLDoubleLine Shiller Enhanced CAPE Fund	Reliance Industries Limited	1/28/2025	4.13	Fixed Income	1,000,000	1,004,165	0.054%
JNLDoubleLine Shiller Enhanced CAPE Fund	General Motors Financial Company, Inc.	11/15/2025	4.00	Fixed Income	1,515,000	1,522,466	0.084%
JNLDoubleLine Shiller Enhanced CAPE Fund	Citigroup Commercial Mortgage Trust 2015-GC27	1/10/2025	4.55	Fixed Income	1,520,000	1,475,555	0.081%
JNLDoubleLine Shiller Enhanced CAPE Fund	HCA Inc.	2/1/2025	5.38	Fixed Income	1,641,000	1,656,244	0.091%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2015-LC21 Mortgage Trust	7/10/2048	0.75	Fixed Income	14,620,637	49,370	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	LSSTAR Commercial Mortgage Trust 2016-4	3/12/2049	1.83	Fixed Income	8,816,413	114,668	0.006%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2015-CCRE25 Mortgage Trust	8/12/2048	0.93	Fixed Income	17,596,233	83,704	0.005%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2015-CCRE26 Mortgage Trust	10/13/2048	1.04	Fixed Income	4,218,204	21,314	0.001%
JNLDoubleLine Shiller Enhanced CAPE Fund	Saline Pass Liquidation	3/1/2025	5.65	Fixed Income	240,000	240,873	0.013%
JNLDoubleLine Shiller Enhanced CAPE Fund	Millicom International Cellular SA	10/15/2026	6.63	Fixed Income	450,000	462,641	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Government of the Republic of Panama	3/16/2025	3.75	Fixed Income	500,000	497,027	0.027%
JNLDoubleLine Shiller Enhanced CAPE Fund	Campbell Soup Company	3/1/2025	3.95	Fixed Income	1,579,000	1,574,842	0.087%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bheri Artel Limited	6/10/2025	4.38	Fixed Income	600,000	606,563	0.033%
JNLDoubleLine Shiller Enhanced CAPE Fund	Lions Gate Capital Holdings LLC	3/20/2025	7.60	Fixed Income	71,901	71,901	0.004%
JNLDoubleLine Shiller Enhanced CAPE Fund	DBJPM 2016-C1 Mortgage Trust	5/12/2049	1.51	Fixed Income	11,143,658	155,167	0.009%
JNLDoubleLine Shiller Enhanced CAPE Fund	GS Mortgage Securities Trust 2015-GS1	11/13/2048	0.90	Fixed Income	5,141,687	33,447	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	COMM 2015-CCRE27 Mortgage Trust	10/13/2048	1.05	Fixed Income	9,707,294	66,334	0.004%
JNLDoubleLine Shiller Enhanced CAPE Fund	JPMBB Commercial Mortgage Securities Trust 2015-C31	11/18/2048	1.24	Fixed Income	7,660,176	45,120	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo & Company	3/17/2059	1.72	Fixed Income	1,870,603	31,887	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	JPMBD Commercial Mortgage Securities Trust 2016-C2	6/17/2049	1.62	Fixed Income	23,921,437	385,447	0.021%
JNLDoubleLine Shiller Enhanced CAPE Fund	JPMBB Commercial Mortgage Securities Trust 2015-JP1	1/15/2049	1.03	Fixed Income	2,839,105	33,740	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	Navient Private Education Refi Loan Trust 2018-A	11/17/2025	3.88	Fixed Income	2,987,819	2,077,181	0.112%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Commercial Mortgage Trust 2015-NX54	11/18/2025	3.83	Fixed Income	375,000	339,630	0.019%
JNLDoubleLine Shiller Enhanced CAPE Fund	JP Morgan Chase & Co.	7/15/2025	3.90	Fixed Income	1,518,000	1,524,908	0.084%
JNLDoubleLine Shiller Enhanced CAPE Fund	Morgan Stanley Capital I Trust 2015-UBS8	12/17/2048	1.00	Fixed Income	3,902,339	27,015	0.001%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Commercial Mortgage Trust 2015-P2	12/17/2048	1.07	Fixed Income	3,119,650	22,692	0.001%
JNLDoubleLine Shiller Enhanced CAPE Fund	Morgan Stanley	1/27/2026	3.88	Fixed Income	1,528,000	1,532,667	0.084%
JNLDoubleLine Shiller Enhanced CAPE Fund	Citigroup Commercial Mortgage Trust 2016-GC36	2/12/2049	1.36	Fixed Income	3,690,442	44,456	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	Citigroup Commercial Mortgage Trust 2016-GC37	4/12/2049					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine Shiller Enhanced CAPE Fund	Highbridge Loan Management 3-2014	7/18/2029	9.14	Fixed Income	1,900,000	1,939,164	0.107%
JNLDoubleLine Shiller Enhanced CAPE Fund	GNL Quintero S.A.	7/31/2029	4.63	Fixed Income	841,440	841,440	0.052%
JNLDoubleLine Shiller Enhanced CAPE Fund	Nassau 2014-1 Ltd.	7/15/2031	6.71	Fixed Income	2,912,441	2,995,513	0.163%
JNLDoubleLine Shiller Enhanced CAPE Fund	Lima Metro Line 2 Finance Limited	7/5/2034	5.88	Fixed Income	800,772	818,028	0.045%
JNLDoubleLine Shiller Enhanced CAPE Fund	Sociedad Quimica Y Minera De Chile S.A.	12/28/2025	4.38	Fixed Income	1,200,000	1,203,813	0.066%
JNLDoubleLine Shiller Enhanced CAPE Fund	Credit Suisse First Boston Mortgage Securities Corp.	12/25/2035	6.00	Fixed Income	417,952	419,046	0.024%
JNLDoubleLine Shiller Enhanced CAPE Fund	Morgan Stanley ABS Capital Trust Inc.	1/25/2035	5.63	Fixed Income	1,753,996	1,704,728	0.094%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banc de America Alternative Loan Trust 2006-3	11/25/2035	6.00	Fixed Income	256,967	231,322	0.013%
JNLDoubleLine Shiller Enhanced CAPE Fund	Structured Asset Securities Corporation	4/25/2035	5.75	Fixed Income	1,734,248	976,295	0.054%
JNLDoubleLine Shiller Enhanced CAPE Fund	Structured Adjustable Rate Mortgage Loan Trust 2005-3XS	12/25/2035	5.33	Fixed Income	476,420	409,680	0.023%
JNLDoubleLine Shiller Enhanced CAPE Fund	RALI Series 2005-0512 Trust	9/25/2036	6.00	Fixed Income	612,083	593,408	0.029%
JNLDoubleLine Shiller Enhanced CAPE Fund	RFMSI Series 2006-S4 Trust	4/25/2036	6.00	Fixed Income	379,344	313,548	0.017%
JNLDoubleLine Shiller Enhanced CAPE Fund	Alternative Loan Trust 2006-19CB	8/25/2036	6.00	Fixed Income	762,871	460,984	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Alternative Loan 2007-PA3 Trust	7/25/2037	6.25	Fixed Income	265,074	232,301	0.013%
JNLDoubleLine Shiller Enhanced CAPE Fund	Citimortgage Alternative Loan Trust, Series 2006-A3	7/25/2036	6.00	Fixed Income	555,187	514,700	0.026%
JNLDoubleLine Shiller Enhanced CAPE Fund	Alternative Loan Trust 2006-29T1	10/25/2036	6.50	Fixed Income	655,022	404,346	0.022%
JNLDoubleLine Shiller Enhanced CAPE Fund	Washington Mutual Mortgage Pass-Through Certificates WMALT Series 2006-AR2 Trust	2/25/2036	5.48	Fixed Income	14,687,384	13,624,156	0.749%
JNLDoubleLine Shiller Enhanced CAPE Fund	IndyMac MBS, Inc.	5/25/2036	6.00	Fixed Income	1,052,547	439,589	0.024%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo Mortgage Backed Securities 2007-AR4 Trust	8/25/2037	7.05	Fixed Income	89,546	81,169	0.004%
JNLDoubleLine Shiller Enhanced CAPE Fund	BB-UBS Trust	6/7/2030	3.68	Fixed Income	2,481,834	2,457,687	0.135%
JNLDoubleLine Shiller Enhanced CAPE Fund	Commonbond Student Loan Trust 2016-A	5/25/2040	3.32	Fixed Income	241,086	234,252	0.013%
JNLDoubleLine Shiller Enhanced CAPE Fund	Carbon Capital VI Commercial Mortgage 2017-FL1 Tru	10/15/2035	8.06	Fixed Income	1,752,236	1,028,289	0.057%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banco De Bogota	5/12/2026	6.25	Fixed Income	1,300,000	1,336,423	0.074%
JNLDoubleLine Shiller Enhanced CAPE Fund	Mitsubishi UFJ Financial Group Inc.	3/2/2025	3.78	Fixed Income	1,843,000	1,840,166	0.101%
JNLDoubleLine Shiller Enhanced CAPE Fund	Castlelake Aircraft Structured Trust 2019-1	4/16/2032	3.97	Fixed Income	1,800,266	1,668,181	0.092%
JNLDoubleLine Shiller Enhanced CAPE Fund	Mexico Generadora De Energia, S. De R.L. De C.V.	12/26/2022	5.50	Fixed Income	483,872	491,654	0.027%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	1,295,000	1,139,930	0.059%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	1,406,000	1,321,694	0.073%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	1,476,000	1,341,337	0.074%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	1,612,000	1,464,165	0.081%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.34	Fixed Income	1,177,000	1,120,551	0.058%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banco Bilbao Vizcaya Argentaria Colombia S.A.	4/21/2024	3.88	Fixed Income	900,000	911,071	0.050%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-AON	7/8/2031	4.61	Fixed Income	3,103,000	1,268,779	0.070%
JNLDoubleLine Shiller Enhanced CAPE Fund	Start Ltd	5/15/2025	4.09	Fixed Income	412,483	397,970	0.022%
JNLDoubleLine Shiller Enhanced CAPE Fund	Vista Operations Company LLC	12/11/2025	7.25	Fixed Income	2,948,609	2,948,669	0.162%
JNLDoubleLine Shiller Enhanced CAPE Fund	Velocity Commercial Capital Loan Trust 2019-2	8/30/2027	7.13	Fixed Income	2,961,903	1,936,785	0.107%
JNLDoubleLine Shiller Enhanced CAPE Fund	Arroyo Trust 2019-3	12/25/2025	3.42	Fixed Income	827,770	776,095	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	Adrian Ports and Special Economic Zone Limited	7/30/2027	4.00	Fixed Income	1,100,000	1,060,783	0.058%
JNLDoubleLine Shiller Enhanced CAPE Fund	STWD 2019-FL1 Ltd.	7/15/2038	6.60	Fixed Income	239,798	239,391	0.013%
JNLDoubleLine Shiller Enhanced CAPE Fund	Comision Federal De Electricidad, E.P.E.	2/23/2027	4.75	Fixed Income	1,000,000	1,092,934	0.057%
JNLDoubleLine Shiller Enhanced CAPE Fund	BBCMS 2018-TALL Mortgage Trust	3/16/2037	8.53	Fixed Income	4,000,000	2,784,017	0.153%
JNLDoubleLine Shiller Enhanced CAPE Fund	US Foods, Inc.	8/14/2026	7.36	Fixed Income	486,200	486,047	0.027%
JNLDoubleLine Shiller Enhanced CAPE Fund	Medco Oak Tree Pie Ltd.	5/14/2026	7.31	Fixed Income	500,000	520,918	0.029%
JNLDoubleLine Shiller Enhanced CAPE Fund	Horizon Aircraft Financing II Limited	11/15/2026	3.43	Fixed Income	5,865,714	5,157,943	0.284%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo & Company	10/30/2025	2.41	Fixed Income	2,791,000	2,811,955	0.155%
JNLDoubleLine Shiller Enhanced CAPE Fund	BBCMS 2019-BWAY Mortgage Trust	11/15/2034	8.06	Fixed Income	2,715,000	36,877	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	Trans Union, LLC	11/13/2026	7.10	Fixed Income	770,777	770,728	0.042%
JNLDoubleLine Shiller Enhanced CAPE Fund	ICI Properties Inc.	12/1/2026	4.25	Fixed Income	1,583,000	1,591,199	0.088%
JNLDoubleLine Shiller Enhanced CAPE Fund	Intercofinco IV Finance Ltd	11/30/2025		Fixed Income	45,248	43,289	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	Grifols Worldwide Operations USA, Inc.	11/15/2027	7.40	Fixed Income	1,469,064	1,444,410	0.079%
JNLDoubleLine Shiller Enhanced CAPE Fund	BancoColumbia SA	12/18/2029	4.63	Fixed Income	1,700,000	1,703,543	0.094%
JNLDoubleLine Shiller Enhanced CAPE Fund	JPMBB Commercial Mortgage Securities Trust 2014-C23	9/17/2047	7.21	Fixed Income	2,274,000	1,993,993	0.109%
JNLDoubleLine Shiller Enhanced CAPE Fund	Morgan Stanley Capital I Trust 2019-NUGS	12/15/2036	8.05	Fixed Income	4,283,000	1,003,993	0.060%
JNLDoubleLine Shiller Enhanced CAPE Fund	HalcyonPoint CLO I, Ltd.	1/20/2033	6.89	Fixed Income	2,500,000	2,536,447	0.140%
JNLDoubleLine Shiller Enhanced CAPE Fund	BPCE	1/14/2025	2.38	Fixed Income	1,780,000	1,779,020	0.098%
JNLDoubleLine Shiller Enhanced CAPE Fund	Amnark Services, Inc.	12/24/2026	7.10	Fixed Income	172,513	172,384	0.009%
JNLDoubleLine Shiller Enhanced CAPE Fund	Oxford Finance LLC	12/15/2034	3.10	Fixed Income	606,912	592,234	0.033%
JNLDoubleLine Shiller Enhanced CAPE Fund	Ziggo Financing Partnership	4/17/2028	7.71	Fixed Income	60,000	58,741	0.003%
JNLDoubleLine Shiller Enhanced CAPE Fund	TNB Global Ventures Capital Berhad	2/19/2026	3.24	Fixed Income	700,000	693,615	0.038%
JNLDoubleLine Shiller Enhanced CAPE Fund	BKMT 2020-FL2, Ltd.	10/18/2038	6.40	Fixed Income	2,396,573	2,349,528	0.129%
JNLDoubleLine Shiller Enhanced CAPE Fund	Reynolds Consumer Products LLC	6/30/2027	7.13	Fixed Income	2,922,425	2,921,336	0.156%
JNLDoubleLine Shiller Enhanced CAPE Fund	Sapphire Aviation Finance II Limited	3/15/2027	3.23	Fixed Income	3,618,722	3,318,110	0.183%
JNLDoubleLine Shiller Enhanced CAPE Fund	Steele Creek CLO 2017-1, Ltd.	10/15/2030	6.81	Fixed Income	441,440	447,551	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Lunar Aircraft 2020-1 Limited	2/15/2027	3.38	Fixed Income	1,526,283	1,460,832	0.080%
JNLDoubleLine Shiller Enhanced CAPE Fund	Willis Engine Structured Trust V	2/15/2028	3.88	Fixed Income	2,281,336	2,093,934	0.115%
JNLDoubleLine Shiller Enhanced CAPE Fund	Freemore-McMoran	3/1/2028	4.13	Fixed Income		494,931	0.027%
JNLDoubleLine Shiller Enhanced CAPE Fund	McDonald's Corporation	9/1/2025	1.45	Fixed Income	4,115,000	1,379,103	0.076%
JNLDoubleLine Shiller Enhanced CAPE Fund	Treasury, United States Department of	3/31/2027	0.63	Fixed Income	26,450,000	24,588,554	1.353%
JNLDoubleLine Shiller Enhanced CAPE Fund	Comision De Promocion Del Para Para La Exportacion Y El Turismo	1/23/2026	2.39	Fixed Income	600,000	584,731	0.031%
JNLDoubleLine Shiller Enhanced CAPE Fund	Expedia Group, Inc.	5/1/2025	6.25	Fixed Income	1,630,000	1,676,984	0.092%
JNLDoubleLine Shiller Enhanced CAPE Fund	Boeing Company, The	5/1/2025	4.88	Fixed Income	827,000	840,512	0.046%
JNLDoubleLine Shiller Enhanced CAPE Fund	EOUATE Petrochemical B.V.	11/3/2026	4.25	Fixed Income	200,000	200,737	0.011%
JNLDoubleLine Shiller Enhanced CAPE Fund	LG Chem, Ltd.	10/15/2024	3.25	Fixed Income	880,000	890,244	0.048%
JNLDoubleLine Shiller Enhanced CAPE Fund	Welltower OP LLC	8/1/2025	4.00	Fixed Income	1,551,000	1,562,656	0.089%
JNLDoubleLine Shiller Enhanced CAPE Fund	Arbor Multifamily Mortgage Securities Trust 2020-MF1	5/15/2053	1.06	Fixed Income	24,027,142	982,114	0.054%
JNLDoubleLine Shiller Enhanced CAPE Fund	Verus Securitization Trust 2020-1	3/25/2060	3.04	Fixed Income	1,779,932	1,765,825	0.097%
JNLDoubleLine Shiller Enhanced CAPE Fund	Equinox, Inc.	5/15/2025	1.25	Fixed Income	1,583,000	1,543,496	0.085%
JNLDoubleLine Shiller Enhanced CAPE Fund	Atlas Senior Loan Fund XVI, Ltd.	7/28/2031	7.19	Fixed Income	2,000,000	2,029,174	0.112%
JNLDoubleLine Shiller Enhanced CAPE Fund	CBAM 2017-1 Ltd.	7/22/2030	7.34	Fixed Income	1,000,000	1,016,062	0.056%
JNLDoubleLine Shiller Enhanced CAPE Fund	Mosaic Solar Loan Trust 2020-1	3/22/2032	2.10	Fixed Income	273,731	248,295	0.014%
JNLDoubleLine Shiller Enhanced CAPE Fund	Mosaic Solar Loan Trust 2020-1	12/22/2032	3.10	Fixed Income	2,680,895	2,654,562	0.148%
JNLDoubleLine Shiller Enhanced CAPE Fund	General Motors Financial Company, Inc.	3/1/2036	5.25	Fixed Income	1,502,000	1,519,014	0.084%
JNLDoubleLine Shiller Enhanced CAPE Fund	Pacific Gas And Electric Company	8/1/2027	2.10	Fixed Income	830,000	780,812	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	Treasury, United States Department of	6/30/2027	0.50	Fixed Income	21,350,000	19,668,978	1.082%
JNLDoubleLine Shiller Enhanced CAPE Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2014-C20	7/17/2047	4.40	Fixed Income	945,027	910,626	0.050%
JNLDoubleLine Shiller Enhanced CAPE Fund	Aves Capital Corporation	11/15/2026	3.88	Fixed Income	1,653,000	1,642,992	0.090%
JNLDoubleLine Shiller Enhanced CAPE Fund	Dominos's Pizza, Inc.	10/25/2025	4.47	Fixed Income	2,597,000	2,603,755	0.143%
JNLDoubleLine Shiller Enhanced CAPE Fund	ORX 2020-EXP2 Trust	7/25/2036	2.50	Fixed Income	341,846	293,753	0.016%
JNLDoubleLine Shiller Enhanced CAPE Fund	RBCSP Resititization Trust 2009-2	4/26/2035	5.05	Fixed Income	483,896	440,109	0.024%
JNLDoubleLine Shiller Enhanced CAPE Fund	RALI Series 2007-C2S8 Trust	10/16/2037	6.00	Fixed Income	1,800,000	1,792,800	0.100%
JNLDoubleLine Shiller Enhanced CAPE Fund	RALI Series 2007-C5S4 Trust	3/25/2037	6.00	Fixed Income	1,200,769	1,005,145	0.055%
JNLDoubleLine Shiller Enhanced CAPE Fund	American Home Mortgage Investment Trust 2004-3	2/25/2044	5.87	Fixed Income	1,982,250	1,935,611	0.106%
JNLDoubleLine Shiller Enhanced CAPE Fund	CSMC 2020-SPT1 Trust	4/25/2065	3.73	Fixed Income	500,000	488,304	0.027%
JNLDoubleLine Shiller Enhanced CAPE Fund	Broadcom, Inc.	11/15/2025	3.15	Fixed Income	847,000	1,945,730	0.108%
JNLDoubleLine Shiller Enhanced CAPE Fund	Entergy Corporation	9/15/2025	0.90	Fixed Income	1,603,000	1,549,794	0.085%
JNLDoubleLine Shiller Enhanced CAPE Fund	CAL Funding IV, Ltd.	3/27/2028	2.22	Fixed Income	1,980,000	1,851,610	0.102%
JNLDoubleLine Shiller Enhanced CAPE Fund	Global SC Finance VI SRL	10/17/2040	2.17	Fixed Income	1,110,001	1,051,112	0.058%
JNLDoubleLine Shiller Enhanced CAPE Fund	Oversea Chinese Financial Corporation Limited	9/15/2030	1.93	Fixed Income	400,000	3,398,438	0.218%
JNLDoubleLine Shiller Enhanced CAPE Fund	Park Avenue Institutional Advisers CLO Ltd 2016-1	8/25/2031	6.56	Fixed Income	2,029,068	2,043,495	0.112%
JNLDoubleLine Shiller Enhanced CAPE Fund	Angel Oak Mortgage Trust 2020-6	5/25/2065	1.78	Fixed Income	563,382	517,786	0.028%
JNLDoubleLine Shiller Enhanced CAPE Fund	B.A.T. International	3/25/2026	1.67	Fixed Income	862,000	828,812	0.046%
JNLDoubleLine Shiller Enhanced CAPE Fund	Mosaic Solar Loan Trust 2020-2	10/20/2033	2.15	Fixed Income	1,093,457	829,591	0.046%
JNLDoubleLine Shiller Enhanced CAPE Fund	Skylines IP, Ltd.	9/16/2027	9.03	Fixed Income	69,757	72,238	0.004%
JNLDoubleLine Shiller Enhanced CAPE Fund	Multibank, Inc.	2/9/2028	7.75	Fixed Income	400,000	420,668	0.023%
JNLDoubleLine Shiller Enhanced CAPE Fund	The Southern Company	10/6/2025	5.15	Fixed Income	715,000	739,204	0.041%
JNLDoubleLine Shiller Enhanced CAPE Fund	CYS Health Corporation	2/20/2026	5.00	Fixed Income	715,000	721,957	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	Philip Morris International Inc.	2/13/2035	4.88	Fixed Income	1,503,000	1,527,285	0.084%
JNLDoubleLine Shiller Enhanced CAPE Fund	Amgen Inc.	3/2/2026	5.51	Fixed Income	709,000	712,087	0.039%
JNLDoubleLine Shiller Enhanced CAPE Fund	AT&T Inc.	2/20/2026	5.54	Fixed Income	780,000	790,702	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	United Overseas Bank Limited	10/14/2031	2.00	Fixed Income	207,000	191,361	0.011%
JNLDoubleLine Shiller Enhanced CAPE Fund	LoanCore 2021-CRFA Issuer Ltd	11/15/2038	6.51	Fixed Income	2,794,804	2,786,692	0.153%
JNLDoubleLine Shiller Enhanced CAPE Fund	Eli Lilly and Company	2/27/2026	5.00	Fixed Income	789,000	793,244	0.044%
JNLDoubleLine Shiller Enhanced CAPE Fund	BDS 2021-FL10 Ltd	12/18/2036	6.48	Fixed Income	3,277,968	3,275,491	0.180%
JNLDoubleLine Shiller Enhanced CAPE Fund	GPMT 2021-FL3 Ltd	7/18/2035	6.38	Fixed Income	2,289,151	2,266,319	0.125%
JNLDoubleLine Shiller Enhanced CAPE Fund	STWD 2021-FL2, Ltd.	4/16/2038	6.41	Fixed Income	2,580,903	2,549,843	0.140%
JNLDoubleLine Shiller Enhanced CAPE Fund	GPMT 2021-FL4 Ltd	12/22/2036	6.38	Fixed Income	2,294,276	2,257,498	0.124%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banco Santander Mexico S.A., Institucion De Banca Multiple, Grupo Financiero Santander Mexico	10/1/2028	7.53	Fixed Income	800,000	872,648	0.048%
JNLDoubleLine Shiller Enhanced CAPE Fund	JSW Energy Limited	5/18/2031	4.13	Fixed Income	494,000	458,641	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Nisource Inc.	3/30/2028	5.25	Fixed Income	769,000	779,601	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	PT, Perusahaan Listrik Negara	9/15/2027	4.13	Fixed Income	300,000	301,896	0.017%
JNLDoubleLine Shiller Enhanced CAPE Fund	Nutrien Ltd.	3/27/2028	4.90	Fixed Income	1,198,000	1,222,198	0.067%
JNLDoubleLine Shiller Enhanced CAPE Fund	Global Bank Corporation	4/16/2029	5.25	Fixed Income	1,000,000	1,004,098	0.055%
JNLDoubleLine Shiller Enhanced CAPE Fund	IX Commercial Mortgage Trust 2020-WNG	10/15/2025	6.14	Fixed Income	3,385,218	3,385,218	0.186%
JNLDoubleLine Shiller Enhanced CAPE Fund	Crown Castle Inc.	9/1/2028	4.80	Fixed Income	721,000	732,457	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	Argentina, Republic of	1/21/2037	6.59	Fixed Income	1,021,143		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine Shiller Enhanced CAPE Fund	Retained Vantage Data Centers Issuer LLC	9/15/2028	5.00	Fixed Income	5,000,000	4,993,786	0.275%
JNLDoubleLine Shiller Enhanced CAPE Fund	Government National Mortgage Association	9/20/2047	5.38	Fixed Income	1,255,463	1,250,441	0.068%
JNLDoubleLine Shiller Enhanced CAPE Fund	Katayma CLO I, Ltd.	10/20/2036	8.04	Fixed Income	9,500,000	9,760,724	0.537%
JNLDoubleLine Shiller Enhanced CAPE Fund	Katayma CLO I, Ltd.	10/20/2036	7.39	Fixed Income	10,000,000	10,230,347	0.563%
JNLDoubleLine Shiller Enhanced CAPE Fund	Marlette Funding Trust 2022-2	3/1/2025	5.50	Fixed Income	1,921,827	1,927,042	0.106%
JNLDoubleLine Shiller Enhanced CAPE Fund	Energy Transfer LP	12/1/2026	6.05	Fixed Income	1,492,000	1,574,875	0.087%
JNLDoubleLine Shiller Enhanced CAPE Fund	Berry Global, Inc	7/1/2025	7.32	Fixed Income	1,202,890	1,229,122	0.068%
JNLDoubleLine Shiller Enhanced CAPE Fund	Lamar Media Corporation	2/6/2027	6.85	Fixed Income	2,310,000	2,303,232	0.127%
JNLDoubleLine Shiller Enhanced CAPE Fund	Charter Communications Operating, LLC	11/10/2026	6.15	Fixed Income	393,000	413,557	0.023%
JNLDoubleLine Shiller Enhanced CAPE Fund	Exeter Automobile Receivables Trust 2023-5	4/15/2026	6.20	Fixed Income	586,030	600,859	0.047%
JNLDoubleLine Shiller Enhanced CAPE Fund	U.S. Auto Receivables Issuer Trust 2023-4	3/1/2025	6.40	Fixed Income	2,795,144	2,811,744	0.155%
JNLDoubleLine Shiller Enhanced CAPE Fund	Westlake Automobile Receivables Trust 2023-4	4/15/2025	6.23	Fixed Income	3,308,481	3,335,117	0.183%
JNLDoubleLine Shiller Enhanced CAPE Fund	Westpac Banking Corporation	11/1/2025	5.95	Fixed Income	1,215,000	1,228,805	0.068%
JNLDoubleLine Shiller Enhanced CAPE Fund	Venus Securitization Trust 2023-5	6/25/2068	6.48	Fixed Income	943,137	960,193	0.053%
JNLDoubleLine Shiller Enhanced CAPE Fund	O'Reilly Automotive, Inc	11/20/2026	5.75	Fixed Income	708,000	744,573	0.041%
JNLDoubleLine Shiller Enhanced CAPE Fund	Affirm Asset Securitization Trust 2022-X1	11/15/2028	7.11	Fixed Income	2,081,184	2,095,873	0.115%
JNLDoubleLine Shiller Enhanced CAPE Fund	Hilton Domestic Operating Company, Inc.	11/9/2030	6.60	Fixed Income	1,030,000	1,030,547	0.057%
JNLDoubleLine Shiller Enhanced CAPE Fund	Element Fleet Management Corp.	1/24/2028	6.32	Fixed Income	1,455,000	1,577,366	0.087%
JNLDoubleLine Shiller Enhanced CAPE Fund	Intergroup Financial Services Corp.	10/19/2027	4.13	Fixed Income	600,000	591,662	0.033%
JNLDoubleLine Shiller Enhanced CAPE Fund	American Electric Power Company, Inc.	1/15/2029	5.20	Fixed Income	413,000	430,953	0.024%
JNLDoubleLine Shiller Enhanced CAPE Fund	Flutter Financing B.V.	11/18/2030	7.33	Fixed Income	2,950,200	2,949,679	0.162%
JNLDoubleLine Shiller Enhanced CAPE Fund	Digicel Group Holdings Limited	12/31/2030		Fixed Income	453	447	0.000%
JNLDoubleLine Shiller Enhanced CAPE Fund	Digicel Group Holdings Limited	12/31/2030	5.25	Fixed Income	55,145	57,765	0.003%
JNLDoubleLine Shiller Enhanced CAPE Fund	Digicel Group Holdings Limited	12/31/2030		Fixed Income	89,309	11,427	0.001%
JNLDoubleLine Shiller Enhanced CAPE Fund	Iron Mountain, Inc.	1/31/2031	7.25	Fixed Income	3,210,056	3,186,591	0.175%
JNLDoubleLine Shiller Enhanced CAPE Fund	Marlette Funding Trust 2022-3	11/15/2032	5.95	Fixed Income	2,774,295	2,786,185	0.153%
JNLDoubleLine Shiller Enhanced CAPE Fund	Element Solutions Inc	1/29/2030	7.25	Fixed Income	1,508,600	1,509,004	0.083%
JNLDoubleLine Shiller Enhanced CAPE Fund	PT Adaro Indonesia	10/31/2024	4.25	Fixed Income	1,200,000	1,218,488	0.067%
JNLDoubleLine Shiller Enhanced CAPE Fund	Floria Overseas Finance Ltd.	1/14/2025	4.00	Fixed Income	400,000	402,642	0.022%
JNLDoubleLine Shiller Enhanced CAPE Fund	BSPT 2021-FL15 Issuer, Ltd.	3/1/2036	6.31	Fixed Income	572,731	571,548	0.031%
JNLDoubleLine Shiller Enhanced CAPE Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2015-C23	6/17/2025	4.00	Fixed Income	3,725,000	3,695,877	0.203%
JNLDoubleLine Shiller Enhanced CAPE Fund	Venus Securitization Trust 2024-1	1/25/2029	5.71	Fixed Income	14,185,300	14,355,321	0.790%
JNLDoubleLine Shiller Enhanced CAPE Fund	Pagaya AI Debt Trust 2023-5	4/15/2031	7.18	Fixed Income	756,929	760,627	0.042%
JNLDoubleLine Shiller Enhanced CAPE Fund	Banco BTG Pactual S/A	1/10/2025	4.50	Fixed Income	450,000	452,762	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	STWD 2022-FL3, Ltd.	11/18/2038	7.14	Fixed Income	1,470,000	1,431,298	0.079%
JNLDoubleLine Shiller Enhanced CAPE Fund	Go Daddy Operating Company, LLC	11/12/2029	7.28	Fixed Income	3,293,420	3,293,281	0.185%
JNLDoubleLine Shiller Enhanced CAPE Fund	Kinder Morgan Kansas, Inc.	2/1/2029	5.00	Fixed Income	754,000	776,472	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	MFJ 2024-FL14 LLC	3/19/2039	6.70	Fixed Income	3,500,000	3,508,909	0.193%
JNLDoubleLine Shiller Enhanced CAPE Fund	Prumo Participacoes E Investimentos SA	12/31/2031	7.50	Fixed Income	446,745	457,055	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Affirm Asset Securitization Trust 2024-A	9/15/2027	6.51	Fixed Income	5,500,000	5,575,846	0.307%
JNLDoubleLine Shiller Enhanced CAPE Fund	Vibrant CLO XR, Ltd.	4/21/2036	7.01	Fixed Income	3,000,000	3,058,603	0.168%
JNLDoubleLine Shiller Enhanced CAPE Fund	Citicorp Commercial Mortgage Trust 2016-P3	2/18/2026	3.33	Fixed Income	3,745,000	3,673,075	0.202%
JNLDoubleLine Shiller Enhanced CAPE Fund	American Express Company	2/16/2028	6.23	Fixed Income	1,625,000	1,641,729	0.090%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo & Company	4/17/2025	5.34	Fixed Income	3,923,000	3,891,838	0.214%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bristol-Myers Squibb Company	2/20/2026	5.72	Fixed Income	895,000	903,735	0.050%
JNLDoubleLine Shiller Enhanced CAPE Fund	Calpine Corporation	3/22/2026	7.25	Fixed Income	2,810,376	2,800,656	0.154%
JNLDoubleLine Shiller Enhanced CAPE Fund	Georgia Power Company	2/23/2027	5.00	Fixed Income	708,000	726,965	0.040%
JNLDoubleLine Shiller Enhanced CAPE Fund	Comcast Datacenters Issuer II, LLC	2/28/2029	5.25	Fixed Income	5,500,000	5,594,977	0.308%
JNLDoubleLine Shiller Enhanced CAPE Fund	Exelon Corporation	3/15/2029	5.15	Fixed Income	760,000	789,415	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	Solventum Corporation	2/25/2027	5.45	Fixed Income	1,524,000	1,563,035	0.086%
JNLDoubleLine Shiller Enhanced CAPE Fund	Great Wolf Trust 2024-WOLF	3/16/2026	6.70	Fixed Income	4,000,000	4,004,420	0.220%
JNLDoubleLine Shiller Enhanced CAPE Fund	Patrimonio en Fideicomiso 093-2022 - EF Inretail Shopping Malls	4/9/2028	5.75	Fixed Income	350,000	351,269	0.019%
JNLDoubleLine Shiller Enhanced CAPE Fund	Microchip Technology Incorporated	3/15/2029	5.05	Fixed Income	303,000	312,298	0.017%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	9/25/2049	5.87	Fixed Income	1,338,666	1,320,497	0.073%
JNLDoubleLine Shiller Enhanced CAPE Fund	H.B. Fuller Company	2/15/2030	7.25	Fixed Income	1,427,825	1,429,012	0.079%
JNLDoubleLine Shiller Enhanced CAPE Fund	Government National Mortgage Association	6/20/2048	6.00	Fixed Income	1,331,704	1,373,527	0.075%
JNLDoubleLine Shiller Enhanced CAPE Fund	Motorola Solutions, Inc.	4/15/2029	5.00	Fixed Income	1,504,000	1,581,171	0.087%
JNLDoubleLine Shiller Enhanced CAPE Fund	Vests Corporation	2/18/2031	7.37	Fixed Income	465,500	465,821	0.026%
JNLDoubleLine Shiller Enhanced CAPE Fund	Goldman Sachs Bank USA	3/18/2027	5.79	Fixed Income	1,061,000	1,063,273	0.058%
JNLDoubleLine Shiller Enhanced CAPE Fund	Ginnie Mae REMIC Trust 2024-025	2/20/2049	5.86	Fixed Income	1,314,618	1,297,960	0.071%
JNLDoubleLine Shiller Enhanced CAPE Fund	Southern Copper Corporation	4/23/2025	4.80	Fixed Income	454,200	454,200	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	AGCO Corporation	3/21/2027	5.45	Fixed Income	315,000	321,774	0.018%
JNLDoubleLine Shiller Enhanced CAPE Fund	Penske Truck Leasing Co., L.P.	7/15/2025	4.00	Fixed Income	1,379,000	1,385,503	0.076%
JNLDoubleLine Shiller Enhanced CAPE Fund	BAE Systems PLC	3/26/2027	5.00	Fixed Income	1,865,000	1,884,814	0.104%
JNLDoubleLine Shiller Enhanced CAPE Fund	Campbell Soup Company	4/19/2027	5.00	Fixed Income	607,000	602,846	0.034%
JNLDoubleLine Shiller Enhanced CAPE Fund	PT Bank Negara Indonesia (Persero), Tbk.	3/30/2026	3.75	Fixed Income	700,000	682,074	0.038%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	11/15/2046	5.96	Fixed Income	1,785,697	1,768,145	0.097%
JNLDoubleLine Shiller Enhanced CAPE Fund	Glencore Funding LLC	4/4/2027	6.36	Fixed Income	1,307,000	1,332,170	0.073%
JNLDoubleLine Shiller Enhanced CAPE Fund	Algonquin Power & Utilities Corp.	6/1/2026	5.37	Fixed Income	241,000	241,000	0.014%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	4/25/2037	5.63	Fixed Income	1,063,057	1,063,343	0.058%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	12/25/2048	5.69	Fixed Income	975,354	961,658	0.053%
JNLDoubleLine Shiller Enhanced CAPE Fund	Avallia Coating Systems U.S. Holdings, Inc.	12/20/2029	7.33	Fixed Income	768,530	770,597	0.042%
JNLDoubleLine Shiller Enhanced CAPE Fund	HTL Commercial Mortgage Trust 2024-T53	5/12/2027	5.87	Fixed Income	1,210,000	1,210,000	0.066%
JNLDoubleLine Shiller Enhanced CAPE Fund	Marriott Ownership Resorts, Inc.	3/1/2031	7.50	Fixed Income	822,938	820,541	0.045%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	1/25/2050	5.94	Fixed Income	1,966,999	1,932,058	0.106%
JNLDoubleLine Shiller Enhanced CAPE Fund	MFJ 2021-FL5 Ltd.	7/17/2036	6.56	Fixed Income	3,538,500	3,519,922	0.194%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	9/1/2053	6.00	Fixed Income	2,283,526	2,283,268	0.126%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	5/25/2037	5.72	Fixed Income	1,398,477	1,382,697	0.076%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	3/25/2044	5.84	Fixed Income	1,237,200	1,221,720	0.067%
JNLDoubleLine Shiller Enhanced CAPE Fund	Public Storage Operating Company	4/16/2027	6.00	Fixed Income	1,139,000	1,158,466	0.063%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	4/1/2054	6.00	Fixed Income	2,268,198	2,251,295	0.124%
JNLDoubleLine Shiller Enhanced CAPE Fund	Aramark Services, Inc.	4/6/2023	7.25	Fixed Income	1,020,768	1,021,003	0.056%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	5/25/2050	5.74	Fixed Income	2,237,517	2,179,211	0.120%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	1/1/2053	6.00	Fixed Income	2,179,966	2,259,923	0.124%
JNLDoubleLine Shiller Enhanced CAPE Fund	Avantor Fundings, Inc.	11/8/2027	7.35	Fixed Income	1,341,387	1,347,992	0.074%
JNLDoubleLine Shiller Enhanced CAPE Fund	Venus Securitization Trust 2024-3	4/25/2065	6.34	Fixed Income	5,531,619	5,531,619	0.300%
JNLDoubleLine Shiller Enhanced CAPE Fund	Calpine Corporation	1/31/2031	7.25	Fixed Income	159,200	158,586	0.009%
JNLDoubleLine Shiller Enhanced CAPE Fund	AerCap Ireland Capital Designated Activity Company	4/15/2027	6.45	Fixed Income	1,463,000	1,575,943	0.087%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wells Fargo & Company	4/22/2028	6.36	Fixed Income	2,438,000	2,480,788	0.136%
JNLDoubleLine Shiller Enhanced CAPE Fund	JPMorgan Chase & Co.	12/2/2028	6.20	Fixed Income	1,470,000	1,490,150	0.082%
JNLDoubleLine Shiller Enhanced CAPE Fund	Alterra Mountain Company	8/1/2028	8.50	Fixed Income	460,734	461,225	0.025%
JNLDoubleLine Shiller Enhanced CAPE Fund	Bridgecrest Lending Auto Securitization Trust 2024-2	4/15/2025	5.78	Fixed Income	2,785,680	2,801,810	0.154%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	6/25/2050	5.84	Fixed Income	2,790,873	2,786,631	0.151%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	6/25/2048	5.74	Fixed Income	1,884,561	1,887,740	0.104%
JNLDoubleLine Shiller Enhanced CAPE Fund	NRG Energy, Inc.	2/27/2031	7.26	Fixed Income	2,502,425	2,536,628	0.140%
JNLDoubleLine Shiller Enhanced CAPE Fund	Affirm Asset Securitization Trust 2024-X1	7/15/2025	6.27	Fixed Income	1,843,448	1,856,345	0.102%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	9/15/2043	5.96	Fixed Income	2,223,552	2,206,423	0.121%
JNLDoubleLine Shiller Enhanced CAPE Fund	Icon Investments Six Designated Activity Company	5/8/2027	5.81	Fixed Income	815,000	819,073	0.047%
JNLDoubleLine Shiller Enhanced CAPE Fund	Foundry JV Holdco LLC	1/25/2030	5.90	Fixed Income	828,000	877,054	0.048%
JNLDoubleLine Shiller Enhanced CAPE Fund	Athene Global Funding	5/8/2026	6.10	Fixed Income	2,080,000	2,094,916	0.115%
JNLDoubleLine Shiller Enhanced CAPE Fund	Six Flags Entertainment Corporation	4/18/2031	7.20	Fixed Income	783,038	781,033	0.043%
JNLDoubleLine Shiller Enhanced CAPE Fund	SSAC Technologies Inc.	5/9/2031	7.25	Fixed Income	1,645,731	1,645,731	0.091%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal National Mortgage Association, Inc.	1/1/2043	5.00	Fixed Income	900,041	916,031	0.050%
JNLDoubleLine Shiller Enhanced CAPE Fund	Federal Home Loan Mortgage Corporation	5/25/2044	6.48	Fixed Income	5,443,293	5,443,637	0.299%
JNLDoubleLine Shiller Enhanced CAPE Fund	API Group DE, Inc.	1/3/2029	7.25	Fixed Income	1,780,000	1,778,418	0.098%
JNLDoubleLine Shiller Enhanced CAPE Fund	Schumbecker Holdings Corporation	11/15/2029	5.00	Fixed Income	616,000	616,932	0.034%
JNLDoubleLine Shiller Enhanced CAPE Fund	CPI Holdco B LLC	5/10/2033	7.25	Fixed Income	145,000	144,278	0.008%
JNLDoubleLine Shiller Enhanced CAPE Fund	Coloix Data Centers US Issuer LLC	12/28/2026	3.30	Fixed Income	3,000,000	2,846,744	0.157%
JNLDoubleLine Shiller Enhanced CAPE Fund	BX Trust 2024-VL14	6/15/2026	6.59	Fixed Income	2,406,000	2,413,048	0.133%
JNLDoubleLine Shiller Enhanced CAPE Fund	Aramark Services, Inc.	6/24/2030	7.25	Fixed Income	1,091,187	1,093,043	0.060%
JNLDoubleLine Shiller Enhanced CAPE Fund	Enbridge Holdings, Inc.	12/22/2027	6.32	Fixed Income	1,692,459	1,694,376	0.093%
JNLDoubleLine Shiller Enhanced CAPE Fund	Connect Fincso Ltd.	12/11/2026	8.75	Fixed Income	35,443	35,217	0.002%
JNLDoubleLine Shiller Enhanced CAPE Fund	Carval CLO X-C Ltd.	7/20/2037	6.75	Fixed Income	2,000,000	2,034,797	0.112%
JNLDoubleLine Shiller Enhanced CAPE Fund	National Securities Clearing Corporation	6/26/2029	4.90	Fixed Income	1,139,000	1,189,482	0.065%
JNLDoubleLine Shiller Enhanced CAPE Fund	NiSource Inc.	7/1/2029	5.20	Fixed Income	540,000	576,152	0.032%
JNLDoubleLine Shiller Enhanced CAPE Fund	Wyndham Hotels & Resorts, Inc.	5/28/2030	7.00	Fixed Income	2,957,588	2,954,465	0.163%
JNLDoubleLine Shiller Enhanced CAPE Fund	Enel Finance International N.V.	6/26/2029	5.13	Fixed Income	765,000	793,382	0.044%
JNLDoubleLine Shiller Enhanced CAPE Fund	Resideo Funding Inc.	5/21/2031	7.30	Fixed Income	510,000	518,068	0.028%
JNLDoubleLine Shiller Enhanced CAPE Fund	BSPT 2023-FL10 Issuer LLC	9/17/2035	7.96	Fixed Income	3,740,000	3,741,053	0.206%
JNLDoubleLine Shiller Enhanced CAPE Fund	Edison International	6/15/2029	5.45	Fixed Income	1,522,000	1,600,857	0.088%
JNLDoubleLine Shiller Enhanced CAPE Fund	OBX 2024-NOM10 Trust	5/25/2064	6.18	Fixed Income	4,782,917	4,895,518	0.269%
JNLDoubleLine Shiller Enhanced CAPE Fund	Trans Union, LLC.	6/6/2031	7.00	Fixed Income	2,827,913	2,822,043	0.155%
JNLDoubleLine Shiller Enhanced CAPE Fund	BFLO 2024-VK2 Mortgage Trust	7/15/2026	6.99	Fixed Income	1,760,000	1,765,434	0.097%
JNLDoubleLine Shiller Enhanced CAPE Fund	MFJ 2024-FL15 LLC	8/18/2041	6.65	Fixed Income	3,500,000	3,509,056	0.193%
JNLDoubleLine Shiller Enhanced CAPE Fund	Theorem Funding Trust 2022-3	4/15/2029	7.60</				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Shiller Enhanced CAPE Fund	Genuine Parts Company	8/15/2029	4.95	Fixed Income	1,320,000	1,353,673	0.074%
JNLDoubleLine® Shiller Enhanced CAPE Fund	GE Healthcare Technologies Inc.	8/14/2029	4.80	Fixed Income	1,571,000	1,609,335	0.089%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Essential Utilities, Inc.	8/15/2027	4.80	Fixed Income	554,000	564,125	0.031%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Williams Companies, Inc., The	11/15/2029	4.80	Fixed Income	1,434,000	1,463,083	0.080%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Marriott International, Inc.	3/15/2030	4.80	Fixed Income	1,434,000	1,464,682	0.081%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Wellfleet CLO 2022-1 Ltd	7/15/2037	6.66	Fixed Income	4,000,000	4,041,807	0.222%
JNLDoubleLine® Shiller Enhanced CAPE Fund	NavWest Group PLC	8/15/2030	4.96	Fixed Income	1,569,000	1,600,512	0.088%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Equifax Inc.	9/15/2029	4.80	Fixed Income	1,432,000	1,457,195	0.080%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Arrow Electronics, Inc.	8/21/2029	5.15	Fixed Income	1,560,000	1,594,955	0.088%
JNLDoubleLine® Shiller Enhanced CAPE Fund	6297752 LLC	9/1/2027	4.91	Fixed Income	289,000	292,083	0.016%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Battalion CLO XXIII Ltd	10/15/2037	6.56	Fixed Income	5,000,000	5,025,998	0.278%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Kroger Co., The	8/15/2027	4.60	Fixed Income	1,547,000	1,566,469	0.086%
JNLDoubleLine® Shiller Enhanced CAPE Fund	HGI CRE CLO 2021-FL1, Ltd.	6/19/2036	6.13	Fixed Income	140,612	140,235	0.008%
JNLDoubleLine® Shiller Enhanced CAPE Fund	OCTAGON INVESTMENT PARTNERS 20-R LTD	8/12/2037	6.46	Fixed Income	10,000,000	10,058,733	0.553%
JNLDoubleLine® Shiller Enhanced CAPE Fund	DBCG 2017-RBG Mortgage Trust	6/15/2034	8.50	Fixed Income	2,377,813	2,391,610	0.132%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Barclays PLC	9/10/2028	4.84	Fixed Income	1,086,000	1,098,756	0.056%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Verallto Corporation	9/18/2026	5.50	Fixed Income	709,000	726,294	0.040%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Ford Motor Credit Company LLC	9/6/2029	5.30	Fixed Income	1,551,000	1,550,627	0.085%
JNLDoubleLine® Shiller Enhanced CAPE Fund	FirstEnergy Transmission, LLC	11/15/2030	4.55	Fixed Income	465,000	470,265	0.026%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Bank of Montreal	9/10/2030	4.64	Fixed Income	1,550,000	1,570,672	0.086%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Pacific Gas And Electric Company	9/4/2025	6.09	Fixed Income	775,000	779,087	0.043%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Credit Agricole SA	9/11/2028	4.63	Fixed Income	1,065,000	1,073,174	0.059%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Cadence Design Systems, Inc.	9/10/2029	4.30	Fixed Income	914,000	919,407	0.051%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Illumina, Inc.	9/9/2026	4.65	Fixed Income	895,000	903,391	0.050%
JNLDoubleLine® Shiller Enhanced CAPE Fund	BDS 2024-FL13 LLC	6/19/2029	6.93	Fixed Income	3,600,000	3,601,215	0.198%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Carvana Auto Receivables Trust 2024-P3	5/10/2029	4.31	Fixed Income	4,100,000	4,096,360	0.225%
JNLDoubleLine® Shiller Enhanced CAPE Fund	ONEOK, Inc.	10/15/2029	4.40	Fixed Income	1,391,000	1,396,017	0.077%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Delta 2 Lux Sarl	12/31/2049		Fixed Income	195,000	194,918	0.011%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Delta 2 Lux Sarl	12/31/2049		Fixed Income	390,000	389,836	0.021%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Hewlett Packard Enterprise Company	10/15/2029	4.55	Fixed Income	1,556,000	1,552,084	0.085%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Citigroup Inc.	9/19/2030	4.54	Fixed Income	2,835,000	2,827,092	0.156%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Chase Auto Owner Trust 2024-5	3/25/2030	4.15	Fixed Income	3,200,000	3,192,549	0.176%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Labcorp Holdings Inc.	4/1/2030	4.35	Fixed Income	1,548,000	1,536,216	0.085%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Connecticut Avenue Securities Trust 2024-R06	9/25/2028	6.33	Fixed Income	2,000,000	2,002,774	0.110%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Comision Federal De Electricidad, E.P.E.	12/24/2030	5.70	Fixed Income	500,000	501,285	0.028%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Sonoco Products Company	9/1/2026	4.45	Fixed Income	703,000	704,275	0.039%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Froneri Lux Finco Sa RI	9/16/2031		Fixed Income	3,180,000	3,166,294	0.174%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Burlington Coat Factory Warehouse Corporation	12/31/2049		Fixed Income	2,310,000	2,289,788	0.126%
JNLDoubleLine® Shiller Enhanced CAPE Fund	WMG Acquisition Corp.	12/24/2031	6.83	Fixed Income	3,850,000	3,845,110	0.212%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Affirm Asset Securitization Trust 2024-B	4/15/2027	4.88	Fixed Income	3,000,000	3,009,949	0.166%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Hyundai Capital America	9/26/2029	4.55	Fixed Income	1,551,000	1,548,935	0.085%
JNLDoubleLine® Shiller Enhanced CAPE Fund	CEDR Commercial Mortgage Trust 2022-SNAI	2/15/2039	6.08	Fixed Income	1,820,000	1,767,888	0.097%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Morgan Stanley Capital I Trust 2024-NSTB	9/25/2057	3.90	Fixed Income	1,817,000	1,759,602	0.097%
JNLDoubleLine® Shiller Enhanced CAPE Fund	American Equity Investment Life Holding Company	10/1/2029	5.75	Fixed Income	615,000	618,262	0.034%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Broadcom Inc.	2/15/2030	4.35	Fixed Income	673,000	671,781	0.037%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Darden Restaurants, Inc.	10/15/2027	4.35	Fixed Income	701,000	701,000	0.039%
Total Non Derivatives						1,732,172,670	
Derivatives							
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	38,225	835,983	0.046%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	62,492	1,478,289	0.081%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	78,223	4,381,222	0.241%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	71,112	3,197,208	0.176%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	93,199	3,650,493	0.201%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	100,078	687,108	0.038%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	37,653	2,212,090	0.122%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	87,006	4,330,196	0.238%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	87,651	3,006,124	0.165%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	69,292	4,330,071	0.238%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	93,109	6,568,147	0.361%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	86,274	5,621,974	0.309%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	100,164	5,680,763	0.313%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	76,640	5,815,760	0.320%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	101,248	3,686,531	0.203%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	76,144	4,235,244	0.233%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	29,502	1,935,399	0.106%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	72,195	1,345,185	0.074%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	91,194	667,682	0.037%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	77,233	1,458,407	0.080%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	87,732	5,004,080	0.275%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	103,135	9,639,122	0.530%
JNLDoubleLine® Shiller Enhanced CAPE Fund	Schiller Barclays CAPE US Sector II Index TOTAL RETURN SWAP - INDEX			Derivative	67,880	5,871,640	0.323%
Total Derivatives						85,639,228	
Total All Investments						1,817,811,898	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLDoubleLine® Total Return Fund	Cash			Cash Equivalent	8,807,679	8,807,679	0.430%
JNLDoubleLine® Total Return Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	18,262,088	18,262,164	0.892%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	3/25/2042	0.66	Fixed Income	5,710,412	5,515,819	0.259%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	6/15/2049	3.50	Fixed Income	4,917,252	4,565,582	0.223%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.50	Fixed Income	21,189,573	18,615,899	0.890%
JNLDoubleLine® Total Return Fund	Grace Trust	12/12/2030	2.77	Fixed Income	1,845,003	1,516,531	0.074%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	11/15/2050	1.63	Fixed Income	7,750,000	4,603,116	0.225%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	11/15/2040	1.38	Fixed Income	47,348,000	32,361,166	1.580%
JNLDoubleLine® Total Return Fund	Sunrise Sol II Issuer, LLC	10/30/2030	2.73	Fixed Income	6,723,355	5,666,119	0.277%
JNLDoubleLine® Total Return Fund	Wells Fargo & Company	9/1/2026	4.57	Fixed Income	2,000,000	1,692,875	0.083%
JNLDoubleLine® Total Return Fund	Carrington Mortgage Loan Trust, Series 2007-RFC1	9/25/2036	5.11	Fixed Income	2,316,194	2,256,361	0.110%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	14,318,819	11,931,664	0.583%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	12/20/2050	1.22	Fixed Income	36,800,115	5,827,694	0.285%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2017-4507	7/12/2027	4.24	Fixed Income	4,800,000	4,212,924	0.206%
JNLDoubleLine® Total Return Fund	VOL T XCII, LLC	2/27/2051	4.89	Fixed Income	1,927,522	1,918,110	0.094%
JNLDoubleLine® Total Return Fund	J.P. Morgan Mortgage Acquisition Trust 2006-HE3	11/25/2036	5.45	Fixed Income	3,967,619	3,650,254	0.178%
JNLDoubleLine® Total Return Fund	J.P. Morgan Mortgage Acquisition Trust 2006-HE3	7/25/2036	5.29	Fixed Income	1,534,146	1,404,038	0.069%
JNLDoubleLine® Total Return Fund	J.P. Morgan Mortgage Acquisition Trust 2006-HE3	1/25/2034	5.19	Fixed Income	4,104,527	3,755,481	0.182%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	9/25/2031	1.56	Fixed Income	36,937,049	2,460,520	0.120%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Corp.	3/25/2046	6.72	Fixed Income	3,720,323	1,428,369	0.070%
JNLDoubleLine® Total Return Fund	Morgan Stanley Mortgage Loan Trust 2006-16AX	7/25/2036	1.87	Fixed Income	17,389,218	6,064,947	0.296%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2006-OC3	11/25/2036	5.29	Fixed Income	2,807,147	2,687,812	0.131%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	3/1/2051	2.50	Fixed Income	12,650,016	11,022,630	0.538%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2050	2.50	Fixed Income	29,045,593	25,390,656	1.240%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	10,629,532	8,917,726	0.435%
JNLDoubleLine® Total Return Fund	VOL T XCV, LLC	2/17/2051	2.24	Fixed Income	980,962	989,294	0.048%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	5/16/2063	0.97	Fixed Income	17,866,255	1,272,167	0.062%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	2/15/2041	1.88	Fixed Income	57,170,000	42,049,661	2.053%
JNLDoubleLine® Total Return Fund	BBCMS Mortgage Trust 2021-C9	2/18/2054	1.72	Fixed Income	35,117,632	2,599,710	0.127%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2016-GS9	3/10/2028	4.49	Fixed Income	2,080,000	1,797,578	0.086%
JNLDoubleLine® Total Return Fund	Databank Issues, LLC	2/25/2029	2.08	Fixed Income	2,000,000	1,909,115	0.093%
JNLDoubleLine® Total Return Fund	Citigroup Mortgage Loan Trust 2021-JL1	2/25/2062	2.75	Fixed Income	867,560	823,926	0.040%
JNLDoubleLine® Total Return Fund	Merrill Lynch Mortgage Capital Inc.	3/25/2037	1.47	Fixed Income	28,515,067	9,720,502	0.475%
JNLDoubleLine® Total Return Fund	Merrill Lynch Mortgage Investors Trust, Series 2006-HE3	6/25/2037	1.18	Fixed Income	16,415,024	4,317,496	0.211%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	7/1/2034	2.00	Fixed Income	8,740,016	1,923,075	0.094%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	12/1/2050	2.50	Fixed Income	6,652,933	5,822,002	0.284%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	8/16/2062	1.15	Fixed Income	57,762,548	4,702,335	0.230%
JNLDoubleLine® Total Return Fund	VOL T XCVI, LLC	3/27/2051	2.12	Fixed Income	2,083,425	2,062,271	0.101%
JNLDoubleLine® Total Return Fund	J.P. Morgan Mortgage Acquisition Trust 2006-HE3	12/25/2037	1.93	Fixed Income	19,952,455	10,298,923	0.504%
JNLDoubleLine® Total Return Fund	Merrill Lynch Alternative Note Asset Trust, Series 2007-AF1	10/25/2047	3.76	Fixed Income	9,849,515	2,876,679	0.140%
JNLDoubleLine® Total Return Fund	VOL T XCVII, LLC	4/25/2051	5.24	Fixed Income	823,331	822,070	0.040%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	2/16/2063	0.82	Fixed Income	53,607,900	3,242,171	0.158%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	4/17/2039	0.72	Fixed Income	65,662,777	3,561,089	0.174%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	3/31/2026	0.75	Fixed Income	28,500,000	27,258,164	1.311%
JNLDoubleLine® Total Return Fund	PMI Issuer Trust - FMSR	3/25/2026	7.97	Fixed Income	2,000,000	2,013,995	0.098%
JNLDoubleLine® Total Return Fund	TRTX 2021-FL4 Issuer, Ltd.	3/17/2038	6.40	Fixed Income	1,522,729	1,513,242	0.074%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	4/20/2051	2.50	Fixed Income	25,175,263	3,847,359	0.175%
JNLDoubleLine® Total Return Fund	Structured Asset Investment Loan Trust 2006-BNC3	9/25/2036	5.15	Fixed Income	4,754,946	2,757,490	0.135%
JNLDoubleLine® Total Return Fund	Progress Residential 2021-SFR3 Trust	5/19/2026	2.69	Fixed Income	8,500,000	8,042,655	0.393%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2050	2.50	Fixed Income	12,174,239	10,543,384	0.515%
JNLDoubleLine® Total Return Fund	COLP Trust 2021-NYC	1/2/2031	3.70	Fixed Income	560,000	457,099	0.023%
JNLDoubleLine® Total Return Fund	Shackleton 2015-VII CLO LTD	7/15/2031	6.71	Fixed Income	1,674,521	1,697,749	0.083%
JNLDoubleLine® Total Return Fund	Galaxy XXI CLO Ltd	4/17/2034	6.75	Fixed Income	4,500,000	4,564,947	0.223%
JNLDoubleLine® Total Return Fund	Carlyle Global Market Strategies Euro CLO 2016-1 Designated Activity Company	4/20/2034	6.68	Fixed Income	2,000,000	2,028,244	0.099%
JNLDoubleLine® Total Return Fund	Washington Mutual Asset-Backed Certificates WMABS Series 2006-HE5 Trust	10/25/2036	5.15	Fixed Income	51,716	17,644	0.001%
JNLDoubleLine® Total Return Fund	Viso 2021-JR Trust	5/25/2025	2.03	Fixed Income	6,161,007	5,340,455	0.251%
JNLDoubleLine® Total Return Fund	CSMC 2021-JR1 Trust	9/27/2066	2.46	Fixed Income	284,165	284,619	0.014%
JNLDoubleLine® Total Return Fund	FS Rialto 2021-FL2 Issuer, Ltd.	5/18/2038	6.43	Fixed Income	5,525,664	2,521,922	0.123%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	4/20/2051	2.50	Fixed Income	51,724,590	1,884,589	0.093%
JNLDoubleLine® Total Return Fund	Gulf Stream Meridian 4 Ltd	7/1/2034	6.76	Fixed Income	2,500,000	2,537,055	0.125%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2051	3.00	Fixed Income	16,413,929	14,893,270	0.727%
JNLDoubleLine® Total Return Fund	MASTR Adjustable Rate Mortgages Trust 2007-R5	11/25/2035	6.03	Fixed Income	8,716,389	4,474,991	0.218%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	4/20/2051	2.50	Fixed Income	16,890,356	2,556,125	0.131%
JNLDoubleLine® Total Return Fund	HSI Asset Securitization Corporation Trust 2007-NC1	4/25/2037	5.53	Fixed Income	8,800,591	6,018,148	0.294%
JNLDoubleLine® Total Return Fund	HSI Asset Securitization Corporation Trust 2007-NC1	4/25/2037	5.25	Fixed Income	1,869,993	1,261,684	0.062%
JNLDoubleLine® Total Return Fund	Sound Point CLO XXIII	7/17/2034	6.73	Fixed Income	2,000,000	2,030,336	0.099%
JNLDoubleLine® Total Return Fund	MP CLO VII Ltd	4/28/2034	6.73	Fixed Income	1,500,000	1,518,969	0.074%
JNLDoubleLine® Total Return Fund	LT CRE 2021-FL1 LLC	1/27/2039	6.36	Fixed Income	2,600,000	2,658,580	0.128%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	8/16/2063	0.88	Fixed Income	40,668,968	2,689,074	0.131%
JNLDoubleLine® Total Return Fund	SoFi Consumer Loan Program 2021-1 Trust	5/25/2030	9.72	Fixed Income	712,823	709,437	0.035%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2007-5CB	4/25/2037	5.57	Fixed Income	3,081,445	1,223,066	0.060%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2007-5CB	4/25/2037	6.43	Fixed Income	2,081,445	2,081,445	0.101%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	11/2051	3.50	Fixed Income	15,985,609	15,067,190	0.736%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	1/20/2051	2.50	Fixed Income	46,255,135	6,872,756	0.336%
JNLDoubleLine® Total Return Fund	Progress Residential 2021-SFR5 Trust	7/17/2026	2.21	Fixed Income	15,840,000	14,858,169	0.725%
JNLDoubleLine® Total Return Fund	SLG Office Trust 2021-OVA	1/1/2031	2.95	Fixed Income	3,062,000	2,490,000	0.121%
JNLDoubleLine® Total Return Fund	Benchmark 2021-827 Mortgage Trust	7/17/2054	1.37	Fixed Income	20,099,085	1,169,165	0.057%
JNLDoubleLine® Total Return Fund	Extended Stay America Trust 2021-ESH	7/15/2038	6.29	Fixed Income	2,405,796	2,408,015	0.118%
JNLDoubleLine® Total Return Fund	BBCMS Mortgage Trust 2021-C10	7/17/2054	1.34	Fixed Income	21,552,751	1,286,222	0.063%
JNLDoubleLine® Total Return Fund	Marble Point CLO XXI Ltd	7/25/2036	6.75	Fixed Income	1,000,000	1,013,125	0.049%
JNLDoubleLine® Total Return Fund	Home Partners of America 2018-1 Trust	9/19/2029	2.48	Fixed Income	2,200,162	1,905,691	0.093%
JNLDoubleLine® Total Return Fund	Home Partners of America 2018-1 Trust	9/19/2029	2.58	Fixed Income	1,006,055	849,277	0.041%
JNLDoubleLine® Total Return Fund	Home Partners of America 2018-1 Trust	9/19/2029	3.33	Fixed Income	1,158,692	987,094	0.048%
JNLDoubleLine® Total Return Fund	Starwood Mortgage Residential Trust 2021-2	5/25/2065	2.75	Fixed Income	5,537,000	4,711,944	0.230%
JNLDoubleLine® Total Return Fund	CD 2017-1 CDO Mortgage Trust	11/15/2027	4.37	Fixed Income	243,000	218,150	0.011%
JNLDoubleLine® Total Return Fund	SOHO Trust 2021-SQHO	8/12/2038	2.79	Fixed Income	4,623,000	2,689,973	0.131%
JNLDoubleLine® Total Return Fund	Deutsche Alt-A Securities, Inc. Mortgage Loan Trust, Series 2006-Ar1	2/25/2036	5.63	Fixed Income	7,279,649	7,310,538	0.357%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	6/16/2063	0.98	Fixed Income	78,437,063	5,479,781	0.268%
JNLDoubleLine® Total Return Fund	PRET 2021-FL2 Ltd	4/17/2039	6.22	Fixed Income	1,688,661	1,692,164	0.081%
JNLDoubleLine® Total Return Fund	PMC GMSR Issuer Trust	7/25/2026	3.62	Fixed Income	10,500,000	9,850,734	0.481%
JNLDoubleLine® Total Return Fund	Greystone CRE Notes 2021-FL3, Ltd.	7/15/2039	6.23	Fixed Income	2,558,137	2,555,630	0.125%
JNLDoubleLine® Total Return Fund	PRPM 2021-6, LLC	7/25/2026	1.79	Fixed Income	6,690,258	6,623,383	0.323%
JNLDoubleLine® Total Return Fund	Aligned Data Centers Issuer, LLC	8/17/2025	1.94	Fixed Income	5,000,000	4,748,493	0.232%
JNLDoubleLine® Total Return Fund	Aligned Data Centers Issuer, LLC	8/17/2026	2.48	Fixed Income	4,000,000	3,757,019	0.183%
JNLDoubleLine® Total Return Fund	Taco Bell Funding, LLC	2/25/2027	1.95	Fixed Income	4,912,500	4,616,486	0.225%
JNLDoubleLine® Total Return Fund	Taco Bell Funding, LLC	8/25/2031	2.54	Fixed Income	3,930,000	3,386,013	0.165%
JNLDoubleLine® Total Return Fund	Residential Asset Securitization Trust 2007-A6	7/25/2037	6.50	Fixed Income	2,028,745	1,335,438	0.064%
JNLDoubleLine® Total Return Fund	Progress Residential 2021-SFR8 Trust	10/19/2026	2.53	Fixed Income	5,100,000	4,829,302	0.236%
JNLDoubleLine® Total Return Fund	Iris Real Estate Capital Trust 2006-HE1	3/25/2036	5.57	Fixed Income	4,042,628	2,008,261	0.098%
JNLDoubleLine® Total Return Fund	GSR Mortgage Loan Trust 2006-OA1	8/25/2046	4.74	Fixed Income	12,564,100	2,262,412	0.110%
JNLDoubleLine® Total Return Fund	VCAI 2021-NPL4 LLC	5/25/2051	1.87	Fixed Income	451,860	450,450	0.022%
JNLDoubleLine® Total Return Fund	PRPM 2021-7, LLC	8/25/2026	1.99	Fixed Income	2,525,618	2,500,110	0.122%
JNLDoubleLine® Total Return Fund	Pretium Mortgage Credit Partners LLC	7/25/2051	1.74	Fixed Income	2,658,868	2,634,285	0.129%
JNLDoubleLine® Total Return Fund	MF1 2021-FL7 Ltd.	10/21/2036	6.21	Fixed Income	2,075,699	2,070,810	0.101%
JNLDoubleLine® Total Return Fund	Structured Asset Investment Loan Trust 2006-4	7/25/2036	1.65	Fixed Income	20,500,000	1,222,634	0.059%
JNLDoubleLine® Total Return Fund	BX Commercial Mortgage Trust 2021-VOL1	9/15/2036	9.21	Fixed Income	3,052,000	3,048,891	0.149%
JNLDoubleLine® Total Return Fund	BBCMS Mortgage Trust 2021-C11	9/17/2054	1.48	Fixed Income	42,592,145	2,748,587	0.134%
JNLDoubleLine® Total Return Fund	Upstart Securitization Trust 2021-4	9/20/2031	1.84	Fixed Income	1,386,563	1,377,988	0.067%
JNLDoubleLine® Total Return Fund	Upstart Securitization Trust 2021-4	9/20/2031	3.19	Fixed Income	5,530,000	5,037,592	0.246%
JNLDoubleLine® Total Return Fund	Benchmark 2021-809 Mortgage Trust	9/17/2054	0.81	Fixed Income	98,734,000	1,574,568	0.077%
JNLDoubleLine® Total Return Fund	Steele Creek CLO 2019-1, Ltd	4/15/2032	7.36	Fixed Income	1,000,000	1,017,434	0.050%
JNLDoubleLine® Total Return Fund	COMM 2018-HCLV Mortgage Trust	5/15/2033	6.39	Fixed Income	2,125,000	1,985,730	0.097%
JNLDoubleLine® Total Return Fund	CSMC 2021-833	10/10/2031	3.05	Fixed Income	977,000	809,875	0.044%
JNLDoubleLine® Total Return Fund	CSMC 2021-833	10/10/2031	3.17	Fixed Income	2,130,000	1,894,021	0.092%
JNLDoubleLine® Total Return Fund	BX Commercial Mortgage Trust 2021-XL2	10/15/2038	5.90	Fixed Income	1,781,250	1,771,825	0.087%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	8/20/2051	2.50	Fixed Income	31,418,487	27,546,222	1.345%
JNLDoubleLine® Total Return Fund	PRPM 2021-9, LLC	10/25/2024	2.36	Fixed Income	2,442,282	2,422,733	0.118%
JNLDoubleLine® Total Return Fund	PMC GMSR Issuer Trust	7/25/2026	3.85	Fixed Income	11,300,000	10,656,287	0.520%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2049	4.00	Fixed Income	18,533,165	18,120,073	0.885%
JNLDoubleLine® Total Return Fund	PRET 2021-NPL5 LLC	10/25/2024	2.49	Fixed Income	8,576,042	8,530,041	0.416%
JNLDoubleLine® Total Return Fund	Ocean Traffic CLO X	10/15/2034	6.78	Fixed Income	1,000,000	1,014,996	0.050%
JNLDoubleLine® Total Return Fund	COLT CV LLC	11/25/2024	2.49	Fixed Income	662,24		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.50	Fixed Income	7,599,136	7,501,105	0.366%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	11/16/2063	0.36	Fixed Income	78,969,962	7,393,942	0.346%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	4/25/2052	3.50	Fixed Income	8,337,327	6,894,976	0.337%
JNLDoubleLine® Total Return Fund	BX Commercial Mortgage Trust 2021-CIP	12/15/2026	6.13	Fixed Income	2,977,061	2,965,219	0.145%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	10/20/2050	2.50	Fixed Income	36,514,357	5,342,322	0.261%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.00	Fixed Income	11,887,991	5,370,991	0.260%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	11/20/2055	2.50	Fixed Income	39,310,357	5,307,438	0.279%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2053	4.00	Fixed Income	13,810,937	5,313,200	0.260%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	2/25/2052	3.50	Fixed Income	17,944,735	5,481,540	0.170%
JNLDoubleLine® Total Return Fund	Velocity Commercial Capital Loan Trust 2017	7/25/2026	3.07	Fixed Income	964,681	561,034	0.047%
JNLDoubleLine® Total Return Fund	Deutsche ALA Securities Mortgage Loan Trust Series 2007-2	9/25/2047	5.27	Fixed Income	9,521,890	8,254,438	0.403%
JNLDoubleLine® Total Return Fund	PR Mortgage Loan Trust	9/25/2047	5.86	Fixed Income	4,609,925	4,414,333	0.216%
JNLDoubleLine® Total Return Fund	Wells Fargo & Company	4/1/2026	5.22	Fixed Income	1,937,000	1,804,707	0.088%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2046	3.00	Fixed Income	4,613,111	4,178,164	0.204%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	3/15/2054	0.44	Fixed Income	1,885,883	214,243	0.010%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2048	4.00	Fixed Income	2,007,890	1,959,370	0.096%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.00	Fixed Income	2,838,972	2,773,920	0.135%
JNLDoubleLine® Total Return Fund	Waterfall Commercial Mortgage Trust 2015-SBC5	1/1/2026	4.10	Fixed Income	541,381	540,357	0.026%
JNLDoubleLine® Total Return Fund	Wells Fargo & Company	1/16/2026	4.89	Fixed Income	1,577,000	1,492,788	0.073%
JNLDoubleLine® Total Return Fund	Benchmark 2018-B7 Mortgage Trust	5/16/2053	0.56	Fixed Income	84,578,802	1,119,254	0.055%
JNLDoubleLine® Total Return Fund	COMM 2013-CCRE12 Mortgage Trust	10/15/2046	0.74	Fixed Income	2,191,523	14,169	0.001%
JNLDoubleLine® Total Return Fund	MidOcean Credit CLO	7/21/2031	6.69	Fixed Income	1,163,171	1,179,461	0.058%
JNLDoubleLine® Total Return Fund	Labrador Aviation Finance Limited	11/15/2042	4.30	Fixed Income	9,778,642	9,070,660	0.443%
JNLDoubleLine® Total Return Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C18	10/18/2047	4.83	Fixed Income	1,500,000	1,471,346	0.072%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2014-GC24	9/12/2047	0.61	Fixed Income	4,556,590	4,952	0.000%
JNLDoubleLine® Total Return Fund	JPMBS Commercial Mortgage Securities Trust 2014-C21	8/16/2047	4.72	Fixed Income	1,489,662	1,473,756	0.072%
JNLDoubleLine® Total Return Fund	WFRBS Commercial Mortgage Trust 2014-C25	11/18/2047	0.83	Fixed Income	10,817,045	14,449	0.123%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2015-LC20	4/15/2050	1.43	Fixed Income	14,094,643	39,916	0.002%
JNLDoubleLine® Total Return Fund	CSAIL 2015-C1 Commercial Mortgage Trust	4/15/2050	0.87	Fixed Income	11,492,589	21,024	0.001%
JNLDoubleLine® Total Return Fund	COMM 2015-DC1 Mortgage Trust	2/12/2048	1.07	Fixed Income	17,146,565	15,716	0.001%
JNLDoubleLine® Total Return Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2014-C19	12/17/2024	4.00	Fixed Income	2,000,000	1,891,710	0.092%
JNLDoubleLine® Total Return Fund	COMM 2015-CCRE26 Mortgage Trust	10/13/2050	0.94	Fixed Income	24,137,493	214,263	0.001%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2007-3T1	4/25/2037	6.25	Fixed Income	10,882,440	5,272,618	0.257%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2015-GC34	10/13/2048	1.35	Fixed Income	19,881,949	220,859	0.011%
JNLDoubleLine® Total Return Fund	DBJPM 2016-C1 Mortgage Trust	5/12/2049	1.51	Fixed Income	19,989,370	278,336	0.014%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2015-GS1	9/15/2026	0.90	Fixed Income	31,297,221	1,834,863	0.009%
JNLDoubleLine® Total Return Fund	JPMBS Commercial Mortgage Securities Trust 2015-C33	11/18/2025	4.79	Fixed Income	2,224,000	1,996,203	0.097%
JNLDoubleLine® Total Return Fund	COMM 2016-DC2 Mortgage Trust	2/12/2049	1.07	Fixed Income	13,761,863	125,541	0.006%
JNLDoubleLine® Total Return Fund	Wells Fargo & Company	3/17/2059	1.72	Fixed Income	10,127,841	172,645	0.008%
JNLDoubleLine® Total Return Fund	Halycon Loan Advisors Funding 2013-2 Ltd.	8/10/2031	9.31	Fixed Income	174,929	2,018,703	0.095%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2015-C31	11/18/2025	4.75	Fixed Income	1,850,000	1,767,725	0.086%
JNLDoubleLine® Total Return Fund	JPMDB Commercial Mortgage Securities Trust 2016-C2	6/17/2049	1.62	Fixed Income	17,490,451	281,824	0.014%
JNLDoubleLine® Total Return Fund	COMM 2016-DC2 Mortgage Trust	2/12/2026	4.81	Fixed Income	1,340,000	1,274,532	0.062%
JNLDoubleLine® Total Return Fund	CSAIL 2015-C4 Commercial Mortgage Trust	11/18/2048	4.71	Fixed Income	1,931,000	1,854,863	0.092%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2015-NX54	11/18/2025	3.83	Fixed Income	2,031,000	1,839,436	0.090%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2015-P2	12/17/2048	1.07	Fixed Income	16,739,585	127,126	0.006%
JNLDoubleLine® Total Return Fund	Citigroup Commercial Mortgage Trust 2016-GC36	2/12/2049	1.36	Fixed Income	18,737,979	225,724	0.011%
JNLDoubleLine® Total Return Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C28	11/15/2049	1.30	Fixed Income	17,581,339	174,317	0.009%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	4/15/2040	1.04	Fixed Income	133,452	1,590	0.000%
JNLDoubleLine® Total Return Fund	Citigroup Commercial Mortgage Trust 2016-P3	6/16/2049	1.81	Fixed Income	14,444,419	214,178	0.010%
JNLDoubleLine® Total Return Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C30	9/17/2049	1.42	Fixed Income	15,136,312	759,949	0.013%
JNLDoubleLine® Total Return Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C31	10/19/2026	4.40	Fixed Income	2,960,000	2,499,400	0.123%
JNLDoubleLine® Total Return Fund	SOFI Professional Loan Program 2017-F LLC	5/25/2027	3.62	Fixed Income	8,000,000	7,514,873	0.367%
JNLDoubleLine® Total Return Fund	CFCRE 2016-C4 Mortgage Trust	5/10/2058	1.73	Fixed Income	60,688,542	984,107	0.048%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2016-GS3	10/13/2049	1.31	Fixed Income	22,776,669	397,386	0.019%
JNLDoubleLine® Total Return Fund	LSTAR Commercial Mortgage Trust 2017-5	3/11/2050	0.99	Fixed Income	30,237,772	444,668	0.022%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2017-RC1	6/17/2050	1.54	Fixed Income	15,065,120	438,026	0.021%
JNLDoubleLine® Total Return Fund	UBS Commercial Mortgage Trust 2017-C1	6/17/2050	1.65	Fixed Income	14,292,097	442,360	0.022%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2017-GS7	8/12/2050	1.22	Fixed Income	32,077,637	697,712	0.034%
JNLDoubleLine® Total Return Fund	Shenton Aircraft Investment I Limited	11/15/2027	4.75	Fixed Income	5,442,560	5,215,584	0.255%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association	8/15/2035	6.00	Fixed Income	1,853,915	1,853,915	0.090%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2047	3.50	Fixed Income	3,534,660	3,348,152	0.163%
JNLDoubleLine® Total Return Fund	Nassau 2018-I Ltd.	7/15/2031	6.71	Fixed Income	1,164,977	1,182,205	0.058%
JNLDoubleLine® Total Return Fund	Sound Point CLO IV-R Ltd.	4/18/2031	6.69	Fixed Income	2,377,106	2,411,280	0.118%
JNLDoubleLine® Total Return Fund	Trinity Rail Leasing 2010 LLC	11/6/2031	6.00	Fixed Income	2,586,743	2,618,701	0.128%
JNLDoubleLine® Total Return Fund	Steele Creek CLO 2016-1, Ltd.	6/16/2031	6.33	Fixed Income	1,167,536	1,172,936	0.057%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2048	3.50	Fixed Income	1,655,855	1,566,413	0.076%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.00	Fixed Income	6,293,502	5,774,854	0.282%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2019-GC38	2/12/2052	1.17	Fixed Income	37,213,345	5,709,307	0.087%
JNLDoubleLine® Total Return Fund	CSMCM Trust	9/25/2058	4.97	Fixed Income	14,967,720	12,958,638	0.633%
JNLDoubleLine® Total Return Fund	Vibrant CLO III Ltd	10/20/2031	6.79	Fixed Income	719,350	700,621	0.036%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	2/15/2032	3.00	Fixed Income	321,891	320,931	0.016%
JNLDoubleLine® Total Return Fund	Credit Suisse Securities (USA) LLC	10/15/2045	6.00	Fixed Income	4,009,065	4,397,026	0.212%
JNLDoubleLine® Total Return Fund	Credit Suisse Securities (USA) LLC	3/25/2036	6.00	Fixed Income	2,235,440	941,127	0.046%
JNLDoubleLine® Total Return Fund	Credit Suisse First Boston Mortgage Securities Corp.	12/25/2035	6.00	Fixed Income	5,107,596	2,782,521	0.136%
JNLDoubleLine® Total Return Fund	Trade Adjustable Mortgage Trust	8/25/2035	5.29	Fixed Income	2,940,230	2,578,909	0.126%
JNLDoubleLine® Total Return Fund	Nomura Asset Acceptance Corporation, Alternative Loan Trust, Series 2005-ARA	2/25/2036	6.00	Fixed Income	988,515	983,839	0.048%
JNLDoubleLine® Total Return Fund	Residential Accredit Loans, Inc.	12/25/2036	5.24	Fixed Income	3,990,078	2,952,003	0.144%
JNLDoubleLine® Total Return Fund	Structured Adjustable Rate Mortgage Loan Trust 2005-3XS	11/25/2035	6.53	Fixed Income	2,778,981	2,329,462	0.114%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2005-43	7/25/2035	5.50	Fixed Income	1,609,589	1,345,523	0.066%
JNLDoubleLine® Total Return Fund	Structured Asset Securities Corporation	4/25/2035	7.75	Fixed Income	4,844,455	2,763,480	0.136%
JNLDoubleLine® Total Return Fund	New Stearns Asset Backed Securities LLC	8/25/2035	6.00	Fixed Income	115,736	115,286	0.006%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	9/15/2033	3.50	Fixed Income	3,980,454	3,898,177	0.190%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	9/15/2033	3.00	Fixed Income	6,199,000	5,924,296	0.289%
JNLDoubleLine® Total Return Fund	Wells Fargo Alternative Loan Trust 2007-PAS Trust	7/25/2037	6.00	Fixed Income	1,018,861	918,948	0.045%
JNLDoubleLine® Total Return Fund	Residential Asset Securitization Trust 2006-A6	8/25/2032	6.00	Fixed Income	2,857,660	2,857,660	0.140%
JNLDoubleLine® Total Return Fund	Starm Mortgage Loan Trust 2007-2	4/25/2037	6.43	Fixed Income	369,450	198,932	0.009%
JNLDoubleLine® Total Return Fund	Residential Asset Securitization Trust 2007-A8	8/25/2037	6.00	Fixed Income	15,518,704	8,277,727	0.404%
JNLDoubleLine® Total Return Fund	HERO Funding Trust 2016-4A	9/20/2037	4.29	Fixed Income	1,520,314	1,442,764	0.070%
JNLDoubleLine® Total Return Fund	Cmat (Citimortgage Alternative Loan Trust), Series 2006-A4	8/25/2032	6.00	Fixed Income	1,024,095	915,673	0.045%
JNLDoubleLine® Total Return Fund	Washington Mutual Mortgage Pass-Through Certificates WMALT Series 2007-2 Trust	4/25/2037	5.50	Fixed Income	864,901	861,870	0.042%
JNLDoubleLine® Total Return Fund	RBSGC Mortgage Loan Trust 2007-B	12/25/2036	5.42	Fixed Income	2,469,366	1,364,452	0.067%
JNLDoubleLine® Total Return Fund	First Horizon Mortgage Pass-Through Trust 2006-AR1	5/25/2036	6.00	Fixed Income	2,544,626	1,096,759	0.054%
JNLDoubleLine® Total Return Fund	RFMSI Series 2006-S8 Trust	7/25/2036	6.00	Fixed Income	158,702	141,262	0.007%
JNLDoubleLine® Total Return Fund	RALI Series 2006-QS4 Trust	4/25/2036	6.00	Fixed Income	1,356,516	1,068,399	0.053%
JNLDoubleLine® Total Return Fund	RALI Series 2006-QS5 Trust	5/25/2036	6.00	Fixed Income	1,381,488	1,154,279	0.056%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2006-19CB	8/25/2036	6.00	Fixed Income	4,962,170	2,998,513	0.146%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	2/1/2047	3.00	Fixed Income	1,107,044	1,104,162	0.054%
JNLDoubleLine® Total Return Fund	Wells Fargo Alternative Loan Trust 2007-PAS Trust	7/25/2037	6.25	Fixed Income	924,799	810,461	0.040%
JNLDoubleLine® Total Return Fund	Bank of America Alternative Loan Trust 2006-4	5/25/2036	6.50	Fixed Income	2,410,804	2,192,501	0.107%
JNLDoubleLine® Total Return Fund	RBSGC Mortgage Loan Trust, 2007-A	1/25/2037	6.75	Fixed Income	2,406,128	2,376,328	0.116%
JNLDoubleLine® Total Return Fund	RBSGC Mortgage Loan Trust 2007-B	1/25/2037	1.08	Fixed Income	2,469,266	1,390,149	0.067%
JNLDoubleLine® Total Return Fund	J.P. Morgan Resuritization Trust, Series 2009-10 Trust	3/26/2037	1.36	Fixed Income	909,058	990,702	0.048%
JNLDoubleLine® Total Return Fund	CMALT (Citimortgage Alternative Loan Trust), Series 2007-A5	5/25/2037	6.00	Fixed Income	745,945	697,749	0.034%
JNLDoubleLine® Total Return Fund	Washington Mutual Mortgage Pass-Through Certificates WMALT Series 2006-5 Trust	7/25/2036	6.00	Fixed Income	914,952	739,022	0.036%
JNLDoubleLine® Total Return Fund	Chester Mortgage Finance Trust Series 2006-S2	10/25/2036	6.00	Fixed Income	6,427,931	2,863,930	0.125%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2006-15CB	8/25/2032	6.00	Fixed Income	1,030,460	1,014,385	0.050%
JNLDoubleLine® Total Return Fund	Washington Mutual Mortgage Pass-Through Certificates WMALT Series 2006-5 Trust	7/25/2036	6.00	Fixed Income	1,633,843	1,319,682	0.064%
JNLDoubleLine® Total Return Fund	RFMSI Series 2007-S2 Trust	2/25/2037	6.00	Fixed Income	481,647	391,860	0.019%
JNLDoubleLine® Total Return Fund	Citigroup Mortgage Loan Trust 2007-A88	7/25/2047	4.04	Fixed Income	1,309,447	1,113,178	0.054%
JNLDoubleLine® Total Return Fund	Residential Asset Securitization Trust 2006-A12	11/25/2036	6.25	Fixed Income	8,985,746	3,621,399	0.177%
JNLDoubleLine® Total Return Fund	Wells Fargo Mortgage Backed Securities 2007-7 Trust	6/25/2037	6.00	Fixed Income	559,349	509,350	0.025%
JNLDoubleLine® Total Return Fund	Morgan Stanley Mortgage Loan Trust 2007-8XS	4/25/2037	5.75	Fixed Income	953,159	496,170	0.024%
JNLDoubleLine® Total Return Fund	RFMSI Series 2007-S4 Trust	4/25/2037	6.00	Fixed Income	687,554	659,039	0.032%
JNLDoubleLine® Total Return Fund	Residential Asset Securitization Trust 2007-A3	4/25/2037	5.42	Fixed Income	5,107,746	1,834,337	0.090%
JNLDoubleLine® Total Return Fund	IndyMac INDA Mortgage Loan Trust 2006-A2	9/25/2036	4.66	Fixed Income	582,444	562,402	0.027%
JNLDoubleLine® Total Return Fund	Morgan Stanley Mortgage Loan Trust 2007-12	8/25/2037	6.00	Fixed Income	1,080,356	407,880	0.020%
JNLDoubleLine® Total Return Fund	RFMSI Series 2007-S5 Trust	5/25/2037	6.00	Fixed Income	1,435,670	3,462,388	0.169%
JNLDoubleLine® Total Return Fund	Residential Asset Securitization Trust 2007-A3	4/25/2037	8.29	Fixed Income	866,052	946,916	0.041%
JNLDoubleLine® Total Return Fund	CHL Mortgage Pass-Through Trust 2006-18	2/25/2037	6.00	Fixed Income	1,991,326	985,465	0.048%
JNLDoubleLine® Total Return Fund	RFMSI Series 2007 S7 Trust	7/25/2037	6.00	Fixed Income	976,022	819,884	0.040%
JNLDoubleLine® Total Return Fund	Wells Fargo Alternative Loan Trust 2007-PAS Trust	11/25/2037	6.25	Fixed			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2045	3.00	Fixed Income	2,687,295	2,475,332	0.121%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	10/20/2045	3.50	Fixed Income	1,167,196	1,112,390	0.054%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	9/25/2041	2.00	Fixed Income	1,150,829	1,099,420	0.054%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	3/25/2042	4.00	Fixed Income	660,668	643,808	0.031%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	8/25/2042	3.00	Fixed Income	9,840,623	9,123,738	0.445%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2043	3.50	Fixed Income	7,555,014	7,207,545	0.349%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	12/25/2044	3.00	Fixed Income	13,463,108	12,124,988	0.592%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2045	3.50	Fixed Income	707,765	672,410	0.033%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2045	3.50	Fixed Income	4,478,277	4,239,180	0.207%
JNLDoubleLine® Total Return Fund	Structured Asset Investment Loan Trust 2006-3	6/25/2036	5.13	Fixed Income	4,669,605	2,980,777	0.146%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2015-GC34	10/26/2025	4.42	Fixed Income	782,000	639,810	0.031%
JNLDoubleLine® Total Return Fund	BBCMS Trust 2018-CBM	7/15/2037	6.14	Fixed Income	1,599,000	1,587,188	0.077%
JNLDoubleLine® Total Return Fund	Primose Funding LLC	7/30/2026	4.48	Fixed Income	9,625,000	9,529,712	0.465%
JNLDoubleLine® Total Return Fund	NP SFE II LLC	9/20/2026	3.24	Fixed Income	7,474,429	7,221,581	0.353%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2046	788.186	3.00	Fixed Income	705,330	0.034%
JNLDoubleLine® Total Return Fund	BBCMS 2018-TALL Mortgage Trust	3/16/2037	8.53	Fixed Income	6,125,000	4,263,026	0.208%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	7/1/2047	3.00	Fixed Income	2,766,885	2,538,866	0.124%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	3/20/2042	3.00	Fixed Income	1,033,382	973,870	0.048%
JNLDoubleLine® Total Return Fund	IndyMac MBS, Inc.	7/25/2035	5.00	Fixed Income	6,444,472	5,666,147	0.179%
JNLDoubleLine® Total Return Fund	PMT Credit Risk Transfer Trust 2019-3R	10/29/2024	9.16	Fixed Income	526,456	528,016	0.026%
JNLDoubleLine® Total Return Fund	Wellfleet CLO 2017-3 Ltd	1/17/2031	6.70	Fixed Income	2,015,482	2,045,405	0.100%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Corp Trust 2018-TWR	7/15/2031	6.04	Fixed Income	436,000	367,031	0.018%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Corp Trust 2018-TWR	7/15/2031	6.74	Fixed Income	1,000,000	203,560	0.010%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Corp Trust 2018-TWR	7/15/2031	7.24	Fixed Income	1,000,000	123,639	0.006%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Corp Trust 2018-TWR	7/15/2031	7.94	Fixed Income	1,000,000	63,773	0.003%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Corp Trust 2018-TWR	7/15/2031	9.07	Fixed Income	1,000,000	34,030	0.002%
JNLDoubleLine® Total Return Fund	CommonBond Student Loan Trust 2019-B-GS	8/25/2028	4.12	Fixed Income	85,373	72,684	0.004%
JNLDoubleLine® Total Return Fund	Morgan Stanley Capital I Trust 2019-L3	11/16/2029	3.49	Fixed Income	3,847,000	3,547,666	0.173%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2019-C54	12/1/2052	0.94	Fixed Income	34,603,350	1,291,733	0.063%
JNLDoubleLine® Total Return Fund	Morgan Stanley Capital I Trust 2019-L3	11/18/2052	0.73	Fixed Income	66,370,470	1,822,750	0.089%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2029	2.48	Fixed Income	16,559,518	15,314,236	0.748%
JNLDoubleLine® Total Return Fund	AMSR 2019-SFR1 Trust	10/20/2029	3.47	Fixed Income	3,300,000	3,177,687	0.155%
JNLDoubleLine® Total Return Fund	MRCO 2019-PARK Mortgage Trust	12/15/2024	2.72	Fixed Income	4,267,000	2,453,177	0.120%
JNLDoubleLine® Total Return Fund	BX Trust 2019-OC11	12/11/2029	4.08	Fixed Income	4,941,000	4,441,612	0.217%
JNLDoubleLine® Total Return Fund	HalseyPro CLO I, Ltd	12/20/2033	7.74	Fixed Income	3,000,000	3,051,151	0.149%
JNLDoubleLine® Total Return Fund	Nomura Reesecutioner Trust 2011-4R	1/26/2047	4.50	Fixed Income	4,032,780	4,038,803	0.200%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2020-GC45	2/14/2053	0.77	Fixed Income	48,022,611	1,388,483	0.068%
JNLDoubleLine® Total Return Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-LOOP	12/7/2026	3.99	Fixed Income	2,666,000	427,979	0.021%
JNLDoubleLine® Total Return Fund	Bank 2020-BNK25	11/70/30	2.84	Fixed Income	306,000	288,196	0.013%
JNLDoubleLine® Total Return Fund	Nations Commercial Mortgage Securities Trust 2020-2PAC	4/1/2045	3.75	Fixed Income	4,415,000	4,312,631	0.213%
JNLDoubleLine® Total Return Fund	JPMOB Commercial Mortgage Securities Trust 2019-COR6	11/15/2029	3.41	Fixed Income	4,415,000	3,804,216	0.186%
JNLDoubleLine® Total Return Fund	ABFC 2007-WMC1 Trust	6/25/2037	6.22	Fixed Income	3,263,005	2,297,977	0.112%
JNLDoubleLine® Total Return Fund	Washington Mutual Mortgage Pass-Through Certificates WMALT Series 2006-7 Trust	9/25/2030	4.05	Fixed Income	17,014,887	4,950,124	0.242%
JNLDoubleLine® Total Return Fund	Sapphire Aviation Finance I Limited	9/15/2027	3.23	Fixed Income	6,031,203	5,530,815	0.270%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2015-LC20	3/17/2025	4.06	Fixed Income	2,886,000	2,241,308	0.109%
JNLDoubleLine® Total Return Fund	Dryden S3 CLO Ltd., Series 2017-S3A	1/15/2031	6.96	Fixed Income	1,000,000	1,016,985	0.050%
JNLDoubleLine® Total Return Fund	BlueMountain CLO 2014-2 Ltd	10/21/2030	7.29	Fixed Income	3,000,000	3,049,455	0.149%
JNLDoubleLine® Total Return Fund	JPIMCC Commercial Mortgage Securities Trust 2016-JP2	7/17/2026	3.46	Fixed Income	5,081,000	4,559,613	0.223%
JNLDoubleLine® Total Return Fund	CSAL 2019-C16 Commercial Mortgage Trust	6/17/2052	1.70	Fixed Income	8,735,563	481,528	0.024%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2020-C55	2/18/2053	1.42	Fixed Income	57,802,465	3,139,836	0.153%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	5/15/2050	1.25	Fixed Income	300,000	161,916	0.008%
JNLDoubleLine® Total Return Fund	Aircraft Lease Securitization Limited	12/25/2028	4.15	Fixed Income	2,180,919	1,851,978	0.090%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	5/15/2040	1.13	Fixed Income	13,815,000	9,180,922	0.448%
JNLDoubleLine® Total Return Fund	Sumova Helios II Issuer, LLC	6/20/2029	3.75	Fixed Income	3,140,710	2,869,948	0.140%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2020-C56	6/17/2053	1.51	Fixed Income	57,339,889	3,139,786	0.153%
JNLDoubleLine® Total Return Fund	Wakfu Asset-Backed Certificates, Wakfu Series 200X-HEX Trust	3/25/2026	1.10	Fixed Income	13,614,338	4,866,738	0.238%
JNLDoubleLine® Total Return Fund	Bravo Residential Funding Trust 2020-RP1	5/25/2052	2.05	Fixed Income	4,500,000	4,281,707	0.209%
JNLDoubleLine® Total Return Fund	Mosaic Solar Loan Trust 2020-1	11/22/2032	3.10	Fixed Income	1,456,641	1,272,456	0.062%
JNLDoubleLine® Total Return Fund	Wells Fargo Commercial Mortgage Trust 2017-C39	9/16/2050	1.23	Fixed Income	65,664,662	1,529,054	0.075%
JNLDoubleLine® Total Return Fund	JPMOB Commercial Mortgage Securities Trust 2020-COR7	5/15/2053	1.76	Fixed Income	38,154,394	2,284,458	0.112%
JNLDoubleLine® Total Return Fund	New Residential Mortgage Loan Trust 2020-RP1	11/26/2029	1.00	Fixed Income	5,300,000	4,038,803	0.200%
JNLDoubleLine® Total Return Fund	Goodgreen 2020-1 Trust	4/15/2055	2.63	Fixed Income	2,396,534	2,032,080	0.099%
JNLDoubleLine® Total Return Fund	CSMC 2020-SPT1 Trust	4/25/2065	3.39	Fixed Income	7,000,000	6,588,418	0.322%
JNLDoubleLine® Total Return Fund	FirstKey Homes 2020-SFR1 Trust	9/17/2025	2.24	Fixed Income	5,100,000	4,970,011	0.243%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	11/2/2048	3.50	Fixed Income	2,247,265	4,129,588	0.204%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	8/15/2050	1.38	Fixed Income	8,850,000	4,891,338	0.239%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2030	1.90	Fixed Income	10,000,000	8,968,214	0.438%
JNLDoubleLine® Total Return Fund	Treasury, United States Department of	8/15/2040	1.13	Fixed Income	49,068,000	3,214,708	0.157%
JNLDoubleLine® Total Return Fund	CAL Funding IV Ltd	3/27/2028	2.22	Fixed Income	1,980,203	1,851,978	0.090%
JNLDoubleLine® Total Return Fund	Global SC Finance IV SRL	10/17/2040	2.17	Fixed Income	1,110,001	1,051,112	0.051%
JNLDoubleLine® Total Return Fund	Park Avenue Institutional Advisers CLO Ltd 2016-1	8/25/2031	6.56	Fixed Income	1,127,260	1,135,275	0.055%
JNLDoubleLine® Total Return Fund	First Franklin Mortgage Loan Trust, Series 2007-FF2	3/25/2037	5.25	Fixed Income	4,999,607	2,607,116	0.127%
JNLDoubleLine® Total Return Fund	Benchmark 2020-S19 Mortgage Trust	9/17/2062	1.87	Fixed Income	36,628,587	5,123,617	0.250%
JNLDoubleLine® Total Return Fund	MRCO 2019-PARK Mortgage Trust	12/15/2024	2.72	Fixed Income	4,267,000	2,453,177	0.120%
JNLDoubleLine® Total Return Fund	Willis Engine Structured Trust IV	9/15/2026	4.75	Fixed Income	1,274,370	1,262,044	0.062%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	10/20/2051	3.00	Fixed Income	16,908,585	10,888,028	0.532%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	2/20/2052	3.00	Fixed Income	9,368,501	6,839,445	0.331%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	12/20/2051	2.50	Fixed Income	27,888,319	3,708,829	0.181%
JNLDoubleLine® Total Return Fund	Venus Securitization Trust 2023-3	3/25/2068	5.93	Fixed Income	8,646,625	8,748,901	0.427%
JNLDoubleLine® Total Return Fund	COL 2023-1 Mortgage Loan Trust	4/25/2068	6.05	Fixed Income	5,601,685	5,665,075	0.277%
JNLDoubleLine® Total Return Fund	OBX 2023-NQM3 Trust	2/25/2063	5.95	Fixed Income	3,920,985	4,869,074	0.238%
JNLDoubleLine® Total Return Fund	CIM Trust 2023-RA	5/25/2062	5.00	Fixed Income	7,203,240	7,233,461	0.356%
JNLDoubleLine® Total Return Fund	Alternative Loan Trust 2005-45	11/25/2035	6.00	Fixed Income	13,538,387	8,615,335	0.421%
JNLDoubleLine® Total Return Fund	Venus Securitization Trust 2023-4	5/25/2068	5.81	Fixed Income	3,605,474	3,638,720	0.178%
JNLDoubleLine® Total Return Fund	GS Mortgage Securities Trust 2015-GS1	11/3/2025	4.04	Fixed Income	2,462,000	2,353,694	0.115%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	10/2/2044	3.00	Fixed Income	18,725,958	1,429,835	0.070%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	7/70/2050	3.00	Fixed Income	9,118,718	1,484,866	0.072%
JNLDoubleLine® Total Return Fund	OBX 2023-NQM4 Trust	3/25/2063	6.11	Fixed Income	3,837,740	3,898,117	0.190%
JNLDoubleLine® Total Return Fund	HOMES Trust	2/25/2068	6.46	Fixed Income	4,103,947	4,158,463	0.203%
JNLDoubleLine® Total Return Fund	Deutsche Alt-A Securities, Inc. Mortgage Loan Trust, Series 2006-Ac1	2/25/2035	5.60	Fixed Income	1,021,865	1,013,921	0.050%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	6/25/2043	8.63	Fixed Income	3,000,000	3,151,808	0.154%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	2/20/2050	3.50	Fixed Income	9,053,737	1,728,995	0.084%
JNLDoubleLine® Total Return Fund	Colt 2023-2 Mortgage Loan Trust	7/25/2068	6.60	Fixed Income	4,196,377	4,281,216	0.209%
JNLDoubleLine® Total Return Fund	CSMC 2021-RP1-5	12/25/2060	7.00	Fixed Income	1,836,293	1,836,127	0.090%
JNLDoubleLine® Total Return Fund	Securitized Asset Backed Receivables LLC Trust 2006-NC3	5/25/2036	5.27	Fixed Income	16,115,145	5,511,605	0.269%
JNLDoubleLine® Total Return Fund	BRAVO Residential Funding Trust 2023-NQM5	6/25/2063	6.51	Fixed Income	14,423,671	14,748,237	0.720%
JNLDoubleLine® Total Return Fund	Aligned Data Centers Issuer, LLC	8/15/2028	6.00	Fixed Income	1,500,000	1,534,420	0.075%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	12/27/2033	7.33	Fixed Income	5,009,697	5,120,611	0.250%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	9/15/2046	3.00	Fixed Income	23,886,858	21,596,877	1.054%
JNLDoubleLine® Total Return Fund	OBX 2022-NQM7 Trust	8/25/2062	5.11	Fixed Income	3,739,744	3,739,885	0.183%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.00	Fixed Income	16,423,226	16,602,086	0.811%
JNLDoubleLine® Total Return Fund	MFA 2023-NQM9 Trust	7/25/2060	6.62	Fixed Income	12,244,732	12,919,686	0.631%
JNLDoubleLine® Total Return Fund	Uparist Pass-Through Trust Series 2021-S79	11/20/2029	1.70	Fixed Income	295,758	294,247	0.014%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	6/25/2052	2.50	Fixed Income	31,501,129	4,984,825	0.243%
JNLDoubleLine® Total Return Fund	Affirm Asset Securitization Trust 2023-B	4/15/2026	6.80	Fixed Income	5,000,000	5,116,510	0.250%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	6/25/2048	1.50	Fixed Income	17,847,649	14,026,410	0.746%
JNLDoubleLine® Total Return Fund	Katyma CLO I, Ltd	10/20/2036	8.04	Fixed Income	1,000,000	1,027,445	0.050%
JNLDoubleLine® Total Return Fund	Katyma CLO I, Ltd	10/20/2036	7.39	Fixed Income	5,000,000	5,115,173	0.250%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	11/20/2051	3.50	Fixed Income	19,503,789	3,739,385	0.183%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	12/25/2052	4.50	Fixed Income	19,935,880	4,958,853	0.242%
JNLDoubleLine® Total Return Fund	Sound Point CLO IX Ltd	7/20/2032	7.34	Fixed Income	860,000	861,206	0.042%
JNLDoubleLine® Total Return Fund	Government National Mortgage Association	2/20/2051	2.50	Fixed Income	39,474,400	5,632,730	0.275%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	7/25/2051	2.50	Fixed Income	10,255,000	7,216,000	0.352%
JNLDoubleLine® Total Return Fund	TRESTLES CLO LLC	12/5/2036	7.78	Fixed Income	2,000,000	2,038,924	0.100%
JNLDoubleLine® Total Return Fund	CSAM 2017-2 Ltd	7/17/2034	7.40	Fixed Income	1,500,000	1,526,040	0.075%
JNLDoubleLine® Total Return Fund	Marble Point CLO XXV Ltd	10/20/2036	7.21	Fixed Income	2,000,000	2,040,263	0.100%
JNLDoubleLine® Total Return Fund	Battalion CLO XI Ltd	4/24/2043	7.26	Fixed Income	1,000,000	1,014,467	0.050%
JNLDoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2028	6.18	Fixed Income	837,323	8,845,070	0.432%
JNLDoubleLine® Total Return Fund	Ares LIX CLO Ltd	4/25/2034	6.95	Fixed Income	3,000,000	3,039,386	0.148%
JNLDoubleLine® Total Return Fund	Octagon Investment Partners 40 Ltd.	12/22/2035	7.24	Fixed Income	1,000,000	1,015,831	0.050%
JNLDoubleLine® Total Return Fund	Canval CLO IX-C Ltd.	4/20/2037	6.96	Fixed Income	1,000,000	1,019,572	0.050%
JNLDoubleLine® Total Return Fund	Empower CLO 2024-1 Ltd	4/27/2037	6.93	Fixed Income	5,000,000	5,216,740	0.255%
JNLDoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	10/25/					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/DoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	5/1/2054	6.00	Fixed Income	23,978,934	25,234,149	1.232%
JNL/DoubleLine® Total Return Fund	Connecticut Avenue Securities Trust 2024-R04	5/25/2044	6.26	Fixed Income	14,698,511	14,701,029	0.718%
JNL/DoubleLine® Total Return Fund	Switch ABS Issuer, LLC	6/25/2054	5.44	Fixed Income	2,500,000	2,528,694	0.123%
JNL/DoubleLine® Total Return Fund	Bridge Street CLO I Ltd	7/20/2037	6.89	Fixed Income	10,000,000	10,173,266	0.497%
JNL/DoubleLine® Total Return Fund	Allegro CLO V-S Ltd	7/24/2037	6.78	Fixed Income	3,000,000	3,051,187	0.149%
JNL/DoubleLine® Total Return Fund	Cavend CLO X-C Ltd	7/20/2037	6.75	Fixed Income	4,000,000	4,069,593	0.199%
JNL/DoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	6/1/2031	5.81	Fixed Income	17,862,000	18,833,322	0.920%
JNL/DoubleLine® Total Return Fund	HalseyPoint CLO II, Ltd.	7/20/2037	6.73	Fixed Income	6,000,000	6,112,736	0.298%
JNL/DoubleLine® Total Return Fund	WFRBS Commercial Mortgage Trust 2014-C24	10/18/2024	3.61	Fixed Income	1,894,475	1,894,497	0.092%
JNL/DoubleLine® Total Return Fund	ASSET 2024-1	5/16/2031	6.26	Fixed Income	2,458,566	2,551,507	0.125%
JNL/DoubleLine® Total Return Fund	MF1 2024-FL15 LLC	8/18/2041	6.65	Fixed Income	2,500,000	2,506,468	0.122%
JNL/DoubleLine® Total Return Fund	Cedar Funding IX CLO Ltd	7/20/2037	6.71	Fixed Income	1,000,000	1,013,370	0.049%
JNL/DoubleLine® Total Return Fund	Warwick Capital CLO 4 Ltd.	7/20/2037	6.46	Fixed Income	3,000,000	3,020,965	0.147%
JNL/DoubleLine® Total Return Fund	BX Commercial Mortgage Trust 2024-AIRC	8/17/2026	6.79	Fixed Income	1,780,000	1,787,592	0.087%
JNL/DoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	8/25/2052	3.00	Fixed Income	24,493,314	21,518,258	1.051%
JNL/DoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2054	5.50	Fixed Income	3,733,910	3,853,253	0.188%
JNL/DoubleLine® Total Return Fund	Sound Point CLO XXX Ltd	4/25/2034	6.62	Fixed Income	1,000,000	1,012,997	0.049%
JNL/DoubleLine® Total Return Fund	ASSET 2024-1	5/16/2031	6.90	Fixed Income	995,798	1,026,090	0.050%
JNL/DoubleLine® Total Return Fund	PRPM 2024-4, LLC	8/25/2027	6.41	Fixed Income	3,727,301	3,759,335	0.184%
JNL/DoubleLine® Total Return Fund	Benchmark 2024-V9 Mortgage Trust	8/17/2029	5.60	Fixed Income	2,636,000	2,746,245	0.134%
JNL/DoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2029	4.96	Fixed Income	9,685,000	9,919,867	0.484%
JNL/DoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2031	5.45	Fixed Income	6,907,000	7,206,284	0.352%
JNL/DoubleLine® Total Return Fund	Battalion CLO XXII Ltd	10/15/2037	6.56	Fixed Income	1,000,000	1,005,200	0.049%
JNL/DoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	3/1/2052	3.00	Fixed Income	30,478,820	27,817,047	1.358%
JNL/DoubleLine® Total Return Fund	DBCg 2017-BBG Mortgage Trust	6/15/2034	8.50	Fixed Income	1,724,962	1,734,499	0.085%
JNL/DoubleLine® Total Return Fund	BDS 2024-FL13 LLC	6/19/2029	6.93	Fixed Income	2,600,000	2,600,878	0.127%
JNL/DoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	7/1/2054	5.50	Fixed Income	20,130,833	20,723,930	1.012%
JNL/DoubleLine® Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2054	5.50	Fixed Income	10,475,845	10,784,485	0.527%
JNL/DoubleLine® Total Return Fund	BBCMS Mortgage Trust 2024-SC29	9/1/2029	5.21	Fixed Income	2,629,000	2,703,415	0.132%
JNL/DoubleLine® Total Return Fund	Benchmark 2024-V10 Mortgage Trust	9/17/2029	5.28	Fixed Income	2,650,000	2,726,156	0.133%
JNL/DoubleLine® Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	10,864,058	11,180,927	0.546%
JNL/DoubleLine® Total Return Fund	Morgan Stanley Capital I Trust 2024-NSTB	9/25/2057	3.90	Fixed Income	2,630,000	2,546,920	0.124%
Total Non Derivatives						2,047,463,560	
Derivatives							
JNL/DoubleLine® Total Return Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	1,960	(253,901)	-0.012%
JNL/DoubleLine® Total Return Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	3,650	1,719,603	0.084%
JNL/DoubleLine® Total Return Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	760	(522,831)	-0.026%
JNL/DoubleLine® Total Return Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-1,420	303,746	0.015%
JNL/DoubleLine® Total Return Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	290	(573,236)	-0.028%
Total Derivatives						673,381	
Total All Investments						2,048,136,941	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Emerging Markets Index Fund	Cash			Cash Equivalent	643,421	643,421	0.073%
JNL Emerging Markets Index Fund	Shanghai International Airport Co., Ltd.			Equity	16,100	87,762	0.010%
JNL Emerging Markets Index Fund	Centrais Eletricas Brasileiras S/A			Equity	22,551	180,733	0.020%
JNL Emerging Markets Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	7,114,396	7,132,975	0.805%
JNL Emerging Markets Index Fund	ITSCCO Financial Group Public Company Limited			Equity	38,900	316,848	0.036%
JNL Emerging Markets Index Fund	Petrobras Brasileiro S/A Petrobras			Equity	465,258	3,172,505	0.358%
JNL Emerging Markets Index Fund	Gulf Bank K.S.C.P.			Equity	255,365	253,479	0.029%
JNL Emerging Markets Index Fund	National Bank of Kuwait S.A.K.P.			Equity	847,393	2,452,303	0.277%
JNL Emerging Markets Index Fund	Telefonica Brasil S.A.			Equity	41,218	434,582	0.049%
JNL Emerging Markets Index Fund	ACC Limited			Equity	8,571	258,207	0.029%
JNL Emerging Markets Index Fund	Apollo Hospitals Enterprise Limited			Equity	11,106	956,301	0.108%
JNL Emerging Markets Index Fund	MRF Limited			Equity	327	541,908	0.061%
JNL Emerging Markets Index Fund	Muthoot Finance Limited			Equity	10,063	244,843	0.028%
JNL Emerging Markets Index Fund	Adam Green Energy (UP) Limited			Equity	38,719	894,328	0.100%
JNL Emerging Markets Index Fund	LTIMindtree Limited			Equity	9,428	704,896	0.080%
JNL Emerging Markets Index Fund	Yes Bank Limited			Equity	2,081,156	562,682	0.063%
JNL Emerging Markets Index Fund	Chifeng Jilong Gold Mining Co., Ltd.			Equity	11,000	31,588	0.004%
JNL Emerging Markets Index Fund	Guangzhou Yueshi Capital Holdings Group Co., Ltd.			Equity	39,912	38,924	0.004%
JNL Emerging Markets Index Fund	Jiugu Liquor Co., Ltd.			Equity	2,900	21,021	0.002%
JNL Emerging Markets Index Fund	Shanghai Yio Express Co., Ltd. Dalian Branch			Equity	31,800	80,525	0.009%
JNL Emerging Markets Index Fund	Abu Dhabi Islamic Bank			Equity	154,363	534,709	0.060%
JNL Emerging Markets Index Fund	Aquity Public Warehousing Company KSCP			Equity	160,207	115,155	0.013%
JNL Emerging Markets Index Fund	Kingfa Sci. & Tech. Co., Ltd.			Equity	17,800	21,172	0.002%
JNL Emerging Markets Index Fund	Humanwell Healthcare (Group) Co., Ltd.			Equity	16,900	50,605	0.006%
JNL Emerging Markets Index Fund	Faw Jiefang Group Co., Ltd.			Equity	32,900	43,292	0.005%
JNL Emerging Markets Index Fund	Mabian Company (K.P.S.C)			Equity	59,793	164,151	0.018%
JNL Emerging Markets Index Fund	Sinoma Science & Technology Co., Ltd.			Equity	18,700	34,047	0.004%
JNL Emerging Markets Index Fund	Boubayn Bank K.S.C.P.			Equity	111,969	209,257	0.024%
JNL Emerging Markets Index Fund	Mobile Telecommunications Company, K.S.C.P			Equity	209,238	332,620	0.038%
JNL Emerging Markets Index Fund	Kuwait Finance House Kscp			Equity	1,242,019	2,915,009	0.329%
JNL Emerging Markets Index Fund	Qatar Gas Transport Company Ltd.			Equity	347,871	415,377	0.047%
JNL Emerging Markets Index Fund	Oneness Biotech Co., Ltd.			Equity	28,777	130,721	0.015%
JNL Emerging Markets Index Fund	JA Solar Technology Co., Ltd.			Equity	3,452	6,604	0.001%
JNL Emerging Markets Index Fund	Shanghai Barun Investment Holding Group Co., Ltd.			Equity	9,520	30,782	0.003%
JNL Emerging Markets Index Fund	Kuans-Chi Technologies Co., Ltd.			Equity	16,100	64,145	0.007%
JNL Emerging Markets Index Fund	Guangzhou Tinci Materials Technology Co., Ltd.			Equity	4,800	12,574	0.001%
JNL Emerging Markets Index Fund	Smoores International Holdings Limited			Equity	172,000	283,004	0.032%
JNL Emerging Markets Index Fund	China Zhenjiang Bank Co., Ltd.			Equity	151,300	63,266	0.007%
JNL Emerging Markets Index Fund	Shandong Gold Group Co., Ltd.			Equity	71,000	54,614	0.006%
JNL Emerging Markets Index Fund	Hangzhou First Applied Material Co., Ltd.			Equity	12,069	30,152	0.003%
JNL Emerging Markets Index Fund	Dr Sulaiman Al Habib For Medical Service Group Company (Closed Joint Stock)			Equity	9,635	762,663	0.086%
JNL Emerging Markets Index Fund	SK Biopharmaceuticals Co., Ltd.			Equity	2,677	213,709	0.024%
JNL Emerging Markets Index Fund	Chongqing Rural Commercial Bank Co., Ltd.			Equity	70,700	54,614	0.006%
JNL Emerging Markets Index Fund	Guelian Securities Co., Ltd.			Equity	19,700	34,937	0.004%
JNL Emerging Markets Index Fund	Anjing Food Group Co., Ltd.			Equity	2,600	36,414	0.004%
JNL Emerging Markets Index Fund	PT. Merdeka Copper Gold Tbk			Equity	1,078,600	194,108	0.022%
JNL Emerging Markets Index Fund	Jason Furniture (Hangzhou) Co., Ltd.			Equity	3,100	31,153	0.004%
JNL Emerging Markets Index Fund	Yadea Group Holdings Ltd			Equity	108,000	190,590	0.022%
JNL Emerging Markets Index Fund	DaShenLin Pharmaceutical Group Co., Ltd.			Equity	8,294	19,111	0.002%
JNL Emerging Markets Index Fund	SKSHU Paint Co., Ltd.			Equity	6,620	25,567	0.003%
JNL Emerging Markets Index Fund	JO Health International Inc.			Equity	106,150	484,151	0.054%
JNL Emerging Markets Index Fund	China Resources Mixc Lifestyle Services Limited			Equity	70,400	313,041	0.035%
JNL Emerging Markets Index Fund	Yang Ming Marine Transport Corporation			Equity	181,000	396,974	0.045%
JNL Emerging Markets Index Fund	Haier Smart Home Co., Ltd.			Equity	234,604	925,298	0.104%
JNL Emerging Markets Index Fund	Flat Glass Group Co., Ltd.			Equity	51,000	86,005	0.010%
JNL Emerging Markets Index Fund	Giga-BYTE Technology Co., Ltd.			Equity	59,000	459,897	0.052%
JNL Emerging Markets Index Fund	Radiant Opto-Electronics Corporation			Equity	44,000	271,379	0.031%
JNL Emerging Markets Index Fund	Simple Technology Co., Ltd.			Equity	16,000	178,384	0.020%
JNL Emerging Markets Index Fund	Kualatong Technology			Equity	294,900	2,029,213	0.229%
JNL Emerging Markets Index Fund	Araska Tambang (Persero) PT TBK			Equity	654,200	64,145	0.007%
JNL Emerging Markets Index Fund	Nan Ya P.C.B. Service Company			Equity	18,000	80,729	0.009%
JNL Emerging Markets Index Fund	China International Capital Corporation Limited			Equity	17,200	93,839	0.011%
JNL Emerging Markets Index Fund	Ecovacs Robotics Co., Ltd.			Equity	500	3,628	0.000%
JNL Emerging Markets Index Fund	Sendas Distribution S/A			Equity	141,957	159,697	0.017%
JNL Emerging Markets Index Fund	Leader Harmonious Drive Systems Co., Ltd.			Equity	1,650	22,158	0.002%
JNL Emerging Markets Index Fund	Beijing Kingsoft Office Software Co., Ltd.			Equity	3,782	142,182	0.016%
JNL Emerging Markets Index Fund	Baidu, Inc.			Equity	230,250	3,000,081	0.338%
JNL Emerging Markets Index Fund	Montage Technology Co., Ltd.			Equity	10,539	10,539	0.001%
JNL Emerging Markets Index Fund	Hanwha Aerospace CO., LTD.			Equity	3,100	703,984	0.079%
JNL Emerging Markets Index Fund	Wanglujing Group Co., Ltd.			Equity	8,700	19,850	0.002%
JNL Emerging Markets Index Fund	Oil India Limited			Equity	62,479	437,216	0.049%
JNL Emerging Markets Index Fund	National Bank of Greece SA			Equity	76,240	652,657	0.074%
JNL Emerging Markets Index Fund	Page Industries Limited			Equity	605	310,263	0.035%
JNL Emerging Markets Index Fund	ZTE Corporation			Equity	33,200	146,608	0.017%
JNL Emerging Markets Index Fund	TCL Technology Group Corporation			Equity	163,790	105,847	0.012%
JNL Emerging Markets Index Fund	Hengji Petrochemical (Dalian) Co., Ltd.			Equity	26,700	69,400	0.007%
JNL Emerging Markets Index Fund	Shandong Linglong Tyre Co., Ltd.			Equity	13,800	39,401	0.004%
JNL Emerging Markets Index Fund	Hua Hong Semiconductor Limited			Equity	61,000	162,918	0.018%
JNL Emerging Markets Index Fund	NARI Technology Co., Ltd.			Equity	60,826	238,322	0.027%
JNL Emerging Markets Index Fund	GD Power Development Co., Ltd.			Equity	112,800	87,631	0.010%
JNL Emerging Markets Index Fund	Bicycle Club Joint Venture, L.P.			Equity	400	16,653	0.000%
JNL Emerging Markets Index Fund	China Shenhua Energy Company Limited			Equity	50,900	313,802	0.035%
JNL Emerging Markets Index Fund	Trip.com Group Limited			Equity	56,050	3,371,722	0.380%
JNL Emerging Markets Index Fund	Grupo Elektra S.A.B. de C.V.			Equity	5,650	271,151	0.031%
JNL Emerging Markets Index Fund	PT. Mayora Indah Tbk			Equity	280,200	52,589	0.006%
JNL Emerging Markets Index Fund	Enka Insaat Ve Sanayi Anonim Sirketi			Equity	73,775	98,018	0.011%
JNL Emerging Markets Index Fund	PT Vale Indonesia Tbk			Equity	208,000	56,161	0.006%
JNL Emerging Markets Index Fund	San Miguel Corporation			Equity	45,450	73,077	0.008%
JNL Emerging Markets Index Fund	Intertek Peru Corp.			Equity	3,662	13,043	0.001%
JNL Emerging Markets Index Fund	China Merchants Securities Co., Ltd.			Equity	81,600	96,115	0.011%
JNL Emerging Markets Index Fund	PT Transcoast Pacific Tbk			Equity	110,100	50,825	0.006%
JNL Emerging Markets Index Fund	PT Mitra Keluarga Karyasat Tbk			Equity	614,000	128,999	0.015%
JNL Emerging Markets Index Fund	Larzon Pharmaceutical Group Inc.			Equity	10,500	39,912	0.004%
JNL Emerging Markets Index Fund	SCS Paper Public Company Limited			Equity	50,100	45,191	0.005%
JNL Emerging Markets Index Fund	Siam Global House Public Company Limited			Equity	94,956	46,892	0.005%
JNL Emerging Markets Index Fund	Emperador Inc.			Equity	226,700	75,932	0.009%
JNL Emerging Markets Index Fund	Public Joint Stock Company Rostelecom			Equity	156,580	0	0.000%
JNL Emerging Markets Index Fund	Public Joint Stock Company Yarnell Named After V.D. Shashin			Equity	9,430	0	0.000%
JNL Emerging Markets Index Fund	Iausa S.A.			Equity	131,367	268,920	0.030%
JNL Emerging Markets Index Fund	Companhia Paranaense De Energia			Equity	94,563	159,002	0.018%
JNL Emerging Markets Index Fund	Quinenco S.A.			Equity	29,257	98,686	0.011%
JNL Emerging Markets Index Fund	HELLENIO ENERGY Holdings Societe Anonyme			Equity	6,508	50,738	0.006%
JNL Emerging Markets Index Fund	Wan Hai Lines Ltd.			Equity	140,425	437,664	0.049%
JNL Emerging Markets Index Fund	Shanghai Baosight Software Co., Ltd.			Equity	57,908	99,061	0.011%
JNL Emerging Markets Index Fund	YTL Power International Berhad			Equity	255,100	226,851	0.026%
JNL Emerging Markets Index Fund	The Saudi Investment Bank			Equity	49,492	168,725	0.019%
JNL Emerging Markets Index Fund	International Holdings Limited			Equity	75,623	8,379,330	0.945%
JNL Emerging Markets Index Fund	Grupo Energia Bogota S.A. ESP			Equity	276,765	163,188	0.018%
JNL Emerging Markets Index Fund	Alupar Investimento S.A.			Equity	17,636	99,775	0.011%
JNL Emerging Markets Index Fund	CNPC Capital Company Limited			Equity	43,900	45,475	0.005%
JNL Emerging Markets Index Fund	Hanjikai			Equity	3,376	211,984	0.024%
JNL Emerging Markets Index Fund	Hyundai Rotem Company			Equity	6,763	279,720	0.032%
JNL Emerging Markets Index Fund	Hongta Securities Co., Ltd.			Equity	24,900	30,869	0.003%
JNL Emerging Markets Index Fund	Citic Pacific Special Steel Group Co., Ltd.			Equity	12,900	24,867	0.003%
JNL Emerging Markets Index Fund	Awary Holding (Shenzhen) Co., Ltd.			Equity	11,800	60,179	0.007%
JNL Emerging Markets Index Fund	Guangxi Guiguan Electric Power Co., Ltd.			Equity	16,700	16,665	0.002%
JNL Emerging Markets Index Fund	Qingdao Port International Co., Ltd.			Equity	8,400	10,935	0.001%
JNL Emerging Markets Index Fund	Momo.Com Inc.			Equity	10,579	131,502	0.015%
JNL Emerging Markets Index Fund	Datang International Power Generation Co., Ltd.			Equity	45,900	19,377	0.002%
JNL Emerging Markets Index Fund	Ninovia Baofeng Energy Group Shares Co., Ltd.			Equity	62,000	152,600	0.017%
JNL Emerging Markets Index Fund	China Coal Energy Company Limited			Equity	19,500	40,738	0.005%
JNL Emerging Markets Index Fund	Bank of Chongqing Co., Ltd.			Equity	34,100	40,474	0.005%
JNL Emerging Markets Index Fund	Jiangsu Expressway Company Limited			Equity	2,100	4,253	0.000%
JNL Emerging Markets Index Fund	Chongqing Water Conservancy Investment (Group) Co., Ltd.			Equity	11,400	8,074	0.001%
JNL Emerging Markets Index Fund	Shanghai Lujiazui Finance & Trade Zone Development Co., Ltd.			Equity	19,000	29,529	0.003%
JNL Emerging Markets Index Fund	China CSSC Holdings Limited			Equity	39,200	180,703	0.021%
JNL Emerging Markets Index Fund	Flat Glass Group Co., Ltd.			Equity	12,200	34,973	0.004%
JNL Emerging Markets Index Fund	China Oilfield Services Limited			Equity	21,700	49,580	0.006%
JNL Emerging Markets Index Fund	Sinopec Oilfield Service Corporation			Equity	8,000	2,351	0.000%
JNL Emerging Markets Index Fund	Companhia Energetica de Minas Gerais-CEMIG			Equity	35,200	101,350	0.011%
JNL Emerging Markets Index Fund	Abu Dhabi National Oil Company			Equity	294,745	288,275	0.034%
JNL Emerging Markets Index Fund	Zhejiang Weiming Environment Protection Co., Ltd.			Equity	2,770	8,588	0.001%
JNL Emerging Markets Index Fund	Bluestar Adisseo Co., Ltd.			Equity	24,200	38,546	0.004%
JNL Emerging Markets Index Fund	Samsung SDI Co., Ltd.	1.00		Equity	194	33,553	0.004%
JNL Emerging Markets Index Fund	L.G. Electronics Inc.			Equity	2,327	29,875	0.003%
JNL Emerging Markets Index Fund	Samsung Fire & Marine Insurance Co., Ltd.			Equity	324	68,075	0.008%
JNL Emerging Markets Index Fund	NMDC Limited			Equity	123,931	366,476	0.041%
JNL Emerging Markets Index Fund	Mphesi Limited			Equity	8,379	302,136	0.034%
JNL Emerging Markets Index Fund	TVS Motor Company Limited			Equity	23,190	789,267	0.089%
JNL Emerging Markets Index Fund	Sundaram Finance Limited			Equity	10,567	666,932	0.075%
JNL Emerging Markets Index Fund	AU Small Finance Bank Limited			Equity	37,604	333,336	0.038%
JNL Emerging Markets Index Fund	SBI Cards and Payment Services Private Limited			Equity	28,594	264,634	0.030%
JNL Emerging Markets Index Fund	Adani Energy Solutions Limited			Equity	31,591	383,193	0.043%
JNL Emerging Markets Index Fund	Alkem Laboratories Limited			Equity	6,196	448,746	0.051%
JNL Emerging Markets Index Fund	Jindal Steel & Power Limited			Equity	47,589	592,638	0.067%
JNL Emerging Markets Index Fund	Billbil Inc			Equity	24,720	575,967	0.065%
JNL Emerging Markets Index Fund	Huizhou Desay SV Automotive Co., Ltd.			Equity	2,400	40,676	0.005%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Public Joint Stock Company Phosagro			Equity	6,055	0	0.000%
JNL Emerging Markets Index Fund	Public Joint Stock Company Novatek			Equity	120,595	0	0.000%
JNL Emerging Markets Index Fund	Guangzhou Baiyunshan Pharmaceutical Holdings Co., Ltd.			Equity	20,000	52,740	0.006%
JNL Emerging Markets Index Fund	Orient Securities Company Limited			Equity	89,200	56,933	0.006%
JNL Emerging Markets Index Fund	BeiGene, Ltd.			Equity	70,823	1,281,621	0.145%
JNL Emerging Markets Index Fund	Shenzhen Hongyan Group Co., Ltd.			Equity	197,600	51,705	0.006%
JNL Emerging Markets Index Fund	China Zhehang Bank Co., Ltd.			Equity	125,000	35,667	0.004%
JNL Emerging Markets Index Fund	Grupo Comercial Chedraui, S.A.B. de C.V.			Equity	46,000	344,544	0.039%
JNL Emerging Markets Index Fund	WT Microelectronics Co., Ltd.			Equity	76,000	254,872	0.029%
JNL Emerging Markets Index Fund	Yunnan Yunlianhua Co., Ltd.			Equity	16,200	51,936	0.006%
JNL Emerging Markets Index Fund	Starpower Semiconductor Ltd.			Equity	2,380	16,854	0.003%
JNL Emerging Markets Index Fund	HMM Co., Ltd.			Equity	28,038	397,318	0.045%
JNL Emerging Markets Index Fund	Jiangsu Eastern Shenghong Co., Ltd.			Equity	45,900	60,346	0.007%
JNL Emerging Markets Index Fund	Adani Enterprises Limited			Equity	41,326	1,555,409	0.175%
JNL Emerging Markets Index Fund	PT. Sumber Alfaria Trijaya			Equity	1,918,100	31,287	0.004%
JNL Emerging Markets Index Fund	Adani Gas Limited			Equity	27,612	260,506	0.029%
JNL Emerging Markets Index Fund	SK Bioscience Co., Ltd.			Equity	2,927	124,511	0.014%
JNL Emerging Markets Index Fund	Gan & Lee Pharmaceuticals			Equity	5,900	26,886	0.003%
JNL Emerging Markets Index Fund	ACEA Corporation			Equity	917,740	88,171	0.010%
JNL Emerging Markets Index Fund	New Oriental Education & Technology Group Inc.			Equity	145,500	1,134,060	0.128%
JNL Emerging Markets Index Fund	ZTO Express (Cayman) Inc.			Equity	43,700	1,100,660	0.124%
JNL Emerging Markets Index Fund	POF MART International Group Limited			Equity	63,400	429,016	0.048%
JNL Emerging Markets Index Fund	Mt D.I.Y. Group (M) Berhad			Equity	317,700	163,572	0.018%
JNL Emerging Markets Index Fund	Zhongtai Securities Co., Ltd.			Equity	23,500	24,367	0.003%
JNL Emerging Markets Index Fund	Rede D'or Sao Luiz S.A.			Equity	128,777	737,911	0.083%
JNL Emerging Markets Index Fund	SASA Polyester Sarawai A.S.			Equity	967,040	122,005	0.014%
JNL Emerging Markets Index Fund	Full Truck Alliance Co., Ltd.			Equity	74,248	668,863	0.075%
JNL Emerging Markets Index Fund	Yueshi Property Company Limited			Equity	128,000	103,226	0.012%
JNL Emerging Markets Index Fund	Mouwassat Medical Services Co.			Equity	9,556	254,631	0.029%
JNL Emerging Markets Index Fund	Huafon Chemical Co., Ltd.			Equity	27,200	32,328	0.004%
JNL Emerging Markets Index Fund	Xpeng Inc.			Equity	127,200	193,357	0.008%
JNL Emerging Markets Index Fund	H World Group Limited			Equity	200,000	752,414	0.085%
JNL Emerging Markets Index Fund	KakaoBank Corp.			Equity	33,733	547,821	0.062%
JNL Emerging Markets Index Fund	Krafton, Inc.			Equity	3,138	826,007	0.093%
JNL Emerging Markets Index Fund	Hydrex Healthcare Holdings Co., Limited			Equity	32,000	96,879	0.011%
JNL Emerging Markets Index Fund	Northam Platinum Limited			Equity	34,347	208,590	0.024%
JNL Emerging Markets Index Fund	Siam Global House Public Company Limited			Equity	147,521	72,850	0.008%
JNL Emerging Markets Index Fund	Asiat World Corp Public Company Limited			Equity	507,000	59,620	0.007%
JNL Emerging Markets Index Fund	Bangkok Expressway and Metro Public Company Limited			Equity	483,767	122,434	0.014%
JNL Emerging Markets Index Fund	Wuzhou Minvoo Co., Ltd.			Equity	20,200	31,972	0.004%
JNL Emerging Markets Index Fund	Beijing Hualing Test & Control Technology Co., Ltd.			Equity	1,374	20,974	0.002%
JNL Emerging Markets Index Fund	Meituan			Equity	535,624	11,403,270	1.286%
JNL Emerging Markets Index Fund	Vibra Energia S/A			Equity	107,269	480,419	0.054%
JNL Emerging Markets Index Fund	Kakao Pay Corp.			Equity	80,844	80,844	0.009%
JNL Emerging Markets Index Fund	Priso S.A.			Equity	83,786	667,649	0.075%
JNL Emerging Markets Index Fund	Satellite Chemical Co., Ltd.			Equity	31,341	82,808	0.009%
JNL Emerging Markets Index Fund	Elite Material Co., Ltd.			Equity	33,000	469,854	0.053%
JNL Emerging Markets Index Fund	Asia Vital Components Co., Ltd.			Equity	39,000	656,549	0.074%
JNL Emerging Markets Index Fund	Sany Heavy Equipment Co., Ltd.			Equity	122,000	90,391	0.010%
JNL Emerging Markets Index Fund	Remegen, Ltd.			Equity	15,500	33,811	0.004%
JNL Emerging Markets Index Fund	SK Square Co., Ltd.			Equity	8,735	541,582	0.061%
JNL Emerging Markets Index Fund	Star Health and Allied Insurance Company Limited			Equity	21,876	159,204	0.018%
JNL Emerging Markets Index Fund	China Zhenhua (Group) Science & Technology Co., Ltd.			Equity	5,500	34,023	0.004%
JNL Emerging Markets Index Fund	SKC Co., Ltd.			Equity	1,944	214,610	0.024%
JNL Emerging Markets Index Fund	Sichuan New Energy Power Company Limited			Equity	16,700	27,813	0.003%
JNL Emerging Markets Index Fund	ENN Natural Gas Co., Ltd.			Equity	27,900	81,859	0.009%
JNL Emerging Markets Index Fund	Steel Authority of India Limited			Equity	144,147	246,517	0.028%
JNL Emerging Markets Index Fund	Hubei Xingfa Chemicals Group Co., Ltd.			Equity	12,900	41,101	0.005%
JNL Emerging Markets Index Fund	China Baolan Group Co., Ltd.			Equity	31,500	42,942	0.005%
JNL Emerging Markets Index Fund	Sichuan Road & Bridge (Group) Co., LTD			Equity	44,380	44,284	0.005%
JNL Emerging Markets Index Fund	LAIF Co., Ltd.			Equity	2,390	208,590	0.024%
JNL Emerging Markets Index Fund	E Ink Holdings Inc.			Equity	92,000	853,465	0.096%
JNL Emerging Markets Index Fund	Public Joint Stock Company PIK-Specialized Homebuilder			Equity	14,661	0	0.000%
JNL Emerging Markets Index Fund	Tianshan Aluminum Group Co., Ltd.			Equity	37,100	44,818	0.005%
JNL Emerging Markets Index Fund	Shenzhen Chengan Lithium Group Co., Ltd.			Equity	9,100	19,021	0.002%
JNL Emerging Markets Index Fund	Do-Fluoride New Materials Co., Ltd.			Equity	10,780	19,101	0.002%
JNL Emerging Markets Index Fund	JSW Energy Limited			Equity	63,369	557,592	0.063%
JNL Emerging Markets Index Fund	Meritz Financial Group Inc.			Equity	9,247	689,987	0.078%
JNL Emerging Markets Index Fund	Hongyuan Green Energy Co Ltd.			Equity	5,985	12,238	0.001%
JNL Emerging Markets Index Fund	Godrej Properties Limited			Equity	12,611	477,605	0.054%
JNL Emerging Markets Index Fund	Gongniu Group Co., Ltd.			Equity	3,625	42,762	0.005%
JNL Emerging Markets Index Fund	Shanghai BOCHU Electronic Technology Corporation Limited			Equity	1,568	46,879	0.005%
JNL Emerging Markets Index Fund	Beijing Roborock Technology Co., Ltd.			Equity	1,069	1,069	0.000%
JNL Emerging Markets Index Fund	Zomato Limited			Equity	635,077	2,082,915	0.235%
JNL Emerging Markets Index Fund	Indian Railway Catering And Tourism Corporation Limited			Equity	32,831	965,998	0.041%
JNL Emerging Markets Index Fund	Ecopro BM Co., Ltd.			Equity	4,787	682,638	0.077%
JNL Emerging Markets Index Fund	Western Superconducting Technologies Co., Ltd.			Equity	6,440	42,367	0.005%
JNL Emerging Markets Index Fund	LAT Technology Services Limited			Equity	2,508	160,715	0.018%
JNL Emerging Markets Index Fund	BOC International (China) Co., Ltd.			Equity	25,200	44,655	0.005%
JNL Emerging Markets Index Fund	Shenzhen Transion Holdings Co., Ltd.			Equity	8,776	134,757	0.015%
JNL Emerging Markets Index Fund	Macrochem Developers Limited			Equity	26,116	385,519	0.044%
JNL Emerging Markets Index Fund	Hyundai Heavy Industries Co., Ltd.			Equity	3,077	280,317	0.032%
JNL Emerging Markets Index Fund	Mingyang Smart Energy Group Co., Ltd.			Equity	23,000	35,401	0.004%
JNL Emerging Markets Index Fund	Shanghai Junshi Biosciences Co., Ltd.			Equity	6,130	27,610	0.003%
JNL Emerging Markets Index Fund	Monde Nissin Corporation			Equity	405,500	73,649	0.008%
JNL Emerging Markets Index Fund	Celco Seguridade Participacoes S/A			Equity	50,713	129,255	0.015%
JNL Emerging Markets Index Fund	Beijing Wantai Biological Pharmacy Enterprise Co., Ltd.			Equity	6,055	70,574	0.008%
JNL Emerging Markets Index Fund	Li Auto Inc.			Equity	121,100	1,563,710	0.176%
JNL Emerging Markets Index Fund	Zhuzhou CHRC Times Electric Co., Ltd.			Equity	13,833	104,305	0.012%
JNL Emerging Markets Index Fund	SGS Paper Public Company Limited			Equity	80,800	80,800	0.008%
JNL Emerging Markets Index Fund	National Silicon Industry Group Co., Ltd.			Equity	20,568	55,323	0.006%
JNL Emerging Markets Index Fund	Sona BLW Precision Forgings Limited			Equity	40,278	359,192	0.041%
JNL Emerging Markets Index Fund	Zhejiang Jizhou Pharmaceutical Co., Ltd.			Equity	8,100	18,217	0.002%
JNL Emerging Markets Index Fund	SK n Technology Co., Ltd.			Equity	1,982	55,026	0.006%
JNL Emerging Markets Index Fund	JD Logistics, Inc.			Equity	254,600	449,566	0.051%
JNL Emerging Markets Index Fund	Global Power Synergy Public Company Limited			Equity	48,800	72,878	0.008%
JNL Emerging Markets Index Fund	Bank of Baroda			Equity	108,082	320,718	0.036%
JNL Emerging Markets Index Fund	Hesheng Silicon Industry Co., Ltd.			Equity	5,700	48,421	0.005%
JNL Emerging Markets Index Fund	Anhui Yingjia Gongjiu Co. Ltd.			Equity	5,700	58,529	0.007%
JNL Emerging Markets Index Fund	PTT Oil And Retail Business Public Company Limited			Equity	383,200	209,807	0.024%
JNL Emerging Markets Index Fund	China Merchants Expressway Network & Technology Holdings Co., Ltd.			Equity	42,700	76,520	0.009%
JNL Emerging Markets Index Fund	CCN Power Co., Ltd.			Equity	121,700	121,700	0.009%
JNL Emerging Markets Index Fund	LG Chem, Ltd.			Equity	4,301	1,366,841	0.154%
JNL Emerging Markets Index Fund	Xiamen Xianyou Co., Ltd.			Equity	26,100	23,752	0.003%
JNL Emerging Markets Index Fund	Jiangsu Phoenix Publishing & Media Corporation Limited			Equity	21,500	36,614	0.004%
JNL Emerging Markets Index Fund	Energy Absolute Public Company Limited			Equity	215,500	81,261	0.007%
JNL Emerging Markets Index Fund	United Breweries Limited			Equity	6,240	102,859	0.018%
JNL Emerging Markets Index Fund	Jindal Stainless Limited			Equity	31,316	296,585	0.033%
JNL Emerging Markets Index Fund	Jubilant Foodworks Limited			Equity	38,861	317,388	0.036%
JNL Emerging Markets Index Fund	SCB X Public Company Limited			Equity	28,600	96,854	0.011%
JNL Emerging Markets Index Fund	SCB X Public Company Limited			Equity	67,700	229,265	0.026%
JNL Emerging Markets Index Fund	Beijing United Information Technology Co., Ltd.			Equity	5,945	20,803	0.002%
JNL Emerging Markets Index Fund	Xiamen Faratronic Co., Ltd.			Equity	1,800	26,312	0.003%
JNL Emerging Markets Index Fund	Zhejiang SUPCON Technology Co., Ltd.			Equity	7,492	53,429	0.006%
JNL Emerging Markets Index Fund	Arabian Internet And Communications Services Company			Equity	2,391	190,171	0.020%
JNL Emerging Markets Index Fund	Elm Company			Equity	2,511	779,371	0.088%
JNL Emerging Markets Index Fund	Saudi Tadawul Group Holding Company			Equity	4,912	297,199	0.034%
JNL Emerging Markets Index Fund	Compania Sud Americana de Vapores S.A.			Equity	1,357,022	82,970	0.009%
JNL Emerging Markets Index Fund	Adani Power Limited			Equity	109,694	862,104	0.097%
JNL Emerging Markets Index Fund	China Suntime Green Energy Corporation Limited			Equity	198,000	92,536	0.010%
JNL Emerging Markets Index Fund	Peritote plc			Equity	82,188	58,552	0.007%
JNL Emerging Markets Index Fund	AFORTI Holding S.A.			Equity	310,191	320,599	0.036%
JNL Emerging Markets Index Fund	PT. Adani Minerals Indonesia Tbk			Equity	393,600	37,756	0.004%
JNL Emerging Markets Index Fund	Alpha Dhabi Holding			Equity	139,269	436,460	0.049%
JNL Emerging Markets Index Fund	Multipleplay Group PJSC			Equity	314,791	202,499	0.023%
JNL Emerging Markets Index Fund	Powerchip Semiconductor Manufacturing Corp.			Equity	358,000	243,542	0.027%
JNL Emerging Markets Index Fund	Yongrong Special Materials Technology Co., Ltd.			Equity	32,500	32,500	0.003%
JNL Emerging Markets Index Fund	Operadora de Siles Mexicanos, S.A. de C.V.			Equity	102,201	80,505	0.009%
JNL Emerging Markets Index Fund	China Railway Signal & Communication Corporation Limited			Equity	63,000	56,517	0.006%
JNL Emerging Markets Index Fund	NIO, Inc.			Equity	135,719	947,266	0.107%
JNL Emerging Markets Index Fund	China Energy Engineering Corporation Limited			Equity	658,000	83,301	0.009%
JNL Emerging Markets Index Fund	CP Atria Public Company Limited			Equity	219,700	221,800	0.025%
JNL Emerging Markets Index Fund	PB Fintech Limited			Equity	27,436	531,668	0.060%
JNL Emerging Markets Index Fund	Goto Gojek Tokopedia Tbk. PT			Equity	80,517,700	351,623	0.040%
JNL Emerging Markets Index Fund	PT Dayamita Telekomunikasi			Equity	1,118,400	47,278	0.005%
JNL Emerging Markets Index Fund	Mine Asset Securities Co., Ltd.	2.70		Equity	18,130	44,752	0.005%
JNL Emerging Markets Index Fund	Procter & Gamble Hygiene and Health Care Limited			Equity	954	190,201	0.021%
JNL Emerging Markets Index Fund	Public Joint Stock Company Phosagro			Equity	70	0	0.000%
JNL Emerging Markets Index Fund	Tata Steel Limited			Equity	844,408	1,707,045	0.193%
JNL Emerging Markets Index Fund	China Tourism Group Duty Free Corporation Limited			Equity	12,200	117,430	0.013%
JNL Emerging Markets Index Fund	Bajaj Finserv Limited			Equity	39,352	929,148	0.105%
JNL Emerging Markets Index Fund	Easyhome New Retail Group Corporation Limited			Equity	69,400	28,795	0.003%
JNL Emerging Markets Index Fund	China Resources Microelectronics Limited			Equity	9,939	66,463	0.007%
JNL Emerging Markets Index Fund	Eastco Beverage(Group) Co., Ltd.			Equity	1,600	61,762	0.007%
JNL Emerging Markets Index Fund	Remegen, Ltd.			Equity	3,882	19,284	0.002%
JNL Emerging Markets Index Fund	Indian Hotels Company Limited, The			Equity	91,779	753,106	0.085%
JNL Emerging Markets Index Fund	Walsin Lihua Corporation			Equity	306,892	338,360	0.038%
JNL Emerging Markets Index Fund	Rand Merchant Investment Holdings Limited			Equity	83,853	282,296	0.032%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Al Nahdi Medical Co			Equity	4,127	144,995	0.016%
JNL Emerging Markets Index Fund	Acwa Power Company			Equity	13,538	1,765,538	0.231%
JNL Emerging Markets Index Fund	Copper Sub Corporation, Inc.			Equity	29,250	35,123	0.004%
JNL Emerging Markets Index Fund	Shenzhen SED Industry Co., Ltd.			Equity	11,500	28,387	0.003%
JNL Emerging Markets Index Fund	Ningbo Shanshan Co., Ltd.			Equity	15,900	20,989	0.002%
JNL Emerging Markets Index Fund	Shandong Hi-Speed 77Group Co., Ltd.			Equity	18,900	24,737	0.003%
JNL Emerging Markets Index Fund	KEDA Industrial Group Co. Ltd.			Equity	18,900	23,187	0.003%
JNL Emerging Markets Index Fund	Asia-Potash International Investment (Guangzhou)Co. Ltd.			Equity	10,000	27,317	0.003%
JNL Emerging Markets Index Fund	Berli Jucker Public Company Limited			Equity	8,110	6,228	0.001%
JNL Emerging Markets Index Fund	Hadiqua Chemical Science & Technology Corp., Ltd.			Equity	7,000	31,734	0.004%
JNL Emerging Markets Index Fund	Shanghai Fudan Microelectronics Group Co., Ltd.			Equity	32,000	57,897	0.007%
JNL Emerging Markets Index Fund	Zangge Mining Company Limited			Equity	12,700	51,609	0.006%
JNL Emerging Markets Index Fund	Haisco Pharmaceutical Group Co., Ltd.			Equity	6,600	34,769	0.004%
JNL Emerging Markets Index Fund	Hualbei Mining Co., Ltd.			Equity	20,900	53,611	0.006%
JNL Emerging Markets Index Fund	Hangzhou Binjiang Real Estate Group Co., Ltd.			Equity	30,100	47,882	0.005%
JNL Emerging Markets Index Fund	ABB India Limited			Equity	5,517	533,258	0.060%
JNL Emerging Markets Index Fund	Jiangxi Special Electric Motor Co., Ltd.			Equity	15,000	18,206	0.002%
JNL Emerging Markets Index Fund	Tube Investments of India Limited			Equity	12,801	663,754	0.075%
JNL Emerging Markets Index Fund	Hangzhou Oxygen Plant Group Co., Ltd.			Equity	7,800	26,090	0.003%
JNL Emerging Markets Index Fund	IRAY Technology Company Limited			Equity	1,314	23,475	0.003%
JNL Emerging Markets Index Fund	Gmexico Transportes, S.A.B. De C.V.			Equity	42,800	74,449	0.008%
JNL Emerging Markets Index Fund	Pharmal-Santitas Corp.			Equity	28,000	562,037	0.063%
JNL Emerging Markets Index Fund	Bloomage Biotechnology Corporation Limited			Equity	2,379	23,662	0.003%
JNL Emerging Markets Index Fund	Anlogic (Shanghai) Co., Ltd.			Equity	3,419	34,152	0.004%
JNL Emerging Markets Index Fund	Ningbo Ronbay New Energy Technology Co., Ltd.			Equity	3,788	15,669	0.002%
JNL Emerging Markets Index Fund	Patanjali Foods Limited			Equity	8,111	163,243	0.018%
JNL Emerging Markets Index Fund	Keboda Technology Co. Ltd.			Equity	1,400	12,237	0.001%
JNL Emerging Markets Index Fund	Hebei Sinopak Electronic Technology Co., Ltd.			Equity	2,100	13,968	0.002%
JNL Emerging Markets Index Fund	Dubai Electricity and Water Authority			Equity	849,482	589,574	0.067%
JNL Emerging Markets Index Fund	Adam Wilmar Limited			Equity	8,375	35,017	0.004%
JNL Emerging Markets Index Fund	Bethel Automotive Safety Systems Co., Ltd			Equity	5,040	34,854	0.004%
JNL Emerging Markets Index Fund	Yuxin Autotech Technology Co., Ltd.			Equity	2,977	21,359	0.002%
JNL Emerging Markets Index Fund	Rockchip Electronics Co., Ltd.			Equity	3,700	34,300	0.004%
JNL Emerging Markets Index Fund	KE Holdings Inc.			Equity	221,100	1,655,952	0.187%
JNL Emerging Markets Index Fund	China Energy Engineering Corporation Limited			Equity	263,700	90,185	0.010%
JNL Emerging Markets Index Fund	Salk Company P.L.C			Equity	177,774	200,728	0.023%
JNL Emerging Markets Index Fund	Shanghai Fudan Microelectronics Group Co., Ltd.			Equity	5,114	25,641	0.003%
JNL Emerging Markets Index Fund	AIMA Technology Group Co., Ltd.			Equity	6,000	32,024	0.004%
JNL Emerging Markets Index Fund	Ningbo Deyu Technology Co., Ltd.			Equity	2,396	34,424	0.004%
JNL Emerging Markets Index Fund	Hangzhou Lion Microelectronics Co., Ltd.			Equity	5,800	29,989	0.003%
JNL Emerging Markets Index Fund	Adnoc Drilling Company PJSC			Equity	196,804	253,648	0.029%
JNL Emerging Markets Index Fund	Cadila Securities Co., Ltd.			Equity	32,800	37,164	0.004%
JNL Emerging Markets Index Fund	China Southern Power Grid Co., Ltd.			Equity	32,000	22,049	0.002%
JNL Emerging Markets Index Fund	FSN E-Commerce Ventures Private Limited			Equity	289,616	200,728	0.023%
JNL Emerging Markets Index Fund	Eastern Air Logistics Co., Ltd.			Equity	11,600	30,560	0.003%
JNL Emerging Markets Index Fund	Goodwe Technologies Co., Ltd.			Equity	1,808	15,459	0.002%
JNL Emerging Markets Index Fund	China Suntime Green Energy Corporation Limited			Equity	8,000	9,304	0.001%
JNL Emerging Markets Index Fund	Abu Dhabi Ports Company PJSC			Equity	72,339	100,138	0.011%
JNL Emerging Markets Index Fund	Sinomine Resource Group Co., Ltd.			Equity	5,600	28,869	0.003%
JNL Emerging Markets Index Fund	China Three Gorges New Energy (Group) Co., Ltd.			Equity	261,800	180,107	0.020%
JNL Emerging Markets Index Fund	Yongan Futures Co., Ltd.			Equity	5,000	10,688	0.001%
JNL Emerging Markets Index Fund	Tencent Music Entertainment Group			Equity	131,000	819,422	0.092%
JNL Emerging Markets Index Fund	Levinia Advanced Materials Corporation			Equity	9,200	21,251	0.002%
JNL Emerging Markets Index Fund	Shanghai Rural Commercial Bank Co., Ltd.			Equity	85,300	89,946	0.010%
JNL Emerging Markets Index Fund	Ningbo Orient Wires & Cables Co., Ltd.			Equity	6,400	50,343	0.006%
JNL Emerging Markets Index Fund	The Life Insurance Public Company Limited			Equity	270,000	80,714	0.009%
JNL Emerging Markets Index Fund	Yancoal Australia Ltd			Equity	32,000	133,463	0.015%
JNL Emerging Markets Index Fund	OM Residual UK Ltd			Equity	438,950	347,594	0.039%
JNL Emerging Markets Index Fund	Container Corporation			Equity	29,598	326,717	0.037%
JNL Emerging Markets Index Fund	African Rainbow Minerals			Equity	6,677	95,409	0.011%
JNL Emerging Markets Index Fund	Banco Santander Chile			Equity	5,776,106	370,346	0.043%
JNL Emerging Markets Index Fund	POSCO Future M Co., Ltd.			Equity	3,051	589,991	0.067%
JNL Emerging Markets Index Fund	Hanwha Ocean Co., Ltd.			Equity	10,266	240,584	0.027%
JNL Emerging Markets Index Fund	Divis Laboratories Limited			Equity	13,487	877,944	0.099%
JNL Emerging Markets Index Fund	China Hongqiao Group Limited			Equity	289,000	289,000	0.033%
JNL Emerging Markets Index Fund	Taiyang Co.			Equity	193,000	300,889	0.034%
JNL Emerging Markets Index Fund	Banco de Credito e Inversiones			Equity	9,177	285,688	0.032%
JNL Emerging Markets Index Fund	Banco de Chile			Equity	4,689,547	598,060	0.067%
JNL Emerging Markets Index Fund	Q.L. Resources Berhad			Equity	175,950	199,712	0.023%
JNL Emerging Markets Index Fund	Pepper Holdings			Equity	199,982	279,198	0.031%
JNL Emerging Markets Index Fund	Industrias Penoles, S.A.B. de C.V.			Equity	18,637	247,042	0.028%
JNL Emerging Markets Index Fund	Vale S.A.			Equity	367,670	4,297,144	0.485%
JNL Emerging Markets Index Fund	Grupo Carso, S.A.B. De C.V.			Equity	55,100	340,114	0.038%
JNL Emerging Markets Index Fund	Empresas CMPC S.A.			Equity	120,254	209,183	0.024%
JNL Emerging Markets Index Fund	Enel Americas S.A.			Equity	1,973,438	201,070	0.023%
JNL Emerging Markets Index Fund	Empresas Copes S.A.			Equity	38,507	258,193	0.029%
JNL Emerging Markets Index Fund	Grupo Bimbo S.A.B. de C.V.			Equity	136,335	465,396	0.052%
JNL Emerging Markets Index Fund	Interconexion Electrica S A E S P			Equity	54,641	221,367	0.025%
JNL Emerging Markets Index Fund	Credicorp Ltd.			Equity	6,661	1,224,770	0.138%
JNL Emerging Markets Index Fund	Centrais Eletricas Brasileiras S/A			Equity	103,010	743,120	0.084%
JNL Emerging Markets Index Fund	Fomento Economico Mexicano, S.A.B. De C.V.			Equity	219,556	2,164,673	0.240%
JNL Emerging Markets Index Fund	El Puerto De Liverpool, S.A.B. De C.V.			Equity	20,400	121,986	0.014%
JNL Emerging Markets Index Fund	Banco Do Brasil SA			Equity	175,696	879,818	0.099%
JNL Emerging Markets Index Fund	Promotora y Operadora de Infraestructura, S.A.B. de C.V.			Equity	18,143	171,995	0.019%
JNL Emerging Markets Index Fund	Compania Cervenceras Unidas S.A.			Equity	12,795	75,472	0.009%
JNL Emerging Markets Index Fund	Grupo Financiero Banorte, S.A.B. de C.V.			Equity	291,517	2,074,476	0.231%
JNL Emerging Markets Index Fund	CEMEX S.A.B. de C.V.			Equity	1,491,712	912,907	0.103%
JNL Emerging Markets Index Fund	GRUMA, S.A.B. de C.V.			Equity	17,621	326,521	0.037%
JNL Emerging Markets Index Fund	LATAM Airlines Group S.A.			Equity	17,275,972	223,111	0.025%
JNL Emerging Markets Index Fund	Petrobras Brasilero S/A Petrobras			Equity	378,431	239,124	0.026%
JNL Emerging Markets Index Fund	Britannia Industries Ltd			Equity	13,402	1,015,630	0.115%
JNL Emerging Markets Index Fund	Grupo Aeroportuario del Sureste, S.A.B. de C.V.			Equity	18,163	513,259	0.058%
JNL Emerging Markets Index Fund	Grupo Mexico, S.A.B. de C.V.			Equity	322,142	1,799,676	0.203%
JNL Emerging Markets Index Fund	Falabella S.A.			Equity	139,715	535,964	0.059%
JNL Emerging Markets Index Fund	Dongfang Electric Co., Ltd.			Equity	21,100	47,318	0.005%
JNL Emerging Markets Index Fund	S.F. Holding Co., Ltd.			Equity	35,000	222,817	0.025%
JNL Emerging Markets Index Fund	Innovent Biologics, Inc.			Equity	134,000	805,500	0.091%
JNL Emerging Markets Index Fund	360 Security Technology Inc.			Equity	24,600	30,096	0.003%
JNL Emerging Markets Index Fund	Oppein Home Group Inc.			Equity	4,900	43,077	0.005%
JNL Emerging Markets Index Fund	Gulf Energy Development Public Company Limited			Equity	274,400	486,415	0.055%
JNL Emerging Markets Index Fund	Kimberly - Clark De Mexico S.A.B. De C.V.			Equity	144,900	234,754	0.026%
JNL Emerging Markets Index Fund	Inner Mongolia Yitai Coal Co., Ltd.			Equity	99,700	113,824	0.013%
JNL Emerging Markets Index Fund	Hellenic Telecommunications Organization S.A.			Equity	20,246	348,597	0.039%
JNL Emerging Markets Index Fund	Public Joint Stock Company Sberbank of Russia			Equity	1,458,480	0	0.000%
JNL Emerging Markets Index Fund	Grupo Financiero Inbursa, S.A.B. de C.V.			Equity	236,271	538,419	0.061%
JNL Emerging Markets Index Fund	Ace Inc.			Equity	297,000	385,004	0.043%
JNL Emerging Markets Index Fund	CCF S.A.			Equity	113,626	255,506	0.029%
JNL Emerging Markets Index Fund	Jiangxi Copper Company Limited			Equity	123,909	249,578	0.028%
JNL Emerging Markets Index Fund	Asia Cement Corporation			Equity	261,000	392,913	0.044%
JNL Emerging Markets Index Fund	China Southern Airlines Company Limited			Equity	22,000	10,436	0.001%
JNL Emerging Markets Index Fund	Komercni banka, a.s.			Equity	7,239	355,923	0.039%
JNL Emerging Markets Index Fund	CEZ, a.s.			Equity	16,892	656,985	0.074%
JNL Emerging Markets Index Fund	Realtek Semiconductor Corporation			Equity	49,000	755,768	0.085%
JNL Emerging Markets Index Fund	ASUSTek Computer Inc.			Equity	71,000	1,237,188	0.140%
JNL Emerging Markets Index Fund	Avaya Ltd Inc.			Equity	648,503	423,830	0.048%
JNL Emerging Markets Index Fund	Jiansu Expressway Company Limited			Equity	129,253	130,970	0.015%
JNL Emerging Markets Index Fund	Armb Holdings Berhad			Equity	211,700	256,858	0.029%
JNL Emerging Markets Index Fund	Arca Continental S.A.B. de C.V.			Equity	47,700	445,676	0.050%
JNL Emerging Markets Index Fund	WEG SA			Equity	151,702	1,522,953	0.172%
JNL Emerging Markets Index Fund	Bharat Petroleum Corporation Limited			Equity	206,790	917,528	0.104%
JNL Emerging Markets Index Fund	CITIC Limited			Equity	658,000	787,607	0.089%
JNL Emerging Markets Index Fund	Aboliz Equity Ventures, Inc.			Equity	258,320	171,688	0.019%
JNL Emerging Markets Index Fund	Ci Corporation			Equity	22,229	112,152	0.013%
JNL Emerging Markets Index Fund	Far EastOne Telecommunications Co., Ltd.			Equity	160,000	456,395	0.051%
JNL Emerging Markets Index Fund	Formosa Chemicals & Fibre Corporation			Equity	466,000	635,770	0.072%
JNL Emerging Markets Index Fund	Sinotrans Limited			Equity	106,000	55,928	0.006%
JNL Emerging Markets Index Fund	Far Eastern New Century Corporation			Equity	95,000	426,824	0.048%
JNL Emerging Markets Index Fund	HCL Technologies Limited			Equity	106,982	2,299,857	0.259%
JNL Emerging Markets Index Fund	DB Insurance Co., Ltd.			Equity	4,289	368,163	0.042%
JNL Emerging Markets Index Fund	Triptod Technology Corporation			Equity	53,000	330,270	0.037%
JNL Emerging Markets Index Fund	Hua Nan Financial Holdings Co., Ltd.			Equity	1,032,532	834,492	0.094%
JNL Emerging Markets Index Fund	Muangthai Capital Public Company Limited			Equity	92,100	441,777	0.051%
JNL Emerging Markets Index Fund	Shin Kong Financial Holding Co., Ltd.			Equity	1,557,232	594,232	0.067%
JNL Emerging Markets Index Fund	Formosa Plastics Corporation			Equity	488,000	822,204	0.093%
JNL Emerging Markets Index Fund	Taishin Financial Holding Co., Ltd.			Equity	1,296,617	753,419	0.085%
JNL Emerging Markets Index Fund	Eclat Textile Corporation Ltd			Equity	21,000	399,611	0.044%
JNL Emerging Markets Index Fund	Qatar Electricity & Water Company			Equity	62,312	270,660	0.031%
JNL Emerging Markets Index Fund	Commercial International Bank Egypt S.A.E			Equity	206,672	361,815	0.041%
JNL Emerging Markets Index Fund	Cheng Shin Rubber Ind. Co., Ltd.			Equity	20,000	405,332	0.046%
JNL Emerging Markets Index Fund	Industrial Bank of Korea			Equity	23,729	254,091	0.029%
JNL Emerging Markets Index Fund	LG Electronics Inc.			Equity	10,576	846,683	0.096%
JNL Emerging Markets Index Fund	NAVER Corporation			Equity	14,550	1,891,253	0.213%
JNL Emerging Markets Index Fund	CSPC Pharmaceutical Group Limited			Equity	615,040	627,167	0.071%
JNL Emerging Markets Index Fund	Powertech Technology Inc.			Equity	75,000	723,218	0.081%
JNL Emerging Markets Index Fund	Compal Electronics, Inc.			Equity	435,000	456,718	0.052%
JNL Emerging Markets Index Fund	Ooredoo Q.P.S.C			Equity	127,112	409,127	0.046%
JNL Emerging Markets Index Fund	E Sun Financial Holding Company, Ltd.			Equity	1,594,033	1,405,844	0.159%
JNL Emerging Markets Index Fund	MISC Berhad			Equity	218,800	414,182	0.047%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	EVA Airways Corporation			Equity	278,000	330,219	0.037%
JNL Emerging Markets Index Fund	RHB Bank Berhad			Equity	413,061	416,673	0.070%
JNL Emerging Markets Index Fund	Micro-Star International Co., Ltd.			Equity	70,000	386,375	0.044%
JNL Emerging Markets Index Fund	Kingdee International Software Group Company Limited			Equity	304,000	343,805	0.039%
JNL Emerging Markets Index Fund	Discovery			Equity	52,094	517,868	0.058%
JNL Emerging Markets Index Fund	Lite-On Technology Corporation			Equity	219,000	680,404	0.078%
JNL Emerging Markets Index Fund	GAIL (India) Limited			Equity	304,572	878,645	0.099%
JNL Emerging Markets Index Fund	Infosys Limited			Equity	417,755	9,365,750	1.057%
JNL Emerging Markets Index Fund	Vedanta Limited			Equity	174,010	1,068,281	0.121%
JNL Emerging Markets Index Fund	S-Oil Corporation			Equity	3,642	171,136	0.019%
JNL Emerging Markets Index Fund	Balkrishna Industries Limited			Equity	9,205	299,600	0.034%
JNL Emerging Markets Index Fund	Dubai Islamic Bank (P S C) Br.			Equity	283,525	486,852	0.055%
JNL Emerging Markets Index Fund	SK Hynix Inc.			Equity	55,193	7,433,316	0.839%
JNL Emerging Markets Index Fund	Cathay Financial Holding Co., Ltd.			Equity	1,005,535	2,105,343	0.238%
JNL Emerging Markets Index Fund	Chicony Electronics Co., Ltd.			Equity	66,000	342,918	0.039%
JNL Emerging Markets Index Fund	Datang International Power Generation Co., Ltd.			Equity	364,000	74,651	0.008%
JNL Emerging Markets Index Fund	Giant Manufacturing Co., Ltd.			Equity	36,522	258,702	0.029%
JNL Emerging Markets Index Fund	Dabur India Limited			Equity	69,359	518,485	0.058%
JNL Emerging Markets Index Fund	OMG Group Holdings Berhad			Equity	854,613	1,670,052	0.188%
JNL Emerging Markets Index Fund	China Overseas Land & Investment Limited			Equity	384,900	787,620	0.089%
JNL Emerging Markets Index Fund	Delta Electronics, Inc.			Equity	197,000	2,366,700	0.267%
JNL Emerging Markets Index Fund	SinoPac Financial Holdings Company Limited			Equity	1,273,998	971,879	0.110%
JNL Emerging Markets Index Fund	Abu Dhabi Commercial Bank PJSC			Equity	297,312	682,130	0.077%
JNL Emerging Markets Index Fund	The Siam Cement Public Company Limited			Equity	33,850	253,579	0.029%
JNL Emerging Markets Index Fund	China Airlines, Ltd.			Equity	296,000	201,553	0.023%
JNL Emerging Markets Index Fund	Hero MotoCorp Limited			Equity	13,361	913,990	0.103%
JNL Emerging Markets Index Fund	Hon Hai Precision Industry Co., Ltd.			Equity	1,231,000	7,304,997	0.824%
JNL Emerging Markets Index Fund	China Merchants Port Holdings Company Limited			Equity	108,272	175,032	0.020%
JNL Emerging Markets Index Fund	Chang Hwa Commercial Bank, Ltd.			Equity	587,607	331,827	0.037%
JNL Emerging Markets Index Fund	Catcher Technology Co., Ltd.			Equity	65,000	484,067	0.055%
JNL Emerging Markets Index Fund	Clicks Group			Equity	24,063	552,594	0.062%
JNL Emerging Markets Index Fund	The Commercial Bank (P.S.Q.C.)			Equity	343,048	414,688	0.047%
JNL Emerging Markets Index Fund	Hindustan Unilever Limited			Equity	90,718	3,204,649	0.362%
JNL Emerging Markets Index Fund	Hengan International Group Company Limited			Equity	62,461	219,113	0.025%
JNL Emerging Markets Index Fund	Fraser & Neave Holdings Bhd			Equity	18,400	139,436	0.016%
JNL Emerging Markets Index Fund	Kweichow Moutai Co.Ltd.			Equity	9,500	2,137,428	0.244%
JNL Emerging Markets Index Fund	Coway Co., Ltd.			Equity	5,475	281,665	0.032%
JNL Emerging Markets Index Fund	Home Product Center Public Company Limited			Equity	426,096	137,613	0.016%
JNL Emerging Markets Index Fund	Hanjin Solutions Corporation			Equity	11,062	219,824	0.025%
JNL Emerging Markets Index Fund	China Taiping Insurance Holdings Company Limited			Equity	138,403	1,830,972	0.021%
JNL Emerging Markets Index Fund	Dr. Reddy's Laboratories Limited			Equity	12,840	1,036,589	0.117%
JNL Emerging Markets Index Fund	Bank of The Philippine Islands			Equity	204,250	492,126	0.056%
JNL Emerging Markets Index Fund	Nan Ya Technology Corporation			Equity	117,000	174,825	0.020%
JNL Emerging Markets Index Fund	Emirates Telecommunications Group Company (Etisalat Group) PJSC			Equity	363,301	1,504,901	0.074%
JNL Emerging Markets Index Fund	Nan Ya Plastics Corporation			Equity	558,000	804,378	0.091%
JNL Emerging Markets Index Fund	Jollibee Foods Corporation			Equity	44,060	211,430	0.024%
JNL Emerging Markets Index Fund	IndusInd Bank Ltd.			Equity	59,491	1,030,190	0.116%
JNL Emerging Markets Index Fund	Indian Oil Corporation Limited			Equity	386,267	935,847	0.094%
JNL Emerging Markets Index Fund	MediaTek Inc.			Equity	157,000	5,862,809	0.661%
JNL Emerging Markets Index Fund	Vanguard International Semiconductor Corporation			Equity	86,000	282,606	0.032%
JNL Emerging Markets Index Fund	Taiwan Mobile Co., Ltd.			Equity	160,000	579,672	0.065%
JNL Emerging Markets Index Fund	Highwealth Construction Corp.			Equity	143,000	1,206,963	0.024%
JNL Emerging Markets Index Fund	Bharti Airtel Limited			Equity	269,979	5,522,754	0.623%
JNL Emerging Markets Index Fund	HD Korea Shipbuilding & Offshore Engineering Co., Ltd.			Equity	4,309	621,578	0.070%
JNL Emerging Markets Index Fund	Advanced Info Service PLC.			Equity	82,700	668,137	0.075%
JNL Emerging Markets Index Fund	LG Uplus Corp.			Equity	19,451	138,390	0.016%
JNL Emerging Markets Index Fund	Huaren Power International, Inc.			Equity	422,000	244,430	0.028%
JNL Emerging Markets Index Fund	Malaysia Airports Holdings Berhad			Equity	117,300	297,512	0.034%
JNL Emerging Markets Index Fund	Wipac Limited			Equity	148,207	961,386	0.108%
JNL Emerging Markets Index Fund	Mahindra and Mahindra Limited			Equity	100,455	3,723,896	0.420%
JNL Emerging Markets Index Fund	Hong Leong Financial Group Berhad			Equity	29,300	206,000	0.024%
JNL Emerging Markets Index Fund	Titan Company Limited			Equity	41,169	1,884,596	0.213%
JNL Emerging Markets Index Fund	KT&G Corporation			Equity	11,672	977,642	0.110%
JNL Emerging Markets Index Fund	LOTTE Chemical Corporation			Equity	11,799	139,854	0.016%
JNL Emerging Markets Index Fund	Bidvest Group, The			Equity	33,239	189,438	0.021%
JNL Emerging Markets Index Fund	PT. Charoen Pokphand Indonesia Tbk			Equity	767,700	238,855	0.027%
JNL Emerging Markets Index Fund	LG Corp.			Equity	11,701	706,295	0.080%
JNL Emerging Markets Index Fund	Beijing Enterprises Holdings Limited			Equity	44,317	162,637	0.018%
JNL Emerging Markets Index Fund	Advanced Tech Co., Ltd.			Equity	52,393	529,450	0.060%
JNL Emerging Markets Index Fund	Samsung Fire & Marine Insurance Co., Ltd.			Equity	3,149	836,704	0.094%
JNL Emerging Markets Index Fund	Chongqing Changan Automobile Company Limited			Equity	179,802	89,482	0.010%
JNL Emerging Markets Index Fund	Shree Cement Limited			Equity	1,745	549,698	0.062%
JNL Emerging Markets Index Fund	China Steel Corporation			Equity	1,000,000	956,247	0.102%
JNL Emerging Markets Index Fund	Hap Seng Consolidated Berhad			Equity	53,400	52,565	0.006%
JNL Emerging Markets Index Fund	China Petroleum & Chemical Corporation			Equity	2,328,426	1,433,256	0.162%
JNL Emerging Markets Index Fund	Aluminum Corporation of China Limited			Equity	366,298	288,001	0.032%
JNL Emerging Markets Index Fund	Quantum Computer Inc.			Equity	291,000	2,431,725	0.274%
JNL Emerging Markets Index Fund	Kumho Petrochemical Co., Ltd.			Equity	1,568	189,655	0.021%
JNL Emerging Markets Index Fund	AJO Corporation			Equity	738,600	398,857	0.045%
JNL Emerging Markets Index Fund	PT. Indah Kiat Pulp & Paper Tbk			Equity	262,200	150,114	0.017%
JNL Emerging Markets Index Fund	Yuanta Financial Holding Co., Ltd.			Equity	1,342,450	1,334,997	0.151%
JNL Emerging Markets Index Fund	Posco International Corporation			Equity	4,177	184,488	0.021%
JNL Emerging Markets Index Fund	Inventec Corporation			Equity	300,000	410,651	0.046%
JNL Emerging Markets Index Fund	Remgro			Equity	54,263	494,256	0.056%
JNL Emerging Markets Index Fund	Shinhan Financial Group Co., Ltd.			Equity	49,020	2,118,109	0.239%
JNL Emerging Markets Index Fund	Korea Electric Power Corp.			Equity	25,016	266,075	0.045%
JNL Emerging Markets Index Fund	KIA Corporation			Equity	23,930	1,830,411	0.207%
JNL Emerging Markets Index Fund	YTL Corporation Berhad			Equity	518,600	316,457	0.036%
JNL Emerging Markets Index Fund	Necati Corporation			Equity	19,450	211,403	0.024%
JNL Emerging Markets Index Fund	PT United Tractors Tbk			Equity	150,700	1,983,664	0.031%
JNL Emerging Markets Index Fund	Largan Precision Co.,Ltd.			Equity	9,000	725,118	0.082%
JNL Emerging Markets Index Fund	Korean Air Lines Co., Ltd.			Equity	21,346	369,231	0.042%
JNL Emerging Markets Index Fund	Kunlun Energy Company Limited			Equity	397,600	416,238	0.047%
JNL Emerging Markets Index Fund	Evergreen Marine Corporation (Taiwan) Ltd.			Equity	102,800	1,056,800	0.120%
JNL Emerging Markets Index Fund	Qatar National Bank (Q.P.S.C.)			Equity	454,998	2,119,794	0.239%
JNL Emerging Markets Index Fund	Hyundai Steel Company			Equity	10,165	217,574	0.025%
JNL Emerging Markets Index Fund	LG Chem, Ltd.			Equity	4,835	1,327,499	0.150%
JNL Emerging Markets Index Fund	Capitic Bank Holdings			Equity	10,605	1,862,045	0.210%
JNL Emerging Markets Index Fund	NH Investment & Securities Co., Ltd.			Equity	15,382	158,503	0.018%
JNL Emerging Markets Index Fund	Lenovo Group Limited			Equity	765,122	1,026,987	0.116%
JNL Emerging Markets Index Fund	Taiwan Business Bank, Ltd.			Equity	746,921	376,845	0.043%
JNL Emerging Markets Index Fund	Hotai Motor Co., Ltd.			Equity	49,860	3,087,117	0.329%
JNL Emerging Markets Index Fund	BYD Company Limited			Equity	103,689	3,733,921	0.421%
JNL Emerging Markets Index Fund	Korea Zinc Co., Ltd.			Equity	1,273	675,329	0.076%
JNL Emerging Markets Index Fund	Krungsri Thai Bank Public Company Limited			Equity	454,900	291,355	0.033%
JNL Emerging Markets Index Fund	LG-M&M Co., Ltd.			Equity	925	280,039	0.030%
JNL Emerging Markets Index Fund	KGI Financial Holding Co., Ltd.			Equity	1,615,800	540,503	0.059%
JNL Emerging Markets Index Fund	Feng Tay Enterprises Co., Ltd.			Equity	63,920	312,456	0.035%
JNL Emerging Markets Index Fund	China Offfield Services Limited			Equity	170,205	156,023	0.018%
JNL Emerging Markets Index Fund	ENN energy Holdings Limited			Equity	74,904	565,513	0.064%
JNL Emerging Markets Index Fund	China Eastern Airlines Corporation Limited			Equity	98,000	17,122	0.002%
JNL Emerging Markets Index Fund	Metropolitan Bank & Trust Company			Equity	190,759	267,832	0.030%
JNL Emerging Markets Index Fund	BOC Hong Kong (Holdings) Limited			Equity	372,000	1,180,223	0.133%
JNL Emerging Markets Index Fund	Celcomgigi Berhad			Equity	394,500	556,275	0.040%
JNL Emerging Markets Index Fund	Sun Pharma Advanced Research Company Limited			Equity	118,452	2,730,381	0.308%
JNL Emerging Markets Index Fund	Fubon Financial Holding Co., Ltd.			Equity	943,223	2,681,509	0.303%
JNL Emerging Markets Index Fund	Novatek Microelectronics Corporation			Equity	61,000	999,101	0.113%
JNL Emerging Markets Index Fund	International Container Terminal Services, Inc.			Equity	84,312	607,965	0.069%
JNL Emerging Markets Index Fund	PT. Indofood Sukses Makmur			Equity	397,600	185,108	0.021%
JNL Emerging Markets Index Fund	Lupin Limited			Equity	25,620	672,838	0.076%
JNL Emerging Markets Index Fund	JG Summit Holdings, Inc.			Equity	300,372	149,499	0.017%
JNL Emerging Markets Index Fund	Kuala Lumpur Kepong Berhad			Equity	52,400	261,376	0.029%
JNL Emerging Markets Index Fund	Reliance Industries Limited			Equity	14,736	1,476,458	0.163%
JNL Emerging Markets Index Fund	Exaro Resources Limited			Equity	22,099	220,451	0.025%
JNL Emerging Markets Index Fund	Kotak Mahindra Bank Limited			Equity	111,095	2,462,221	0.278%
JNL Emerging Markets Index Fund	Oil and Natural Gas Corporation Limited			Equity	431,194	1,539,384	0.174%
JNL Emerging Markets Index Fund	PT Gudang Garam Tbk			Equity	51,260	53,260	0.006%
JNL Emerging Markets Index Fund	Geely Automobile Holdings Limited			Equity	595,000	914,630	0.103%
JNL Emerging Markets Index Fund	Malayan Banking Berhad			Equity	669,346	1,701,442	0.192%
JNL Emerging Markets Index Fund	SK Telecom Co., Ltd.			Equity	10,876	464,415	0.052%
JNL Emerging Markets Index Fund	Hindustan Petroleum Corporation Limited			Equity	96,680	510,630	0.058%
JNL Emerging Markets Index Fund	Hyundai Engineering & Construction Co., Ltd.			Equity	8,503	188,580	0.022%
JNL Emerging Markets Index Fund	Huadian Power International Corporation Limited			Equity	108,000	62,596	0.007%
JNL Emerging Markets Index Fund	Hyundai Motor Company			Equity	14,563	2,729,858	0.308%
JNL Emerging Markets Index Fund	FirstRand Limited			Equity	569,378	2,736,749	0.309%
JNL Emerging Markets Index Fund	First Financial Holding Co., Ltd.			Equity	1,133,154	976,623	0.110%
JNL Emerging Markets Index Fund	Angel Yeast Co., Ltd.			Equity	8,600	44,450	0.005%
JNL Emerging Markets Index Fund	Samsung Securities Co., Ltd.			Equity	6,060	202,240	0.023%
JNL Emerging Markets Index Fund	Gamuda Berhad			Equity	258,845	507,304	0.057%
JNL Emerging Markets Index Fund	Aktifit Cochin Cement Company Limited			Equity	108,000	115,171	0.013%
JNL Emerging Markets Index Fund	Mega Financial Holdings Co., Ltd.			Equity	1,183,534	1,464,058	0.165%
JNL Emerging Markets Index Fund	PetroChina Company Limited			Equity	2,161,386	1,806,676	0.204%
JNL Emerging Markets Index Fund	Kingboard Holdings Limited			Equity	67,500	170,012	0.019%
JNL Emerging Markets Index Fund	The Supreme Industries Limited			Equity	5,981	581,368	0.043%
JNL Emerging Markets Index Fund	Gold Fields Limited			Equity	91,180	1,413,873	0.160%
JNL Emerging Markets Index Fund	Kakao Corp.			Equity	29,228	813,470	0.092%
JNL Emerging Markets Index Fund	China Resources Land Limited			Equity	288,632	1,047,651	0.118%
JNL Emerging Markets Index Fund	Mira Asset Securities Co., Ltd.			Equity	22,546	145,482	0.016%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	CTBC Financial Holding Co., Ltd.			Equity	2,024,000	2,195,700	0.248%
JNL Emerging Markets Index Fund	Hyundai Mobis Co., Ltd.			Equity	6,356	1,060,653	0.130%
JNL Emerging Markets Index Fund	China Gas Holdings Limited			Equity	280,400	271,697	0.031%
JNL Emerging Markets Index Fund	SM Prime Holdings, Inc.			Equity	1,160,850	670,664	0.076%
JNL Emerging Markets Index Fund	MTN Group			Equity	167,555	888,664	0.100%
JNL Emerging Markets Index Fund	Hong Leong Bank Berhad			Equity	79,500	415,660	0.047%
JNL Emerging Markets Index Fund	HLB Co., Ltd.			Equity	11,510	756,251	0.085%
JNL Emerging Markets Index Fund	Doosan Enerbility Co Ltd			Equity	45,519	626,654	0.071%
JNL Emerging Markets Index Fund	Yankuang Energy Group Company Limited			Equity	335,000	473,731	0.053%
JNL Emerging Markets Index Fund	China Resources Gas Group Limited			Equity	94,700	382,368	0.043%
JNL Emerging Markets Index Fund	Chunghwa Telecom Co., Ltd.			Equity	392,000	1,537,955	0.175%
JNL Emerging Markets Index Fund	Aurobindo Pharma Ltd.			Equity	32,716	572,210	0.065%
JNL Emerging Markets Index Fund	Dialog Group Berhad			Equity	495,100	258,456	0.029%
JNL Emerging Markets Index Fund	Tsingtao Brewery Co., Ltd.			Equity	66,000	512,554	0.058%
JNL Emerging Markets Index Fund	Taiwan High Speed Rail Corporation			Equity	232,000	216,138	0.024%
JNL Emerging Markets Index Fund	Bosch Limited			Equity	870	392,049	0.044%
JNL Emerging Markets Index Fund	Turkiye Petrol Rafinerileri Anonim Sirketi Tupras			Equity	94,943	464,369	0.052%
JNL Emerging Markets Index Fund	Sino Biopharmaceutical Limited			Equity	1,024,500	488,679	0.055%
JNL Emerging Markets Index Fund	Tdks Turk Otomobil Fabrikasi A.S.			Equity	9,259	58,453	0.007%
JNL Emerging Markets Index Fund	Cenosaud S.A.			Equity	150,632	304,064	0.034%
JNL Emerging Markets Index Fund	Zijin Mining Group Co., Ltd.			Equity	612,000	1,368,231	0.154%
JNL Emerging Markets Index Fund	Pou Chen Corporation			Equity	246,000	279,885	0.032%
JNL Emerging Markets Index Fund	Porto Seguro S/A			Equity	17,060	117,848	0.013%
JNL Emerging Markets Index Fund	Turkcell Iletisim Hizmetleri A.S.			Equity	113,258	316,480	0.036%
JNL Emerging Markets Index Fund	China Power International Development Limited			Equity	446,000	214,929	0.024%
JNL Emerging Markets Index Fund	Turk Hava Yolları Anonim Ortaklığı			Equity	72,294	604,424	0.068%
JNL Emerging Markets Index Fund	Companhia Siderurgica Nacional			Equity	60,259	142,913	0.016%
JNL Emerging Markets Index Fund	Arcelik A.S.			Equity	13,674	57,701	0.007%
JNL Emerging Markets Index Fund	NTPC Limited			Equity	484,856	2,582,733	0.291%
JNL Emerging Markets Index Fund	Nestle (Malaysia) Berhad			Equity	5,700	144,881	0.016%
JNL Emerging Markets Index Fund	Korea Investment Holdings Co., Ltd.			Equity	4,781	270,677	0.031%
JNL Emerging Markets Index Fund	Astak Leyland Limited			Equity	147,355	210,960	0.024%
JNL Emerging Markets Index Fund	Bumungrad Hospital Public Company Limited			Equity	9,200	76,713	0.009%
JNL Emerging Markets Index Fund	Shriram Finance Limited			Equity	26,617	1,140,929	0.129%
JNL Emerging Markets Index Fund	KOC Holding Anonim Sirketi			Equity	80,552	443,705	0.050%
JNL Emerging Markets Index Fund	Aeslan Inc.			Equity	137,072	2,064,302	0.459%
JNL Emerging Markets Index Fund	Universal Robina Corporation			Equity	84,320	156,392	0.018%
JNL Emerging Markets Index Fund	Emar Properties (P.J.S.C.)			Equity	628,990	1,493,346	0.168%
JNL Emerging Markets Index Fund	ZTE Corporation			Equity	83,040	213,612	0.024%
JNL Emerging Markets Index Fund	Turkiye Garanti Bankasi Anonim Sirketi			Equity	58,689	219,960	0.024%
JNL Emerging Markets Index Fund	Industries Qatar Q.S.C.			Equity	302,337	1,082,818	0.122%
JNL Emerging Markets Index Fund	Public Bank Berhad			Equity	1,541,000	1,704,776	0.192%
JNL Emerging Markets Index Fund	Shanghai Lujiazui Finance & Trade Zone Development Co., Ltd.			Equity	120,300	88,422	0.009%
JNL Emerging Markets Index Fund	PT Unilever Indonesia, Tbk.			Equity	576,000	576,000	0.006%
JNL Emerging Markets Index Fund	POSCO Holdings Inc.			Equity	7,074	2,097,235	0.237%
JNL Emerging Markets Index Fund	Shanghai Ji Jiang International Hotels Co., Ltd.			Equity	300	492	0.000%
JNL Emerging Markets Index Fund	Suzano S.A.			Equity	76,217	760,813	0.086%
JNL Emerging Markets Index Fund	Standard Bank Group			Equity	136,199	1,937,445	0.219%
JNL Emerging Markets Index Fund	Yageo Corporation			Equity	48,963	960,512	0.108%
JNL Emerging Markets Index Fund	Samsung Engineering Co., Ltd.			Equity	15,401	259,272	0.029%
JNL Emerging Markets Index Fund	Samsung Electronics International Limited			Equity	303,687	769,990	0.087%
JNL Emerging Markets Index Fund	China Mengniu Dairy Company Limited			Equity	308,293	725,244	0.082%
JNL Emerging Markets Index Fund	Kuerten Development Co., Ltd.			Equity	217,710	337,376	0.038%
JNL Emerging Markets Index Fund	China Everbright Environment Group Limited			Equity	411,629	204,713	0.023%
JNL Emerging Markets Index Fund	Turkiye Is Bankasi Anonim Sirketi			Equity	897,789	370,603	0.042%
JNL Emerging Markets Index Fund	Qatar Islamic Bank (Q.P.S.C.)			Equity	172,733	1,012,565	0.114%
JNL Emerging Markets Index Fund	Petrolnet LNG Limited			Equity	65,456	270,183	0.030%
JNL Emerging Markets Index Fund	OTP Bank Nyrt.			Equity	23,321	1,218,715	0.137%
JNL Emerging Markets Index Fund	Yuhan Corporation			Equity	6,281	681,980	0.078%
JNL Emerging Markets Index Fund	PT Bank Central Asia Tbk			Equity	5,684,100	3,875,992	0.437%
JNL Emerging Markets Index Fund	Ping An Insurance (Group) Company of China, Ltd.			Equity	643,000	2,064,302	0.459%
JNL Emerging Markets Index Fund	Uni-President Enterprises Corp.			Equity	492,000	1,345,891	0.152%
JNL Emerging Markets Index Fund	Larsen and Toubro Limited			Equity	68,919	3,031,784	0.342%
JNL Emerging Markets Index Fund	Nedbank Group Limited			Equity	49,343	852,179	0.096%
JNL Emerging Markets Index Fund	Guangdong Investment Limited			Equity	270,000	270,000	0.003%
JNL Emerging Markets Index Fund	Turkiye Sise Ve Cam Fabrikalari Anonim Sirketi			Equity	114,941	145,131	0.016%
JNL Emerging Markets Index Fund	China Resources Beer (Holdings) Company Limited			Equity	163,000	707,601	0.080%
JNL Emerging Markets Index Fund	Jumbo S.A.			Equity	11,053	316,563	0.036%
JNL Emerging Markets Index Fund	Phison Electronics Corporation			Equity	18,000	281,937	0.032%
JNL Emerging Markets Index Fund	Unimicron Technology Corp.			Equity	135,000	612,882	0.069%
JNL Emerging Markets Index Fund	Shandong Weigao Group Medical Polymer Company Limited			Equity	210,200	152,064	0.017%
JNL Emerging Markets Index Fund	Samsung Heavy Industries Co., Ltd.			Equity	72,693	559,943	0.063%
JNL Emerging Markets Index Fund	Greek Organisation of Football Proprieties S.A.			Equity	20,013	335,828	0.040%
JNL Emerging Markets Index Fund	Fomosa Petrochemical Corporation			Equity	146,000	241,326	0.027%
JNL Emerging Markets Index Fund	Samsung Electronics Co., Ltd.			Equity	516,230	24,299,166	2.741%
JNL Emerging Markets Index Fund	LG Display Co., Ltd.			Equity	29,187	245,888	0.028%
JNL Emerging Markets Index Fund	PT Bank Negara Indonesia (Persero), Tbk.			Equity	1,575,100	1,567,228	0.062%
JNL Emerging Markets Index Fund	Wistron Corporation			Equity	289,000	929,994	0.105%
JNL Emerging Markets Index Fund	PETRONAS Daanqan Berhad			Equity	40,500	175,532	0.020%
JNL Emerging Markets Index Fund	TECO Electric & Machinery Co., Ltd.			Equity	133,000	205,577	0.023%
JNL Emerging Markets Index Fund	Saeed			Equity	59,761	402,243	0.045%
JNL Emerging Markets Index Fund	COSCO SHIPPING Development Co., Ltd.			Equity	270,000	35,880	0.004%
JNL Emerging Markets Index Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	2,466,000	75,126,587	8.476%
JNL Emerging Markets Index Fund	PT. Bank Rakyat Indonesia (Persero) Tbk.			Equity	6,626,618	2,169,000	0.245%
JNL Emerging Markets Index Fund	Erdemir Demir Ve Celik Fabrikalari Turk Anonim Sirketi			Equity	169,273	265,599	0.030%
JNL Emerging Markets Index Fund	First Abu Dhabi Bank P.J.S.C.			Equity	482,633	1,012,565	0.114%
JNL Emerging Markets Index Fund	United Microelectronics Corporation			Equity	1,216,000	2,053,876	0.232%
JNL Emerging Markets Index Fund	GS Holdings Corp.			Equity	7,078	230,441	0.026%
JNL Emerging Markets Index Fund	President Chain Store Corporation			Equity	58,000	538,008	0.061%
JNL Emerging Markets Index Fund	Avichina Industry & Technology Company Limited			Equity	257,000	257,000	0.003%
JNL Emerging Markets Index Fund	Ford Otomobil Sanayi Anonim Sirketi			Equity	7,703	206,840	0.023%
JNL Emerging Markets Index Fund	Banco Bradesco SA			Equity	137,573	342,200	0.039%
JNL Emerging Markets Index Fund	Cipla Limited			Equity	55,003	1,089,301	0.123%
JNL Emerging Markets Index Fund	Samsung Electro-Mechanics Co., Ltd.			Equity	5,664	576,208	0.065%
JNL Emerging Markets Index Fund	PETRONAS Gas Berhad			Equity	105,100	458,884	0.052%
JNL Emerging Markets Index Fund	Thai Oil Public Company Limited			Equity	49,900	79,760	0.009%
JNL Emerging Markets Index Fund	Beijing Enterprises Water Group Limited			Equity	356,000	113,629	0.013%
JNL Emerging Markets Index Fund	Anglo American Platinum			Equity	5,677	254,933	0.028%
JNL Emerging Markets Index Fund	Minix International Public Company Limited			Equity	259,796	228,278	0.026%
JNL Emerging Markets Index Fund	Winbond Electronics Corp.			Equity	293,336	197,726	0.022%
JNL Emerging Markets Index Fund	Telekom Malaysia Berhad			Equity	214,300	349,029	0.039%
JNL Emerging Markets Index Fund	Weichai Power Co., Ltd.			Equity	204,600	285,251	0.032%
JNL Emerging Markets Index Fund	UltraTech Cement Limited			Equity	12,449	1,759,730	0.199%
JNL Emerging Markets Index Fund	Tingyi (Cayman Islands) Holding Corp.			Equity	170,700	245,076	0.028%
JNL Emerging Markets Index Fund	Great Wall Motor Company Limited			Equity	242,645	446,024	0.050%
JNL Emerging Markets Index Fund	Hanan Systems			Equity	8,470	27,672	0.003%
JNL Emerging Markets Index Fund	Shorrite Holdings			Equity	46,465	786,503	0.090%
JNL Emerging Markets Index Fund	Abank Turk Anonim Sirketi			Equity	316,671	572,112	0.065%
JNL Emerging Markets Index Fund	Symnex Technology International Corporation			Equity	134,000	304,900	0.034%
JNL Emerging Markets Index Fund	Huayu Automotive Systems Co., Ltd.			Equity	13,800	35,036	0.004%
JNL Emerging Markets Index Fund	Maruti Suzuki India Limited			Equity	13,233	2,099,889	0.236%
JNL Emerging Markets Index Fund	FOXCONN Technology Co., Ltd.			Equity	115,000	241,870	0.027%
JNL Emerging Markets Index Fund	China Resources Power Holdings Company Limited			Equity	195,200	537,351	0.061%
JNL Emerging Markets Index Fund	Kangwon Land, Inc.			Equity	9,742	126,920	0.014%
JNL Emerging Markets Index Fund	Yata Consultancy Services Limited			Equity	101,484	1,176,540	0.154%
JNL Emerging Markets Index Fund	KASKORNBANK Public Company Limited			Equity	103,000	480,803	0.054%
JNL Emerging Markets Index Fund	Samsung SDI Co., Ltd.			Equity	5,262	1,531,831	0.173%
JNL Emerging Markets Index Fund	Tenaga Nasional Berhad			Equity	473,200	1,685,813	0.190%
JNL Emerging Markets Index Fund	Yapi ve Kredi Bankasi A.S.			Equity	322,239	292,115	0.033%
JNL Emerging Markets Index Fund	PICC Property and Casualty Company Limited			Equity	652,604	965,946	0.109%
JNL Emerging Markets Index Fund	Coca-Cola Icecek Anonim Sirketi			Equity	77,055	128,751	0.015%
JNL Emerging Markets Index Fund	PPB Group Berhad			Equity	69,600	244,061	0.028%
JNL Emerging Markets Index Fund	Haci Omer Sabanci Holding Anonim Sirketi			Equity	142,248	404,817	0.046%
JNL Emerging Markets Index Fund	Sinopec Shanghai Petrochemical Company Limited			Equity	390,000	60,283	0.007%
JNL Emerging Markets Index Fund	Biocon Limited			Equity	41,961	182,619	0.021%
JNL Emerging Markets Index Fund	Power Grid Corporation of India Limited			Equity	469,416	1,981,660	0.224%
JNL Emerging Markets Index Fund	Pdillite Industries Limited			Equity	20,729	1,074,033	0.121%
JNL Emerging Markets Index Fund	Aspen Pharmacare Holdings Limited			Equity	37,800	426,517	0.048%
JNL Emerging Markets Index Fund	PT Bank Mandiri (Persero) Tbk.			Equity	3,681,708	1,685,082	0.190%
JNL Emerging Markets Index Fund	TCC Group Holdings Co., Ltd.			Equity	719,950	766,565	0.086%
JNL Emerging Markets Index Fund	China Life Insurance Company Limited			Equity	756,400	1,492,172	0.168%
JNL Emerging Markets Index Fund	Country Garden Holdings Company Limited			Equity	1,292,688	0	0.000%
JNL Emerging Markets Index Fund	Grupo Aeroportuario Del Pacifico, S.A.B. de C.V.			Equity	39,270	680,614	0.077%
JNL Emerging Markets Index Fund	Celtrion Inc.			Equity	15,043	2,265,354	0.256%
JNL Emerging Markets Index Fund	Cosun S.A.			Equity	133,507	321,042	0.036%
JNL Emerging Markets Index Fund	Merit Group Limited			Equity	60,000	1,022,175	0.114%
JNL Emerging Markets Index Fund	Localiza Rent A Car SA			Equity	86,877	664,204	0.075%
JNL Emerging Markets Index Fund	Uni-President China Holdings Ltd			Equity	137,000	127,883	0.014%
JNL Emerging Markets Index Fund	DLF Limited			Equity	83,746	898,137	0.101%
JNL Emerging Markets Index Fund	Hana Financial Group Inc.			Equity	30,749	1,357,762	0.153%
JNL Emerging Markets Index Fund	UPL Limited			Equity	56,628	415,548	0.047%
JNL Emerging Markets Index Fund	Haitian International Holdings Limited			Equity	110,000	349,850	0.039%
JNL Emerging Markets Index Fund	Amropacific Corporation			Equity	3,001	339,436	0.038%
JNL Emerging Markets Index Fund	Zhuzhou CRRC Times Electric Co., Ltd.			Equity	41,800	163,800	0.018%
JNL Emerging Markets Index Fund	Kumba Iron Ore Ltd			Equity	5,619	130,630	0.015%
JNL Emerging Markets Index Fund	Aldar Properties - P J S C			Equity	378,582	775,614	0.088%
JNL Emerging Markets Index Fund	China Coal Energy Company Limited			Equity	195,000	248,080	0.028%
JNL Emerging Markets Index Fund	Vodafone Idea Limited			Equity	3,120,450	388,427	0.044%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Manila Electric Company			Equity	31,260	244,603	0.028%
JNL Emerging Markets Index Fund	Siemens Limited			Equity	9,820	175,643	0.088%
JNL Emerging Markets Index Fund	Masraf Al Rayan			Equity	667,566	452,718	0.051%
JNL Emerging Markets Index Fund	Adani Ports and Special Economic Zone Limited			Equity	92,528	1,607,870	0.181%
JNL Emerging Markets Index Fund	Loas Renner S/A			Equity	92,638	308,959	0.035%
JNL Emerging Markets Index Fund	Cia De Saenamento Basico Do Estado De Sao Paulo SABESP			Equity	34,756	575,953	0.065%
JNL Emerging Markets Index Fund	Nine Dragons Paper (Holdings) Limited			Equity	195,000	103,197	0.012%
JNL Emerging Markets Index Fund	Kingsoft Corp Ltd			Equity	87,607	329,118	0.037%
JNL Emerging Markets Index Fund	WPG Holdings Limited			Equity	176,000	415,852	0.047%
JNL Emerging Markets Index Fund	China Molybdenum Co., Ltd			Equity	341,201	331,492	0.037%
JNL Emerging Markets Index Fund	Sankam			Equity	178,796	610,426	0.103%
JNL Emerging Markets Index Fund	JBS S.A			Equity	70,268	433,524	0.049%
JNL Emerging Markets Index Fund	ANTA Sports Products Limited			Equity	140,483	1,667,572	0.188%
JNL Emerging Markets Index Fund	Kingboard Laminates Holdings Limited			Equity	83,000	79,298	0.009%
JNL Emerging Markets Index Fund	China Merchants Bank Co., Ltd.			Equity	382,759	1,896,892	0.208%
JNL Emerging Markets Index Fund	Inmox Corporation			Equity	788,778	403,747	0.046%
JNL Emerging Markets Index Fund	SK Innovation Co., Ltd.			Equity	6,186	557,067	0.063%
JNL Emerging Markets Index Fund	China Shenhua Energy Company Limited			Equity	343,931	1,533,111	0.173%
JNL Emerging Markets Index Fund	Industrial and Commercial Bank of China Limited			Equity	7,467,244	4,398,484	0.446%
JNL Emerging Markets Index Fund	GCL-Poly Energy Holdings Limited			Equity	2,062,000	368,136	0.042%
JNL Emerging Markets Index Fund	Kumpulan Sime Darby Berhad			Equity	333,000	198,975	0.022%
JNL Emerging Markets Index Fund	COSCO Shipping Holdings Co., Ltd			Equity	294,750	492,442	0.056%
JNL Emerging Markets Index Fund	Shanghai Electric Group Company Limited			Equity	312,000	69,687	0.008%
JNL Emerging Markets Index Fund	CJ CheilJedang Corp.			Equity	787	183,131	0.021%
JNL Emerging Markets Index Fund	Ecopetrol S.A.			Equity	501,969	224,369	0.025%
JNL Emerging Markets Index Fund	Hindalco Industries Limited			Equity	157,350	1,426,136	0.161%
JNL Emerging Markets Index Fund	Voltaix Limited			Equity	23,936	529,084	0.059%
JNL Emerging Markets Index Fund	Genling Malaysia Berhad			Equity	279,300	168,303	0.019%
JNL Emerging Markets Index Fund	Marico Limited			Equity	65,952	548,912	0.062%
JNL Emerging Markets Index Fund	Ayala Corporation			Equity	24,890	299,011	0.034%
JNL Emerging Markets Index Fund	Genring Berhad			Equity	240,900	250,790	0.028%
JNL Emerging Markets Index Fund	Sunny Optical Technology (Group) Company Limited			Equity	72,600	338,013	0.039%
JNL Emerging Markets Index Fund	China Construction Bank Corporation			Equity	9,948,195	7,441,917	0.840%
JNL Emerging Markets Index Fund	IOI Corporation Berhad			Equity	302,800	276,361	0.031%
JNL Emerging Markets Index Fund	Woodworth Holdings Limited			Equity	89,849	354,372	0.040%
JNL Emerging Markets Index Fund	Bank of Communications Co., Ltd.			Equity	814,000	639,878	0.073%
JNL Emerging Markets Index Fund	Equatorial Energia S.A			Equity	117,596	702,852	0.079%
JNL Emerging Markets Index Fund	Sherzhou International Group Holdings Limited			Equity	83,300	738,462	0.083%
JNL Emerging Markets Index Fund	Samsung Card Co., Ltd.			Equity	3,281	103,409	0.012%
JNL Emerging Markets Index Fund	BYD Electronic (International) Company Limited			Equity	74,000	321,800	0.036%
JNL Emerging Markets Index Fund	Godrej Consumer Products Limited			Equity	41,118	686,246	0.077%
JNL Emerging Markets Index Fund	Power Finance Corporation Limited			Equity	133,986	786,338	0.089%
JNL Emerging Markets Index Fund	Yangzijiang Shipbuilding (Holdings) Ltd.			Equity	265,400	508,253	0.057%
JNL Emerging Markets Index Fund	Samsung Life Insurance Co., Ltd.			Equity	9,865	104,865	0.012%
JNL Emerging Markets Index Fund	HWIN Technologies Corp.			Equity	25,119	169,583	0.019%
JNL Emerging Markets Index Fund	Bank of China Limited			Equity	8,159,481	3,612,552	0.430%
JNL Emerging Markets Index Fund	Turkiye Vakiflar Bankasi T.A.O.			Equity	70,805	47,516	0.005%
JNL Emerging Markets Index Fund	Fosun International Limited			Equity	244,160	155,346	0.018%
JNL Emerging Markets Index Fund	BIM Birlask Magazalar Anonim Sirketi			Equity	44,773	651,467	0.073%
JNL Emerging Markets Index Fund	Sinotruk (Hong Kong) Limited			Equity	69,500	215,044	0.024%
JNL Emerging Markets Index Fund	CP ALL Public Company Limited			Equity	245,000	498,359	0.056%
JNL Emerging Markets Index Fund	SIM Investments Corporation			Equity	50,888	969,160	0.098%
JNL Emerging Markets Index Fund	Joint Stock Company Airosa (Public Joint Stock Company)			Equity	346,190	0	0.000%
JNL Emerging Markets Index Fund	China Railway Group Limited			Equity	401,000	207,996	0.023%
JNL Emerging Markets Index Fund	Zhaopin Mining Industry Company Limited			Equity	137,000	241,322	0.027%
JNL Emerging Markets Index Fund	Amulga Cement Limited			Equity	76,149	578,127	0.065%
JNL Emerging Markets Index Fund	Hyundai Glovis Co., Ltd.			Equity	3,625	538,951	0.058%
JNL Emerging Markets Index Fund	Aboliz Power Corporation			Equity	86,500	58,874	0.007%
JNL Emerging Markets Index Fund	Xinyi Glass Holdings Limited			Equity	173,000	210,286	0.024%
JNL Emerging Markets Index Fund	Vodacom Group			Equity	57,981	367,545	0.041%
JNL Emerging Markets Index Fund	eMemory Technology Inc.			Equity	7,000	582,078	0.066%
JNL Emerging Markets Index Fund	Public Joint Stock Company Federal Hydrogenerating Company - Rushtyro			Equity	13,150,000	0	0.000%
JNL Emerging Markets Index Fund	China CITIC Bank Corporation Limited			Equity	944,500	599,780	0.068%
JNL Emerging Markets Index Fund	ITC Limited			Equity	298,783	1,853,592	0.209%
JNL Emerging Markets Index Fund	Bharat Forge Ltd			Equity	26,723	122,333	0.014%
JNL Emerging Markets Index Fund	Sinochem Group Co. Ltd.			Equity	123,200	325,522	0.037%
JNL Emerging Markets Index Fund	Turk Telekomunikasyon Anonim Sirketi			Equity	30,721	44,796	0.005%
JNL Emerging Markets Index Fund	PT Kalbe Farma Tbk			Equity	1,692,700	193,061	0.022%
JNL Emerging Markets Index Fund	L.G. Innotek Co., Ltd			Equity	1,381	219,684	0.024%
JNL Emerging Markets Index Fund	PEGATRON Corporation			Equity	214,000	693,879	0.078%
JNL Emerging Markets Index Fund	Shanghai Pharmaceuticals Holding Co., Ltd.			Equity	83,200	136,003	0.015%
JNL Emerging Markets Index Fund	Zhen Ding Technology Holding Limited			Equity	64,000	228,454	0.026%
JNL Emerging Markets Index Fund	Coal India Ltd Coal Of India Undertaking			Equity	232,660	1,428,160	0.163%
JNL Emerging Markets Index Fund	China Minsheng Banking Corp., Ltd.			Equity	654,380	265,625	0.030%
JNL Emerging Markets Index Fund	GT Capital Holdings, Inc.			Equity	9,673	126,129	0.014%
JNL Emerging Markets Index Fund	Longfor Group Holdings Limited			Equity	181,500	343,828	0.039%
JNL Emerging Markets Index Fund	Hypera S.A			Equity	42,394	222,404	0.025%
JNL Emerging Markets Index Fund	China Everbright Bank Company Limited			Equity	326,400	110,287	0.012%
JNL Emerging Markets Index Fund	Chongqing Rural Commercial Bank Co., Ltd.			Equity	257,000	132,523	0.015%
JNL Emerging Markets Index Fund	Bharat Heavy Electricals Limited			Equity	131,308	441,304	0.050%
JNL Emerging Markets Index Fund	Raia Drogasil S.A.			Equity	134,711	636,118	0.072%
JNL Emerging Markets Index Fund	Barco Santander (Brasil) S.A.			Equity	40,360	210,333	0.024%
JNL Emerging Markets Index Fund	Airac International Group			Equity	13,882	404,238	0.046%
JNL Emerging Markets Index Fund	Halting Securities Co., Ltd			Equity	215,460	102,351	0.012%
JNL Emerging Markets Index Fund	Hann Science Co., Ltd.			Equity	667	165,201	0.019%
JNL Emerging Markets Index Fund	Public Joint Stock Company Oil Company Lukoil			Equity	48,558	0	0.000%
JNL Emerging Markets Index Fund	KB Financial Group Inc.			Equity	38,695	2,399,040	0.271%
JNL Emerging Markets Index Fund	China Medical System Holdings Limited			Equity	148,000	170,271	0.019%
JNL Emerging Markets Index Fund	Metallurgical Corporation of China Ltd.			Equity	215,000	43,755	0.005%
JNL Emerging Markets Index Fund	Public Joint Stock Company Oil Company Rosneft			Equity	300,560	0	0.000%
JNL Emerging Markets Index Fund	PT Tower Bersama Infrastructure Tbk			Equity	190,700	23,965	0.003%
JNL Emerging Markets Index Fund	Goldwind Science&Technology Co.,Ltd.			Equity	2,470	1,864	0.000%
JNL Emerging Markets Index Fund	CTIC Securities Company Limited			Equity	163,000	424,598	0.048%
JNL Emerging Markets Index Fund	Tata Motors Limited			Equity	215,684	219,328	0.024%
JNL Emerging Markets Index Fund	Avastia Group Berhad			Equity	332,800	203,668	0.023%
JNL Emerging Markets Index Fund	PT. Indofood Ctip Suktes Makmur			Equity	245,000	199,498	0.023%
JNL Emerging Markets Index Fund	China Longyuan Power Group Corporation Limited			Equity	302,000	271,011	0.031%
JNL Emerging Markets Index Fund	The Tata Power Company Limited			Equity	183,482	1,063,980	0.120%
JNL Emerging Markets Index Fund	Sun Art Retail Group Limited			Equity	223,500	51,463	0.006%
JNL Emerging Markets Index Fund	Bajaj Auto Limited			Equity	6,871	1,015,000	0.115%
JNL Emerging Markets Index Fund	PT. Adaro Energy Indonesia Tbk			Equity	1,437,600	362,349	0.041%
JNL Emerging Markets Index Fund	Goldwind Science&Technology Co.,Ltd.			Equity	52,700	74,786	0.008%
JNL Emerging Markets Index Fund	BDO Unibank, Inc.			Equity	210,242	593,082	0.067%
JNL Emerging Markets Index Fund	Central Pattana Public Company Limited			Equity	61,600	128,222	0.014%
JNL Emerging Markets Index Fund	Far East Horizon Limited			Equity	145,000	110,530	0.012%
JNL Emerging Markets Index Fund	Public Joint Stock Company Magnitogorsk Metallurgical Works			Equity	240,890	0	0.000%
JNL Emerging Markets Index Fund	Public Joint Stock Company Polysus			Equity	4,477	0	0.000%
JNL Emerging Markets Index Fund	VTB Bank (Public Joint Stock Company)			Equity	680,515,022	7	0.000%
JNL Emerging Markets Index Fund	Zhongsheng Group Holdings Limited			Equity	71,500	130,173	0.015%
JNL Emerging Markets Index Fund	Taiwan Cooperative Bank, Ltd.			Equity	1,095,660	893,202	0.101%
JNL Emerging Markets Index Fund	SK Inc.			Equity	3,485	409,770	0.046%
JNL Emerging Markets Index Fund	Obero Realty Limited			Equity	12,186	276,505	0.031%
JNL Emerging Markets Index Fund	Public Joint Stock Society Inter RAO UES			Equity	4,398,000	0	0.000%
JNL Emerging Markets Index Fund	Hellenic Duty Free Shops Single Member S.A.			Equity	8,976	0	0.000%
JNL Emerging Markets Index Fund	Public Joint Stock Company Mining And Metallurgical Company Norilsk Nickel			Equity	781,700	75,774	0.008%
JNL Emerging Markets Index Fund	China Pacific Insurance (Group) Co., Ltd.			Equity	265,080	939,415	0.106%
JNL Emerging Markets Index Fund	Korea Aerospace Industries, Ltd.			Equity	7,554	303,211	0.034%
JNL Emerging Markets Index Fund	Public Joint Stock Company Tareft Named After V.D. Shashin			Equity	219,995	0	0.000%
JNL Emerging Markets Index Fund	Petrobas Chemicals Group Berhad			Equity	275,200	376,801	0.043%
JNL Emerging Markets Index Fund	Agricultural Bank of China Limited			Equity	2,841,694	1,326,548	0.150%
JNL Emerging Markets Index Fund	Public Joint Stock Company Gazprom			Equity	1,617,597	0	0.000%
JNL Emerging Markets Index Fund	Public Joint Stock Company Novolipetsk Metallurgical Plant			Equity	167,460	0	0.000%
JNL Emerging Markets Index Fund	New China Life Insurance Company Ltd.			Equity	99,000	306,285	0.035%
JNL Emerging Markets Index Fund	China Pacific Insurance (Group) Co., Ltd.			Equity	51,400	283,398	0.032%
JNL Emerging Markets Index Fund	Publichnoe Aktsionnoe Obshchestvo Severstal			Equity	26,800	0	0.000%
JNL Emerging Markets Index Fund	Public Joint Stock Company Surgutneftegaz			Equity	1,157,248	0	0.000%
JNL Emerging Markets Index Fund	PT T Global Chemical Public Company Limited			Equity	215,300	200,893	0.023%
JNL Emerging Markets Index Fund	Chalease Holding Company Limited			Equity	165,900	851,264	0.096%
JNL Emerging Markets Index Fund	New China Life Insurance Company Ltd.			Equity	10,700	69,769	0.008%
JNL Emerging Markets Index Fund	Want Want China Holdings Limited			Equity	461,092	316,561	0.036%
JNL Emerging Markets Index Fund	Mexa Communications Berhad			Equity	289,500	277,511	0.031%
JNL Emerging Markets Index Fund	Chaohou Polyphand Foods Public Company Limited			Equity	234,300	174,467	0.020%
JNL Emerging Markets Index Fund	Indorama Ventures Public Company Limited			Equity	16,300	12,530	0.001%
JNL Emerging Markets Index Fund	Founder Securities Co., Ltd.			Equity	42,800	56,565	0.006%
JNL Emerging Markets Index Fund	PLOT Inc.			Equity	8,645	230,078	0.026%
JNL Emerging Markets Index Fund	Yunnan Baiyao Industrial Co., Ltd.			Equity	8,760	79,740	0.009%
JNL Emerging Markets Index Fund	Postal Savings Bank of China Co., Ltd.			Equity	904,000	535,022	0.060%
JNL Emerging Markets Index Fund	REC Limited			Equity	116,952	779,498	0.088%
JNL Emerging Markets Index Fund	Guangzhou Automobile Group Co., Ltd.			Equity	138,000	53,825	0.006%
JNL Emerging Markets Index Fund	BBMG Corporation			Equity	58,100	15,240	0.002%
JNL Emerging Markets Index Fund	Meianan Onehealth Healthcare Holdings Co., Ltd.			Equity	42,200	25,872	0.003%
JNL Emerging Markets Index Fund	AAC Technologies Holdings Inc.			Equity	68,000	276,334	0.031%
JNL Emerging Markets Index Fund	Guangzhou Baiyunshan Pharmaceutical Holdings Co., Ltd.			Equity	15,700	68,170	0.008%
JNL Emerging Markets Index Fund	Public Joint Stock Society Moscow Exchange MICEX-RTS			Equity	188,970	0	0.000%
JNL Emerging Markets Index Fund	Beijing Shiji Information Technology Co., Ltd.			Equity	4,795	4,990	0.001%
JNL Emerging Markets Index Fund	Western Securities Co.,Ltd.			Equity	52,600	64,382	0.007%
JNL Emerging Markets Index Fund	Donat'e Elaso Co., Ltd.			Equity	5,500	48,130	0.005%
JNL Emerging Markets Index Fund	Wuliangye Yibin Co., Ltd.			Equity	29,000	662,571	0.075%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Guangzhou Automobile Group Co., Ltd.			Equity	69,400	86,736	0.010%
JNL Emerging Markets Index Fund	Shenzhen Salubris Pharmaceuticals Co., Ltd.			Equity	8,700	42,791	0.006%
JNL Emerging Markets Index Fund	Hubei Energy Group Co., Ltd.			Equity	51,800	39,338	0.004%
JNL Emerging Markets Index Fund	China Galaxy Securities Co., Ltd.			Equity	399,500	370,547	0.042%
JNL Emerging Markets Index Fund	B8 Seguridade Participacoes S.A.			Equity	68,001	445,875	0.050%
JNL Emerging Markets Index Fund	New Hope Liuhe Co., Ltd.			Equity	47,300	69,845	0.008%
JNL Emerging Markets Index Fund	Zhejiang Century Huating Group Co., Ltd.			Equity	27,200	16,059	0.002%
JNL Emerging Markets Index Fund	Asian Paints Limited			Equity	75,484	3,004,997	0.339%
JNL Emerging Markets Index Fund	Shewan Hongyuan Group Co., Ltd.			Equity	212,100	171,939	0.019%
JNL Emerging Markets Index Fund	Bajaj Finance Limited			Equity	28,495	2,625,653	0.296%
JNL Emerging Markets Index Fund	Bank of Ningbo Co., Ltd.			Equity	50,900	184,323	0.021%
JNL Emerging Markets Index Fund	HD Hyundai Co., Ltd.			Equity	3,801	223,828	0.025%
JNL Emerging Markets Index Fund	Han's Laser Technology Industry Group Co., Ltd.			Equity	10,800	36,018	0.004%
JNL Emerging Markets Index Fund	DHC Software Co., Ltd.			Equity	38,300	31,081	0.004%
JNL Emerging Markets Index Fund	Huasheng Medicine Co. Ltd			Equity	17,800	88,584	0.010%
JNL Emerging Markets Index Fund	Richer Geodon Vegyeszeti Gyar Nyilvanosan Mukodo Rt.			Equity	14,983	461,716	0.052%
JNL Emerging Markets Index Fund	Zhejiang Dahua Technology Co., Ltd.			Equity	10,500	25,774	0.003%
JNL Emerging Markets Index Fund	Shanghai Fosun Pharmaceutical (Group) Co., Ltd.			Equity	52,000	103,751	0.012%
JNL Emerging Markets Index Fund	China Vanke Co., Ltd.			Equity	75,000	101,674	0.011%
JNL Emerging Markets Index Fund	Perfect World Co., Ltd.			Equity	21,000	28,698	0.003%
JNL Emerging Markets Index Fund	Hedy Holding Co., Ltd.			Equity	105,400	105,515	0.012%
JNL Emerging Markets Index Fund	Tianma Microelectronics Co., Ltd.			Equity	28,500	32,732	0.004%
JNL Emerging Markets Index Fund	China International Marine Containers (Group) Co., Ltd.			Equity	43,800	34,306	0.004%
JNL Emerging Markets Index Fund	37 Interactive Entertainment Network Technology Group Co., Ltd.			Equity	7,400	18,850	0.002%
JNL Emerging Markets Index Fund	Hangzhou Robam Appliances Co., Ltd.			Equity	9,800	32,115	0.004%
JNL Emerging Markets Index Fund	Shanghai Fosun Pharmaceutical (Group) Co., Ltd.			Equity	9,600	37,674	0.004%
JNL Emerging Markets Index Fund	Beijing Dahongmen Technology Group Co., Ltd.			Equity	46,300	31,548	0.004%
JNL Emerging Markets Index Fund	China Vanke Co., Ltd.			Equity	158,881	150,453	0.017%
JNL Emerging Markets Index Fund	Ninestar Co., Ltd.			Equity	11,900	51,102	0.006%
JNL Emerging Markets Index Fund	China International Marine Containers (Group) Co., Ltd.			Equity	29,550	37,701	0.004%
JNL Emerging Markets Index Fund	PT Astra International Tbk			Equity	1,824,200	641,832	0.072%
JNL Emerging Markets Index Fund	Muyuan Foods Co., Ltd.			Equity	45,340	276,873	0.031%
JNL Emerging Markets Index Fund	Shenzhen Overseas Chinese Town Co., Ltd.			Equity	81,400	33,573	0.004%
JNL Emerging Markets Index Fund	Bank of Shanghai Co., Ltd.			Equity	144,100	161,483	0.018%
JNL Emerging Markets Index Fund	Tsingtao Brewery Co., Ltd.			Equity	5,300	58,478	0.007%
JNL Emerging Markets Index Fund	Ping An Bank Co., Ltd.			Equity	152,800	210,929	0.024%
JNL Emerging Markets Index Fund	INH Healthcare Berhad			Equity	234,800	410,550	0.046%
JNL Emerging Markets Index Fund	Tongling Nonferrous Metals Group Co., Ltd.			Equity	85,100	46,281	0.005%
JNL Emerging Markets Index Fund	China Merchants Shekou Industrial Zone Holdings Co., Ltd.			Equity	70,100	121,263	0.014%
JNL Emerging Markets Index Fund	Airports of Thailand Public Company Limited			Equity	235,000	467,178	0.053%
JNL Emerging Markets Index Fund	China Huishan Dairy Holdings Company Limited			Equity	946,200	0	0.000%
JNL Emerging Markets Index Fund	Garfeng Lithium Group Co., Ltd.			Equity	3,380	16,432	0.002%
JNL Emerging Markets Index Fund	Beijing Huier Company Limited			Equity	48,400	60,753	0.007%
JNL Emerging Markets Index Fund	Gree Electric Appliances, Inc. of Zhuhai			Equity	40,000	271,880	0.031%
JNL Emerging Markets Index Fund	Rongsheng Petrochemical Co., Ltd.			Equity	57,500	84,334	0.010%
JNL Emerging Markets Index Fund	Changjiang Securities Co., Ltd.			Equity	59,100	60,369	0.007%
JNL Emerging Markets Index Fund	Zoomlion Heavy Industry Science and Technology Co., Ltd.			Equity	42,400	45,586	0.005%
JNL Emerging Markets Index Fund	PT. Sarana Menara Nusantara			Equity	2,240,800	126,684	0.014%
JNL Emerging Markets Index Fund	Luzhou Lao Jiao Vintage Co., Ltd.			Equity	12,800	268,055	0.030%
JNL Emerging Markets Index Fund	Chongqing Changan Automobile Company Limited			Equity	51,986	108,992	0.012%
JNL Emerging Markets Index Fund	People's Insurance Company (Group) of China Limited, The			Equity	851,000	404,322	0.046%
JNL Emerging Markets Index Fund	Jiangsu Yanghe Distillery Co., Ltd.			Equity	11,400	159,687	0.018%
JNL Emerging Markets Index Fund	Guangzhou Haige Communications Group Incorporated Company			Equity	28,800	43,366	0.005%
JNL Emerging Markets Index Fund	BTS Group Holdings Public Company Limited			Equity	592,100	82,825	0.009%
JNL Emerging Markets Index Fund	BOE Technology Group Co., Ltd.			Equity	192,800	122,449	0.014%
JNL Emerging Markets Index Fund	Westport Holdings Berhad			Equity	128,100	122,767	0.015%
JNL Emerging Markets Index Fund	XCMG Construction Machinery Co., Ltd.			Equity	76,800	84,673	0.010%
JNL Emerging Markets Index Fund	Hankook Tire & Technology Co., Ltd.			Equity	7,935	250,981	0.028%
JNL Emerging Markets Index Fund	Guosen Securities Co., Ltd.			Equity	65,300	109,553	0.012%
JNL Emerging Markets Index Fund	BYD Company Limited			Equity	13,000	564,040	0.064%
JNL Emerging Markets Index Fund	GF Securities Co., Ltd.			Equity	89,200	40,000	0.004%
JNL Emerging Markets Index Fund	PTT Public Company Limited			Equity	652,200	688,161	0.078%
JNL Emerging Markets Index Fund	Voltronic Power Technology Corporation			Equity	7,000	447,956	0.051%
JNL Emerging Markets Index Fund	Henan Shuanghui Investment & Development Co., Ltd.			Equity	32,300	124,011	0.014%
JNL Emerging Markets Index Fund	Indus Towers Limited			Equity	73,058	344,178	0.039%
JNL Emerging Markets Index Fund	Emar Development LLC			Equity	78,658	187,284	0.021%
JNL Emerging Markets Index Fund	ENGIE Brasil Energia S.A.			Equity	31,022	248,698	0.028%
JNL Emerging Markets Index Fund	GF Securities Co., Ltd.			Equity	100,042	137,741	0.016%
JNL Emerging Markets Index Fund	Weichai Power Co., Ltd.			Equity	49,400	108,073	0.012%
JNL Emerging Markets Index Fund	Goertek Inc.			Equity	21,200	68,184	0.008%
JNL Emerging Markets Index Fund	Giant Network Group Co., Ltd.			Equity	18,900	31,632	0.004%
JNL Emerging Markets Index Fund	MOL Hungarian Oil and Gas Public Limited Company			Equity	34,502	258,217	0.029%
JNL Emerging Markets Index Fund	KLCC Property Holdings Berhad			Equity	29,700	70,780	0.008%
JNL Emerging Markets Index Fund	Guohua Junan Securities Co., Ltd.			Equity	67,800	71,832	0.008%
JNL Emerging Markets Index Fund	PTT Public Company Limited			Equity	294,500	310,738	0.035%
JNL Emerging Markets Index Fund	PT. Telekomunikasi Indonesia (Persero) Tbk			Equity	4,841,103	956,797	0.108%
JNL Emerging Markets Index Fund	Sichuan Kelun Pharmaceutical Co., Ltd.			Equity	14,700	66,643	0.008%
JNL Emerging Markets Index Fund	Shanxi Coking Coal Energy Group Co., Ltd.			Equity	44,300	60,028	0.007%
JNL Emerging Markets Index Fund	Shenzhen Energy Group Co., Ltd.			Equity	33,600	33,384	0.004%
JNL Emerging Markets Index Fund	Luxshare Precision Industry (Kunshan) Co., Ltd.			Equity	55,500	342,009	0.039%
JNL Emerging Markets Index Fund	GenScript Biotech Corporation			Equity	98,000	173,999	0.020%
JNL Emerging Markets Index Fund	Guohua Junan Securities Co., Ltd.			Equity	34,300	71,865	0.008%
JNL Emerging Markets Index Fund	iFlytek Co., Ltd.			Equity	17,400	110,319	0.012%
JNL Emerging Markets Index Fund	Haier Smart Home Co., Ltd.			Equity	51,300	232,933	0.026%
JNL Emerging Markets Index Fund	Unilever Group Corporation Limited			Equity	13,900	47,886	0.005%
JNL Emerging Markets Index Fund	China Resources Sanjiu Medical & Pharmaceutical Co., Ltd.			Equity	4,490	30,179	0.003%
JNL Emerging Markets Index Fund	Dagim Railway Co., Ltd.			Equity	114,000	111,014	0.013%
JNL Emerging Markets Index Fund	Qinghai Salt Lake Industry Co., Ltd.			Equity	23,700	62,267	0.007%
JNL Emerging Markets Index Fund	QILIM Group Co., Ltd.			Equity	20,000	28,475	0.003%
JNL Emerging Markets Index Fund	Bangkok Expressway and Metro Public Company Limited			Equity	866,989	92,880	0.010%
JNL Emerging Markets Index Fund	Bangkok Dusit Medical Services Public Company Limited			Equity	535,900	498,938	0.056%
JNL Emerging Markets Index Fund	Sany Heavy Industry Co., Ltd.			Equity	56,600	151,307	0.017%
JNL Emerging Markets Index Fund	Inner Mongolia Yili Industrial Group Co., Ltd.			Equity	46,600	190,970	0.022%
JNL Emerging Markets Index Fund	Bangkok Bank Public Company Limited			Equity	39,400	165,687	0.019%
JNL Emerging Markets Index Fund	Central Pattana Public Company Limited			Equity	69,600	144,874	0.016%
JNL Emerging Markets Index Fund	Zijin Mining Group Co., Ltd.			Equity	136,900	351,068	0.040%
JNL Emerging Markets Index Fund	Press Metal Berhad			Equity	406,500	498,816	0.056%
JNL Emerging Markets Index Fund	China Minsheng Banking Corp., Ltd.			Equity	297,000	169,783	0.019%
JNL Emerging Markets Index Fund	Shanghai Pharmaceuticals Holding Co., Ltd.			Equity	15,400	46,184	0.005%
JNL Emerging Markets Index Fund	Public Joint Stock Company Sberbank of Russia			Equity	125,910	0	0.000%
JNL Emerging Markets Index Fund	Ningbo Zhoushan Port Group			Equity	119,800	65,277	0.007%
JNL Emerging Markets Index Fund	Younger Group Co., Ltd.			Equity	46,800	53,766	0.006%
JNL Emerging Markets Index Fund	Samsung Electronics Co., Ltd.	1.00		Equity	84,886	3,312,944	0.374%
JNL Emerging Markets Index Fund	China Everbright Bank Company Limited			Equity	318,700	162,866	0.018%
JNL Emerging Markets Index Fund	Jiangxi Copper Company Limited			Equity	12,300	42,240	0.005%
JNL Emerging Markets Index Fund	Tongres Co., Ltd.			Equity	31,700	102,494	0.012%
JNL Emerging Markets Index Fund	Napvida Participacoes E Investimentos S/A			Equity	489,577	361,272	0.041%
JNL Emerging Markets Index Fund	Minor International Public Company Limited			Equity	53,900	47,361	0.005%
JNL Emerging Markets Index Fund	Ambev S.A.			Equity	448,801	1,081,696	0.122%
JNL Emerging Markets Index Fund	Sociedad Quimica Y Minera De Chile S.A.			Equity	14,637	610,323	0.069%
JNL Emerging Markets Index Fund	JSW Steel Limited			Equity	131,911	1,606,104	0.183%
JNL Emerging Markets Index Fund	Bank of Nanjing Co., Ltd.			Equity	74,200	115,774	0.013%
JNL Emerging Markets Index Fund	Yonghui Superstores Co., Limited			Equity	66,600	34,077	0.004%
JNL Emerging Markets Index Fund	Zhongjin Gold Corporation Limited			Equity	45,900	99,209	0.011%
JNL Emerging Markets Index Fund	China Tounum Group Duty Free Corporation Limited			Equity	14,861	160,905	0.018%
JNL Emerging Markets Index Fund	Shanghai Zhenqiang Hi-Tech Park Development Co., Ltd.			Equity	12,000	40,767	0.005%
JNL Emerging Markets Index Fund	Hundsun Technologies Inc.			Equity	19,838	63,915	0.007%
JNL Emerging Markets Index Fund	B3 S.A. - Brasil, Balcão			Equity	552,843	1,099,624	0.124%
JNL Emerging Markets Index Fund	Kangmei Pharmaceutical Co., Ltd.			Equity	3,285	65,779	0.007%
JNL Emerging Markets Index Fund	Kiaoh S.A.			Equity	92,427	358,327	0.040%
JNL Emerging Markets Index Fund	Hangzhou Bank Co., Ltd.			Equity	39,600	79,075	0.009%
JNL Emerging Markets Index Fund	Bumrungrad Hospital Public Company Limited			Equity	27,600	230,139	0.026%
JNL Emerging Markets Index Fund	Shengye Company Limited			Equity	42,900	52,030	0.006%
JNL Emerging Markets Index Fund	China Southern Airlines Company Limited			Equity	129,600	120,156	0.014%
JNL Emerging Markets Index Fund	Silergy Corp.			Equity	34,000	504,067	0.057%
JNL Emerging Markets Index Fund	Nien Made Enterprise Co., Ltd.			Equity	18,000	289,645	0.033%
JNL Emerging Markets Index Fund	China Yangtze Power Co., Ltd.			Equity	188,200	805,056	0.091%
JNL Emerging Markets Index Fund	KICI Bank Limited			Equity	530,447	8,057,880	0.909%
JNL Emerging Markets Index Fund	Shanxi Lu'an Environmental Energy Dev. Co., Ltd.			Equity	20,100	50,492	0.006%
JNL Emerging Markets Index Fund	Haoting Securities Co., Ltd.			Equity	95,200	118,998	0.013%
JNL Emerging Markets Index Fund	China Northern Rare Earth (Group) High-Tech Co., Ltd.			Equity	19,300	56,379	0.006%
JNL Emerging Markets Index Fund	Baotou Iron&Steel (Group) Co., Ltd.			Equity	473,400	116,157	0.013%
JNL Emerging Markets Index Fund	IQVY, Inc.			Equity	51,729	147,945	0.017%
JNL Emerging Markets Index Fund	Bank of Beijing Co., Ltd.			Equity	152,500	126,640	0.014%
JNL Emerging Markets Index Fund	Shandong Gold Group Co., Ltd.			Equity	20,400	84,874	0.010%
JNL Emerging Markets Index Fund	Greenland Holding Group Co., Ltd			Equity	86,700	28,779	0.003%
JNL Emerging Markets Index Fund	Huatai Securities Co., Ltd.			Equity	59,000	146,877	0.017%
JNL Emerging Markets Index Fund	Metallurgical Corporation of China Ltd.			Equity	127,500	60,295	0.007%
JNL Emerging Markets Index Fund	CTIC Securities Company Limited			Equity	96,270	377,426	0.043%
JNL Emerging Markets Index Fund	China Midlandem Co., Ltd.			Equity	115,600	141,588	0.016%
JNL Emerging Markets Index Fund	Industrial Securities Co., Ltd.			Equity	89,830	86,872	0.010%
JNL Emerging Markets Index Fund	Seazen Holdings Co., Ltd.			Equity	23,300	46,993	0.005%
JNL Emerging Markets Index Fund	Hua Xia Bank Co., Limited			Equity	100,000	112,281	0.013%
JNL Emerging Markets Index Fund	Ping An Insurance (Group) Company of China, Ltd.			Equity	82,200	661,781	0.075%
JNL Emerging Markets Index Fund	Huatai Securities Co., Ltd.			Equity	106,000	161,765	0.018%
JNL Emerging Markets Index Fund	Zhejiang Longsheng Group Co., Ltd.			Equity	23,700	35,378	0.004%
JNL Emerging Markets Index Fund	COSCO Shipping Holdings Co., Ltd.			Equity	76,900	171,064	0.019%
JNL Emerging Markets Index Fund	Banco Bradesco SA			Equity	548,129	1,528,086	0.172%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Shanghai Pudong Development Bank Co., Ltd.			Equity	220,000	315,857	0.036%
JNL Emerging Markets Index Fund	Shanghai International Port(Group) Co.,Ltd			Equity	23,800	34,246	0.04%
JNL Emerging Markets Index Fund	Tencent Holdings Limited			Equity	552,944	30,697,029	3.463%
JNL Emerging Markets Index Fund	Huaneng Power International, Inc.			Equity	97,000	105,818	0.012%
JNL Emerging Markets Index Fund	Berli Jucker Public Company Limited			Equity	114,390	87,845	0.010%
JNL Emerging Markets Index Fund	Macdiao S.A.			Equity	41,821	71,087	0.008%
JNL Emerging Markets Index Fund	China Merchants Bank Co., Ltd.			Equity	160,100	850,630	0.096%
JNL Emerging Markets Index Fund	China Petroleum & Chemical Corporation			Equity	314,100	309,691	0.035%
JNL Emerging Markets Index Fund	Qingdao Port International Co., Ltd.			Equity	71,000	54,524	0.006%
JNL Emerging Markets Index Fund	Industrial Bank Co., Ltd.			Equity	147,000	404,086	0.046%
JNL Emerging Markets Index Fund	Hanergy Thin Film Power Group Limited			Equity	3,098,000	49,148	0.005%
JNL Emerging Markets Index Fund	Beijing Tongrentang Co., Ltd.			Equity	12,500	74,273	0.008%
JNL Emerging Markets Index Fund	Tonghua Dongbao Pharmaceutical Co., Ltd.			Equity	13,900	17,373	0.002%
JNL Emerging Markets Index Fund	Fuyao Glass Industry Group Co., Ltd.			Equity	15,300	126,804	0.014%
JNL Emerging Markets Index Fund	Jiangsu Hengshui Pharmaceutical Co., Ltd.			Equity	50,860	376,027	0.042%
JNL Emerging Markets Index Fund	Quzhou Xin'an Development Co.,Ltd.			Equity	63,900	23,856	0.003%
JNL Emerging Markets Index Fund	Poly Developments and Holdings Group Co., Ltd.			Equity	96,000	148,255	0.017%
JNL Emerging Markets Index Fund	SAC Motor Corporation Limited			Equity	58,300	121,104	0.014%
JNL Emerging Markets Index Fund	Fuyao Glass Industry Group Co., Ltd.			Equity	57,600	387,230	0.044%
JNL Emerging Markets Index Fund	Oriental Pearl Group Co., Ltd.			Equity	33,100	35,338	0.004%
JNL Emerging Markets Index Fund	Shanghai Electric Group Company Limited			Equity	53,500	34,340	0.004%
JNL Emerging Markets Index Fund	Bancoitmba SA			Equity	29,461	262,134	0.030%
JNL Emerging Markets Index Fund	Zhangzhou Pien Tze Huang Pharmaceutical Co., Ltd.			Equity	4,500	184,671	0.019%
JNL Emerging Markets Index Fund	Zhejiang China Commodities City Group Co., Ltd.			Equity	52,500	72,190	0.008%
JNL Emerging Markets Index Fund	COSCO SHIPPING Development Co., Ltd.			Equity	121,100	45,443	0.005%
JNL Emerging Markets Index Fund	Asino Co.Ltd.			Equity	17,500	24,963	0.003%
JNL Emerging Markets Index Fund	Bancoitmba SA			Equity	44,984	385,288	0.041%
JNL Emerging Markets Index Fund	Xinyi Solar Holdings Limited			Equity	483,534	264,004	0.030%
JNL Emerging Markets Index Fund	Bank of Communications Co., Ltd.			Equity	295,300	310,401	0.035%
JNL Emerging Markets Index Fund	Reinet Investments S.C.A.			Equity	14,278	395,238	0.045%
JNL Emerging Markets Index Fund	Boaochen Iron & Steel Co., Ltd.			Equity	161,400	159,095	0.018%
JNL Emerging Markets Index Fund	Intouch Holdings Public Company Limited			Equity	80,000	258,144	0.029%
JNL Emerging Markets Index Fund	China Construction Bank Corporation			Equity	67,700	76,323	0.009%
JNL Emerging Markets Index Fund	Gemdale Corporation			Equity	40,600	31,224	0.004%
JNL Emerging Markets Index Fund	BTS Group Holdings Public Company Limited			Equity	371,300	51,938	0.006%
JNL Emerging Markets Index Fund	Hengshui Optic Electric Co., Ltd.			Equity	18,700	46,108	0.005%
JNL Emerging Markets Index Fund	Advanced Info Service PLC.			Equity	18,200	147,039	0.017%
JNL Emerging Markets Index Fund	CP ALL Public Company Limited			Equity	183,900	374,074	0.042%
JNL Emerging Markets Index Fund	Xiamen C&D Inc.			Equity	28,200	40,542	0.005%
JNL Emerging Markets Index Fund	China Merchants Securities Co., Ltd.			Equity	28,700	79,016	0.009%
JNL Emerging Markets Index Fund	China Eastern Airlines Corporation Limited			Equity	150,100	88,168	0.010%
JNL Emerging Markets Index Fund	Luoning Cheng Da Co.,Ltd.			Equity	9,500	15,560	0.002%
JNL Emerging Markets Index Fund	Sichuan Chuantou Energy Co., Ltd.			Equity	26,600	71,440	0.008%
JNL Emerging Markets Index Fund	Tasly Pharmaceutical Group Co., Ltd.			Equity	12,800	29,324	0.003%
JNL Emerging Markets Index Fund	Vipshop (China) Co., Ltd.			Equity	36,914	564,927	0.064%
JNL Emerging Markets Index Fund	Bid Corporation (Pty) Ltd			Equity	33,427	856,538	0.097%
JNL Emerging Markets Index Fund	Ahui Conch Cement Company Limited			Equity	39,400	145,553	0.016%
JNL Emerging Markets Index Fund	Sime Darby Plantation Berhad			Equity	232,800	270,863	0.031%
JNL Emerging Markets Index Fund	SDIC Power Holdings Co., Ltd.			Equity	50,900	122,912	0.014%
JNL Emerging Markets Index Fund	TAL Education Group			Equity	46,489	550,430	0.062%
JNL Emerging Markets Index Fund	Huadian Power International Corporation Limited			Equity	85,900	72,910	0.008%
JNL Emerging Markets Index Fund	Zhengzhou Yutong Bus Co., Ltd.			Equity	19,200	72,014	0.008%
JNL Emerging Markets Index Fund	Avic Capital Co., Ltd.			Equity	97,400	50,820	0.006%
JNL Emerging Markets Index Fund	Offshore Oil Engineering Co., Ltd.			Equity	38,100	31,632	0.004%
JNL Emerging Markets Index Fund	ASE Technology Holding Co., Ltd.			Equity	345,000	1,631,457	0.184%
JNL Emerging Markets Index Fund	Sarjan Optoelectronics Co., Ltd.			Equity	48,200	85,024	0.010%
JNL Emerging Markets Index Fund	Orion Incorporation			Equity	2,500	171,184	0.021%
JNL Emerging Markets Index Fund	Sinolink Securities Co.,Ltd.			Equity	22,700	31,518	0.004%
JNL Emerging Markets Index Fund	Indorama Ventures Public Company Limited			Equity	187,700	144,287	0.016%
JNL Emerging Markets Index Fund	Axis Bank Limited			Equity	231,214	3,405,346	0.048%
JNL Emerging Markets Index Fund	Sinopex Shanghai Petrochemical Company Limited			Equity	40,200	189,068	0.021%
JNL Emerging Markets Index Fund	Power Construction Corporation of China			Equity	169,700	135,473	0.015%
JNL Emerging Markets Index Fund	Shanxi Xinghuacun Fenjui Group., Ltd			Equity	9,460	290,039	0.033%
JNL Emerging Markets Index Fund	China Aviation Power Co., Ltd.			Equity	17,800	104,055	0.012%
JNL Emerging Markets Index Fund	Chejyang Huayou Cobalt Co., Ltd.			Equity	3,140	3,140	0.000%
JNL Emerging Markets Index Fund	Grupo de Inversiones Suramericanas S.A.			Equity	5,156	35,550	0.004%
JNL Emerging Markets Index Fund	Nemmarle Corp.			Equity	2,007	91,337	0.010%
JNL Emerging Markets Index Fund	Soochow Securities Co., Ltd.			Equity	55,380	65,717	0.007%
JNL Emerging Markets Index Fund	TBEA Co., Ltd.			Equity	50,050	304,414	0.034%
JNL Emerging Markets Index Fund	Jointown Pharmaceutical Group Co., Ltd.			Equity	53,011	43,327	0.005%
JNL Emerging Markets Index Fund	Airports of Thailand Public Company Limited			Equity	213,400	424,323	0.048%
JNL Emerging Markets Index Fund	Zhejiang Chint Electric Co., Ltd.			Equity	23,000	74,180	0.008%
JNL Emerging Markets Index Fund	China CITIC Bank Corporation Limited			Equity	168,800	170,808	0.019%
JNL Emerging Markets Index Fund	Jiucheng Molybdenum Group Co., Ltd.			Equity	27,100	45,611	0.005%
JNL Emerging Markets Index Fund	Rumo S.A.			Equity	116,699	430,148	0.049%
JNL Emerging Markets Index Fund	Grupo de Inversiones Suramericanas S.A.			Equity	6,236	31,432	0.004%
JNL Emerging Markets Index Fund	Zhongke Online PAC Insurance Co., Ltd.			Equity	62,300	124,663	0.014%
JNL Emerging Markets Index Fund	Interlobe Aviation Limited			Equity	16,725	959,021	0.108%
JNL Emerging Markets Index Fund	China Film Co., Ltd.			Equity	18,100	31,039	0.004%
JNL Emerging Markets Index Fund	China National Nuclear Power Co Ltd			Equity	144,500	228,782	0.026%
JNL Emerging Markets Index Fund	Zybus Lifesciences Limited			Equity	24,553	314,556	0.035%
JNL Emerging Markets Index Fund	Samsung SDS Co., Ltd.			Equity	4,025	177,758	0.019%
JNL Emerging Markets Index Fund	Enel Chile S.A.			Equity	2,807,140	154,685	0.017%
JNL Emerging Markets Index Fund	SDIC Capital Co., Ltd.			Equity	53,100	61,487	0.007%
JNL Emerging Markets Index Fund	Shanxi Coal and Chemical Industry Group Co.,Ltd.			Equity	73,900	288,330	0.033%
JNL Emerging Markets Index Fund	Spring Airlines Co., Ltd.			Equity	8,700	9,000	0.000%
JNL Emerging Markets Index Fund	Eurobank Egeasas Services And Holdings S.A			Equity	266,679	611,783	0.069%
JNL Emerging Markets Index Fund	Punjab National Bank			Equity	232,852	299,456	0.034%
JNL Emerging Markets Index Fund	Bank of Jiangsu Co., Ltd.			Equity	153,200	182,629	0.021%
JNL Emerging Markets Index Fund	Samsung Biologics Co., Ltd.			Equity	1,851	1,387,651	0.156%
JNL Emerging Markets Index Fund	HLA Group Corp., Ltd.			Equity	35,400	38,049	0.004%
JNL Emerging Markets Index Fund	Braskem S.A.			Equity	10,423	38,189	0.004%
JNL Emerging Markets Index Fund	Havells India Limited			Equity	22,544	543,438	0.061%
JNL Emerging Markets Index Fund	Wal-Mart de Mexico, S.A.B. de C.V.			Equity	510,000	1,538,834	0.174%
JNL Emerging Markets Index Fund	GlobalWaters Co., Ltd.			Equity	24,000	345,481	0.039%
JNL Emerging Markets Index Fund	BOC Aviation Limited			Equity	20,200	170,995	0.019%
JNL Emerging Markets Index Fund	Foshan Haitian Flavouring & Food Co., Ltd.			Equity	41,702	283,544	0.032%
JNL Emerging Markets Index Fund	Doshan Bobcat Inc.			Equity	6,018	187,788	0.021%
JNL Emerging Markets Index Fund	Yum China Holdings, Inc.			Equity	37,180	1,673,844	0.189%
JNL Emerging Markets Index Fund	LONGi Green Energy Technology Co., Ltd.			Equity	58,640	145,569	0.016%
JNL Emerging Markets Index Fund	Samsung C&T Corporation			Equity	9,117	960,810	0.108%
JNL Emerging Markets Index Fund	Avenue Supermarts Limited			Equity	10,415	1,000,865	0.112%
JNL Emerging Markets Index Fund	Zhejiang Zhenneng Electric Power Co., Ltd			Equity	59,500	56,849	0.006%
JNL Emerging Markets Index Fund	Grasim Industries Ltd			Equity	40,020	1,339,416	0.151%
JNL Emerging Markets Index Fund	State Bank of India			Equity	180,829	1,705,006	0.192%
JNL Emerging Markets Index Fund	M Price Group			Equity	27,365	429,182	0.048%
JNL Emerging Markets Index Fund	China Resources Pharmaceutical Group Limited			Equity	210,000	171,378	0.019%
JNL Emerging Markets Index Fund	Everbright Securities Company Limited			Equity	27,300	74,173	0.008%
JNL Emerging Markets Index Fund	Dongxing Securities Co., Ltd.			Equity	31,000	48,018	0.005%
JNL Emerging Markets Index Fund	Orient Securities Company Limited			Equity	71,400	112,219	0.013%
JNL Emerging Markets Index Fund	Tech Mahindra Limited			Equity	66,828	1,262,285	0.142%
JNL Emerging Markets Index Fund	Alibaba Health Information Technology Limited			Equity	474,100	319,717	0.036%
JNL Emerging Markets Index Fund	China Railway Signal & Communication Corporation Limited			Equity	178,000	74,063	0.008%
JNL Emerging Markets Index Fund	China Literature Limited			Equity	47,400	195,065	0.022%
JNL Emerging Markets Index Fund	CGN Power Co., Ltd.			Equity	1076,000	413,061	0.047%
JNL Emerging Markets Index Fund	Huanan Securities Co., Ltd.			Equity	33,900	28,695	0.003%
JNL Emerging Markets Index Fund	Banco Actinver, S.A., Institucion de Banca Multiple, Grupo Financiero Actinver			Equity	300,118	349,503	0.039%
JNL Emerging Markets Index Fund	China International Capital Corporation Limited			Equity	146,800	259,473	0.029%
JNL Emerging Markets Index Fund	LG Chem, Ltd.	1.00		Equity	662	123,024	0.014%
JNL Emerging Markets Index Fund	ITAUI Unibanco Holding SA			Equity	492,624	3,307,930	0.373%
JNL Emerging Markets Index Fund	Grupo Aval Acciones y Valores S.A.			Equity	106,415	10,677	0.001%
JNL Emerging Markets Index Fund	Gerdau S.A.			Equity	143,286	503,422	0.057%
JNL Emerging Markets Index Fund	LG H&H Co., Ltd.	1.00		Equity	272	33,382	0.004%
JNL Emerging Markets Index Fund	Anoroacific Corporation			Equity	1,174	36,084	0.004%
JNL Emerging Markets Index Fund	Hyundai Motor Company	2.00		Equity	3,626	487,709	0.055%
JNL Emerging Markets Index Fund	Companhia Energetica de Minas Gerais-CEMG			Equity	189,101	435,111	0.049%
JNL Emerging Markets Index Fund	Hyundai Motor Company	1.00		Equity	2,018	263,022	0.030%
JNL Emerging Markets Index Fund	Public Joint Stock Company Surzumeftgaz			Equity	1,025,349	0	0.000%
JNL Emerging Markets Index Fund	Iltusa S.A.			Equity	557,304	1,144,196	0.129%
JNL Emerging Markets Index Fund	Orient Overseas (International) Limited			Equity	13,500	199,404	0.022%
JNL Emerging Markets Index Fund	Accion Technology Corporation			Equity	52,000	872,013	0.098%
JNL Emerging Markets Index Fund	Wool Financial Group Inc.			Equity	69,357	715,803	0.081%
JNL Emerging Markets Index Fund	Shanghai Commercial & Savings Bank, Ltd., The			Equity	510,611	618,233	0.070%
JNL Emerging Markets Index Fund	ABSA Group			Equity	83,392	848,146	0.096%
JNL Emerging Markets Index Fund	Sunshine City Group Co., Ltd.			Equity	31,100	31,902	0.004%
JNL Emerging Markets Index Fund	Aluminum Corporation of China Limited			Equity	63,900	89,257	0.009%
JNL Emerging Markets Index Fund	Huaxi Securities Co., Ltd.			Equity	29,000	36,046	0.004%
JNL Emerging Markets Index Fund	Foxconn Industrial Internet Co., Ltd.			Equity	76,000	274,472	0.031%
JNL Emerging Markets Index Fund	Universal Scientific Industrial (Shanghai) Co., Ltd.			Equity	16,800	38,246	0.004%
JNL Emerging Markets Index Fund	Motor Oil (Hellas) Corinth Refineries S.A.			Equity	4,303	13,988	0.001%
JNL Emerging Markets Index Fund	Dongfang Electric Co., Ltd.			Equity	39,800	54,502	0.006%
JNL Emerging Markets Index Fund	East Buy Holding Limited			Equity	30,000	75,565	0.009%
JNL Emerging Markets Index Fund	Embassy Office Parks Private Limited			Equity	56,814	264,685	0.030%
JNL Emerging Markets Index Fund	SRF Limited			Equity	13,196	194,316	0.021%
JNL Emerging Markets Index Fund	Coca-Cola FEMSA, S.A.B. de C.V.			Equity	54,173	478,670	0.054%
JNL Emerging Markets Index Fund	Yantai Jereh Offshore Service Group Co., Ltd.			Equity	8,000	37,412	0.004%
JNL Emerging Markets Index Fund	Ostar Fuel (WOOD)			Equity	84,932	356,018	0.040%
JNL Emerging Markets Index Fund	Li Ning Company Limited			Equity	229,000	564,180	0.064%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Banco BTG Pactual S/A			Equity	114,219	701,957	0.079%
JNL Emerging Markets Index Fund	ICICI Lombard General Insurance Company Limited			Equity	23,158	69,547	0.06%
JNL Emerging Markets Index Fund	PT Barito Pacific Tbk			Equity	2,272,584	158,269	0.018%
JNL Emerging Markets Index Fund	Henyui Petrochemical Co., Ltd.			Equity	38,600	38,257	0.004%
JNL Emerging Markets Index Fund	Cosco Shipping Energy Transportation Co., Ltd.			Equity	106,000	128,668	0.015%
JNL Emerging Markets Index Fund	Energias S/A			Equity	24,861	245,452	0.023%
JNL Emerging Markets Index Fund	Suzhou Dongshan Precision Manufacturing Co., Ltd.			Equity	4,600	15,440	0.002%
JNL Emerging Markets Index Fund	Inner Mongolia Junzheng Energy & Chemical Group Co., Ltd.			Equity	89,800	58,414	0.007%
JNL Emerging Markets Index Fund	Bank of Chengdu Co., Ltd.			Equity	40,400	90,267	0.010%
JNL Emerging Markets Index Fund	Catonga Securities Co., Ltd.			Equity	49,530	61,200	0.007%
JNL Emerging Markets Index Fund	Wuxi Apo Tec Co., Ltd.			Equity	39,698	207,158	0.031%
JNL Emerging Markets Index Fund	Mesaeeed Petrochemical Holding Company Q.P.S.C.			Equity	408,475	182,416	0.021%
JNL Emerging Markets Index Fund	Yankuang Energy Group Company Limited			Equity	27,865	66,105	0.007%
JNL Emerging Markets Index Fund	United Spirits Limited			Equity	32,301	614,524	0.069%
JNL Emerging Markets Index Fund	Hanoch Pharmaceutical Group Company Limited			Equity	101,786	277,334	0.041%
JNL Emerging Markets Index Fund	Al Ragi Banking and Investment Corporation			Equity	199,833	4,647,581	0.524%
JNL Emerging Markets Index Fund	Saudi Basic Industries Corporation			Equity	91,705	1,833,467	0.207%
JNL Emerging Markets Index Fund	Saudi National Bank, The			Equity	298,935	2,737,849	0.309%
JNL Emerging Markets Index Fund	Cholamandilam Investment and Finance Company Limited			Equity	42,294	914,530	0.092%
JNL Emerging Markets Index Fund	Tianq Lithium Industry Co., Ltd.			Equity	13,800	68,548	0.008%
JNL Emerging Markets Index Fund	Chow Tai Fook Jewellery Group Limited			Equity	192,200	213,292	0.024%
JNL Emerging Markets Index Fund	Wiwynn Corporation			Equity	11,000	602,457	0.068%
JNL Emerging Markets Index Fund	Impala Platinum Holdings Limited			Equity	86,197	483,932	0.055%
JNL Emerging Markets Index Fund	ICICI Prudential Life Insurance Company Limited			Equity	39,276	366,224	0.041%
JNL Emerging Markets Index Fund	Sino-American Silicon Products Inc.			Equity	64,000	358,382	0.040%
JNL Emerging Markets Index Fund	PI Industries Limited			Equity	9,974	444,626	0.050%
JNL Emerging Markets Index Fund	Saudi Telecom Company			Equity	184,743	2,155,263	0.243%
JNL Emerging Markets Index Fund	Saudi International Petrochemical Company (Sipchem)			Equity	38,756	303,437	0.034%
JNL Emerging Markets Index Fund	Riyadh Bank			Equity	146,377	974,100	0.110%
JNL Emerging Markets Index Fund	Bank Aljazira			Equity	51,696	236,736	0.027%
JNL Emerging Markets Index Fund	Bankque Saudi France			Equity	58,780	585,728	0.067%
JNL Emerging Markets Index Fund	Advanced Petrochemical Company			Equity	11,879	122,880	0.014%
JNL Emerging Markets Index Fund	Bank Albilad			Equity	63,826	678,269	0.077%
JNL Emerging Markets Index Fund	Saudi Industrial Investment Group			Equity	35,222	183,979	0.021%
JNL Emerging Markets Index Fund	Jairi Marketing Company			Equity	65,750	230,429	0.026%
JNL Emerging Markets Index Fund	The Company For Cooperative Insurance			Equity	7,792	378,480	0.043%
JNL Emerging Markets Index Fund	Saudi British Bank			Equity	101,123	936,151	0.106%
JNL Emerging Markets Index Fund	Ethiad Etilaat Company			Equity	39,127	545,633	0.062%
JNL Emerging Markets Index Fund	Savola Group			Equity	54,270	390,633	0.044%
JNL Emerging Markets Index Fund	Saudi Electricity Company			Equity	81,467	361,969	0.041%
JNL Emerging Markets Index Fund	Yanbu National Petrochemical Company			Equity	27,741	316,074	0.036%
JNL Emerging Markets Index Fund	Saudi Arabian Fertilizer Company			Equity	24,582	779,612	0.088%
JNL Emerging Markets Index Fund	Saudi Kayan Petrochemical Company			Equity	70,426	157,925	0.018%
JNL Emerging Markets Index Fund	Almarai Company			Equity	29,548	378,480	0.043%
JNL Emerging Markets Index Fund	Rabigh Refining and Petrochemical Company			Equity	41,209	90,243	0.010%
JNL Emerging Markets Index Fund	Santana Mining Inc.			Equity	126,928	1,653,851	0.187%
JNL Emerging Markets Index Fund	Alinma Bank			Equity	124,961	950,442	0.107%
JNL Emerging Markets Index Fund	BUPA Arabia for Cooperative Insurance Company			Equity	8,183	452,457	0.051%
JNL Emerging Markets Index Fund	Bosideng International Holdings Limited			Equity	388,000	222,232	0.025%
JNL Emerging Markets Index Fund	China Railway Group Limited			Equity	123,800	114,884	0.013%
JNL Emerging Markets Index Fund	HDFC Life Insurance Company Limited			Equity	98,341	845,009	0.095%
JNL Emerging Markets Index Fund	Hadilao International Holding Ltd.			Equity	147,241	360,063	0.041%
JNL Emerging Markets Index Fund	Wanhua Chemical Group Co., Ltd.			Equity	24,800	320,029	0.036%
JNL Emerging Markets Index Fund	Asynchem Laboratories (Tianjin) Co., Ltd.			Equity	3,500	41,203	0.005%
JNL Emerging Markets Index Fund	Inspur Electronic Information Industry Co., Ltd.			Equity	6,300	37,300	0.004%
JNL Emerging Markets Index Fund	Venustech Group Inc.			Equity	9,200	22,416	0.003%
JNL Emerging Markets Index Fund	Great Wall Motor Company Limited			Equity	17,600	60,531	0.008%
JNL Emerging Markets Index Fund	Autobio Diagnostics Co., Ltd.			Equity	5,400	36,834	0.004%
JNL Emerging Markets Index Fund	Yifeng Pharmacy Chain Co., Ltd.			Equity	12,448	45,232	0.005%
JNL Emerging Markets Index Fund	WUXI Apo Tec Co., Ltd.			Equity	15,480	113,836	0.013%
JNL Emerging Markets Index Fund	Shanghai Jiangnan Tuffang Construction Co., Ltd.			Equity	118,100	118,100	0.001%
JNL Emerging Markets Index Fund	Southwest Securities Co., Ltd.			Equity	82,000	56,452	0.006%
JNL Emerging Markets Index Fund	Yunda Holding Co., Ltd.			Equity	28,800	36,317	0.004%
JNL Emerging Markets Index Fund	Companhia Paranaense De Energia			Equity	100,242	188,424	0.021%
JNL Emerging Markets Index Fund	Obay Advance Corporation, S.A.B. de C.V.			Equity	87,705	27,705	0.003%
JNL Emerging Markets Index Fund	HDFC Bank Limited			Equity	573,716	11,798,717	1.331%
JNL Emerging Markets Index Fund	Bandhan Bank Limited			Equity	64,031	152,534	0.017%
JNL Emerging Markets Index Fund	Indraprastha Gas Limited			Equity	39,793	269,177	0.030%
JNL Emerging Markets Index Fund	Land and Houses Public Company Limited			Equity	324,200	24,448	0.003%
JNL Emerging Markets Index Fund	Neoenegia S.A.			Equity	60,517	227,837	0.026%
JNL Emerging Markets Index Fund	Bharat Electronics Limited			Equity	370,168	1,268,061	0.143%
JNL Emerging Markets Index Fund	Beebe, S.A. de C.V.			Equity	34,700	54,632	0.006%
JNL Emerging Markets Index Fund	Colgate-Palmolive (India) Limited			Equity	13,253	38,253	0.004%
JNL Emerging Markets Index Fund	Qatar International Islamic Bank (Q.P.S.C)			Equity	132,892	401,370	0.045%
JNL Emerging Markets Index Fund	Info Edge (India) Limited			Equity	8,308	806,155	0.091%
JNL Emerging Markets Index Fund	Zoomlion Heavy Industry Science and Technology Co., Ltd.			Equity	158,200	115,821	0.013%
JNL Emerging Markets Index Fund	Berger Paints India Limited			Equity	30,066	30,066	0.003%
JNL Emerging Markets Index Fund	SBI Life Insurance Company Limited			Equity	41,062	905,972	0.102%
JNL Emerging Markets Index Fund	HDFC Asset Management Company Limited			Equity	10,722	551,453	0.062%
JNL Emerging Markets Index Fund	Alibaba Group Holding Limited			Equity	1,636,324	22,030,095	2.485%
JNL Emerging Markets Index Fund	Nanjing Science City Development Co., Ltd.			Equity	13,600	38,081	0.004%
JNL Emerging Markets Index Fund	Fuzhou Tiensy Electric Co., Ltd.			Equity	45,400	39,395	0.004%
JNL Emerging Markets Index Fund	China Jushi Co., Ltd.			Equity	41,377	68,861	0.008%
JNL Emerging Markets Index Fund	Baic Bluepark New Energy Technology Co., Ltd.			Equity	26,900	30,602	0.003%
JNL Emerging Markets Index Fund	Changchun High-Tech Industries Group Inc.			Equity	4,300	66,646	0.008%
JNL Emerging Markets Index Fund	Beijing Tianan Biological Products Corporation Limited			Equity	11,800	11,800	0.001%
JNL Emerging Markets Index Fund	AEC Aero-Engine Control Co., Ltd.			Equity	10,700	33,308	0.004%
JNL Emerging Markets Index Fund	Zhejiang Grandwall Electric Science&Technology Co., Ltd.			Equity	31,300	46,326	0.005%
JNL Emerging Markets Index Fund	Ningbo Joyson Electronics Co., Ltd.			Equity	10,000	24,432	0.003%
JNL Emerging Markets Index Fund	Atchul Guying Distillery Company Limited			Equity	2,800	2,748	0.003%
JNL Emerging Markets Index Fund	Nanjing Iron and Steel Co., Ltd.			Equity	36,700	25,276	0.003%
JNL Emerging Markets Index Fund	Jiangsu Yangrong Chemical Co., Ltd.			Equity	2,730	23,978	0.003%
JNL Emerging Markets Index Fund	Jiangsu Zhongtan Technology Co., Ltd.			Equity	13,200	28,999	0.003%
JNL Emerging Markets Index Fund	Aiscogate P.L.C.			Equity	6,400	12,793	0.001%
JNL Emerging Markets Index Fund	Hubei Jumpcan Pharmaceutical Co., Ltd.			Equity	9,000	39,807	0.004%
JNL Emerging Markets Index Fund	China National Software and Service Company Limited			Equity	7,540	44,984	0.005%
JNL Emerging Markets Index Fund	Top Choice Medical Investment Co., Inc.			Equity	4,621	38,521	0.004%
JNL Emerging Markets Index Fund	Huain Cement Co., Ltd.			Equity	19,000	38,268	0.004%
JNL Emerging Markets Index Fund	Xiamen Tongtong Co., Ltd.			Equity	12,400	36,620	0.004%
JNL Emerging Markets Index Fund	Joet Group Co., Ltd.			Equity	17,100	86,041	0.010%
JNL Emerging Markets Index Fund	China National Medicines Corporation Ltd.			Equity	7,000	34,277	0.004%
JNL Emerging Markets Index Fund	Jongae Hi-Tech Industrial and Commercial Holding Co., Ltd.			Equity	8,400	27,710	0.003%
JNL Emerging Markets Index Fund	Livzon Pharmaceutical Group Inc.			Equity	11,000	63,417	0.007%
JNL Emerging Markets Index Fund	Shanghai Baosight Software Co., Ltd.			Equity	15,340	72,134	0.008%
JNL Emerging Markets Index Fund	Pangang Group Steel Vanadium & Titanium Co., Ltd.			Equity	73,700	30,768	0.003%
JNL Emerging Markets Index Fund	Shanghai Electric Power Co., Ltd.			Equity	26,600	36,490	0.004%
JNL Emerging Markets Index Fund	Wuchan Zhongda Group Co., Ltd.			Equity	44,100	31,913	0.004%
JNL Emerging Markets Index Fund	Shanghai Jin Jiang International Hotels Co., Ltd.			Equity	10,100	44,544	0.005%
JNL Emerging Markets Index Fund	Huailan Biological Engineering, Inc.			Equity	18,800	47,745	0.005%
JNL Emerging Markets Index Fund	Zhejiang Supor Co., Ltd.			Equity	5,500	45,825	0.005%
JNL Emerging Markets Index Fund	Zhejiang Sanhai Intelligent Controls Co., Ltd.			Equity	33,400	112,699	0.013%
JNL Emerging Markets Index Fund	Zhejiang Wanfeng Auto Wheel Co., Ltd.			Equity	20,700	44,659	0.005%
JNL Emerging Markets Index Fund	Westone Information Industry Inc.			Equity	8,000	19,296	0.002%
JNL Emerging Markets Index Fund	Zhejiang NHU Company Ltd.			Equity	31,248	100,156	0.011%
JNL Emerging Markets Index Fund	The Pacific Securities Co., Ltd.			Equity	46,800	30,401	0.003%
JNL Emerging Markets Index Fund	Western Mining Co., Ltd.			Equity	23,000	61,442	0.007%
JNL Emerging Markets Index Fund	Unigroup Guoxin Microelectronics Co., Ltd.			Equity	4,999	44,017	0.005%
JNL Emerging Markets Index Fund	Guoquan Hi-Tech Co., Ltd.			Equity	13,600	44,498	0.005%
JNL Emerging Markets Index Fund	Navinfo Co., Ltd.			Equity	19,000	25,415	0.003%
JNL Emerging Markets Index Fund	Zhejiang Wexing New Building Materials Co., Ltd.			Equity	13,400	28,331	0.003%
JNL Emerging Markets Index Fund	Tianjin Zhonghuan Semiconductor Co., Ltd.			Equity	2,625	3,872	0.000%
JNL Emerging Markets Index Fund	Fujian Sunner Development Co., Ltd.			Equity	13,600	26,734	0.003%
JNL Emerging Markets Index Fund	Shandong Sun Paper Co., Ltd.			Equity	22,200	47,284	0.005%
JNL Emerging Markets Index Fund	GRG Banking Equipment Co., Ltd.			Equity	25,400	42,168	0.005%
JNL Emerging Markets Index Fund	Jiangsu Yuyue Medical Equipment & Supply Co., Ltd.			Equity	2,200	11,950	0.001%
JNL Emerging Markets Index Fund	Shenzhen Goodix Technology Co., Ltd.			Equity	4,000	39,599	0.004%
JNL Emerging Markets Index Fund	Tongkun Group Co., Ltd.			Equity	15,900	27,419	0.003%
JNL Emerging Markets Index Fund	Nauva Technology Group Co., Ltd.			Equity	3,800	198,218	0.022%
JNL Emerging Markets Index Fund	China Securities Co., Ltd.			Equity	34,200	129,347	0.015%
JNL Emerging Markets Index Fund	Jiangsu Hengli Hydraulic Technology Co., Ltd.			Equity	12,300	110,368	0.012%
JNL Emerging Markets Index Fund	Changzhou Xingyu Automotive Lighting Systems Co., Ltd.			Equity	2,800	80,751	0.009%
JNL Emerging Markets Index Fund	WUS Pintest Circuit (Kunshan) Co., Ltd.			Equity	10,900	62,437	0.007%
JNL Emerging Markets Index Fund	Chongqing Fuling Zhacai Group Co., Ltd.			Equity	10,660	23,613	0.003%
JNL Emerging Markets Index Fund	Shennan Circuits Co., Ltd.			Equity	5,100	80,716	0.009%
JNL Emerging Markets Index Fund	Wuhan Guide Infrared Co., Ltd.			Equity	44,080	45,805	0.005%
JNL Emerging Markets Index Fund	Nanjing King-Friend Biochemical Pharmaceutical Co., Ltd.			Equity	12,844	27,793	0.003%
JNL Emerging Markets Index Fund	Laoning Port Co., Ltd.			Equity	185,000	39,030	0.004%
JNL Emerging Markets Index Fund	Hebei Yangyuan Zhihui Beverage Co., Ltd.			Equity	10,900	35,667	0.004%
JNL Emerging Markets Index Fund	Longbia Group Co., Ltd.			Equity	21,500	63,169	0.007%
JNL Emerging Markets Index Fund	Linxi Tech (Guangdong) Company			Equity	65,100	59,751	0.008%
JNL Emerging Markets Index Fund	GEM Co., Ltd.			Equity	45,700	46,467	0.005%
JNL Emerging Markets Index Fund	Shijiazhuang Yiling Pharmaceutical Co., Ltd.			Equity	17,640	45,079	0.005%
JNL Emerging Markets Index Fund	Guangdong Haidi Group Co., Ltd.			Equity	9,100	61,621	0.007%
JNL Emerging Markets Index Fund	Sinotrans Limited			Equity	50,800	39,781	0.004%
JNL Emerging Markets Index Fund	Sichuan Swellfun Co., Ltd.			Equity	4,700	30,417	0.003%
JNL Emerging Markets Index Fund	Jiangsu King'S Luck Brewery Joint-Stock Co., Ltd.			Equity	8,300	60,134	0.007%
JNL Emerging Markets Index Fund	Nanling Securities Co., Ltd.			Equity	23,200	31,755	0.004%
JNL Emerging Markets Index Fund	Zhejiang Dengli Machinery Co., Ltd.			Equity	4,000	33,728	0.004%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Shanghai M&G Stationery Inc			Equity	9,800	49,145	0.006%
JNL Emerging Markets Index Fund	Zhejiang Securities Co., Ltd.			Equity	38,100	17,688	0.006%
JNL Emerging Markets Index Fund	Guangzhou Kingmed Diagnostics Group Co., Ltd.			Equity	4,900	25,599	0.003%
JNL Emerging Markets Index Fund	Juneyao Airlines Co., Ltd.			Equity	19,700	37,811	0.004%
JNL Emerging Markets Index Fund	GigaDevice Semiconductor Inc.			Equity	3,400	42,564	0.005%
JNL Emerging Markets Index Fund	Wanda Film Holding Co., Ltd.			Equity	19,400	34,300	0.004%
JNL Emerging Markets Index Fund	Will Semiconductor Co., Ltd. Shanghai			Equity	10,335	157,800	0.018%
JNL Emerging Markets Index Fund	Anhui Kouzi Distillery Co., Ltd.			Equity	6,700	45,419	0.005%
JNL Emerging Markets Index Fund	Hunan Valin Steel Co., Ltd.			Equity	59,500	39,599	0.004%
JNL Emerging Markets Index Fund	Beijing Yanning Brewery Co., Ltd.			Equity	23,300	36,948	0.004%
JNL Emerging Markets Index Fund	Beijing New Building Material (Group) Co., Ltd.			Equity	6,500	106,386	0.003%
JNL Emerging Markets Index Fund	Heilongjiang Agriculture Company Limited			Equity	20,800	43,857	0.005%
JNL Emerging Markets Index Fund	Guangzhou Baiyun International Airport Xianglong Restaurant			Equity	20,600	30,537	0.003%
JNL Emerging Markets Index Fund	Zhejiang Huahai Pharmaceutical Co., Ltd.			Equity	15,500	43,281	0.005%
JNL Emerging Markets Index Fund	Shengyi Technology Co., Ltd.			Equity	10,200	30,345	0.003%
JNL Emerging Markets Index Fund	China Railway Hi-Tech Industry Corporation Limited			Equity	20,100	23,552	0.003%
JNL Emerging Markets Index Fund	Hengsheng Chemical Industry Co., Ltd.			Equity	11,430	42,420	0.005%
JNL Emerging Markets Index Fund	Chongqing Brewery Co., Ltd.			Equity	5,200	51,387	0.006%
JNL Emerging Markets Index Fund	Hangzhou Silan Microelectronics Co., Ltd.			Equity	13,500	43,225	0.005%
JNL Emerging Markets Index Fund	Guangdong Yangzhiguang Industrial Co., Ltd.			Equity	31,300	35,163	0.004%
JNL Emerging Markets Index Fund	Shandong Nanshan Aluminium Co., Ltd.			Equity	118,700	73,910	0.008%
JNL Emerging Markets Index Fund	Zhejiang Juhua Co., Ltd.			Equity	22,100	69,618	0.008%
JNL Emerging Markets Index Fund	Shanghai Yousun Tourist Mart (Group) Co., Ltd.			Equity	41,000	37,089	0.004%
JNL Emerging Markets Index Fund	China Merchants Energy Shipping Co., Ltd.			Equity	68,400	78,360	0.009%
JNL Emerging Markets Index Fund	Cosco Shipping Energy Transportation Co., Ltd.			Equity	35,500	80,091	0.009%
JNL Emerging Markets Index Fund	Inner Mongolia Mengdian Huaneng Thermal Power Co., Ltd.			Equity	57,800	39,490	0.004%
JNL Emerging Markets Index Fund	Shanghai Lingang Holdings Co., Ltd.			Equity	19,000	29,154	0.003%
JNL Emerging Markets Index Fund	Sinochem International Corp.			Equity	31,300	20,478	0.002%
JNL Emerging Markets Index Fund	Emirates NBD Bank (P.J.S.C.)			Equity	252,721	1,400,161	0.158%
JNL Emerging Markets Index Fund	Yunnan Energy New Material Co., Ltd.			Equity	9,300	44,824	0.005%
JNL Emerging Markets Index Fund	PT. Bukit Asam Tbk			Equity	244,400	49,404	0.006%
JNL Emerging Markets Index Fund	Krunghua Card Public Company Limited			Equity	11,900	18,038	0.002%
JNL Emerging Markets Index Fund	Public Joint Stock Company Magnit			Equity	10,334	0	0.000%
JNL Emerging Markets Index Fund	Natura & Co Holding SA			Equity	93,865	242,736	0.027%
JNL Emerging Markets Index Fund	Saudi Arabian Oil Company			Equity	595,196	4,301,690	0.485%
JNL Emerging Markets Index Fund	Topsports International Holdings Limited			Equity	241,000	39,921	0.004%
JNL Emerging Markets Index Fund	Country Garden Services Holdings Company Limited			Equity	191,000	157,837	0.018%
JNL Emerging Markets Index Fund	Central Retail Corporation Public Company Limited			Equity	193,425	186,209	0.021%
JNL Emerging Markets Index Fund	Central Retail Corporation Public Company Limited			Equity	70,000	67,389	0.008%
JNL Emerging Markets Index Fund	Sibanye Stillwater			Equity	263,720	271,639	0.031%
JNL Emerging Markets Index Fund	Shanghai Wingtech Electronics Technology Co., Ltd.			Equity	2,300	10,683	0.001%
JNL Emerging Markets Index Fund	Shanghai RAAS blood products co., Ltd.			Equity	67,300	75,412	0.009%
JNL Emerging Markets Index Fund	Lotus Co., Ltd.			Equity	10,000	441,240	0.050%
JNL Emerging Markets Index Fund	Gulf Energy Development Public Company Limited			Equity	237,620	428,217	0.048%
JNL Emerging Markets Index Fund	Anhui Guying Distillery Company Limited			Equity	10,052	161,489	0.019%
JNL Emerging Markets Index Fund	Public Joint Stock Company Mobile TeleSystems			Equity	114,924	0	0.000%
JNL Emerging Markets Index Fund	Tongcheng-Elong Holdings Limited			Equity	124,800	314,499	0.035%
JNL Emerging Markets Index Fund	Postal Savings Bank of China Co., Ltd.			Equity	252,000	188,054	0.021%
JNL Emerging Markets Index Fund	Tata Elxsi Limited			Equity	3,749	346,858	0.039%
JNL Emerging Markets Index Fund	PTT Exploration And Production Public Company Limited			Equity	156,700	638,275	0.072%
JNL Emerging Markets Index Fund	Tata Consumer Products Limited			Equity	65,756	941,526	0.106%
JNL Emerging Markets Index Fund	Huagong Tech Company Limited			Equity	9,800	48,824	0.006%
JNL Emerging Markets Index Fund	Hainan Airlines Holding Co., Ltd.			Equity	364,900	67,100	0.008%
JNL Emerging Markets Index Fund	Shenzhen Great Wall Development Technology Co., Ltd.			Equity	15,400	36,063	0.004%
JNL Emerging Markets Index Fund	CPPI Energia S/A			Equity	17,542	113,777	0.013%
JNL Emerging Markets Index Fund	Tongfu Microelectronics Co., Ltd.			Equity	12,000	49,190	0.004%
JNL Emerging Markets Index Fund	Tianshui Hualian Technology Co., Ltd.			Equity	39,200	40,230	0.005%
JNL Emerging Markets Index Fund	Beijing Zhonggong Education Technology Co., Ltd.			Equity	40,200	19,095	0.002%
JNL Emerging Markets Index Fund	Chaohua Food Company, Limited			Equity	4,100	19,405	0.002%
JNL Emerging Markets Index Fund	Guangzhou Shiyuan Electronic Technology Co., Ltd.			Equity	7,200	37,895	0.004%
JNL Emerging Markets Index Fund	Greatwall Securities Co., Ltd. Beijing Haying Road Stock Exchange			Equity	30,700	28,921	0.003%
JNL Emerging Markets Index Fund	Shanghai Pu Tai Lai New Energy Technology Co., Ltd.			Equity	22,405	47,460	0.005%
JNL Emerging Markets Index Fund	Tianfeng Securities Co., Ltd.			Equity	58,400	35,880	0.004%
JNL Emerging Markets Index Fund	China Feihe Limited			Equity	396,000	297,871	0.034%
JNL Emerging Markets Index Fund	Qingdao Rural Commercial Bank Co., Ltd.			Equity	67,100	28,499	0.003%
JNL Emerging Markets Index Fund	Asset World Corp Public Company Limited			Equity	357,200	42,005	0.005%
JNL Emerging Markets Index Fund	Ningbo Tuopu Group Co., Ltd.			Equity	12,180	79,422	0.009%
JNL Emerging Markets Index Fund	China Galaxy Securities Co., Ltd.			Equity	36,000	78,213	0.009%
JNL Emerging Markets Index Fund	Torrent Pharmaceuticals Ltd			Equity	9,077	63,144	0.007%
JNL Emerging Markets Index Fund	Krunghua Card Public Company Limited			Equity	134,000	202,774	0.023%
JNL Emerging Markets Index Fund	Hisense (Guangdong) Kitchen & Bath System Co., Ltd.			Equity	10,700	53,719	0.006%
JNL Emerging Markets Index Fund	China Tower Corporation Limited			Equity	4,576,300	609,489	0.069%
JNL Emerging Markets Index Fund	MedCase, Inc.			Equity	189,915	3,343,080	0.377%
JNL Emerging Markets Index Fund	Oracle Financial Services Software Limited			Equity	2,330	320,403	0.036%
JNL Emerging Markets Index Fund	Harmony Gold Mining Company			Equity	57,642	591,399	0.067%
JNL Emerging Markets Index Fund	Pinduo Pinduoduo (Shanghai) Network Technology Co., Ltd.			Equity	67,840	9,145,510	1.032%
JNL Emerging Markets Index Fund	ID.com, Inc.			Equity	250,990	5,154,402	0.582%
JNL Emerging Markets Index Fund	Eicher Motors Limited			Equity	15,632	940,511	0.106%
JNL Emerging Markets Index Fund	Harris County School District			Equity	334,100	286,706	0.032%
JNL Emerging Markets Index Fund	Nongfu Spring Co., Ltd.			Equity	188,600	814,760	0.092%
JNL Emerging Markets Index Fund	ALTECOEN Inc.			Equity	6,932	989,407	0.112%
JNL Emerging Markets Index Fund	Garfield Lithium Group Co., Ltd.			Equity	47,680	135,620	0.015%
JNL Emerging Markets Index Fund	HYBE Co., Ltd.			Equity	1,951	252,333	0.028%
JNL Emerging Markets Index Fund	United Company RUSAL PLC			Equity	320,400	0	0.000%
JNL Emerging Markets Index Fund	Global Unichip Corp.			Equity	9,000	313,502	0.035%
JNL Emerging Markets Index Fund	TM S.A.			Equity	84,714	28,976	0.003%
JNL Emerging Markets Index Fund	Phoenix Mills Limited, The			Equity	20,472	451,752	0.051%
JNL Emerging Markets Index Fund	True Corporation Public Company Limited			Equity	1,063,200	270,718	0.042%
JNL Emerging Markets Index Fund	America Mvmt. S.A.B. De C.V.			Equity	1,911,300	1,567,674	0.177%
JNL Emerging Markets Index Fund	Max Healthcare Institute Limited			Equity	69,260	268,976	0.030%
JNL Emerging Markets Index Fund	ManKind Pharma Limited			Equity	11,671	353,093	0.040%
JNL Emerging Markets Index Fund	Trina Solar Co., Ltd.			Equity	14,799	47,083	0.005%
JNL Emerging Markets Index Fund	ADNOC Logistics & Services PLC			Equity	111,117	161,619	0.018%
JNL Emerging Markets Index Fund	Delta Electronics (Thailand) Public Company Ltd.			Equity	463,700	1,568,467	0.175%
JNL Emerging Markets Index Fund	Saudi Aramco Base Oil Company - Luberef			Equity	4,856	171,722	0.019%
JNL Emerging Markets Index Fund	Dukhan Bank (Qp.S.C.)			Equity	286,786	303,987	0.034%
JNL Emerging Markets Index Fund	Chongqing Taili Industry(Group) Co., Ltd.			Equity	5,400	21,387	0.002%
JNL Emerging Markets Index Fund	China Rare Earth Resources and Technology Co., Ltd.			Equity	9,400	37,544	0.004%
JNL Emerging Markets Index Fund	Tsinghua Tongfang Co., Ltd.			Equity	32,400	28,970	0.003%
JNL Emerging Markets Index Fund	Guangzhou State-Owned Development Holding Co., Ltd.			Equity	24,500	23,373	0.003%
JNL Emerging Markets Index Fund	Metten Energy & Metals S.A.			Equity	9,818	387,043	0.044%
JNL Emerging Markets Index Fund	Henan Shenhua Coal & Power Co., Ltd.			Equity	20,600	58,636	0.007%
JNL Emerging Markets Index Fund	Yunnan Aluminium Co., Ltd.			Equity	30,800	64,318	0.007%
JNL Emerging Markets Index Fund	Wintime Energy Co., Ltd.			Equity	143,500	27,236	0.003%
JNL Emerging Markets Index Fund	Beiqi Foton Motor Co., Ltd.			Equity	65,100	25,206	0.003%
JNL Emerging Markets Index Fund	Hangxin Technology Co., Ltd.			Equity	6,300	17,596	0.002%
JNL Emerging Markets Index Fund	Beijing Hualian Hypermart Co., Ltd.			Equity	24,600	15,331	0.002%
JNL Emerging Markets Index Fund	China Petroleum Engineering Corporation			Equity	44,600	22,734	0.003%
JNL Emerging Markets Index Fund	Inner Mongolia Eerdouosi Resources Co., Ltd.			Equity	13,860	20,201	0.002%
JNL Emerging Markets Index Fund	State Grid Xin Yuan Company Limited			Equity	38,700	30,240	0.003%
JNL Emerging Markets Index Fund	Minmetals Capital Company Limited			Equity	40,000	37,489	0.004%
JNL Emerging Markets Index Fund	Tianjin Zhongxin Pharmaceutical Group Co., Ltd.			Equity	6,100	30,672	0.003%
JNL Emerging Markets Index Fund	Shanxi Coal International Energy Group Co., Ltd.			Equity	17,500	34,760	0.004%
JNL Emerging Markets Index Fund	Anhui Jianghuai Automobile Group Co., Ltd.			Equity	19,400	69,147	0.008%
JNL Emerging Markets Index Fund	Beijing Shougang Co., Ltd.			Equity	33,600	16,186	0.002%
JNL Emerging Markets Index Fund	Hisense (Guangdong) Kitchen & Bath System Co., Ltd.			Equity	33,000	121,671	0.014%
JNL Emerging Markets Index Fund	Xiangjiang Electric Manufacturing Co., Ltd.			Equity	9,200	15,517	0.002%
JNL Emerging Markets Index Fund	Beijing Jingneng Power Co., Ltd.			Equity	46,900	24,569	0.003%
JNL Emerging Markets Index Fund	Hebei Hengshui Labaigang Liquor Co., Ltd.			Equity	9,100	26,461	0.003%
JNL Emerging Markets Index Fund	Yinyi Co., Ltd.			Equity	79,100	15,078	0.002%
JNL Emerging Markets Index Fund	HNA Infrastructure Investment Group Co., Ltd.			Equity	103,700	56,301	0.006%
JNL Emerging Markets Index Fund	Hisense Visual Technology Co., Ltd.			Equity	12,700	40,218	0.005%
JNL Emerging Markets Index Fund	Shede Spirits Co., Ltd.			Equity	3,000	37,149	0.004%
JNL Emerging Markets Index Fund	Sinoma International Engineering Co., Ltd.			Equity	24,900	40,576	0.005%
JNL Emerging Markets Index Fund	Sichuan Changhong Electric Co., Ltd.			Equity	45,100	37,790	0.004%
JNL Emerging Markets Index Fund	Shanghai Baillan Group Co., Ltd.			Equity	12,300	16,649	0.002%
JNL Emerging Markets Index Fund	Cosmo Advanced Materials & Technology Co., Ltd.			Equity	2,210	21,582	0.002%
JNL Emerging Markets Index Fund	Sieyuan Electric Co., Ltd.			Equity	7,000	73,655	0.008%
JNL Emerging Markets Index Fund	Yunnan Chihong Zinc And Germanium Co., Ltd.			Equity	43,700	35,364	0.004%
JNL Emerging Markets Index Fund	Shanghai Aiko Solar Energy Co., Ltd.			Equity	12,500	18,165	0.002%
JNL Emerging Markets Index Fund	Colson Sugar Holding Co., Ltd.			Equity	14,900	21,794	0.002%
JNL Emerging Markets Index Fund	China Southern Power Grid Energy Storage Co., Ltd.			Equity	10,900	169,618	0.002%
JNL Emerging Markets Index Fund	Guangdong No.2 Hydropower Engineering Company, Ltd.			Equity	23,500	13,210	0.001%
JNL Emerging Markets Index Fund	Sailun Group Co., Ltd.			Equity	25,600	58,318	0.007%
JNL Emerging Markets Index Fund	Ecopro Co., Ltd.			Equity	9,070	619,328	0.070%
JNL Emerging Markets Index Fund	Jiangsu NFVIA Pharmaceutical Co., Ltd.			Equity	9,500	26,838	0.003%
JNL Emerging Markets Index Fund	Jinneng Holding Shanxi Coal Industry Co., Ltd.			Equity	13,300	32,290	0.004%
JNL Emerging Markets Index Fund	Hengdian Group DMEGC Magnetics Co., Ltd.			Equity	14,600	29,386	0.003%
JNL Emerging Markets Index Fund	Jiangsu Yoke Technology Co., Ltd.			Equity	4,600	40,012	0.005%
JNL Emerging Markets Index Fund	Kingnet Network Co., Ltd.			Equity	20,900	25,464	0.003%
JNL Emerging Markets Index Fund	Andon Health Co., Ltd.			Equity	4,500	30,229	0.003%
JNL Emerging Markets Index Fund	China Hainan Rubber Industry Group Co., Ltd.			Equity	33,100	27,628	0.003%
JNL Emerging Markets Index Fund	China First Heavy Industries			Equity	53,300	21,597	0.002%
JNL Emerging Markets Index Fund	China XD Electric Co., Ltd.			Equity	45,600	45,600	0.006%
JNL Emerging Markets Index Fund	Shenzhen Kedali Industry Co.Limited			Equity	2,200	30,245	0.003%
JNL Emerging Markets Index Fund	Zhuzhou Kileng Group Co., Ltd.			Equity	22,600	20,351	0.002%
JNL Emerging Markets Index Fund	Jiangsu Xinquan Auto Trim Co., Ltd.			Equity	4,500	31,310	0.004%
JNL Emerging Markets Index Fund	Jiangsu Financial Leasing Co., Ltd.			Equity	31,780	24,241	0.003%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Emerging Markets Index Fund	Guangzhou Port Co., Ltd.			Equity	18,300	9,216	0.001%
JNL Emerging Markets Index Fund	Xiamen Amoyan Siselec Co., Ltd.			Equity	3,262	22,384	0.004%
JNL Emerging Markets Index Fund	Bank of Suzhou Co., Ltd.			Equity	29,300	33,661	0.004%
JNL Emerging Markets Index Fund	CNOOC Energy Development Co., Ltd.			Equity	52,500	33,974	0.004%
JNL Emerging Markets Index Fund	Versiticon Microelectronics (Shanghai) Co., Ltd.			Equity	5,080	26,095	0.003%
JNL Emerging Markets Index Fund	Cambicon Technologies Corporation Limited			Equity	2,366	87,716	0.011%
JNL Emerging Markets Index Fund	EverDisplay Optronics (Shanghai) Co., Ltd.			Equity	103,691	37,178	0.004%
JNL Emerging Markets Index Fund	APT Medical Inc.			Equity	904	52,355	0.006%
JNL Emerging Markets Index Fund	PT. Global Digital Niaga TBK			Equity	1,424,600	42,340	0.005%
JNL Emerging Markets Index Fund	Parasit Energy (Gan Zhou) Co., Ltd.			Equity	11,567	20,850	0.002%
JNL Emerging Markets Index Fund	Xinjiang Dazao New Energy Co., Ltd.			Equity	15,156	56,278	0.006%
JNL Emerging Markets Index Fund	Sinomach Heavy Equipment Group Co., Ltd.			Equity	48,000	20,951	0.002%
JNL Emerging Markets Index Fund	Sinocelltech Group Limited			Equity	2,501	14,574	0.002%
JNL Emerging Markets Index Fund	Shaanxi Beiyuan Chemical Industry Shares Group Co., Ltd.			Equity	29,300	18,420	0.002%
JNL Emerging Markets Index Fund	Jinko Solar Co., Ltd.			Equity	85,780	82,205	0.006%
JNL Emerging Markets Index Fund	Akzo Inc.			Equity	51,000	447,516	0.050%
JNL Emerging Markets Index Fund	Qi An Xin Technology Group Inc.			Equity	6,480	29,268	0.003%
JNL Emerging Markets Index Fund	Shaanxi Huagui Technology Industry Co., Ltd.			Equity	1,297	17,160	0.002%
JNL Emerging Markets Index Fund	Changchun BICHT Biotechnology Co.			Equity	2,751	11,903	0.001%
JNL Emerging Markets Index Fund	Tianheng Battery Group Co., Ltd.			Equity	3,553	17,188	0.002%
JNL Emerging Markets Index Fund	Zhejiang Provincial New Energy Investment Group Co., Ltd.			Equity	5,000	5,905	0.001%
JNL Emerging Markets Index Fund	XTX New Energy Materials (Xiamen) Co., LTD.			Equity	3,859	20,094	0.002%
JNL Emerging Markets Index Fund	China Railway Construction Group Co., Ltd.			Equity	32,073	19,192	0.002%
JNL Emerging Markets Index Fund	Shenzhen KTC Technology Co., Ltd.			Equity	2,000	6,301	0.001%
JNL Emerging Markets Index Fund	Hoymiles Power Electronics Inc.			Equity	895	21,117	0.002%
JNL Emerging Markets Index Fund	Eyebright Medical Technology Co., Ltd.			Equity	1,782	25,120	0.003%
JNL Emerging Markets Index Fund	Jiangsu Pacific Quartz Co., Ltd.			Equity	2,250	10,026	0.001%
JNL Emerging Markets Index Fund	Americana Restaurants International PLC			Equity	264,124	189,421	0.021%
JNL Emerging Markets Index Fund	Jiangsu Broadcasting Cable Information Network Corporation Limited			Equity	45,500	21,446	0.002%
JNL Emerging Markets Index Fund	Miniso Group Holding Ltd			Equity	36,600	172,276	0.019%
JNL Emerging Markets Index Fund	ZJLD Group Inc.			Equity	49,600	49,607	0.007%
JNL Emerging Markets Index Fund	PT. Trimegah Bangun Persada			Equity	883,900	51,420	0.006%
JNL Emerging Markets Index Fund	China Southern Power Grid Technology Co., Ltd.			Equity	3,227	15,726	0.002%
JNL Emerging Markets Index Fund	Seres Co., Ltd.			Equity	9,800	126,270	0.014%
JNL Emerging Markets Index Fund	China Science Publishing & Media Ltd.			Equity	5,800	20,603	0.002%
JNL Emerging Markets Index Fund	CAD International Investment Group Limited			Equity	86,131	185,770	0.021%
JNL Emerging Markets Index Fund	Fujian Kuncai Material Technology Co., Ltd.			Equity	6,020	26,770	0.003%
JNL Emerging Markets Index Fund	JCHX Mining Management Co. Ltd.			Equity	5,600	39,608	0.004%
JNL Emerging Markets Index Fund	Bayan Norlun Resources Group Co., Ltd.			Equity	45,100	20,549	0.002%
JNL Emerging Markets Index Fund	Inner Mongolia Cerbuke Resources Co., Ltd.			Equity	53,060	29,058	0.003%
JNL Emerging Markets Index Fund	Guangdong Electric Power Development Co., Ltd.			Equity	34,200	24,499	0.003%
JNL Emerging Markets Index Fund	Tianjin Zhongxin Pharmaceutical Group Co., Ltd.			Equity	19,500	46,940	0.005%
JNL Emerging Markets Index Fund	Cathay Biotech, Inc.			Equity	12,100	14,127	0.002%
JNL Emerging Markets Index Fund	Jo Financial Services Limited			Equity	386,660	1,627,243	0.018%
JNL Emerging Markets Index Fund	Pingdingshan Tianan Coal Mining Co., Ltd.			Equity	14,800	22,994	0.003%
JNL Emerging Markets Index Fund	HD Hyundai Electric Co., Ltd.			Equity	2,336	589,616	0.067%
JNL Emerging Markets Index Fund	IDFC First Bank Limited			Equity	460,594	409,901	0.046%
JNL Emerging Markets Index Fund	Naspers Limited			Equity	19,023	187,479	0.044%
JNL Emerging Markets Index Fund	Hindustan Aeronautics Limited			Equity	19,579	1,036,660	0.117%
JNL Emerging Markets Index Fund	Kumyang Co., Ltd.			Equity	4,058	163,261	0.018%
JNL Emerging Markets Index Fund	Arabian Drilling Company			Equity	2,708	83,094	0.009%
JNL Emerging Markets Index Fund	BHP Billbaas Emissions- und Handelsgesellschaft mbH			Equity	12,000	24,773	0.003%
JNL Emerging Markets Index Fund	Xinjiang Yanshan Cement Co., Ltd.			Equity	30,000	24,303	0.003%
JNL Emerging Markets Index Fund	Tata Communications Limited			Equity	12,700	324,543	0.037%
JNL Emerging Markets Index Fund	NHPC Limited			Equity	304,918	348,748	0.039%
JNL Emerging Markets Index Fund	Union Bank of India			Equity	159,455	234,870	0.026%
JNL Emerging Markets Index Fund	Undia India Limited			Equity	2,234	233,703	0.026%
JNL Emerging Markets Index Fund	Cummins India Limited			Equity	13,654	622,951	0.070%
JNL Emerging Markets Index Fund	PT. Indosat			Equity	132,300	95,786	0.011%
JNL Emerging Markets Index Fund	Borusan Birlesik Boru Fabrikalari Sanayi Ve Ticaret Anonim Sirketi			Equity	4,098	57,123	0.006%
JNL Emerging Markets Index Fund	PPC S.A.			Equity	21,283	285,770	0.032%
JNL Emerging Markets Index Fund	Inner Mongolia Dian Tou Energy Corporation Limited			Equity	10,000	28,090	0.003%
JNL Emerging Markets Index Fund	HANMI Semiconductor Co., Ltd.			Equity	4,787	400,964	0.045%
JNL Emerging Markets Index Fund	CG Power and Industrial Solutions Limited			Equity	64,788	590,802	0.067%
JNL Emerging Markets Index Fund	POSCO ICT Company Ltd.			Equity	5,809	136,238	0.015%
JNL Emerging Markets Index Fund	Indian Bank			Equity	25,589	161,125	0.018%
JNL Emerging Markets Index Fund	People.cn Co., Ltd.			Equity	8,500	28,269	0.003%
JNL Emerging Markets Index Fund	Jiangsu Guoxin Corp. Ltd.			Equity	16,000	18,272	0.002%
JNL Emerging Markets Index Fund	Alchip Technologies, Limited			Equity	8,000	5,629	0.001%
JNL Emerging Markets Index Fund	PT. Pratama Abadi Nusa Industri			Equity	173,500	132,334	0.015%
JNL Emerging Markets Index Fund	CSN Mineracao S.A.			Equity	64,335	81,250	0.009%
JNL Emerging Markets Index Fund	Polycab India Limited			Equity	6,106	508,830	0.057%
JNL Emerging Markets Index Fund	Zhejiang Locomotor Technology Co., Ltd.			Equity	58,200	43,700	0.005%
JNL Emerging Markets Index Fund	PT. Merdeka Battery Materials			Equity	2,886,500	112,005	0.013%
JNL Emerging Markets Index Fund	Indian Railway Finance Corporation Limited			Equity	177,602	338,828	0.038%
JNL Emerging Markets Index Fund	SICC Co., Ltd.			Equity	3,000	27,021	0.003%
JNL Emerging Markets Index Fund	Giant Biogene Holding Co Ltd			Equity	42,800	277,049	0.031%
JNL Emerging Markets Index Fund	Galaxycore Inc.			Equity	15,000	31,384	0.004%
JNL Emerging Markets Index Fund	ACM Research (Shanghai), Inc.			Equity	2,000	29,892	0.003%
JNL Emerging Markets Index Fund	China Shandong Hi-Speed Financial Group Limited			Equity	201,000	167,083	0.019%
JNL Emerging Markets Index Fund	Agja Technology Co., Ltd.			Equity	3,000	16,785	0.002%
JNL Emerging Markets Index Fund	PT. Perindito Jaya Kresid Tbk.			Equity	181,900	90,334	0.010%
JNL Emerging Markets Index Fund	J&T Global Express Limited			Equity	49,000	444,152	0.050%
JNL Emerging Markets Index Fund	TUHU Car Inc.			Equity	24,300	72,364	0.008%
JNL Emerging Markets Index Fund	China Longyuan Power Group Corporation Limited			Equity	29,400	69,854	0.008%
JNL Emerging Markets Index Fund	Astral Limited			Equity	11,086	284,488	0.033%
JNL Emerging Markets Index Fund	Pl. Amman Mineral Internacional			Equity	1,017,600	624,642	0.070%
JNL Emerging Markets Index Fund	Atour Lifestyle Holdings Limited			Equity	6,059	157,170	0.018%
JNL Emerging Markets Index Fund	Shanghai Moons' Electric Co., Ltd.			Equity	2,500	17,081	0.002%
JNL Emerging Markets Index Fund	Solar Industries Limited			Equity	2,472	342,385	0.038%
JNL Emerging Markets Index Fund	Nestle India Limited			Equity	36,950	1,186,516	0.134%
JNL Emerging Markets Index Fund	Piraeus Financial Holdings S.A.			Equity	68,222	291,598	0.033%
JNL Emerging Markets Index Fund	Aditya Birla Capital Limited			Equity	86,904	247,517	0.028%
JNL Emerging Markets Index Fund	Persistent Systems Limited			Equity	10,961	713,928	0.081%
JNL Emerging Markets Index Fund	Canara Bank			Equity	196,090	260,686	0.029%
JNL Emerging Markets Index Fund	SAL Saudi Logistics Services Company			Equity	2,213	173,077	0.020%
JNL Emerging Markets Index Fund	ADES Holding Company			Equity	38,447	209,203	0.024%
JNL Emerging Markets Index Fund	Bank of India			Equity	89,861	117,833	0.013%
JNL Emerging Markets Index Fund	Fortune Electric Co., Ltd.			Equity	25,300	507,414	0.057%
JNL Emerging Markets Index Fund	Shihlin Electric & Engineering Corporation			Equity	33,000	231,968	0.026%
JNL Emerging Markets Index Fund	Torrent Power Limited			Equity	17,091	385,987	0.044%
JNL Emerging Markets Index Fund	Ningbo Saneng Medical Electric Co., Ltd.			Equity	9,100	45,190	0.005%
JNL Emerging Markets Index Fund	Prestige Estates Projects Limited			Equity	14,216	314,613	0.035%
JNL Emerging Markets Index Fund	Rail Vikas Nigam Limited			Equity	58,939	378,232	0.043%
JNL Emerging Markets Index Fund	EcoPro Materials Co., Ltd.			Equity	2,068	214,484	0.024%
JNL Emerging Markets Index Fund	ISU Specialty Chemical Co., Ltd.			Equity	1,900	75,084	0.008%
JNL Emerging Markets Index Fund	PT. Pertamina Geothermal Energy			Equity	393,000	29,325	0.003%
JNL Emerging Markets Index Fund	Indian Renewable Energy Development Agency Limited			Equity	56,737	160,437	0.018%
JNL Emerging Markets Index Fund	Pure Health Holding L.L.C			Equity	237,654	233,163	0.026%
JNL Emerging Markets Index Fund	Tata Technocon Limited			Equity	5,960	78,815	0.009%
JNL Emerging Markets Index Fund	JSW Infrastructure Limited			Equity	11,216	88,019	0.010%
JNL Emerging Markets Index Fund	Schaeffler India Limited			Equity	3,836	179,897	0.020%
JNL Emerging Markets Index Fund	UNO Minda Limited			Equity	23,736	313,554	0.035%
JNL Emerging Markets Index Fund	Lotus Technologies, Inc.			Equity	6,504	32,975	0.004%
JNL Emerging Markets Index Fund	Corporativo PRAGUA, S.A.B. de C.V.			Equity	9,800	452,514	0.051%
JNL Emerging Markets Index Fund	Suzlon Energy Limited			Equity	1,229,534	1,182,994	0.133%
JNL Emerging Markets Index Fund	Thanachart Bank Public Company Limited			Equity	4,103,600	251,289	0.028%
JNL Emerging Markets Index Fund	BTS Group Holdings Public Company Limited	10/24/2024		Equity	82,611	414	0.000%
JNL Emerging Markets Index Fund	BTS Group Holdings Public Company Limited	10/24/2024		Equity	131,577	0	0.000%
JNL Emerging Markets Index Fund	Varun Beverages Limited			Equity	132,037	963,657	0.108%
JNL Emerging Markets Index Fund	Hanwha Industrial Solutions Co., Ltd.			Equity	3,433	87,429	0.010%
Total Non Derivatives						885,976,474	
Derivatives							
JNL Emerging Markets Index Fund	Bought USD / Sold SAR			Derivative		(7)	0.000%
JNL Emerging Markets Index Fund	Bought USD / Sold THB			Derivative		0	0.000%
JNL Emerging Markets Index Fund	Bought ZAR / Sold EUR			Derivative		0	0.000%
JNL Emerging Markets Index Fund	MSCI Emerging Markets Index FUTURE - CASH SETTLED			Derivative	173	409,245	0.046%
Total Derivatives						409,235	
Total All Investments						886,385,709	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Cash			Cash Equivalent	1,431,541	1,431,541	0.083%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Pakistan, Government of	12/5/2027	6.88	Fixed Income	95,000	88,198	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	ACNR Holdings Inc.			Equity	2,886	251,024	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	United Natural Foods, Inc.	10/15/2028	6.75	Fixed Income	95,000	93,568	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	10/20/2050	2.00	Fixed Income	3,805,114	3,319,622	0.19%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Millicom International Cellular SA	4/27/2031	4.50	Fixed Income	200,000	184,144	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	1.50	Fixed Income	16,148	14,517	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Meituan	10/28/2030	3.05	Fixed Income	200,000	184,262	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	VLS Commercial Mortgage Trust 2020-LAB	10/11/2030	2.13	Fixed Income	1,251,000	1,025,711	0.060%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	VLS Commercial Mortgage Trust 2020-LAB	10/11/2030	2.88	Fixed Income	70,000	54,547	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Petroleos Mexicanos	1/23/2050	7.69	Fixed Income	741,000	587,327	0.034%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Petroleos Mexicanos	1/28/2060	6.95	Fixed Income	115,000	83,760	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Petroleos Mexicanos	1/28/2031	5.95	Fixed Income	2,235,000	1,962,687	0.113%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	71,505,185	71,707,389	4.143%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Petroleos Mexicanos	1/23/2027	6.49	Fixed Income	395,000	394,146	0.023%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Unisys Corporation	11/1/2027	6.88	Fixed Income	20,000	19,872	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	PTT Treasury Center Company Limited	7/16/2070	3.70	Fixed Income	50,000	36,942	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Advantage Sales & Marketing Inc.	11/15/2028	6.50	Fixed Income	225,000	219,292	0.013%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	SLM Corporation	10/29/2025	4.20	Fixed Income	55,000	55,384	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Array Technologies, Inc.	10/7/2027	8.71	Fixed Income	174,364	176,977	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Virgin Media Secured Finance PLC	8/15/2030	4.50	Fixed Income	195,000	174,376	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	12/20/2049	5.53	Fixed Income	396,892	390,009	0.023%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Galaxy Pipeline Assets Bidco Limited	3/31/2036	2.63	Fixed Income	300,000	256,785	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Methanex Corporation	12/1/2044	5.65	Fixed Income	145,000	133,921	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Lenovo Group Limited	11/2/2030	3.42	Fixed Income	200,000	188,800	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Adina Healthcare, Inc.	11/15/2030	3.98	Fixed Income	95,000	83,043	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Nordstrom, Inc.	11/5/2044	5.00	Fixed Income	100,000	78,434	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	California Resources Corporation			Equity	1,584	83,112	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	California Resources Corporation	10/27/2024		Equity	404	6,775	0.000%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Chobani, LLC	10/20/2027	8.61	Fixed Income	175,526	175,873	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2039	3.00	Fixed Income	14,633	13,143	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2040	3.00	Fixed Income	140,173	131,425	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	11/20/2050	2.00	Fixed Income	630,244	535,966	0.031%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	CNT Holdings I Corp	10/16/2027	8.75	Fixed Income	164,569	167,307	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Bank America Corporation	10/1/2200	5.88	Fixed Income	180,000	182,711	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	The Chemours Company	11/15/2028	5.75	Fixed Income	340,000	330,075	0.019%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Weber-Stephens Products LLC	10/20/2027	8.61	Fixed Income	88,366	83,110	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Store Capital LLC	11/18/2030	2.75	Fixed Income	329,000	291,430	0.017%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/24/2037	2.66	Fixed Income	100,000	86,389	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Saudi Arabian Oil Company	11/24/2050	3.25	Fixed Income	130,000	92,855	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	NRG Energy, Inc.	2/15/2029	3.38	Fixed Income	40,000	37,470	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Saudi Arabian Oil Company	11/24/2030	2.25	Fixed Income	380,000	337,083	0.019%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	NRG Energy, Inc.	2/15/2033	3.63	Fixed Income	85,000	77,463	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	12/20/2049	5.48	Fixed Income	150,132	149,068	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	FEL Energy V.I.S.a.r.l.	12/1/2040	5.75	Fixed Income	175,336	170,149	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Frontier Communications Parent, Inc.	5/1/2028	5.00	Fixed Income	35,000	35,424	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	MPX Operating Partnership, L.P.	3/15/2031	3.50	Fixed Income	585,000	439,535	0.025%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	The Republic of Uzbekistan	11/25/2030	3.70	Fixed Income	85,000	74,309	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Carnival Corporation	3/1/2026	7.63	Fixed Income	125,000	127,035	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Nigeria, Federal Government of	2/23/2030	7.14	Fixed Income	90,000	82,244	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of the Republic of Serbia	12/1/2030	2.13	Fixed Income	220,000	185,828	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	PBF Holding Company LLC	2/15/2028	6.00	Fixed Income	78,000	77,655	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	CNX Resources Corporation	1/15/2029	6.00	Fixed Income	45,000	45,820	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Puget Energy, Inc.	6/15/2030	4.10	Fixed Income	516,000	503,319	0.029%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	C&S Group Enterprises LLC	12/15/2028	5.00	Fixed Income	212,000	183,626	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Navient Corporation	8/1/2033	5.63	Fixed Income	35,000	31,345	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Aruba Investments Holdings, LLC	10/28/2027	9.35	Fixed Income	169,168	166,036	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Anastasia Parent, LLC	8/3/2025	9.35	Fixed Income	176,340	126,011	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	AssuredPartners, Inc.	11/5/2029	6.63	Fixed Income	75,000	73,496	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2039	2,927.081	Fixed Income	2,927.081	2,042,072	0.118%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Societe Generale	12/14/2026	1.49	Fixed Income	1,483,000	1,427,475	0.082%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	GrafTech Finance Inc.	12/15/2028	4.63	Fixed Income	115,000	78,545	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	LBH Acquisition, LLC	11/5/2029	6.25	Fixed Income	165,000	158,303	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Global Net Lease Operating Partnership, L.P.	12/15/2027	245.000	Fixed Income	245.000	231,187	0.013%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Virissa Corporation	12/15/2028	7.13	Fixed Income	30,000	29,068	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Enfragma Energia Sur SA	12/30/2030	5.38	Fixed Income	250,000	214,822	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2049	3.50	Fixed Income	4,032,399	3,690,008	0.213%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Raychem Advanced Materials, Inc.	2/15/2031	9.88	Fixed Income	20,000	19,735	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Embraer Netherlands Finance B.V.	11/7/2028	6.95	Fixed Income	65,000	69,562	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Community Health Systems, Inc.	3/15/2027	5.63	Fixed Income	40,000	39,441	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Community Health Systems, Inc.	1/15/2029	6.00	Fixed Income	145,000	142,561	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Transcontinental Gas Pipe Line Company, LLC	5/15/2030	9.35	Fixed Income	158,000	150,269	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Enlink Midstream, LLC	11/15/2028	6.63	Fixed Income	20,000	20,727	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2036	1.50	Fixed Income	380,175	341,173	0.020%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	NCL Corporation Ltd	3/15/2026	5.88	Fixed Income	55,000	55,153	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Tallgrass Energy Partners, LP	12/1/2030	240.000	Fixed Income	240.000	231,187	0.013%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Transcontinental Gas Pipe Line Company, LLC	5/15/2050	3.95	Fixed Income	509,000	412,434	0.024%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	EOUATE Petrochemical B.V.	11/3/2026	4.25	Fixed Income	50,000	50,173	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Nextera Energy Partners, LP	11/15/2025		Fixed Income	30,000	27,932	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	WOOF Holdings, Inc.	12/16/2027	9.35	Fixed Income	193,357	128,788	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Broadcom Inc.	2/15/2028	1.95	Fixed Income	271,000	252,344	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Broadcom Inc.	2/15/2031	2.45	Fixed Income	2,643,000	2,351,599	0.136%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Broadcom Inc.	2/15/2033	2.60	Fixed Income	2,342,000	2,014,978	0.116%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Broadcom Inc.	2/15/2041	3.50	Fixed Income	1,862,000	1,544,292	0.089%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Asurion LLC	12/23/2029	9.25	Fixed Income	1,222,467	1,022,471	0.060%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Anywhere Real Estate Group LLC	11/5/2029	5.75	Fixed Income	45,000	38,080	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.00	Fixed Income	-2,700,000	(2,424,938)	-0.140%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gemini HOPE LLC	12/11/2027	8.51	Fixed Income	75,283	76,591	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Deutsche Bank Aktiengesellschaft	1/14/2033	3.73	Fixed Income	2,500,000	2,258,520	0.130%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia de la Republica Dominicana	12/1/2041	5.30	Fixed Income	95,000	88,623	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	California Resources Corporation	2/1/2026	7.13	Fixed Income	27,000	27,304	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Life Time, Inc.	11/5/2026	5.75	Fixed Income	212,000	214,621	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of the Sultanate of Oman	1/25/2031	6.25	Fixed Income	260,000	215,540	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Marb Bondco PLC	1/29/2031	3.95	Fixed Income	75,000	67,001	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia de la Republica de Chile	1/22/2061	3.10	Fixed Income	160,000	107,967	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	1/26/2026	4.75	Fixed Income	135,000	136,336	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Uniti Group Inc.	2/15/2029	6.50	Fixed Income	170,000	230,907	0.014%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Howard Hughes Corporation, The	2/1/2029	4.13	Fixed Income	195,000	183,342	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Community Health Systems, Inc.	4/15/2029	6.88	Fixed Income	109,000	102,181	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Hilton Domestic Operating Company Inc.	2/15/2032	3.63	Fixed Income	242,000	219,714	0.013%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Castlelake Aircraft Structures Trust 2021-L	11/6/2028	3.47	Fixed Income	122,066	116,646	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Elton Vance CLO 2013-1 Ltd	11/7/2034	6.81	Fixed Income	270,000	274,309	0.016%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gobierno de La Republica del Paraguay	1/29/2033	2.74	Fixed Income	200,000	171,453	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2036	1.50	Fixed Income	27,210	24,419	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Old Clemco, LLC	4/17/2034	6.63	Fixed Income	2,135,000	2,166,174	0.125%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Pine Corporation	11/1/2035	5.023	Fixed Income	40,231	36,167	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	U.S. Foods Inc.	11/5/2028	8.36	Fixed Income	90,685	91,398	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	U.S. Foods Inc.	2/15/2029	4.75	Fixed Income	130,000	127,640	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of Saudi Arabia	2/2/2061	3.45	Fixed Income	250,000	217,005	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Community Health Systems, Inc.	2/15/2031	4.75	Fixed Income	855,000	756,567	0.044%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of Saudi Arabia	1/22/2033	2.25	Fixed Income	20,000	167,257	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Life Time, Inc.	4/15/2026	8.00	Fixed Income	155,000	162,150	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Acursus, LLC	2/15/2029	4.25	Fixed Income	290,000	275,905	0.016%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Columbia Cent CLO 30 Limited	4/20/2034	6.74	Fixed Income	1,270,000	1,288,244	0.074%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Levi Strauss & Co.	3/1/2031	3.98	Fixed Income	20,000	18,172	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2036	1.50	Fixed Income	42,573	38,205	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	1/20/2051	2.00	Fixed Income	2,192,835	1,864,749	0.108%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Cligo Petroleum Corporation	6/15/2026	6.38	Fixed Income	170,000	173,398	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	UFC Holdings, LLC	4/28/2026	8.29	Fixed Income	91,282	92,127	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	RealTruck Group, Inc.	1/20/2028	8.86	Fixed Income	45,857	45,053	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Foundation Building Materials, Inc.	3/1/2029	6.00	Fixed Income	115,000	101,828	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management® Total Bond Fund	MH Sub I, LLC	2/12/2029	11.50	Fixed Income	90,000	89,999	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	COPT Defense Properties	4/15/2031	2.75	Fixed Income	187,000	186,148	0.01%
JNLFidelity Institutional Asset Management® Total Bond Fund	Omega Healthcare Investors, Inc.	4/15/2033	3.25	Fixed Income	1,217,000	1,064,455	0.062%
JNLFidelity Institutional Asset Management® Total Bond Fund	Almco CLO 14 Ltd	4/20/2034	6.53	Fixed Income	1,573,000	1,594,594	0.092%
JNLFidelity Institutional Asset Management® Total Bond Fund	Consolidated Communications, Inc.	10/1/2028	5.00	Fixed Income	55,000	51,924	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government of the Sultanate of Oman	8/1/2029	5.00	Fixed Income	50,000	52,810	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Earnings CLO Ltd, 2021-1	4/25/2034	6.57	Fixed Income	1,146,000	1,160,640	0.07%
JNLFidelity Institutional Asset Management® Total Bond Fund	Charles River Laboratories International, Inc.	3/15/2029	3.75	Fixed Income	70,000	65,987	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Energear Israel Finance Ltd	3/30/2026	4.88	Fixed Income	210,000	200,578	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ares LIX CLO Ltd	4/25/2034	6.58	Fixed Income	521,000	527,564	0.030%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2039	1.50	Fixed Income	198,209	177,565	0.01%
JNLFidelity Institutional Asset Management® Total Bond Fund	CF Hypotheta Issuer LLC	3/15/2026	1.53	Fixed Income	1,455,139	1,366,622	0.079%
JNLFidelity Institutional Asset Management® Total Bond Fund	American Airlines, Inc.	4/20/2026	5.50	Fixed Income	12,250	12,347	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Navigent Corporation	3/15/2028	4.88	Fixed Income	25,000	24,226	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	YTR Comunicaciones SpA	4/15/2029	4.38	Fixed Income	100,000	87,650	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Sasol Financing USA LLC	9/18/2026	4.38	Fixed Income	230,000	223,715	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	TricoBraun Holdings, Inc.	1/29/2028	8.61	Fixed Income	213,853	209,546	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Tempur Sealy International, Inc.	4/1/2029	4.00	Fixed Income	175,000	166,304	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Sasol Financing USA LLC	3/18/2031	5.50	Fixed Income	35,000	31,311	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Verizon Communications Inc.	3/21/2031	2.55	Fixed Income	846,000	756,985	0.044%
JNLFidelity Institutional Asset Management® Total Bond Fund	American Trailer World Corp.	2/1/2028	9.10	Fixed Income	176,639	159,238	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	3/11/2041	3.30	Fixed Income	85,000	67,380	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Sensata Technologies B.V.	4/15/2029	4.00	Fixed Income	90,000	77,732	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Spin Holdco Inc.	2/26/2028	9.26	Fixed Income	1,184,063	1,039,742	0.060%
JNLFidelity Institutional Asset Management® Total Bond Fund	Yum! Brands, Inc.	1/31/2032	4.63	Fixed Income	435,000	426,792	0.025%
JNLFidelity Institutional Asset Management® Total Bond Fund	Trilon Water Holdings Incorporated	4/1/2029	6.25	Fixed Income	160,000	164,769	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	OC Investment Intermediate Holdings 2, Inc.	1/21/2049	9.83	Fixed Income	87,833	87,547	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/24/2061	3.77	Fixed Income	180,000	120,391	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Franchise Group Intermediate Holdco, LLC	2/24/2026	10.39	Fixed Income	228,543	150,926	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	LIFE 2021-BMR Mortgage Trust	3/15/2038	5.91	Fixed Income	851,033	838,386	0.048%
JNLFidelity Institutional Asset Management® Total Bond Fund	LIFE 2021-BMR Mortgage Trust	3/15/2038	6.09	Fixed Income	295,422	260,016	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	LIFE 2021-BMR Mortgage Trust	3/15/2038	6.31	Fixed Income	123,241	127,430	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	LIFE 2021-BMR Mortgage Trust	3/15/2038	6.61	Fixed Income	180,041	176,832	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	LIFE 2021-BMR Mortgage Trust	3/15/2038	6.96	Fixed Income	157,041	152,725	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Constant Contact Inc.	12/31/2024	9.57	Fixed Income	178,338	175,951	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	AT World-Perpetual of America, Inc.	2/4/2029	9.97	Fixed Income	145,412	137,340	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Democratic Socialist Republic of Sri Lanka	5/11/2027	6.20	Fixed Income	45,000	25,031	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	LCPR Senior Secured Financing Designated Activity Company	7/15/2029	5.13	Fixed Income	325,000	267,795	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Philippines, Government of	12/10/2045	2.85	Fixed Income	70,000	49,690	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Democratic Socialist Republic of Sri Lanka	11/30/2025	6.85	Fixed Income	60,000	37,406	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	New Fortress Energy Inc.	9/30/2026	6.50	Fixed Income	634,000	533,932	0.031%
JNLFidelity Institutional Asset Management® Total Bond Fund	Aruba Investments Holdings, LLC	10/28/2028	13.10	Fixed Income	140,000	132,526	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	BWXT Government Group, Inc.	4/15/2029	4.13	Fixed Income	195,000	191,130	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	China, Government of	4/7/2029	7.75	Fixed Income	150,000	70,708	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Parkland Corporation	10/1/2029	4.50	Fixed Income	60,000	58,139	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Pakistan, Government of	4/8/2026	6.00	Fixed Income	145,000	139,940	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	WIN Waste Innovations Holdings, Inc.	3/31/2028	8.11	Fixed Income	166,647	158,390	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	LCPR Loan Financials I	9/25/2028	9.96	Fixed Income	30,000	27,615	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Trilon Water Holdings, Inc.	3/16/2028	8.85	Fixed Income	468,161	467,262	0.027%
JNLFidelity Institutional Asset Management® Total Bond Fund	Energy Transfer LP	1/1/2200	6.63	Fixed Income	50,000	49,879	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Uniti Group Inc.	4/15/2028	4.75	Fixed Income	80,000	75,962	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	OC Investment Intermediate Holdings 2, Inc.	12/31/2034	9.11	Fixed Income	68,294	68,098	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government National Mortgage Association	10/15/2054	4.50	Fixed Income	1,800,000	1,777,076	0.103%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government National Mortgage Association	10/15/2054	3.50	Fixed Income	6,200,000	5,827,890	0.337%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wash Multifamily Acquisition Inc.	4/15/2026	5.75	Fixed Income	260,000	265,652	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	Organon & Co.	4/30/2031	5.13	Fixed Income	195,000	187,717	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Pharmacia Corporation	3/12/2028	6.38	Fixed Income	54,500	54,526	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	BW Gas & Convenience Holdings, LLC	3/1/2028	8.86	Fixed Income	122,240	122,040	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Empire Today, LLC	4/1/2028	10.51	Fixed Income	67,645	41,951	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Maxx Mercargo, Inc.	5/1/2028	5.25	Fixed Income	50,000	37,780	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	AT Worldwide Logistics, Inc.	4/1/2029	7.75	Fixed Income	158,412	158,412	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	GENM Capital Labuan Limited	4/19/2031	3.88	Fixed Income	200,000	185,294	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	CrownRock, L.P.	5/1/2029	5.00	Fixed Income	35,000	36,137	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alice France Holding S.A.	7/15/2029	5.13	Fixed Income	515,000	373,196	0.022%
JNLFidelity Institutional Asset Management® Total Bond Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	10.00	Fixed Income	100,000	100,514	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Ministry of Finance of Georgia	4/22/2026	2.75	Fixed Income	200,000	191,434	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Investment Energy Resources Limited	4/26/2029	6.25	Fixed Income	200,000	203,120	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Enligna, Inc.	5/1/2029	3.63	Fixed Income	250,000	237,492	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Scb Salt Holdings Inc.	5/1/2021	6.63	Fixed Income	183,000	183,257	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hightower Holdings LLC	4/15/2029	6.75	Fixed Income	45,000	44,453	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Central Garden & Pet Company	4/30/2031	4.13	Fixed Income	200,000	233,419	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ginnie Mae II	4/20/2051	2.00	Fixed Income	188,138	159,754	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Michaels Companies, Inc.	4/8/2028	13.08	Fixed Income	138,000	105,462	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	CCO Holdings, LLC	6/1/2033	4.50	Fixed Income	90,000	77,770	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Arab Republic of Egypt	5/29/2032	7.63	Fixed Income	90,000	82,094	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ally Financial Inc.	1/1/2200	4.70	Fixed Income	452,000	396,855	0.023%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2051	4.00	Fixed Income	640,101	622,833	0.036%
JNLFidelity Institutional Asset Management® Total Bond Fund	Jazz Securities Designated Activity Company	11/15/2029	4.38	Fixed Income	85,000	83,016	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Metalsa, S.A.P.I. de C.V.	5/4/2031	3.75	Fixed Income	150,000	127,450	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	12/15/2054	5.50	Fixed Income	10,525,000	10,647,929	0.615%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government National Mortgage Association	10/20/2050	1.90	Fixed Income	1,809,414	1,621,346	0.09%
JNLFidelity Institutional Asset Management® Total Bond Fund	RealPage, Inc.	2/18/2029	2.36	Fixed Income	243,744	236,488	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Rockland Park Limited	4/20/2034	6.66	Fixed Income	1,241,000	1,258,436	0.073%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wells Fargo Commercial Mortgage Trust 2021-FCMT	5/15/2031	6.41	Fixed Income	688,000	674,492	0.039%
JNLFidelity Institutional Asset Management® Total Bond Fund	J&J Ventures Gaming, LLC	5/1/2028	9.36	Fixed Income	91,777	91,498	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2049	3.00	Fixed Income	1,091,633	998,000	0.058%
JNLFidelity Institutional Asset Management® Total Bond Fund	DPL Inc.	7/1/2025	4.13	Fixed Income	97,000	97,053	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	KNS Acquisition Corp.	4/18/2027	11.61	Fixed Income	126,139	76,984	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	CSC Holdings, LLC	11/15/2031	4.50	Fixed Income	150,000	111,617	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Trilon Salt Holdings Inc.	3/16/2027	8.78	Fixed Income	109,621	109,621	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ion Trading Technologies S.a.r.l.	5/15/2028	5.75	Fixed Income	75,000	71,748	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	T-KC Holdings, Inc.	5/15/2029	10.50	Fixed Income	180,000	188,041	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Community Health Systems, Inc.	4/1/2030	6.13	Fixed Income	400,000	353,367	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cory Burch LLC	6/1/2023	8.61	Fixed Income	179,461	179,588	0.01%
JNLFidelity Institutional Asset Management® Total Bond Fund	Allied Universal Holdco LLC	6/1/2028	6.43	Fixed Income	62,000	59,095	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Allied Universal Holdco LLC	12/31/2049		Fixed Income	345,000	341,478	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Atlas LuxCo 4 S.a.r.l.	6/1/2028	4.63	Fixed Income	58,000	55,428	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Frontier Communications Holdings, LLC	11/1/2029	5.98	Fixed Income	12,023	12,234	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Orbia Advance Corporation, S.A.B. de C.V.	5/11/2026	1.88	Fixed Income	125,000	119,236	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	ENB Clean Energy International Investment Limited	5/12/2026	3.38	Fixed Income	200,000	196,679	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Tullow Oil PLC	5/15/2026	10.25	Fixed Income	285,000	271,020	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Acura Finance US, Inc.	5/1/2028	5.00	Fixed Income	205,000	182,184	0.01%
JNLFidelity Institutional Asset Management® Total Bond Fund	Univision Communications Inc.	5/1/2029	4.50	Fixed Income	25,000	22,801	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CCO Holdings, LLC	5/1/2032	4.50	Fixed Income	75,000	66,228	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Magdovine Holdings IV, LLC	6/1/2029	6.38	Fixed Income	150,000	149,293	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Vornado Realty LP	6/1/2026	2.15	Fixed Income	271,000	259,364	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2050	2.50	Fixed Income	-1,800,000	1,548,889	-0.090%
JNLFidelity Institutional Asset Management® Total Bond Fund	Clear Channel Outdoor Holdings, Inc.	6/1/2029	7.50	Fixed Income	150,000	132,809	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	HSBC Holdings PLC	5/24/2032	2.80	Fixed Income	205,000	183,496	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	NBM US Holdings, Inc.	8/6/2029	6.63	Fixed Income	120,000	123,380	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Mueller Water Products, Inc.	6/15/2029	4.00	Fixed Income	110,000	106,211	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Allied Universal Holdco LLC	5/4/2028	9.10	Fixed Income	203,568	201,539	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Delek Logistics Partners, LP	6/1/2028	7.13	Fixed Income	235,000	241,129	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hilton Grand Vacations Borrower LLC	6/1/2029	5.00	Fixed Income	100,000	96,968	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	T-Mobile USA, Inc.	4/15/2027	3.75	Fixed Income	870,000	873,770	0.050%
JNLFidelity Institutional Asset Management® Total Bond Fund	T-Mobile USA, Inc.	4/15/2030	3.88	Fixed Income	40,000	39,629	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	T-Mobile USA, Inc.	4/15/2040	4.38	Fixed Income	40,000	37,736	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	T-Mobile USA, Inc.	4/15/2050	4.50	Fixed Income	40,000	36,344	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gaucha Health Companies Inc.	6/1/2028	4.88	Fixed Income	145,000	115,843	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Antero Midstream Partners LP	6/15/2029	5.38	Fixed Income	100,000	100,660	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Intesa Sanpaolo SPA	6/1/2032	4.20	Fixed Income	200,000	181,249	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	DT Midstream, Inc.	6/15/2029	4.13	Fixed Income	100,000	96,873	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Allegro CLO XSL Ltd.	7/20/2034	6.68	Fixed Income	715,000	725,303	0.042%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ally Financial Inc.	1/1/2200	4.70	Fixed Income	30,000	24,591	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	ACProducts, Inc.	5/1/2028	9.85	Fixed Income	513,344	428,038	0.025%
JNLFidelity Institutional Asset Management® Total Bond Fund	Conair Holdings, LLC	5/13/2028	9.11	Fixed Income	130,453	119,140	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2051	2.50	Fixed Income	1,918,330	1,912,930	0.11%
JNLFidelity Institutional Asset Management® Total Bond Fund	Petrolio Luxembourg Trading S.A. R.L.	6/9/2026	6.13	Fixed Income	75,000	76,190	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Polaris Newco LLC	12/31/2049		Fixed Income	50,000	49,120	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Fidelity Institutional Asset Management Total Bond Fund	Ginnie Mae II	6/20/2051	2.50	Fixed Income	535,523	473,244	0.027%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sun Communities Operating Limited Partnership	7/15/2031	2.76	Fixed Income	617,007	542,677	0.031%
JNL/Fidelity Institutional Asset Management Total Bond Fund	American Rock Salt Company LLC	6/4/2028	9.32	Fixed Income	34,731	28,715	0.002%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Blackbird Capital II Aircraft Lease Limited	7/17/2028	2.44	Fixed Income	946,524	870,304	0.050%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Benchmark 2021-B27 Mortgage Trust	7/17/2054	1.37	Fixed Income	2,071,664	120,509	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Duquesne Light Holdings, Inc.	3/7/2032	7.78	Fixed Income	658,008	573,699	0.034%
JNL/Fidelity Institutional Asset Management Total Bond Fund	IT Holdings LLC	8/1/2039	6.50	Fixed Income	110,000	105,534	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Extended Stay America Trust 2021-ESH	7/15/2038	6.29	Fixed Income	507,890	508,359	0.009%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Extended Stay America Trust 2021-ESH	7/15/2038	6.59	Fixed Income	289,587	289,802	0.017%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Extended Stay America Trust 2021-ESH	7/15/2038	6.91	Fixed Income	212,958	213,147	0.012%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Extended Stay America Trust 2021-ESH	7/15/2038	7.46	Fixed Income	428,589	430,049	0.025%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Centene Corporation	7/15/2028	2.45	Fixed Income	1,120,000	1,037,753	0.062%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.50	Fixed Income	1,036,924	908,388	0.052%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Ares LV CLO Ltd	7/17/2034	6.69	Fixed Income	652,000	662,121	0.038%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Shawco Property Trust, Inc.	7/15/2026	3.63	Fixed Income	20,000	19,455	0.001%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Pregis TopCo Corporation	7/31/2026	9.36	Fixed Income	72,750	72,769	0.004%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Madison IAQ LLC	6/15/2028	7.89	Fixed Income	234,396	237,624	0.014%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Academy, Ltd.	11/15/2027	9.07	Fixed Income	57,715	57,978	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Qatenergy	7/12/2051	3.30	Fixed Income	350,000	284,403	0.015%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Qatenergy	9/12/2026	1.38	Fixed Income	325,000	308,451	0.018%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Elastic N.V.	7/15/2029	4.13	Fixed Income	75,000	70,763	0.004%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Qatenergy	7/12/2031	2.25	Fixed Income	270,000	238,858	0.014%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Qatenergy	7/12/2041	3.13	Fixed Income	110,000	87,752	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Mercer International Inc.	2/1/2029	5.13	Fixed Income	100,000	86,094	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sunoco LP	5/15/2029	4.50	Fixed Income	100,000	156,405	0.009%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2051	2.00	Fixed Income	1,030,410	868,608	0.050%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Prosus N.V.	7/13/2031	3.18	Fixed Income	125,000	111,342	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	122,060	102,550	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	888,024	746,915	0.043%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2051	2.00	Fixed Income	81,350	68,245	0.004%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Lorixa Group AG	4/29/2028	9.36	Fixed Income	48,508	134,903	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Seaboard Corporation	8/1/2043	5.00	Fixed Income	144,000	137,888	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	RLG Holdings, LLC	7/2/2028	9.61	Fixed Income	67,851	66,003	0.004%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Performance Food Group, Inc.	8/1/2029	4.25	Fixed Income	50,000	47,881	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	M. Bradd Downstream Trading S.a.r.l.	6/30/2031	7.25	Fixed Income	224,591	196,560	0.011%
JNL/Fidelity Institutional Asset Management Total Bond Fund	ArWid Group, Inc.	6/30/2029	4.88	Fixed Income	50,000	48,020	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Goldman Sachs Group, Inc. The	7/21/2032	2.38	Fixed Income	1,355,000	1,181,640	0.068%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Bank of America Corporation	7/21/2032	2.30	Fixed Income	1,360,000	1,184,087	0.068%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Univision Communications Inc.	3/15/2026	8.61	Fixed Income	58,114	58,065	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	MHF Commercial Mortgage Trust 2021-STOR	7/30/2034	5.11	Fixed Income	603,000	600,825	0.035%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Compania de Minas Buenaventura S.A.A.	7/23/2026	5.50	Fixed Income	90,000	89,836	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	APX Group, Inc.	7/1/2028	8.30	Fixed Income	215,061	218,263	0.013%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Carminal Corporation	8/1/2028	4.00	Fixed Income	110,000	106,899	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Builders FirstSource, Inc.	2/1/2032	4.25	Fixed Income	80,000	83,302	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.50	Fixed Income	449,451	394,589	0.023%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Ginnie Mae II	7/20/2051	2.50	Fixed Income	1,371,187	1,210,868	0.070%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Aydem Yenilenilebilir Enerji Anonim Sirketi	2/22/2027	7.75	Fixed Income	200,000	201,849	0.012%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Novelis Corporation	8/15/2031	3.98	Fixed Income	90,000	82,725	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Acruise, LLC	8/1/2029	6.00	Fixed Income	140,000	136,435	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2050	2.00	Fixed Income	193,719	162,392	0.009%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Osmosto Utilities Services, Inc.	6/18/2028	6.61	Fixed Income	9,773	9,678	0.001%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Venture Global Capiex Pass, LLC	5/15/2029	3.98	Fixed Income	115,000	109,243	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Centene Corporation	8/1/2031	2.63	Fixed Income	520,000	448,211	0.026%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Alt Home Group Inc.	12/31/2034	9.57	Fixed Income	121,531	53,415	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Hess Infrastructure Partners LP	2/15/2030	4.25	Fixed Income	60,000	57,615	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	The Republic of Rwanda, Government of	8/9/2031	5.50	Fixed Income	120,000	100,251	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.50	Fixed Income	149,611	130,157	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2051	2.50	Fixed Income	1,615,128	1,412,899	0.082%
JNL/Fidelity Institutional Asset Management Total Bond Fund	UBS Group AG	8/10/2027	1.49	Fixed Income	836,000	790,874	0.046%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Al Aqua Merger Sub, Inc.	6/17/2028	8.70	Fixed Income	248,375	249,802	0.014%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Alqua Financing S.A.	5/15/2029	4.25	Fixed Income	513,000	417,302	0.024%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Century Communities, Inc.	8/15/2029	3.88	Fixed Income	110,000	103,601	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Groupe Solmax Inc.	12/30/2024	10.35	Fixed Income	63,259	58,250	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.50	Fixed Income	1,506,223	1,315,277	0.076%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Groupe Solmax Inc.	12/30/2024	10.11	Fixed Income	49,483	45,620	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Groupe Solmax Inc.	12/30/2024	10.11	Fixed Income	34,466	31,737	0.002%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Upstream Rehabilitation, Inc.	11/20/2026	9.76	Fixed Income	66,177	58,266	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Worldwide Express Operations, LLC	7/22/2028	9.85	Fixed Income	189,540	190,361	0.011%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Arva Mining Corporation	8/9/2025	3.98	Fixed Income	150,000	150,176	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2051	2.50	Fixed Income	2,498,580	2,195,885	0.127%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Tanger Properties Limited Partnership	9/1/2031	2.75	Fixed Income	1,630,000	1,405,181	0.081%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Network 21 Limited	1/1/2200	3.98	Fixed Income	50,000	49,133	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Aeropuerto Internacional de Tocumen, S.A.	8/11/2061	5.13	Fixed Income	200,000	139,868	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Crocs, Inc.	8/15/2031	4.31	Fixed Income	50,000	45,658	0.003%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Voya CLO 2020-2 Ltd	7/19/2034	6.70	Fixed Income	304,000	306,284	0.018%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Aurion LLC	11/15/2029	10.61	Fixed Income	125,000	115,309	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Uber Technologies, Inc.	8/15/2029	4.50	Fixed Income	280,000	278,570	0.016%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Kennedy-Wilson, Inc.	2/1/2030	4.75	Fixed Income	140,000	127,481	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	302,254	255,358	0.015%
JNL/Fidelity Institutional Asset Management Total Bond Fund	M&T Bank Corporation	1/1/2020	3.50	Fixed Income	20,000	17,883	0.001%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sunrise Energy Corporation	8/1/2026	2.98	Fixed Income	235,000	220,447	0.013%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Modicare Inc.	10/1/2025	5.00	Fixed Income	35,000	22,639	0.001%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Comscore, LLC.	9/1/2029	4.75	Fixed Income	215,000	173,396	0.010%
JNL/Fidelity Institutional Asset Management Total Bond Fund	W. R. Grace Holdings LLC	8/15/2029	5.63	Fixed Income	90,000	85,180	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Tallgrass Energy Partners, LP	9/1/2031	6.00	Fixed Income	220,000	242,832	0.020%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	8/1/2051	2.00	Fixed Income	22,854,000	14,777,781	0.084%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Eldorado Gold Corporation	9/1/2029	6.25	Fixed Income	70,000	70,322	0.004%
JNL/Fidelity Institutional Asset Management Total Bond Fund	AdaptHealth Inc.	3/1/2030	5.13	Fixed Income	232,000	218,143	0.013%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Carvana Co.	9/1/2029	4.88	Fixed Income	245,000	205,345	0.012%
JNL/Fidelity Institutional Asset Management Total Bond Fund	TCF Financial World Wide, Inc.	8/15/2024	4.11	Fixed Income	168,000	93,200	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Hilton Grand Vacations Borrower LLC	5/20/2028	7.75	Fixed Income	705,956	701,250	0.041%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sweetwater Borrower, LLC	12/31/2024	9.61	Fixed Income	183,245	183,063	0.011%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2054	1.50	Fixed Income	2,525,000	1,994,797	0.115%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Paqua Park CLO Ltd	10/20/2033	6.67	Fixed Income	988,000	150,613	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	10/15/2054	5.00	Fixed Income	2,075,000	2,078,827	0.120%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2050	2.00	Fixed Income	184,530	154,977	0.009%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Magnetite XXVII Ltd	10/20/2034	6.68	Fixed Income	250,000	253,798	0.015%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2050	2.10	Fixed Income	598,491	503,919	0.029%
JNL/Fidelity Institutional Asset Management Total Bond Fund	EAB Global, Inc.	12/31/2024	8.50	Fixed Income	113,074	112,590	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	7/15/2041	1.75	Fixed Income	7,868,000	5,594,030	0.323%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Herschend Entertainment Company, LLC	8/18/2028	8.25	Fixed Income	38,427	38,435	0.002%
JNL/Fidelity Institutional Asset Management Total Bond Fund	AT&T Inc.	1/1/2027	4.80	Fixed Income	2,800,000	2,330,786	0.146%
JNL/Fidelity Institutional Asset Management Total Bond Fund	AT&T Inc.	12/1/2033	2.55	Fixed Income	238,000	202,796	0.012%
JNL/Fidelity Institutional Asset Management Total Bond Fund	AP Core Holdings I, LLC	7/21/2027	10.86	Fixed Income	135,000	123,034	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Cenovus Energy Inc.	2/15/2052	3.75	Fixed Income	140,000	103,528	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Ashdon Woods USA L.L.C.	4/1/2030	4.63	Fixed Income	75,000	73,771	0.004%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sanofi S.A.	11/15/2033	2.95	Fixed Income	1,400,000	1,213,136	0.070%
JNL/Fidelity Institutional Asset Management Total Bond Fund	ATI Inc.	10/1/2031	5.13	Fixed Income	30,000	29,944	0.002%
JNL/Fidelity Institutional Asset Management Total Bond Fund	GVC Holdings (Gibraltar) Limited	3/16/2027	7.86	Fixed Income	82,176	84,138	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Esdec Solar Group B.V.	8/23/2028	10.60	Fixed Income	221,733	208,489	0.012%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Cineplex Entertainment, Inc.	10/15/2029	4.63	Fixed Income	85,000	82,702	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	VCAI 2021-NPL5 LLC	8/25/2051	1.87	Fixed Income	124,462	123,750	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Ginnie Mae II	9/20/2051	2.50	Fixed Income	709,420	626,475	0.036%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Piedmont Operating Partnership, LP	4/1/2032	2.75	Fixed Income	207,000	171,101	0.010%
JNL/Fidelity Institutional Asset Management Total Bond Fund	TCF Financial Designated Activity Company	1/1/2200	6.00	Fixed Income	200,000	0	0.000%
JNL/Fidelity Institutional Asset Management Total Bond Fund	The AES Corporation	1/15/2031	2.45	Fixed Income	4,200,000	3,668,520	0.211%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Coibase Global, Inc.	10/1/2031	3.63	Fixed Income	130,000	112,604	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sandor-Palota	9/22/2031	2.13	Fixed Income	200,000	165,883	0.010%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	10/15/2054	3.00	Fixed Income	8,600,000	7,751,763	0.448%
JNL/Fidelity Institutional Asset Management Total Bond Fund	CNX Midstream Partners LP	4/15/2030	4.75	Fixed Income	190,000	181,689	0.010%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Softey's	11/15/2027	10.06	Fixed Income	88,967	89,698	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	980,418	823,402	0.048%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.10	Fixed Income	736,801	620,415	0.036%
JNL/Fidelity Institutional Asset Management Total Bond Fund	AP Core Holdings II, LLC	7/21/2027	10.86	Fixed Income	127,026	115,975	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Olympus Water US Holding Corporation	10/1/2028	4.25	Fixed Income	125,000	121,964	0.007%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Olympus Water US Holding Corporation	10/1/2029	6.25	Fixed Income	135,000	134,843	0.008%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Sabra Health Care Limited Partnership	12/1/2031	3.20	Fixed Income	1,800,000	1,300,799	0.076%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Nigeria, Federal Government of	9/28/2028	6.13	Fixed Income	305,000	276,561	0.016%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Tempur Sealy International, Inc.	10/15/2031	3.88	Fixed Income	95,000	86,324	0.005%
JNL/Fidelity Institutional Asset Management Total Bond Fund	W. R. Grace Holdings LLC	6/15/2027	6.88	Fixed Income	98,000	97,974	0.006%
JNL/Fidelity Institutional Asset Management Total Bond Fund	Mattress Firm Inc.						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	LSB Industries, Inc.	10/15/2028	6.25	Fixed Income	90,000	90,005	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Cedar Funding X CLO Ltd	10/20/2032	6.64	Fixed Income	710,000	710,788	0.042%
JNLFidelity Institutional Asset Management Total Bond Fund	GS Mortgage Securities Corporation Trust 2021-4P	10/15/2026	6.16	Fixed Income	710,000	703,964	0.041%
JNLFidelity Institutional Asset Management Total Bond Fund	GS Mortgage Securities Corporation Trust 2021-4P	10/15/2026	6.36	Fixed Income	110,000	107,838	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	GS Mortgage Securities Corporation Trust 2021-4P	10/15/2026	6.76	Fixed Income	100,000	97,803	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Mozart Debt Merger Sub Inc.	4/1/2029	3.88	Fixed Income	180,000	173,696	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	180 Medical, Inc.	10/15/2023	3.88	Fixed Income	275,000	266,615	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Mozart Debt Merger Sub Inc.	10/1/2029	5.25	Fixed Income	10,000	10,075	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Voya CLO 2020-3 Ltd	10/20/2034	6.69	Fixed Income	1,189,000	1,206,839	0.070%
JNLFidelity Institutional Asset Management Total Bond Fund	Magnetite XXX, Limited	10/25/2034	6.68	Fixed Income	1,072,000	1,085,812	0.063%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2041	2.00	Fixed Income	223,414	195,241	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Sch Salt Holdings Inc.	5/1/2028	4.88	Fixed Income	20,000	19,724	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Standard Industries Inc.	8/5/2028	6.92	Fixed Income	42,849	42,986	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Red Planet Borrower, LLC	9/23/2028	8.85	Fixed Income	41,857	40,638	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	W.R. Grace & Co. Corp.	8/11/2028	8.50	Fixed Income	126,343	126,343	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	CHG Healthcare Services Inc.	9/22/2028	8.61	Fixed Income	48,154	48,153	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Frontier Communications Holdings, LLC	1/15/2030	6.00	Fixed Income	115,000	116,242	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Endeavour Mining PLC	10/14/2026	5.00	Fixed Income	200,000	198,343	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Rivian Holdings LLC	10/15/2026	11.36	Fixed Income	624,000	602,018	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	U.S. Anesthesia Partners, Inc.	9/22/2028	9.57	Fixed Income	44,297	43,664	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Mattress Firm Inc.	9/21/2028	9.85	Fixed Income	185,186	185,072	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	ConnectWise, LLC	9/23/2028	9.10	Fixed Income	289,256	288,600	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	Ilad Holding	10/15/2028	7.00	Fixed Income	10,000	10,502	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Braskem Ideas, S.A.P.I.	2/20/2032	6.99	Fixed Income	80,000	63,655	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Plains All American Pipeline, L.P.	1/1/2200	9.49	Fixed Income	265,000	268,013	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	New Arcin U.S. Holding Corp.	9/22/2028	8.85	Fixed Income	277,984	277,632	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	BX 2021-PAC Mortgage Trust	11/15/2038	5.90	Fixed Income	1,203,000	1,185,290	0.069%
JNLFidelity Institutional Asset Management Total Bond Fund	BX 2021-PAC Mortgage Trust	11/15/2038	6.11	Fixed Income	180,000	177,903	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	BX 2021-PAC Mortgage Trust	11/15/2038	6.31	Fixed Income	241,000	237,537	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	BX 2021-PAC Mortgage Trust	11/15/2038	6.51	Fixed Income	234,000	230,220	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	BX 2021-PAC Mortgage Trust	11/15/2038	7.16	Fixed Income	813,000	806,448	0.047%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2025	2.50	Fixed Income	669,673	678,615	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Coral-US Co-Borrower, LLC	9/23/2029	8.21	Fixed Income	15,000	54,806	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Alliant Holdings Intermediate, LLC	11/1/2029	5.88	Fixed Income	15,000	14,758	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	AerCap Ireland Capital Designated Activity Company	10/29/2026	2.45	Fixed Income	561,000	544,764	0.031%
JNLFidelity Institutional Asset Management Total Bond Fund	AerCap Ireland Capital Designated Activity Company	10/29/2026	3.00	Fixed Income	588,000	562,244	0.031%
JNLFidelity Institutional Asset Management Total Bond Fund	AerCap Ireland Capital Designated Activity Company	1/30/2032	3.30	Fixed Income	629,000	571,184	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Columbia Cent CLO 29 Limited	10/20/2034	6.71	Fixed Income	882,000	895,078	0.052%
JNLFidelity Institutional Asset Management Total Bond Fund	Invesco CLO Ltd	10/23/2034	6.67	Fixed Income	621,000	629,960	0.036%
JNLFidelity Institutional Asset Management Total Bond Fund	Roblox Corporation	5/1/2030	3.98	Fixed Income	240,000	217,875	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Ecopetrol S.A.	11/27/2031	4.63	Fixed Income	75,000	65,599	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	10/15/2054	5.50	Fixed Income	5,450,000	5,502,787	0.318%
JNLFidelity Institutional Asset Management Total Bond Fund	CA Magnium Holdings	10/31/2026	5.38	Fixed Income	200,000	201,933	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Viatris Inc.	6/22/2030	2.70	Fixed Income	2,880,000	2,885,911	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	11/15/2034	3.00	Fixed Income	90,000	77,845	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Filtration Group Corporation	10/19/2028	8.86	Fixed Income	197,183	197,176	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Cedar Funding XII CLO Ltd	10/25/2034	6.68	Fixed Income	542,000	549,783	0.032%
JNLFidelity Institutional Asset Management Total Bond Fund	Adina HealthCare, Inc.	5/15/2032	3.98	Fixed Income	125,000	116,117	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	ELP Commercial Mortgage Trust 2021-ELP	11/15/2038	5.91	Fixed Income	2,428,174	2,416,801	0.140%
JNLFidelity Institutional Asset Management Total Bond Fund	ASET 2021-1 Trust	10/16/2028	2.95	Fixed Income	590,902	550,449	0.032%
JNLFidelity Institutional Asset Management Total Bond Fund	Jane Street Group, LLC	11/15/2028	4.50	Fixed Income	49,001	49,001	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Fluorion CLO 19 Ltd	11/16/2034	6.48	Fixed Income	639,000	645,446	0.037%
JNLFidelity Institutional Asset Management Total Bond Fund	Anticimex International AB	7/21/2028	8.48	Fixed Income	84,349	84,846	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Runner Buyer, Inc.	10/8/2028	10.67	Fixed Income	58,451	29,130	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	RailWorks Holdings, LP	11/15/2028	8.25	Fixed Income	220,000	234,069	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Asbury Automotive Group, Inc.	11/15/2029	4.63	Fixed Income	60,000	58,302	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Asbury Automotive Group, Inc.	2/15/2030	5.00	Fixed Income	65,000	62,630	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Allen Media, LLC	2/10/2027	10.98	Fixed Income	375,605	243,078	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	LaserShip, Inc.	4/30/2028	10.10	Fixed Income	170,605	106,374	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Restoration Hardware, Inc.	10/15/2028	7.86	Fixed Income	76,760	73,744	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	OP World Sales	1/1/2020	6.00	Fixed Income	200,000	203,000	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.50	Fixed Income	82,564	71,659	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Parkland Corporation	5/1/2030	4.63	Fixed Income	210,000	202,182	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	OJ European Group B.V.	2/15/2030	4.75	Fixed Income	45,000	42,837	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Mohagan Tribal Gaming Authority	2/1/2029	8.00	Fixed Income	100,000	96,879	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Silvwater Mining Company	11/16/2026	4.00	Fixed Income	100,000	96,879	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Really Income Corporation	1/15/2028	3.40	Fixed Income	238,000	233,795	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Really Income Corporation	6/15/2028	2.20	Fixed Income	133,000	124,408	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Open Text Corporation	12/1/2029	3.88	Fixed Income	265,000	266,136	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Graphic Packaging International, LLC	2/1/2030	3.75	Fixed Income	45,000	42,424	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2051	1.88	Fixed Income	19,398,000	12,218,697	0.706%
JNLFidelity Institutional Asset Management Total Bond Fund	RITHM Capital Corp.	10/15/2025	6.25	Fixed Income	22,000	22,626	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	DISH DBS Corporation	12/1/2028	5.75	Fixed Income	175,000	172,013	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Dryden 90 CLO, Ltd.	2/20/2035	6.52	Fixed Income	457,000	461,074	0.027%
JNLFidelity Institutional Asset Management Total Bond Fund	Energize PLC	4/30/2027	6.50	Fixed Income	309,000	313,760	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Kontor Brands, Inc.	11/15/2029	4.13	Fixed Income	30,000	28,841	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Canacol Energy Ltd	11/24/2028	5.75	Fixed Income	256,000	142,173	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	NEXUS Buyer LLC	10/29/2029	11.60	Fixed Income	55,000	54,743	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Dana Incorporated	2/15/2032	4.50	Fixed Income	95,000	84,773	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.50	Fixed Income	1,099,191	961,219	0.056%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.50	Fixed Income	566,058	484,291	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	FL Foods Inc.	6/1/2030	4.63	Fixed Income	45,000	44,255	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	SREIT Commercial Mortgage Trust 2021-MFP	11/15/2038	5.94	Fixed Income	1,604,063	1,636,337	0.095%
JNLFidelity Institutional Asset Management Total Bond Fund	SREIT Commercial Mortgage Trust 2021-MFP	11/15/2038	6.29	Fixed Income	605,694	603,026	0.035%
JNLFidelity Institutional Asset Management Total Bond Fund	SREIT Commercial Mortgage Trust 2021-MFP	11/15/2038	6.54	Fixed Income	376,477	373,980	0.022%
JNLFidelity Institutional Asset Management Total Bond Fund	SREIT Commercial Mortgage Trust 2021-MFP	11/15/2038	6.79	Fixed Income	246,871	245,811	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Gabon, Government of	11/24/2031	7.00	Fixed Income	80,000	63,478	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Venture Global Calcasieu Pass, LLC	11/1/2033	3.88	Fixed Income	95,000	86,785	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2041	2.00	Fixed Income	7,500,000	5,570,329	0.322%
JNLFidelity Institutional Asset Management Total Bond Fund	HS Holding Limited	11/28/2021	5.13	Fixed Income	280,000	280,000	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	HUB International Limited	12/1/2029	5.63	Fixed Income	80,000	79,965	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Chamberlain Group Inc.	10/22/2028	8.60	Fixed Income	19,847	19,732	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Madison Park Funding LII Ltd	1/22/2035	6.64	Fixed Income	994,000	1,007,005	0.058%
JNLFidelity Institutional Asset Management Total Bond Fund	ASET 2021-2 Trust	12/15/2028	2.88	Fixed Income	1,261,053	1,051,256	0.061%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.00	Fixed Income	473,563	397,573	0.023%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.00	Fixed Income	751,450	631,104	0.036%
JNLFidelity Institutional Asset Management Total Bond Fund	Pacific Bells, LLC	10/12/2028	10.10	Fixed Income	126,298	126,331	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Superannuation and Investments US LLC	9/23/2028	9.11	Fixed Income	175,702	93,192	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Magnetite XXII Ltd	1/25/2035	6.68	Fixed Income	731,000	740,395	0.043%
JNLFidelity Institutional Asset Management Total Bond Fund	Electron BidCo Inc.	10/29/2028	8.36	Fixed Income	82,676	82,757	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.00	Fixed Income	269,389	226,330	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	144,601	121,442	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2051	2.00	Fixed Income	127,487	107,030	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	332,498	279,248	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Starwood Property Trust, Inc.	12/31/2024	3.75	Fixed Income	75,000	75,306	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	249,960	204,162	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	371,550	311,891	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	535,847	448,858	0.026%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.50	Fixed Income	461,554	403,330	0.023%
JNLFidelity Institutional Asset Management Total Bond Fund	Elton Vance CLO 2020-2 Ltd	11/16/2035	6.71	Fixed Income	1,020,000	1,035,142	0.060%
JNLFidelity Institutional Asset Management Total Bond Fund	CLP Financing, LLC	6/1/2025	5.25	Fixed Income	60,000	50,921	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	679,665	570,602	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.50	Fixed Income	567,282	496,076	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	1,741,592	1,458,863	0.084%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2051	2.00	Fixed Income	34,128	28,552	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	32,309	27,124	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	49,494	41,552	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	124,766	104,746	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Finatrics Commerce Intermediate Holdco, LLC	11/24/2028	8.51	Fixed Income	44,784	44,026	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2051	2.00	Fixed Income	559,147	470,122	0.027%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	166,443	139,734	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	167,785	140,861	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	115,591	96,192	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	122,355	102,722	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	114,606	96,001	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Western Digital Corporation	2/1/2032	3.10	Fixed Income	62,000	53,797	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Chemours Company (Tie)	11/15/2028	10.82	Fixed Income	76,481	76,478	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Coherent Corp.	12/15/2029	5.00	Fixed Income	185,000	183,606	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Southern Energy Company	2/1/2032	4.75	Fixed Income	95,000	91,630	0.005%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Shriram Finance Limited	7/18/2025	4.15	Fixed Income	200,000	186,707	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	269,734	269,734	0.04%
JNLFidelity Institutional Asset Management Total Bond Fund	Prosus N.V.	1/19/2032	4.19	Fixed Income	200,000	189,229	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Feritita Entertainment LLC	1/15/2029	4.63	Fixed Income	50,000	48,217	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Feritita Entertainment LLC	1/15/2030	6.75	Fixed Income	295,000	278,637	0.046%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2036	2.00	Fixed Income	157,767	144,785	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/21/2036	2.00	Fixed Income	289,299	285,458	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	MWV Holdco II LLC	2/1/2030	5.50	Fixed Income	25,000	24,570	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Commercial Metals Company	1/15/2030	4.13	Fixed Income	45,000	43,135	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Commercial Metals Company	3/15/2032	4.38	Fixed Income	45,000	42,848	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	CCO Holdings, LLC	2/1/2032	4.75	Fixed Income	435,000	2,393,978	0.02%
JNLFidelity Institutional Asset Management Total Bond Fund	EIG Pearl Holdings S.a.r.l.	8/31/2036	3.55	Fixed Income	275,000	245,874	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Goldman Sachs Group, Inc., The	2/24/2033	3.10	Fixed Income	2,900,000	2,620,499	0.151%
JNLFidelity Institutional Asset Management Total Bond Fund	Ministerial Financier Publice	3/27/2032	3.63	Fixed Income	96,000	87,044	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	VisaJet Malta Finance P.L.C.	2/1/2030	2.80	Fixed Income	280,000	243,968	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Community Health Systems, Inc.	5/15/2030	5.25	Fixed Income	105,000	98,684	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Central American Bottling Corporation	4/27/2029	5.25	Fixed Income	155,000	154,007	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Nufarm Australia Limited	1/27/2030	5.00	Fixed Income	265,000	248,226	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Naked Juice LLC	1/25/2030	11.43	Fixed Income	50,000	30,344	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Hess Corporation	3/15/2033	7.13	Fixed Income	1,351,000	1,564,360	0.090%
JNLFidelity Institutional Asset Management Total Bond Fund	Planet Fitness Master	1/27/2026	3.25	Fixed Income	670,800	654,646	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	Planet Fitness Master	1/27/2026	4.01	Fixed Income	599,625	550,255	0.032%
JNLFidelity Institutional Asset Management Total Bond Fund	Luxembourg Investment Company 428 S.a.r.l.	10/27/2028	12.35	Fixed Income	57,527	739	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Jacobs Entertainment, Inc.	2/15/2029	6.75	Fixed Income	37,000	36,280	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	ERO Copper Corp.	2/15/2030	6.50	Fixed Income	280,000	280,903	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Intelsat Jackson Holdings S.A.	3/15/2030	6.50	Fixed Income	261,000	251,543	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica de Chile	1/31/2052	4.00	Fixed Income	200,000	186,488	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica de Chile	1/31/2027	2.75	Fixed Income	75,000	72,825	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Embecka Corp.	2/15/2030	5.00	Fixed Income	200,000	27,790	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	GT Trust	2/3/2032	5.13	Fixed Income	200,000	184,778	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Thunderbolt II Aircraft Lease Limited	8/15/2025	4.15	Fixed Income	865,875	861,624	0.051%
JNLFidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2022-DKXL	1/1/2030	6.38	Fixed Income	617,000	614,567	0.036%
JNLFidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2022-DKXL	1/18/2039	6.65	Fixed Income	117,000	116,067	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2022-DKXL	1/18/2039	7.25	Fixed Income	100,000	99,042	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Feritita Entertainment, LLC	1/13/2029	8.85	Fixed Income	1,263,249	1,263,749	0.073%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank America Corporation	2/4/2033	7.06	Fixed Income	1,000,000	2,393,978	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Ares LVBL CLO Ltd.	1/16/2035	6.63	Fixed Income	1,109,000	1,126,845	0.065%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.00	Fixed Income	675,767	567,330	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.00	Fixed Income	293,400	245,311	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.82	Fixed Income	691,304	577,908	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2052	2.00	Fixed Income	852,724	714,293	0.041%
JNLFidelity Institutional Asset Management Total Bond Fund	Pediatric Medical Group, Inc.	2/15/2030	5.38	Fixed Income	100,000	146,487	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	RR T Ltd	1/15/2037	6.64	Fixed Income	1,141,000	1,156,848	0.067%
JNLFidelity Institutional Asset Management Total Bond Fund	CoreLogic, Inc.	5/1/2028	4.08	Fixed Income	230,000	221,849	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Naked Juice LLC	1/20/2029	8.88	Fixed Income	165,740	135,270	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	McAfee Corp.	2/15/2030	7.38	Fixed Income	80,000	78,810	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Vibrant Technologies Inc.	2/15/2030	9.00	Fixed Income	185,000	175,222	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Oxley 98 CLO Ltd	4/20/2035	6.58	Fixed Income	591,000	599,840	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Univision Communications Inc.	5/6/2028	8.61	Fixed Income	343,638	334,373	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	Oce Material Technologies Inc.	1/31/2027	7.88	Fixed Income	266,134	266,134	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	ICU Medical, Inc.	12/16/2028	7.98	Fixed Income	97,573	97,429	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Axian Telecom	2/16/2027	7.38	Fixed Income	256,000	256,170	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Studio City Company Limited	2/15/2027	7.00	Fixed Income	60,000	61,069	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	SPGN 2022-TFLM Mortgage Trust	2/15/2039	7.10	Fixed Income	278,000	273,322	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	SPGN 2022-TFLM Mortgage Trust	2/15/2039	7.75	Fixed Income	145,000	141,606	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Specialty Refining Products Holdings, LLC	10/5/2028	2.10	Fixed Income	78,000	77,505	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	12KX CLO 1B Ltd	12/31/2035	6.63	Fixed Income	1,373,000	1,394,587	0.081%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2022-LP2	2/15/2039	6.11	Fixed Income	1,182,130	1,178,937	0.068%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2022-LP2	2/15/2039	6.41	Fixed Income	433,524	431,629	0.025%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2022-LP2	2/15/2039	6.66	Fixed Income	356,082	354,553	0.020%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2022-LP2	2/15/2039	6.86	Fixed Income	386,082	384,203	0.022%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	2/15/2052	2.25	Fixed Income	36,390,000	24,918,003	1.40%
JNLFidelity Institutional Asset Management Total Bond Fund	19th Holdings Golf, LLC	1/27/2029	8.51	Fixed Income	178,496	174,967	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Beechwood Park CLO Ltd	1/17/2035	6.59	Fixed Income	1,132,000	1,151,489	0.067%
JNLFidelity Institutional Asset Management Total Bond Fund	Novus LLC	1/19/2023	9.14	Fixed Income	200,000	200,149	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	2/24/2028	3.07	Fixed Income	4,000,000	3,901,356	0.225%
JNLFidelity Institutional Asset Management Total Bond Fund	Cedar Funding XV CLO Ltd	4/20/2035	6.60	Fixed Income	1,052,000	1,066,193	0.062%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2052	3.00	Fixed Income	244,835	222,152	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2/2052	2.78	Fixed Income	276,232	259,885	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Oplex, Inc.	12/31/2049		Fixed Income	10,000	9,492	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Athenahealth Group, Inc.	1/27/2029	8.50	Fixed Income	197,818	196,420	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	WH Borrower, LLC	2/9/2027	10.79	Fixed Income	92,100	93,851	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.00	Fixed Income	120,414	109,414	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.00	Fixed Income	130,223	109,082	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.00	Fixed Income	134,160	112,174	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Symphony CLO XXXII	4/23/2035	6.80	Fixed Income	1,176,000	1,191,037	0.069%
JNLFidelity Institutional Asset Management Total Bond Fund	Accelerated Health Systems, LLC	2/1/2029	9.73	Fixed Income	98,621	75,299	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Capital One Financial Corporation	3/3/2026	2.64	Fixed Income	644,000	637,931	0.037%
JNLFidelity Institutional Asset Management Total Bond Fund	Diamond Sports Group, LLC	12/31/2049		Fixed Income	10,000	8,713	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Capital One Financial Corporation	3/1/2030	3.27	Fixed Income	2,123,000	2,001,760	0.116%
JNLFidelity Institutional Asset Management Total Bond Fund	Bedding Intermediate Holdings, Inc.	7/15/2030	7.00	Fixed Income	60,000	64,498	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2055	3.50	Fixed Income	1,421,209	1,339,688	0.077%
JNLFidelity Institutional Asset Management Total Bond Fund	Hexion Holdings Corporation	12/31/2049		Fixed Income	10,000	9,914	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.50	Fixed Income	379,991	356,408	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Solis IV BV	2/9/2029	8.57	Fixed Income	540,385	539,356	0.031%
JNLFidelity Institutional Asset Management Total Bond Fund	Diamond Sports Group, LLC	5/19/2024	15.41	Fixed Income	130,612	131,617	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Fluidra, S.A.	1/21/2029	7.27	Fixed Income	154,882	154,817	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Charter Communications Operating, LLC	4/1/2063	5.50	Fixed Income	487,000	407,749	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Charter Communications Operating, LLC	4/1/2033	4.40	Fixed Income	487,000	457,983	0.026%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.00	Fixed Income	120,493	109,493	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	3.50	Fixed Income	3,037,544	2,850,926	0.165%
JNLFidelity Institutional Asset Management Total Bond Fund	Embecka Corp	1/27/2029	8.25	Fixed Income	155,745	151,625	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Puget Energy, Inc.	3/15/2032	4.22	Fixed Income	2,096,000	1,975,469	0.114%
JNLFidelity Institutional Asset Management Total Bond Fund	Diamond Sports Group, LLC	2/14/2027	4.68	Fixed Income	276,497	276,497	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Wells Fargo & Company	3/24/2028	3.53	Fixed Income	5,123,000	5,029,070	0.291%
JNLFidelity Institutional Asset Management Total Bond Fund	Hexion Holdings Corporation	3/2/2029	9.77	Fixed Income	517,248	518,431	0.030%
JNLFidelity Institutional Asset Management Total Bond Fund	The Philippines, Government of	9/29/2032	3.56	Fixed Income	200,000	187,427	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Low's Companies, Inc.	4/1/2052	4.25	Fixed Income	117,100	89,922	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.00	Fixed Income	242,228	203,359	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Low's Companies, Inc.	4/1/2027	3.35	Fixed Income	89,000	88,874	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Ford Motor Credit Company LLC	5/28/2027	4.95	Fixed Income	1,700,000	1,724,693	0.100%
JNLFidelity Institutional Asset Management Total Bond Fund	Hexion Holdings Corporation	2/9/2029	12.78	Fixed Income	70,000	62,617	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Invitation Homes Operating Partnership LP	4/15/2032	4.15	Fixed Income	1,513,000	1,473,911	0.085%
JNLFidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	10/16/2025	6.88	Fixed Income	60,000	61,987	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	2/16/2032	6.70	Fixed Income	500,000	451,699	0.026%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	3/31/2029	2.38	Fixed Income	23,000,000	21,800,000	1.24%
JNLFidelity Institutional Asset Management Total Bond Fund	Misc Capital Two Labuan Ltd	4/6/2032	3.75	Fixed Income	200,000	200,000	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Clydesdale Acquisition Holdings, Inc.	4/15/2029	6.63	Fixed Income	45,000	46,823	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Clydesdale Acquisition Holdings, Inc.	4/15/2030	8.75	Fixed Income	140,000	147,953	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	American Homes 4 Rent, L.P.	4/15/2032	3.63	Fixed Income	451,000	424,246	0.025%
JNLFidelity Institutional Asset Management Total Bond Fund	Redfin Corporation	4/1/2027	0.50	Fixed Income	286,000	211,272	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Hess Infrastructure Partners LP	10/15/2030	5.50	Fixed Income	20,000	20,452	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	FMG Resources (August 2006) Pty Ltd	4/15/2030	5.88	Fixed Income	110,000	114,180	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	PT Freepoint Indonesia	4/14/2052	6.20	Fixed Income	200,000	218,306	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	PT Freepoint Indonesia	4/14/2027	4.76	Fixed Income	200,000	205,382	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Angola, Government of	4/14/2032	8.75	Fixed Income	100,000	93,564	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	BPR Trust 2022-QAANA	4/15/2037	6.99	Fixed Income	3,825,000	3,848,825	0.222%
JNLFidelity Institutional Asset Management Total Bond Fund	BPR Trust 2022-QAANA	4/15/2037	7.54	Fixed Income	591,000	594,826	0.034%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2052	2.50	Fixed Income	49,884	43,233	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2022-IND	4/15/2037	6.59	Fixed Income	865,946	868,210	0.050%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2022-IND	4/15/2037	7.04	Fixed Income	441,293	442,398	0.026%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2022-IND	4/15/2037	7.39	Fixed Income	99,833	100,161	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2022-IND	4/15/2037	7.94	Fixed Income	83,000	83,393	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	South Africa, Parliament of	4/20/2032	5.88	Fixed Income	60,000	61,355	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Morgan Stanley	4/20/2028	4.21	Fixed Income	5,800,000	5,901,963	0.341%
JNLFidelity Institutional Asset Management Total Bond Fund	JPMorgan Chase & Co.	4/26/2028	4.32	Fixed Income	3,800,000	3,879,283	0.224%
JNLFidelity Institutional Asset Management Total Bond Fund	Clydesdale Acquisition Holdings Inc	3/30/2029	7.15	Fixed Income	731,135	727,135	0.042%
JNLFidelity Institutional Asset Management Total Bond Fund	VICI Properties L.P.	5/15/2025	4.38	Fixed Income	112,000	113,322	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	VisaJet Malta Finance P.L.C.	5/1/2027	7.88	Fixed Income	109,000	110,096	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	VICI Properties L.P.	2/15/2028	4.75				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Galaxy US Opco Inc.	4/19/2029	10.00	Fixed Income	44.868	38.639	0.0026%
JNLFidelity Institutional Asset Management Total Bond Fund	Galaxy US Opco Inc.	4/19/2029	10.00	Fixed Income	83.179	80.473	0.0056%
JNLFidelity Institutional Asset Management Total Bond Fund	St. George Warehousing & Trucking Co. of CA, Inc.	3/24/2028	11.48	Fixed Income	77.801	34.256	0.0020%
JNLFidelity Institutional Asset Management Total Bond Fund	Conquest Group LLC	4/26/2029	11.15	Fixed Income	117.001	92.518	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	Frontier Communications Holdings, LLC	5/15/2030	8.75	Fixed Income	83.000	90.982	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	TKC Holdings, Inc.	5/15/2028	6.88	Fixed Income	166.000	168.185	0.0016%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	5/15/2025	2.88	Fixed Income	11,386.000	9,040.326	0.5222%
JNLFidelity Institutional Asset Management Total Bond Fund	Oscar Acquisition Co, LLC	4/29/2029	9.58	Fixed Income	288.910	285.168	0.0169%
JNLFidelity Institutional Asset Management Total Bond Fund	PENN Entertainment, Inc.	4/13/2029	8.10	Fixed Income	63.700	63.810	0.0040%
JNLFidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	5/24/2033	4.91	Fixed Income	491.000	503.624	0.0239%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	5/15/2042	3.25	Fixed Income	6,600.000	5,948.933	0.3448%
JNLFidelity Institutional Asset Management Total Bond Fund	Carnival Corporation	6/1/2030	10.50	Fixed Income	455.000	510.074	0.0299%
JNLFidelity Institutional Asset Management Total Bond Fund	Spa Holdings 3 Oy	3/18/2028	9.35	Fixed Income	91.281	91.075	0.0050%
JNLFidelity Institutional Asset Management Total Bond Fund	AZZ Inc.	5/6/2029	8.50	Fixed Income	103.654	104.030	0.0069%
JNLFidelity Institutional Asset Management Total Bond Fund	Solo IV BV	2/9/2027	8.57	Fixed Income	198.423	198.389	0.0116%
JNLFidelity Institutional Asset Management Total Bond Fund	EQM Midstream Partners, LP	6/1/2027	7.50	Fixed Income	120.000	126.547	0.0076%
JNLFidelity Institutional Asset Management Total Bond Fund	Darling Ingredients Inc.	6/15/2030	6.00	Fixed Income	60.000	61.615	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Adagah Metal Packaging Finance Public Limited Company	6/15/2027	6.00	Fixed Income	65.000	66.500	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Kinelek Holdings LP	6/15/2030	5.88	Fixed Income	95.000	97.307	0.0069%
JNLFidelity Institutional Asset Management Total Bond Fund	Orbia Advance Corporation, S.A.B. de C.V.	5/11/2031	2.88	Fixed Income	70.000	60.125	0.0030%
JNLFidelity Institutional Asset Management Total Bond Fund	Zayo Group Holdings, Inc.	3/9/2027	9.50	Fixed Income	204.750	188.373	0.0116%
JNLFidelity Institutional Asset Management Total Bond Fund	ASSET 2022-1 Limited	5/16/2029	6.00	Fixed Income	1,532.575	1,541.345	0.0899%
JNLFidelity Institutional Asset Management Total Bond Fund	Cast and Crew Payroll, LLC	12/30/2028	9.00	Fixed Income	117.515	117.997	0.0076%
JNLFidelity Institutional Asset Management Total Bond Fund	Entegris Escrow Corporation	6/15/2030	5.95	Fixed Income	35.000	36.286	0.0029%
JNLFidelity Institutional Asset Management Total Bond Fund	Anywhere Real Estate Group LLC	6/15/2026	0.25	Fixed Income	81.000	70.597	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Motel 6	9/9/2026	10.06	Fixed Income	95.156	95.350	0.0039%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2041	140.632	Fixed Income	127.131	137.512	0.0078%
JNLFidelity Institutional Asset Management Total Bond Fund	PETRONAS Capital Limited	4/28/2061	3.40	Fixed Income	105.000	77.879	0.0040%
JNLFidelity Institutional Asset Management Total Bond Fund	Saudi Arabian Oil Company	11/24/2070	3.50	Fixed Income	65.000	44.094	0.0030%
JNLFidelity Institutional Asset Management Total Bond Fund	Univision Communications Inc.	6/10/2029	9.58	Fixed Income	58.650	57.676	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	Abu Dhabi, Government of	9/15/2051	3.00	Fixed Income	105.000	74.442	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	SCIL IV LLC/ SCIL USA Holdings LLC	11/1/2028	5.88	Fixed Income	159.000	160.550	0.0099%
JNLFidelity Institutional Asset Management Total Bond Fund	Ghana, Government of	6/16/2049	8.63	Fixed Income	35.000	18.244	0.0016%
JNLFidelity Institutional Asset Management Total Bond Fund	Garden SpinCo Corporation	7/20/2030	8.63	Fixed Income	40.000	44.938	0.0039%
JNLFidelity Institutional Asset Management Total Bond Fund	Eagle Parent Corp.	3/17/2029	9.58	Fixed Income	151.658	143.517	0.0089%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2036	4.28	Fixed Income	2,560.000	2,568.989	0.0138%
JNLFidelity Institutional Asset Management Total Bond Fund	The Democratic Socialist Republic of Sri Lanka	7/18/2026	6.83	Fixed Income	100.000	56.000	0.0030%
JNLFidelity Institutional Asset Management Total Bond Fund	JPMorgan Chase & Co.	7/25/2033	4.91	Fixed Income	1,287.000	1,327.647	0.0776%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank of America Corporation	7/22/2033	5.02	Fixed Income	5,250.000	5,441.783	0.3148%
JNLFidelity Institutional Asset Management Total Bond Fund	Imperial Brands Finance PLC	7/27/2027	6.13	Fixed Income	536.000	563.389	0.0339%
JNLFidelity Institutional Asset Management Total Bond Fund	AZZ Inc.	5/6/2029	8.50	Fixed Income	67.548	67.793	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Capital One Financial Corporation	7/24/2026	4.99	Fixed Income	1,017.016	1,027.016	0.0599%
JNLFidelity Institutional Asset Management Total Bond Fund	Capital One Financial Corporation	7/26/2030	5.25	Fixed Income	1,600.000	1,644.762	0.0959%
JNLFidelity Institutional Asset Management Total Bond Fund	Morgan Stanley	7/20/2033	4.89	Fixed Income	1,207.000	1,234.843	0.0718%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2035	2.00	Fixed Income	412.178	397.957	0.0226%
JNLFidelity Institutional Asset Management Total Bond Fund	Intown 2022-Stay Mortgage Trust	8/15/2027	7.59	Fixed Income	1,098.000	1,104.443	0.0646%
JNLFidelity Institutional Asset Management Total Bond Fund	RVR Dealership Holdings, LLC	2/8/2028	9.10	Fixed Income	127.982	113.523	0.0076%
JNLFidelity Institutional Asset Management Total Bond Fund	Williams Companies, Inc. The	8/15/2032	4.65	Fixed Income	1,037.000	1,035.961	0.0599%
JNLFidelity Institutional Asset Management Total Bond Fund	All Group North America Corporation	10/13/2028	7.36	Fixed Income	76.771	76.990	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Discovery Purchaser Corporation	12/31/2049		Fixed Income	60.000	59.683	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	JPMorgan Chase & Co.	4/26/2033	4.59	Fixed Income	3,532.000	3,605.491	0.2089%
JNLFidelity Institutional Asset Management Total Bond Fund	Cardenas Markets, Inc.	7/20/2029	12.18	Fixed Income	190.448	193.546	0.0116%
JNLFidelity Institutional Asset Management Total Bond Fund	MPX LP	9/1/2032	4.95	Fixed Income	993.000	999.158	0.0589%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	8/15/2032	2.75	Fixed Income	12,578.000	11,796.710	0.6826%
JNLFidelity Institutional Asset Management Total Bond Fund	Blackstone Private Credit Fund	3/24/2025	4.70	Fixed Income	4,923.000	4,930.229	0.2859%
JNLFidelity Institutional Asset Management Total Bond Fund	Archway Solutions LLC	6/30/2028	10.61	Fixed Income	78.360	78.467	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	8/31/2035	3.13	Fixed Income	9,040.000	8,876.539	0.5136%
JNLFidelity Institutional Asset Management Total Bond Fund	Asurion LLC	8/16/2028	9.35	Fixed Income	179.786	176.718	0.0109%
JNLFidelity Institutional Asset Management Total Bond Fund	JPMorgan Chase & Co.	9/14/2033	5.72	Fixed Income	1,700.000	1,805.582	0.1046%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2035	1.50	Fixed Income	158.938	143.229	0.0089%
JNLFidelity Institutional Asset Management Total Bond Fund	FX Trust 2022-GPA	8/15/2033	6.81	Fixed Income	639.617	641.111	0.0399%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2036	1.50	Fixed Income	608.169	545.777	0.0326%
JNLFidelity Institutional Asset Management Total Bond Fund	Cloud Software Group, Inc.	3/31/2029	6.50	Fixed Income	61.000	60.722	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Nigeria, Federal Government of	2/23/2038	7.70	Fixed Income	60.000	49.389	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	137509 BC Ltd	1/30/2029	9.00	Fixed Income	151.000	151.000	0.0099%
JNLFidelity Institutional Asset Management Total Bond Fund	Bausch Health Companies Inc.	9/30/2028	11.00	Fixed Income	85.000	79.095	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	The Philippines, Government of	10/13/2047	5.95	Fixed Income	200.000	230.338	0.0136%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	11/15/2054	5.00	Fixed Income	2,950.000	2,977.881	0.1726%
JNLFidelity Institutional Asset Management Total Bond Fund	Discovery Purchaser Corporation	9/4/2029	9.80	Fixed Income	381.959	389.128	0.0239%
JNLFidelity Institutional Asset Management Total Bond Fund	Ginnie Mae II	10/20/2052	4.00	Fixed Income	666.949	647.553	0.0376%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	7/9/2029	4.00	Fixed Income	30,000.000	31,064.674	1.7959%
JNLFidelity Institutional Asset Management Total Bond Fund	Palatona Holdco LLC	8/1/2029	10.85	Fixed Income	88.884	83.794	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	Dubai, Government of	1/30/2043	5.25	Fixed Income	200.000	200.484	0.0126%
JNLFidelity Institutional Asset Management Total Bond Fund	Kingdom of Bahrain	5/18/2034	5.63	Fixed Income	45.000	43.798	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	DISH Network Corporation	11/15/2027	11.75	Fixed Income	659.000	720.388	0.0426%
JNLFidelity Institutional Asset Management Total Bond Fund	Ally Financial Inc.	11/15/2027	7.10	Fixed Income	1,430.000	1,554.745	0.0909%
JNLFidelity Institutional Asset Management Total Bond Fund	Boston Properties Limited Partnership	12/1/2027	7.00	Fixed Income	740.000	798.959	0.0469%
JNLFidelity Institutional Asset Management Total Bond Fund	Neptune BidCo US Inc.	4/15/2029	9.29	Fixed Income	50.000	51.094	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	Uzrad Rudy Ministrow	11/16/2032	5.75	Fixed Income	90.000	96.570	0.0069%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank 2022-BNK44	10/18/2032	5.75	Fixed Income	3,815.000	4,121.419	0.2389%
JNLFidelity Institutional Asset Management Total Bond Fund	Corporation Service Company	8/10/2029	7.75	Fixed Income	58.420	58.420	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Panama	2/14/2035	6.40	Fixed Income	100.000	103.335	0.0069%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2032	4.13	Fixed Income	2,600.000	2,715.260	0.1576%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2052	5.50	Fixed Income	1,453.227	1,480.147	0.0869%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2051	3.00	Fixed Income	278.676	253.990	0.0159%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	3.00	Fixed Income	467.111	425.849	0.0259%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	3.00	Fixed Income	201.226	183.149	0.0116%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2052	5.00	Fixed Income	449.440	456.456	0.0269%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2052	5.00	Fixed Income	1,068.492	1,061.487	0.0616%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/6/2027	6.75	Fixed Income	765.167	757.174	0.0449%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2052	5.00	Fixed Income	711.435	721.628	0.0426%
JNLFidelity Institutional Asset Management Total Bond Fund	GVC Holdings (Gibraltar) Limited	10/18/2029	8.01	Fixed Income	177.439	185.453	0.0116%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2052	6.00	Fixed Income	177.981	183.508	0.0116%
JNLFidelity Institutional Asset Management Total Bond Fund	The Republic of Indonesia, The Government of	2/14/2027	6.75	Fixed Income	80.000	47.809	0.0029%
JNLFidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyeti Basbakanlik	11/15/2028	9.88	Fixed Income	145.000	167.247	0.0109%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.00	Fixed Income	1,061.227	1,029.614	0.0599%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2052	5.00	Fixed Income	376.470	381.864	0.0226%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2052	5.00	Fixed Income	85.600	86.400	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2052	5.00	Fixed Income	78.736	79.352	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2052	5.00	Fixed Income	224.698	227.496	0.0136%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2052	5.00	Fixed Income	226.939	230.190	0.0136%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2052	5.00	Fixed Income	303.118	307.465	0.0189%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2052	5.00	Fixed Income	301.245	305.562	0.0189%
JNLFidelity Institutional Asset Management Total Bond Fund	Brandywine Operating Partnership, L.P.	3/15/2028	8.30	Fixed Income	1,062.000	1,149.448	0.0669%
JNLFidelity Institutional Asset Management Total Bond Fund	Lifepoint Health, Inc.	11/1/2029	5.38	Fixed Income	85.000	81.014	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	Duke US Holdings, Inc.	8/10/2029	8.85	Fixed Income	280.589	259.589	0.0159%
JNLFidelity Institutional Asset Management Total Bond Fund	OG Investment Intermediate Holdings 2, Inc.	10/31/2035	15.40	Fixed Income	152.245	152.245	0.0099%
JNLFidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	4/20/2033	8.00	Fixed Income	80.000	88.902	0.0059%
JNLFidelity Institutional Asset Management Total Bond Fund	Gobierno De La Republica Oriental Del Uruguay	10/28/2034	5.75	Fixed Income	70.000	77.753	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.50	Fixed Income	895.749	776.595	0.0459%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	3.00	Fixed Income	82.802	73.658	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	IHS Holding Limited	11/29/2028	6.25	Fixed Income	20.000	19.179	0.0016%
JNLFidelity Institutional Asset Management Total Bond Fund	ESKOM Holdings	8/10/2028	8.45	Fixed Income	25.000	26.753	0.0026%
JNLFidelity Institutional Asset Management Total Bond Fund	CSN Resources S.A.	4/8/2032	5.88	Fixed Income	85.000	74.809	0.0046%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/15/2054	4.50	Fixed Income	475.000	467.251	0.0276%
JNLFidelity Institutional Asset Management Total Bond Fund	LGI Homes, Inc.	7/15/2029	4.00	Fixed Income	60.000	56.013	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	Alice Financing S.A.	10/31/2027	10.30	Fixed Income	58.975	54.763	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	Exelon Corporation	3/15/2052	4.10	Fixed Income	174.000	144.569	0.0089%
JNLFidelity Institutional Asset Management Total Bond Fund	Exelon Corporation	3/15/2032	3.35	Fixed Income	2,830.000	2,830.888	0.1526%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	12/31/2029	3.88	Fixed Income	22,700.000	23,220.234	1.3426%
JNLFidelity Institutional Asset Management Total Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/9/2035	6.35	Fixed Income	200.000	211.883	0.0126%
JNLFidelity Institutional Asset Management Total Bond Fund	Santor-Palota	9/25/2052	6.75	Fixed Income	35.000	39.471	0.0026%
JNLFidelity Institutional Asset Management Total Bond Fund	POSOCO Holdings Inc.	8/1/2033	5.88	Fixed Income	200.000	214.763	0.0126%
JNLFidelity Institutional Asset Management Total Bond Fund	The Philippines, Government of	11/7/2048	5.50	Fixed Income	200.000	215.537	0.0126%
JNLFidelity Institutional Asset Management Total Bond Fund	Ecopetrol S.A.	11/3/2033	8.88	Fixed Income	230.000	250.930	0.0146%
JNLFidelity Institutional Asset Management Total Bond Fund	WH Borrower, LLC	12/31/2040		Fixed Income	60.000	59.850	0.0036%
JNLFidelity Institutional Asset Management Total Bond Fund	Liberty Costa Rica Senior Secured Finance	11/15/2031	10.88	Fixed Income	200.000	234.024	0.0136%
JNLFidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyeti Basbakanlik	11/9/2033	9.38	Fixed Income	345.000	410.154	0.0246%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2052	4.00	Fixed Income	541.560	527.627	0.0309%
JNLFidelity Institutional Asset Management Total Bond Fund	CSC Holdings, LLC	11/7/2028	9.60	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL.Fidelity Institutional Asset Management Total Bond Fund	Ministry of Diwan Amiri Affairs	6/2/2046	4.63	Fixed Income	220,000	216,389	0.013%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	9/21/2047	6.75	Fixed Income	8,860,000	8,363,471	0.387%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Banco Mercantil Del Norte, S.A., Institucion De Banca Multiple, Grupo Financiero Banorte	1/1/2020	7.63	Fixed Income	200,000	204,962	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Verizon Communications Inc.	8/21/2046	4.86	Fixed Income	580,000	566,876	0.033%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Corporacion Geo, S.A.B. De C.V.	12/31/2049	8.00	Fixed Income	99,158	0	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Verizon Communications Inc.	4/15/2049	5.00	Fixed Income	138,000	142,318	0.008%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of Saudi Arabia	10/26/2046	4.50	Fixed Income	125,000	112,777	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Cosant Overseas Limited	1/1/2020	8.25	Fixed Income	190,000	196,228	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Charter Communications Operating, LLC	5/1/2047	5.38	Fixed Income	2,440,000	2,105,183	0.122%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	2/20/2046	3.50	Fixed Income	1,929,868	1,840,972	0.106%
JNL.Fidelity Institutional Asset Management Total Bond Fund	South Africa, Parliament of	10/17/2046	5.00	Fixed Income	85,000	87,961	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Panama	5/15/2047	4.50	Fixed Income	100,000	77,700	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of the Sultanate of Oman	3/8/2047	6.50	Fixed Income	25,000	26,416	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	South Africa, Parliament of	9/27/2047	5.85	Fixed Income	75,000	62,484	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Republic of Indonesia, The Government of	1/1/2048	4.35	Fixed Income	90,000	85,878	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Joint Stock Company National Company Kazmunaygas	4/19/2047	5.75	Fixed Income	35,000	33,188	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Cenovus Energy Inc.	6/15/2047	5.40	Fixed Income	89,000	87,273	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of Saudi Arabia	10/4/2047	4.63	Fixed Income	110,000	100,745	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	2/15/2047	3.00	Fixed Income	1,743,000	1,434,577	0.083%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MPLX LP	4/15/2048	4.70	Fixed Income	325,000	292,278	0.017%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Anheuser-Busch InBev Worldwide Inc.	4/15/2048	4.60	Fixed Income	650,000	632,432	0.037%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Gobierno De La Republica Oriental Del Uruguay	6/18/2050	5.10	Fixed Income	150,000	151,820	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Oil And Gas Holding Company B.S.C.	1/1/2028	8.38	Fixed Income	40,000	44,386	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Mesquite Energy, Inc.	12/31/2049	7.25	Fixed Income	269,000	9,684	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos de Venezuela, S.A.	1/1/2020	6.00	Fixed Income	8,990,000	741,675	0.043%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Kirby Realty, L.P.	12/15/2028	7.5	Fixed Income	925,000	931,251	0.054%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Eastern Power, LLC	10/2/2025	5.80	Fixed Income	39,250	39,250	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	2/12/2048	6.35	Fixed Income	4,400,000	3,083,438	0.178%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica de El Salvador	6/15/2035	7.65	Fixed Income	20,000	17,801	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Pemex Project Funding Master Trust	6/15/2035	6.63	Fixed Income	410,000	341,288	0.020%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Energy Transfer LP	4/15/2029	5.25	Fixed Income	925,000	973,741	0.056%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Veracruz Administration De La Presidencia De La Republica	9/18/2025	7.38	Fixed Income	30,000	30,537	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2047	4.00	Fixed Income	2,030,777	1,983,877	0.115%
JNL.Fidelity Institutional Asset Management Total Bond Fund	DISH DBS Corporation	11/15/2044	5.88	Fixed Income	94,000	95,461	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	ESKOM Holdings	2/11/2025	7.13	Fixed Income	195,000	196,919	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Cenob Qaz Delvizi, Qsc	4/20/2029	4.58	Fixed Income	205,000	209,893	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	HCA Inc.	2/1/2029	5.88	Fixed Income	698,000	738,301	0.043%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Morgan Stanley	12/3/2030	4.43	Fixed Income	1,000,000	1,010,936	0.058%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Traverse Midstream Partners LLC	2/16/2028	8.75	Fixed Income	58,704	59,607	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Westlake Operations Company LLC	2/15/2027	5.63	Fixed Income	125,000	119,434	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Reynolds American Inc.	6/12/2025	4.45	Fixed Income	202,000	204,222	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	5/15/2049	5.20	Fixed Income	150,000	114,134	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Transocean Petroleum Limited	2/1/2027	6.88	Fixed Income	177,000	178,970	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Tullow Oil PLC	3/1/2027	7.88	Fixed Income	125,000	119,434	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	ZF North America Capital, Inc.	4/29/2025	4.75	Fixed Income	10,000	10,119	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Haliburton Company	11/15/2025	3.80	Fixed Income	5,000	5,039	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Intesa Sanpaolo SPA	1/15/2026	5.71	Fixed Income	3,028,000	3,086,421	0.178%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Visa, Inc.	9/1/2025	5.63	Fixed Income	185,000	182,592	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Ladder Capital Finance Holdings LLP	10/1/2025	5.25	Fixed Income	10,000	10,240	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Aly Financial Inc.	11/20/2025	5.75	Fixed Income	715,000	734,119	0.042%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Kohl's Corporation	7/17/2025	4.25	Fixed Income	15,000	14,950	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bausch Health Companies Inc.	10/1/2025	5.50	Fixed Income	378,250	378,250	0.024%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Western Digital Corporation	2/15/2026	4.75	Fixed Income	10,000	10,001	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bausch Health Companies Inc.	12/15/2025	9.00	Fixed Income	25,000	24,676	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/25/2025	3.01	Fixed Income	99,963	99,065	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Constellation Merger Sub Inc.	9/15/2025	8.50	Fixed Income	40,000	40,522	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Morgan Stanley	7/23/2025	6.50	Fixed Income	150,000	150,784	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MPT Operating Partnership, LP	8/1/2026	5.25	Fixed Income	202,000	193,898	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Sigma Holdco B.V.	5/15/2026	7.88	Fixed Income	250,000	255,772	0.015%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	8/4/2026	6.88	Fixed Income	75,000	75,511	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Cenob Qaz Delvizi, Qsc	3/24/2029	6.98	Fixed Income	205,000	209,893	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	3/9/2026	4.60	Fixed Income	309,000	310,666	0.018%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bausch Health Companies Inc.	4/1/2026	9.25	Fixed Income	50,000	49,358	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	10/9/2026	4.88	Fixed Income	205,000	209,266	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Onkema Finance Corporation	3/1/2026	7.13	Fixed Income	125,000	126,917	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MTN (Maunius) Investments Limited	10/13/2026	5.50	Fixed Income	70,000	73,021	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Hughes Satellite Systems Corporation	8/1/2026	6.63	Fixed Income	10,000	8,819	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Hughes Satellite Systems Corporation	8/1/2026	5.25	Fixed Income	10,000	9,396	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	CSC Holdings, LLC	4/15/2027	5.50	Fixed Income	60,000	58,510	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Chemours Company	5/15/2027	5.38	Fixed Income	155,000	154,862	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	3/25/2027	6.00	Fixed Income	35,000	35,779	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	3/13/2027	6.50	Fixed Income	345,000	339,631	0.020%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Morgan Stanley Capital I Trust 2017-H1	3/17/2027	2.68	Fixed Income	700,000	671,194	0.040%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Wynn Las Vegas, LLC	5/15/2027	5.25	Fixed Income	160,000	163,218	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	11/20/2026	4.30	Fixed Income	200,000	203,009	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Ziggo Bond Company B.V.	1/15/2027	6.00	Fixed Income	10,000	10,122	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Embraer Netherlands Finance B.V.	5/15/2027	5.40	Fixed Income	75,000	77,194	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos de Venezuela, S.A.	4/1/2027	5.38	Fixed Income	1,390,000	1,32,922	0.008%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MPT Operating Partnership, LP	10/15/2027	5.00	Fixed Income	432,000	396,513	0.023%
JNL.Fidelity Institutional Asset Management Total Bond Fund	UBS Group AG	1/9/2028	4.28	Fixed Income	2,059,000	2,064,498	0.119%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Comision Federal de los Estados Unidos Mexicanos	10/12/2110	5.00	Fixed Income	210,000	188,828	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Nuvera Energy Operating Partners, LP	9/15/2027	4.50	Fixed Income	55,000	53,846	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	CereCivic, Inc.	10/15/2027	4.75	Fixed Income	220,000	214,847	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Post Holdings, Inc.	1/15/2028	5.63	Fixed Income	17,000	17,350	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bank of America Corporation	11/25/2027	4.18	Fixed Income	3,725,000	3,769,571	0.218%
JNL.Fidelity Institutional Asset Management Total Bond Fund	C2C Holdings, LLC	2/1/2028	5.00	Fixed Income	470,000	461,223	0.027%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	2/1/2028	5.13	Fixed Income	110,000	109,589	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	South Africa, Parliament of	9/27/2027	4.85	Fixed Income	60,000	59,957	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Adcoagro S.A.	9/21/2027	6.00	Fixed Income	55,000	54,838	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Akrant Services, Inc.	2/1/2027	5.00	Fixed Income	125,000	126,917	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of Saudi Arabia	3/4/2028	3.63	Fixed Income	65,000	63,959	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	UBS Group AG	1/12/2029	3.87	Fixed Income	303,000	298,304	0.017%
JNL.Fidelity Institutional Asset Management Total Bond Fund	JPMorgan Chase & Co.	12/3/2029	3.51	Fixed Income	1,850,000	1,819,773	0.105%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Goldman Sachs Group, Inc., The	5/1/2029	4.22	Fixed Income	5,068,000	5,026,111	0.293%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Altria Group, Inc.	2/14/2026	4.40	Fixed Income	13,000	13,064	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Olin Corporation	2/1/2030	5.00	Fixed Income	306,000	301,568	0.017%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Aly Financial Inc.	11/1/2031	8.00	Fixed Income	1,114,000	1,297,912	0.075%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Joint Stock Company National Company Kazmunaygas	4/24/2030	6.00	Fixed Income	60,000	61,294	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Unicredit, Societa Per Azioni In Forma Abbreviata Unicredit S.P.A.	6/19/2032	5.86	Fixed Income	45,000	46,033	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	11/8/2033	5.13	Fixed Income	200,000	192,239	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Seagate HDD Cayman	12/1/2034	5.75	Fixed Income	170,000	174,764	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2035	5.00	Fixed Income	10,800,000	8,887,822	0.404%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2037	5.75	Fixed Income	7,800,000	4,538,015	0.252%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MPLX LP	4/15/2038	4.50	Fixed Income	675,000	637,240	0.037%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	2/20/2049	5.53	Fixed Income	83,893	82,867	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bombardier Inc.	4/15/2027	7.88	Fixed Income	98,000	91,443	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Cabinet of Ministers of Ukraine	8/1/2047	1.28	Fixed Income	75,000	63,156	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Spectrum Management Holding Company, LLC	11/15/2040	5.88	Fixed Income	425,000	395,758	0.023%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	1/14/2041	6.00	Fixed Income	180,000	160,718	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	1/18/2041	6.13	Fixed Income	10,000	8,943	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	6/22/2041	6.50	Fixed Income	40,000	39,268	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Hess Corporation	2/15/2041	5.60	Fixed Income	1,013,000	1,061,145	0.061%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Spectrum Management Holding Company, LLC	9/1/2041	5.50	Fixed Income	2,000,000	1,744,448	0.101%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	2/20/2041	4.00	Fixed Income	4,695	4,631	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Ministry of Diwan Amiri Affairs	3/14/2042	4.82	Fixed Income	275,000	271,343	0.016%
JNL.Fidelity Institutional Asset Management Total Bond Fund	AT&T Inc.	8/15/2037	4.90	Fixed Income	400,000	399,785	0.023%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Teachers Insurance And Annuity Association of America	9/15/2044	4.90	Fixed Income	640,000	613,216	0.035%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Petroleos Mexicanos	12/3/2045	6.38	Fixed Income	60,000	42,832	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Synchrony Financial	3/19/2029	5.15	Fixed Income	2,089,000	2,088,760	0.121%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica Dominicana	12/7/2045	6.85	Fixed Income	80,000	86,483	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	11/20/2044	4.00	Fixed Income	460,298	453,241	0.026%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	12/20/2045	4.00	Fixed Income	770,764	758,947	0.044%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Reynolds American Inc.	4/15/2045	5.35	Fixed Income	1,000,000	1,009,296	0.058%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	6/15/2045	5.00	Fixed Income	225,000	168,976	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	8/20/2045	4.00	Fixed Income	703,172	691,513	0.040%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	9/2/2045	3.50	Fixed Income	987,446	942,578	0.054%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Telefonos Celulares del Paraguay S.A.E.	4/15/2027	5.98	Fixed Income	130,000	132,791	0.008%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Sable International Finance Limited	9/7/2027	5.75	Fixed Income	115,000	116,070	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Tencent Holdings Limited	4/11/2029	3.98	Fixed Income	40,000	40,374	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2032	3.00	Fixed Income	223,338	218,437	0.

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management® Total Bond Fund	Ministry of Finance, Lebanon Republic of	1/1/2020	6.38	Fixed Income	217,000	16,818	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Arab Republic of Egypt	1/31/2027	7.50	Fixed Income	235,000	236,500	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Presidencia de la Republica de El Salvador	1/18/2027	6.38	Fixed Income	15,000	14,632	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Nigeria, Federal Government of	11/28/2027	6.50	Fixed Income	10,000	9,585	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Post Holdings, Inc.	12/15/2029	5.50	Fixed Income	146,000	147,327	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Regions Bank	6/26/2037	5.00	Fixed Income	500,000	547,845	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ministerio De Gobierno	12/10/2025	6.88	Fixed Income	53,068	52,688	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Urum Group	8/15/2042	5.75	Fixed Income	1,500,000	1,542,702	0.089%
JNLFidelity Institutional Asset Management® Total Bond Fund	DISH Network Corporation	8/15/2026	3.38	Fixed Income	458,000	372,662	0.022%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Republic of Indonesia, The Government of	11/7/2038	7.75	Fixed Income	160,000	207,710	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Banco Brasil SA	11/2/2020	8.75	Fixed Income	120,000	126,819	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Silver Aircraft Lease Investment Limited	7/15/2026	3.97	Fixed Income	529,629	493,301	0.029%
JNLFidelity Institutional Asset Management® Total Bond Fund	Allied Universal Holdco LLC	7/15/2027	9.75	Fixed Income	260,000	265,808	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Omiga Healthcare Investors, Inc.	4/1/2027	4.50	Fixed Income	5,000,000	5,086,690	0.294%
JNLFidelity Institutional Asset Management® Total Bond Fund	Presidencia de la Republica Dominicana	1/25/2027	5.35	Fixed Income	240,000	246,348	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hudson Pacific Properties, L.P.	4/1/2029	4.65	Fixed Income	2,500,000	2,133,872	0.123%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Oil And Gas Holding Company B.S.C.	10/25/2027	7.50	Fixed Income	110,000	118,629	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	TV Azteca S.A.B. de C.V.	8/9/2026	8.25	Fixed Income	300,000	112,590	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ministry of Finance, Lebanon Republic of	1/1/2020	5.80	Fixed Income	98,000	7,595	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gobierno de la Republica de Guatemala	8/1/2030	4.90	Fixed Income	10,000	9,913	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	1/11/2040	6.05	Fixed Income	145,000	149,217	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2047	4.00	Fixed Income	1,160,997	1,139,473	0.066%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Republic of Indonesia, The Government of	10/12/2035	8.50	Fixed Income	195,000	273,802	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Arab Republic of Egypt	3/1/2049	8.70	Fixed Income	310,000	255,273	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Republic of Indonesia, The Government of	11/5/2044	6.75	Fixed Income	70,000	86,240	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Angola, Government of	11/12/2025	9.50	Fixed Income	190,000	200,052	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2047	3.50	Fixed Income	2,094,910	2,050,910	0.118%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2047	3.50	Fixed Income	325,132	308,383	0.018%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2048	3.50	Fixed Income	350,963	333,432	0.019%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2048	3.50	Fixed Income	520,689	493,277	0.029%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gobierno de La Republica del Paraguay	3/28/2050	5.40	Fixed Income	30,000	27,879	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2048	3.50	Fixed Income	8,820	8,468	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government of Commonwealth of the Bahamas	11/21/2028	6.00	Fixed Income	70,000	67,318	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ministerio De Gobierno	6/1/2027	6.99	Fixed Income	102,040	94,851	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Vesipac Banking Corporation	7/24/2034	4.11	Fixed Income	558,000	543,288	0.031%
JNLFidelity Institutional Asset Management® Total Bond Fund	Trivest Packaging Finance B.V.	8/25/2044	5.98	Fixed Income	150,000	156,389	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Trivest Packaging Finance B.V.	8/15/2027	8.50	Fixed Income	75,000	75,959	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Benchmark 2019-B12 Mortgage Trust	8/16/2052	1.21	Fixed Income	6,665,413	253,220	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	Mong Dzung Finance Holdings B.V.	5/7/2029	5.13	Fixed Income	109,627	108,492	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/21/2034	3.51	Fixed Income	2,863,042	2,863,042	0.169%
JNLFidelity Institutional Asset Management® Total Bond Fund	Presidencia de la Republica de El Salvador	1/20/2050	7.12	Fixed Income	40,000	31,165	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government National Mortgage Association	9/20/2047	3.00	Fixed Income	231,418	213,604	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Pregis TopCo Corporation	7/25/2026	9.25	Fixed Income	71,308	71,389	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Nigeria, Federal Government of	11/21/2027	7.63	Fixed Income	125,000	128,288	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	CVS Health Corporation	8/15/2026	3.00	Fixed Income	92,000	90,217	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2047	3.50	Fixed Income	44,018	42,012	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2048	3.50	Fixed Income	56,472	53,828	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2049	3.50	Fixed Income	465,071	443,262	0.026%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2048	3.50	Fixed Income	45,448	43,348	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2048	3.50	Fixed Income	266,511	254,198	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2048	3.50	Fixed Income	110,895	105,787	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2047	3.50	Fixed Income	751,417	739,510	0.043%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2048	3.50	Fixed Income	148,369	141,375	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2049	3.50	Fixed Income	91,351	86,930	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Clear Channel Outdoor Holdings, Inc.	8/15/2027	5.13	Fixed Income	60,000	59,377	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2048	3.50	Fixed Income	12,689	12,128	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Republic of Indonesia, The Government of	1/8/2046	5.98	Fixed Income	220,000	248,788	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Republic of Indonesia, The Government of	1/15/2045	5.13	Fixed Income	85,000	91,005	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	The Republic of Indonesia, The Government of	1/17/2042	5.25	Fixed Income	45,000	47,191	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Sinclair Television Group Inc.	7/18/2026	8.01	Fixed Income	65,567	64,179	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	OCF S.A.	4/25/2044	6.88	Fixed Income	120,000	120,000	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	7/25/2026	2.28	Fixed Income	800,000	780,985	0.045%
JNLFidelity Institutional Asset Management® Total Bond Fund	Healthcare Realty Holdings, L.P.	8/1/2026	3.50	Fixed Income	201,000	198,855	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Healthcare Realty Holdings, L.P.	2/15/2030	3.10	Fixed Income	193,000	177,930	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Commonwealth Bank of Australia	9/12/2034	3.84	Fixed Income	384,000	382,242	0.023%
JNLFidelity Institutional Asset Management® Total Bond Fund	Methanex Corporation	12/15/2029	5.25	Fixed Income	85,000	85,198	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	SBA Towers, LLC	1/15/2025	2.84	Fixed Income	896,000	892,804	0.052%
JNLFidelity Institutional Asset Management® Total Bond Fund	HSB Netherlands Holdco B.V.	9/18/2027	8.00	Fixed Income	105,000	105,415	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/15/2032	4.00	Fixed Income	553,760	541,760	0.031%
JNLFidelity Institutional Asset Management® Total Bond Fund	Jamaica, The Government of	7/28/2045	7.88	Fixed Income	35,000	43,712	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alice France Holding S.A.	1/15/2028	5.50	Fixed Income	75,000	56,579	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Performance Food Group Company	10/15/2027	5.50	Fixed Income	55,000	56,214	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Omiga Healthcare Investors, Inc.	10/1/2029	6.58	Fixed Income	85,000	82,071	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Advanced Drainage Systems, Inc.	9/30/2027	5.00	Fixed Income	275,000	271,729	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Government National Mortgage Association	4/20/2048	5.00	Fixed Income	360,586	371,542	0.021%
JNLFidelity Institutional Asset Management® Total Bond Fund	Occidental Petroleum Corporation	5/1/2031	5.50	Fixed Income	1,400,000	1,634,510	0.094%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2038	4.00	Fixed Income	68,216	67,698	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2038	4.00	Fixed Income	44,858	44,517	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2038	4.00	Fixed Income	16,397	16,300	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2038	4.00	Fixed Income	42,098	41,778	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2038	4.00	Fixed Income	21,689	21,358	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2038	4.00	Fixed Income	7,496	7,439	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2038	4.00	Fixed Income	16,395	16,281	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2038	4.00	Fixed Income	21,895	21,751	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2038	4.00	Fixed Income	152,233	151,230	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2038	4.00	Fixed Income	94,729	94,729	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2039	4.00	Fixed Income	43,205	42,907	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2039	4.00	Fixed Income	224,103	222,119	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2039	4.00	Fixed Income	16,091	15,963	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/2/2039	4.00	Fixed Income	52,415	52,155	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.00	Fixed Income	50,522	50,122	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Occidental Petroleum Corporation	3/15/2046	6.60	Fixed Income	1,375,000	1,481,409	0.086%
JNLFidelity Institutional Asset Management® Total Bond Fund	Nexstar Broadcasting, Inc.	7/15/2026	7.88	Fixed Income	131,757	131,660	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Occidental Petroleum Corporation	9/15/2036	6.45	Fixed Income	1,227,000	1,227,000	0.071%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hess Corporation	4/1/2047	5.80	Fixed Income	601,000	653,443	0.038%
JNLFidelity Institutional Asset Management® Total Bond Fund	South Africa, Parliament of	9/30/2049	5.75	Fixed Income	140,000	116,222	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Abu Dhabi, Government of	9/30/2049	3.13	Fixed Income	480,000	351,097	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Connect Fincio SARL	10/1/2029	6.75	Fixed Income	80,000	93,178	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Corporacion Nacional del Cobre de Chile	9/30/2029	3.00	Fixed Income	25,000	23,142	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	South Africa, Parliament of	9/30/2029	4.85	Fixed Income	50,000	48,507	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2036	3.50	Fixed Income	1,129,550	1,104,904	0.064%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2039	3.50	Fixed Income	1,492,610	1,460,516	0.084%
JNLFidelity Institutional Asset Management® Total Bond Fund	Abu Dhabi National Energy Company PJSC	10/3/2049	4.00	Fixed Income	95,000	82,567	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2049	3.00	Fixed Income	1,798,329	1,645,633	0.095%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cellic Resources Holdings Designated Activity Company	10/9/2024	4.13	Fixed Income	100,000	0	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alliant Holdings Intermediate, LLC	10/15/2027	6.75	Fixed Income	505,000	518,976	0.030%
JNLFidelity Institutional Asset Management® Total Bond Fund	ArCap Holdings N.V.	10/10/2019	5.88	Fixed Income	338,000	347,474	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Brandywine Operating Partnership, L.P.	10/1/2029	4.55	Fixed Income	189,000	182,076	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	ASET 2019-2 Trust	10/16/2026	3.38	Fixed Income	458,886	458,886	0.027%
JNLFidelity Institutional Asset Management® Total Bond Fund	ASET 2019-2 Trust	10/16/2026	4.48	Fixed Income	220,258	113,023	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Network G Limited	1/1/2020	5.05	Fixed Income	120,000	122,858	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	AerCap Global Aviation Trust	6/15/2045	6.50	Fixed Income	55,000	55,986	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Charter Communications Operating, LLC	3/1/2050	4.80	Fixed Income	4,552,000	3,506,336	0.203%
JNLFidelity Institutional Asset Management® Total Bond Fund	CCO Holdings, LLC	3/1/2030	4.75	Fixed Income	130,000	119,948	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	OCF Buyer, Inc.	7/31/2026	9.25	Fixed Income	342,164	351,610	0.019%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ziggo B.V.	1/15/2030	4.88	Fixed Income	100,000	97,280	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Plains All American Pipeline, L.P.	12/15/2029	3.55	Fixed Income	188,000	180,718	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Kahn Enterprises L.P.	5/15/2026	6.25	Fixed Income	210,000	213,278	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	LCPR Senior Secured Financing Designated Activity Company	10/15/2027	6.75	Fixed Income	217,000	205,088	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	52,875	53,531	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	144,444	146,237	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Tanger Properties Limited Partnership	9/1/2026	3.13	Fixed Income	3,000,000	2,917,543	0.169%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2039	4.50	Fixed Income	102,532	99,804	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2048	4.00	Fixed Income	246,044	240,637	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Telecomunicaciones Digitales, S.A.	1/30/2030	4.50	Fixed Income	260,000	239,622	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Braskem Netherlands Finance B.V.	11/1/2050	5.88	Fixed Income	75,000	59,477	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Thunderbolt II Aircraft Lease Limited	11/1/2029	3.07	Fixed Income	723,613	650,013	0.038%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.00	Fixed Income	1,103,644	1,076,975	0.062%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2049	4.00	Fixed Income	1,440,500	1,400,289	0.081%
JNLFidelity Institutional Asset Management® Total Bond							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2024	4.50	Fixed Income	1,553.628	1,553.628	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	VCI Properties Inc.	1/21/2026	4.00	Fixed Income	8,040	8,040	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	VCI Properties Inc.	12/1/2029	4.63	Fixed Income	80,000	79,681	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Braskem Idesa, S.A.P.I.	11/15/2029	7.45	Fixed Income	110,000	98,275	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MCE Finance Limited	12/4/2029	5.38	Fixed Income	70,000	66,902	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2019-BPR	11/7/2024	3.84	Fixed Income	100,000	76,874	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2019-BPR	11/7/2024	3.11	Fixed Income	534,000	505,520	0.029%
JNL.Fidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2019-BPR	11/7/2024	3.47	Fixed Income	100,000	85,878	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	NCL Corporation Ltd.	12/15/2024	3.63	Fixed Income	277,000	278,708	0.016%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Clearway Energy Operating LLC	3/15/2028	4.75	Fixed Income	25,000	24,590	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	BAMLL Commercial Mortgage Securities Trust 2019-BPR	11/7/2024	3.29	Fixed Income	1,300,000	1,278,146	0.074%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MOOG Inc.	12/15/2027	4.25	Fixed Income	95,000	93,582	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of the Sultanate of Oman	11/7/2028	5.63	Fixed Income	370,000	383,086	0.022%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Morgan Stanley Capital I Trust 2019-NUGS	12/15/2036	6.16	Fixed Income	800,000	720,782	0.042%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	12/20/2049	3.00	Fixed Income	95,451	87,827	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Hess Infrastructure Partners LP	2/15/2026	5.63	Fixed Income	170,000	171,247	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Anglo, Government of	5/8/2040	9.38	Fixed Income	50,000	43,633	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bausch Health Companies Inc.	1/30/2030	5.25	Fixed Income	95,000	54,052	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Government of Barbados	10/1/2029	6.50	Fixed Income	125,000	123,760	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Lamar Funding Limited	5/7/2025	3.96	Fixed Income	145,000	145,878	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Calpine Corporation	3/15/2028	5.13	Fixed Income	55,000	54,324	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2038	4.00	Fixed Income	520,591	517,163	0.030%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Energy Transfer LP	5/15/2050	5.00	Fixed Income	830,000	855,396	0.049%
JNL.Fidelity Institutional Asset Management Total Bond Fund	JD com, Inc.	1/14/2030	3.38	Fixed Income	185,000	177,227	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Energy Transfer LP	5/15/2030	3.75	Fixed Income	327,000	316,979	0.018%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Nigeria, Federal Government of	2/16/2032	7.88	Fixed Income	105,000	95,271	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Ministry of Defence State of Israel	1/15/2050	3.38	Fixed Income	135,000	92,483	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Transocean Inc.	2/1/2027	8.00	Fixed Income	85,000	81,026	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Democratic Socialist Republic of Sri Lanka	3/28/2030	7.55	Fixed Income	50,000	30,800	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Western Midstream Operating, LP	2/1/2030	4.05	Fixed Income	4,300,000	4,166,122	0.241%
JNL.Fidelity Institutional Asset Management Total Bond Fund	PT Pertamina (Persero)	10/21/2050	4.18	Fixed Income	50,000	40,919	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Georgics Limited	11/7/2029	5.50	Fixed Income	110,000	105,584	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Prosus N.V.	1/21/2030	3.68	Fixed Income	45,000	42,744	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	4/16/2030	3.25	Fixed Income	135,000	126,004	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	JP Morgan Chase & Co.	3/1/2200	4.60	Fixed Income	205,000	205,229	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Campo Acreal Management, Inc.	2/1/2027	4.50	Fixed Income	185,000	179,146	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Aramark Services, Inc.	12/4/2026	7.11	Fixed Income	116,563	116,476	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	ESKOM Holdings	8/10/2028	6.35	Fixed Income	150,000	153,763	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	1/30/2030	3.00	Fixed Income	285,000	245,767	0.014%
JNL.Fidelity Institutional Asset Management Total Bond Fund	VCI Properties Inc.	2/15/2027	5.50	Fixed Income	4,000	3,996	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Safeway Inc.	2/15/2030	4.88	Fixed Income	225,000	222,710	0.013%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica Dominicana	1/30/2060	5.88	Fixed Income	80,000	76,005	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Navent Corporation	3/15/2027	5.00	Fixed Income	25,000	24,841	0.001%
JNL.Fidelity Institutional Asset Management Total Bond Fund	CSN Islands XII Corp	1/28/2029	6.50	Fixed Income	150,000	147,600	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Station Casinos LLC	2/15/2028	4.50	Fixed Income	200,000	194,330	0.011%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Coral-US Co-Borrower, LLC	1/22/2028	7.46	Fixed Income	210,000	207,998	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	ASET 2020-1 Trust	1/15/2027	3.35	Fixed Income	158,702	151,730	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	ASET 2020-1 Trust	1/15/2027	4.34	Fixed Income	138,939	133,473	0.008%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica Dominicana	7/19/2028	6.00	Fixed Income	75,000	77,874	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Open Text Corporation	2/15/2028	3.88	Fixed Income	105,000	100,760	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	CCO Holdings, LLC	8/15/2030	4.50	Fixed Income	60,000	54,657	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Allen CLO, Ltd.	10/1/2030	6.68	Fixed Income	155,700	153,938	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	ATI Inc.	12/1/2027	5.88	Fixed Income	241,000	245,493	0.014%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Match Group Holdings II, LLC	8/1/2030	4.13	Fixed Income	45,000	42,505	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2033	1.85	Fixed Income	466,167	434,479	0.025%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Wells Fargo Commercial Mortgage Trust 2020-C55	10/1/2029	2.65	Fixed Income	200,000	180,629	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Reynolds Consumer Products LLC	1/30/2033	7.10	Fixed Income	123,353	105,584	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Millicom International Cellular SA	1/15/2028	5.13	Fixed Income	171,000	168,267	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bristol Park CLO, Ltd.	4/16/2029	6.55	Fixed Income	120,699	122,486	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Frontier International Ltd.	1/29/2027	7.60	Fixed Income	47,723	47,601	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Frontier International Ltd.	1/29/2027	7.60	Fixed Income	104,816	104,698	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Sapphire Aviation Finance I Limited	3/15/2027	3.23	Fixed Income	514,462	471,725	0.027%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Sapphire Aviation Finance II Limited	3/15/2027	4.34	Fixed Income	184,322	142,527	0.008%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Cushman & Wakefield U.S. Borrower, LLC	8/15/2025	8.11	Fixed Income	3,557	3,555	0.000%
JNL.Fidelity Institutional Asset Management Total Bond Fund	APX Group, Inc.	2/15/2027	6.75	Fixed Income	415,000	409,718	0.024%
JNL.Fidelity Institutional Asset Management Total Bond Fund	HCA Inc.	8/1/2030	3.50	Fixed Income	513,000	484,485	0.028%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Post Holdings, Inc.	4/15/2030	4.63	Fixed Income	45,000	44,002	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica	1/20/2037	7.13	Fixed Income	115,000	128,557	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Avis Budget Car Rental, LLC	7/20/2027	5.60	Fixed Income	500,481	49,721	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	United FPI Holdings, LLC	12/30/2026	9.51	Fixed Income	570,727	528,937	0.031%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Zayo Group Holdings, Inc.	3/1/2027	4.00	Fixed Income	175,000	156,801	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Zayo Group Holdings, Inc.	2/20/2027	8.36	Fixed Income	420,494	383,533	0.022%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Sotheby's, Inc.	10/15/2027	7.38	Fixed Income	120,000	118,426	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	3/20/2047	4.00	Fixed Income	71,783	70,484	0.004%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	1/29/2031	2.67	Fixed Income	2,300,000	2,105,216	0.122%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Icahn Enterprises L.P.	5/15/2027	5.25	Fixed Income	125,000	122,608	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Sunoco LP	5/15/2028	5.88	Fixed Income	95,000	95,763	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	CVR Energy, Inc.	2/15/2028	5.75	Fixed Income	135,000	127,834	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bank 2019-BNK21	9/1/2029	2.85	Fixed Income	94,000	86,251	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Benchmark 2018-B4 Mortgage Trust	6/16/2028	4.12	Fixed Income	106,000	104,769	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Goldman Sachs Group, Inc., The	3/31/2030	3.80	Fixed Income	2,570,000	2,602,537	0.149%
JNL.Fidelity Institutional Asset Management Total Bond Fund	JP Morgan Chase & Co.	3/24/2033	3.85	Fixed Income	4,900,000	4,909,119	0.284%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Wells Fargo & Company	4/4/2051	5.01	Fixed Income	2,314,000	2,316,056	0.134%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Wells Fargo & Company	4/4/2031	4.48	Fixed Income	4,110,000	4,207,569	0.243%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	3/31/2031	4.41	Fixed Income	1,522,000	1,510,700	0.087%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Allica France	4/15/2028	6.00	Fixed Income	110,000	85,113	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	CVS Health Corporation	4/1/2027	3.62	Fixed Income	259,000	259,889	0.015%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Republic of Indonesia, The Government of	4/24/2028	4.10	Fixed Income	105,000	107,061	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Morgan Stanley	4/1/2031	3.62	Fixed Income	4,344,000	4,248,691	0.245%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Republic of Indonesia, The Government of	2/1/2033	6.63	Fixed Income	170,000	170,000	0.010%
JNL.Fidelity Institutional Asset Management Total Bond Fund	UBS Group AG	4/1/2031	4.19	Fixed Income	1,376,000	1,376,204	0.080%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Exelon Corporation	4/15/2050	4.70	Fixed Income	111,000	104,208	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2050	4.00	Fixed Income	1,800,000	1,728,633	0.100%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Anheuser-Busch InBev Worldwide Inc.	8/1/2050	5.68	Fixed Income	500,000	485,163	0.028%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Anheuser-Busch InBev Worldwide Inc.	8/1/2040	4.35	Fixed Income	500,000	480,042	0.028%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Republic of Indonesia, The Government of	10/15/2050	4.20	Fixed Income	1,515,000	1,381,508	0.080%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Ministry of Dwaan Amiri Affairs	4/16/2050	4.40	Fixed Income	285,000	270,080	0.016%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Phillips 66	4/9/2025	3.95	Fixed Income	120,000	98,173	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Abu Dhabi, Government of	4/16/2050	3.88	Fixed Income	145,000	123,993	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	PETROBRAS Capital Limited	4/21/2030	3.50	Fixed Income	50,000	48,647	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of Saudi Arabia	10/22/2030	3.25	Fixed Income	385,000	366,339	0.021%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Government of Saudi Arabia	4/22/2060	4.50	Fixed Income	300,000	259,713	0.015%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Comision De Promocion Del Para Para La Exportacion Y El Turismo	1/23/2031	2.78	Fixed Income	135,000	121,371	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Gobierno de la Republica de Guatemala	8/1/2050	6.13	Fixed Income	45,000	44,006	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Gobierno de la Republica de Guatemala	4/24/2032	5.38	Fixed Income	125,000	127,000	0.007%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Newell Brands Inc.	4/1/2036	6.88	Fixed Income	170,000	167,791	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The Philippines, Government of	5/5/2045	2.95	Fixed Income	35,000	25,224	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2050	5.81	Fixed Income	166,000	164,224	0.009%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2060	5.93	Fixed Income	560,000	550,268	0.032%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2030	5.15	Fixed Income	778,000	797,545	0.046%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2040	5.71	Fixed Income	960,000	958,993	0.012%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica de Chile	1/31/2031	2.45	Fixed Income	285,000	256,051	0.015%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Benchmark 2018-B7 Mortgage Trust	10/1/2028	4.51	Fixed Income	100,000	99,699	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Centene Corporation	12/15/2027	4.25	Fixed Income	540,000	537,443	0.031%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Centene Corporation	2/15/2030	3.38	Fixed Income	485,000	454,860	0.026%
JNL.Fidelity Institutional Asset Management Total Bond Fund	JP Morgan Chase & Co.	5/13/2031	2.96	Fixed Income	677,000	630,654	0.036%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Discovery Communications, LLC	5/15/2030	3.63	Fixed Income	539,000	491,822	0.028%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Centene Corporation	12/15/2029	4.63	Fixed Income	840,000	833,608	0.048%
JNL.Fidelity Institutional Asset Management Total Bond Fund	MEGlobal Canada LLC	5/18/2025	5.00	Fixed Income	85,000	86,504	0.005%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Arday Packaging Finance Public Limited Company	8/15/2026	4.13	Fixed Income	45,000	41,245	0.002%
JNL.Fidelity Institutional Asset Management Total Bond Fund	The AES Corporation	7/15/2030	3.95	Fixed Income	1,148,000	1,104,124	0.064%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Wells Fargo Commercial Mortgage Trust 2015-C26	1/7/2025	3.17	Fixed Income	575,000	571,802	0.033%
JNL.Fidelity Institutional Asset Management Total Bond Fund	P F Chang's China Bistro Inc.	3/1/2026	11.65	Fixed Income	100,000	100,000	0.006%
JNL.Fidelity Institutional Asset Management Total Bond Fund	NatWest Group PLC	5/22/2028	3.07	Fixed Income	712,000	694,949	0.040%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Five Corners Funding Trust II	5/15/2030	2.85	Fixed Income	1,710,000	1,596,681	0.092%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Bank 2017-BNK9	12/17/2027	3.54	Fixed Income	2,150,000	2,079,995	0.120%
JNL.Fidelity Institutional Asset Management Total Bond Fund	DVIA Inc.	6/1/2030	4.50	Fixed Income	300,000	290,151	0.017%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Tencent Holdings Limited	1/26/2026	1.81	Fixed Income	50,000	48,575	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Tencent Holdings Limited	6/3/2030	2.39	Fixed Income	65,000	59,172	0.003%
JNL.Fidelity Institutional Asset Management Total Bond Fund	Virgin Media Finance PLC	7/15/2030	5.00	Fixed Income	165,000	146,742	0.008%
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Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Air Lease Corporation	7/1/2025	3.38	Fixed Income	961,000	957,965	0.055%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	United IP Holdings, LLC	12/30/2024	14.00	Fixed Income	29,875	28,875	0.02%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	PG&E Corporation	7/1/2028	5.00	Fixed Income	70,000	70,305	0.04%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	PG&E Corporation	7/1/2030	5.25	Fixed Income	225,000	226,622	0.03%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Edorado Resorts, Inc.	7/1/2027	8.13	Fixed Income	200,000	208,292	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2050	3.00	Fixed Income	463,948	473,828	0.04%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	MDGH - GMTN B.V.	11/7/2029	2.88	Fixed Income	200,000	189,765	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Unicredit, Societa Per Azioni In Forma Abbreviata Unicredit S.P.A.	6/30/2035	5.46	Fixed Income	157,000	156,791	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2050	2.50	Fixed Income	619,321	543,325	0.031%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	VTR Comunicaciones SpA	11/15/2028	5.13	Fixed Income	157,000	145,495	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	VSC Finance N.V.	7/15/2028	6.38	Fixed Income	120,000	110,296	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2018-WPT	7/8/2033	4.25	Fixed Income	339,000	310,128	0.018%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	TK Elevator U.S. Newco, Inc.	7/15/2027	5.25	Fixed Income	330,000	330,267	0.01%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	The Hashemite Kingdom of Jordan, The Government of	7/1/2025	4.95	Fixed Income	200,000	199,392	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2050	3.00	Fixed Income	1,664,702	1,520,751	0.088%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Avantor, Inc.	7/15/2028	4.63	Fixed Income	160,000	158,008	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Ministerul Finantelor Publice	2/14/2031	3.00	Fixed Income	215,000	187,920	0.011%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Ministerul Finantelor Publice	2/14/2051	4.00	Fixed Income	85,000	82,386	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	SBA Towers, LLC	1/15/2026	1.88	Fixed Income	365,000	352,050	0.020%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Ares Capital Corporation	1/15/2026	3.88	Fixed Income	1,926,000	1,913,469	0.111%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	SBA Towers, LLC	1/15/2028	2.33	Fixed Income	279,000	258,025	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Taylor Morrison Communities, Inc.	8/1/2030	5.13	Fixed Income	43,000	43,160	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Colombia Telecomunicaciones S.A. E.S.P.	7/1/2030	4.95	Fixed Income	45,000	39,812	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2035	2.00	Fixed Income	326,259	300,596	0.017%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2049	3.30	Fixed Income	178,801	169,646	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Cleco Corporate Holdings LLC	9/15/2029	3.58	Fixed Income	1,499,000	1,381,041	0.080%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2035	1.50	Fixed Income	97,199	87,199	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	MCE Finance Limited	7/21/2028	5.75	Fixed Income	110,000	107,684	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Mesquite Energy, Inc.	7/1/2022	2.00	Equity	3,883	326,133	0.019%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2035	2.50	Fixed Income	2,108,046	1,991,828	0.115%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Bermuda, Government of	1/25/2027	3.72	Fixed Income	215,000	212,079	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Calpine Corporation	2/1/2030	6.00	Fixed Income	80,000	58,407	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Graham Packaging Company Europe LLC	8/15/2028	7.13	Fixed Income	10,000	9,992	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	CSMC 2020-NET	8/15/2025	2.26	Fixed Income	162,270	156,609	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	C&W Senior Financing Designated Activity Company	9/15/2027	6.88	Fixed Income	584,000	587,798	0.034%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	CSC Holdings, LLC	2/15/2033	3.25	Fixed Income	280,000	269,521	0.014%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Emergent BioSolutions, Inc.	8/15/2028	3.88	Fixed Income	360,000	276,380	0.016%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	10/15/2054	2.50	Fixed Income	1,950,000	1,717,630	0.099%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Harvest Midstream L.L.P.	9/1/2028	7.50	Fixed Income	195,000	200,668	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gabon, Government of	2/6/2031	6.63	Fixed Income	108,000	81,909	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Level 3 Financing, Inc.	1/15/2029	3.63	Fixed Income	15,000	10,642	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Windstream Escrow, LLC	8/15/2028	7.75	Fixed Income	175,000	176,810	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Salway Inc.	3/15/2029	3.50	Fixed Income	65,000	60,669	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Stanford Property Trust, Inc.	3/15/2023	4.75	Fixed Income	20,000	19,038	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Veritas USA Inc.	9/1/2025	7.50	Fixed Income	70,000	66,101	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	11/15/2054	2.00	Fixed Income	22,100,000	18,299,836	1.057%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gainwell Acquisition Corp.	12/31/2049	3.98	Fixed Income	265,000	251,639	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Bermuda, Government of	8/20/2050	60.00	Fixed Income	60,000	44,500	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	On Semiconductor Corporation	9/1/2028	3.88	Fixed Income	110,000	105,241	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	New Fortress Energy Inc.	9/15/2025	6.75	Fixed Income	285,000	273,159	0.016%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Pike Corporation	9/1/2028	5.50	Fixed Income	270,000	265,540	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2050	3.00	Fixed Income	67,571	564,054	0.032%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of Saudi Arabia	12/1/2055	3.75	Fixed Income	100,000	74,146	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	10/15/2054	2.00	Fixed Income	11,000,000	9,323,950	0.539%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2039	2.00	Fixed Income	450,000	411,768	0.024%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gobierno de la Republica del Ecuador	7/31/2030	6.90	Fixed Income	260,000	180,873	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2048	6.35	Fixed Income	32,500	25,178	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Spirit Airlines, Inc.	9/20/2025	8.00	Fixed Income	85,000	47,962	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	The Democratic Socialist Republic of Sri Lanka	3/14/2029	7.85	Fixed Income	130,000	72,800	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	AA Group Limited	9/16/2040	3.20	Fixed Income	538,000	423,332	0.024%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	CPI Defense Properties	2/15/2022	5.00	Fixed Income	250,000	248,521	0.014%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Retail Properties of America, Inc.	9/15/2030	4.75	Fixed Income	58,000	58,195	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Suzano Austria GmbH	1/15/2031	3.75	Fixed Income	60,000	55,827	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia De La Nacion	7/8/2029	1.00	Fixed Income	153,005	99,803	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia De La Nacion	7/8/2030	0.75	Fixed Income	138,983	788,394	0.046%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Angola, Government of	5/9/2028	8.25	Fixed Income	125,000	121,637	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia De La Nacion	7/9/2041	3.50	Fixed Income	245,000	113,126	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Ryan Specialty Group, LLC	7/23/2027	8.00	Fixed Income	153,302	153,000	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gobierno de la Republica del Ecuador	7/31/2035	5.50	Fixed Income	95,000	86,190	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Altice France Holding S.A.	1/15/2029	5.13	Fixed Income	255,000	179,405	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Cablevision Lighthouse LLC	9/15/2028	5.63	Fixed Income	10,000	9,411	0.001%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Gobierno de la Republica de Costa Rica	4/30/2043	5.63	Fixed Income	85,000	81,699	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia De La Nacion	7/8/2035	4.13	Fixed Income	841,500	474,965	0.028%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Corporacion Nacional del Cobre de Chile	1/30/2050	3.70	Fixed Income	140,000	105,121	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	SKiWiles IP Ltd.	10/20/2025	4.50	Fixed Income	8,194	8,232	0.000%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	PT. Indonesia Asahan Aluminium	5/15/2030	5.45	Fixed Income	130,000	135,066	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Restaurant Brands International Limited Partnership	10/1/2030	4.00	Fixed Income	60,000	47,023	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Bath & Body Works, Inc.	10/1/2030	6.63	Fixed Income	170,000	178,840	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia De La Nacion	1/9/2038	5.00	Fixed Income	484,275	257,955	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Methanex Corporation	10/15/2027	5.13	Fixed Income	210,000	212,701	0.012%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Deutsche Light Holdings, Inc.	10/1/2030	2.53	Fixed Income	208,000	186,871	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	10/15/2055	2.50	Fixed Income	6,200,000	5,466,121	0.316%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	215,000	219,089	0.013%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	DP World Crescent Limited	1/30/2030	3.75	Fixed Income	175,000	169,437	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of the Republic of Panama	7/23/2060	3.87	Fixed Income	225,000	143,406	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government of the Republic of Panama	2/26/2032	2.25	Fixed Income	220,000	170,145	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Leviathan Bond Ltd	6/30/2025	6.13	Fixed Income	95,000	94,697	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2049	3.00	Fixed Income	845,504	774,769	0.045%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2050	3.00	Fixed Income	1,551,413	1,420,652	0.082%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Canvaca Co.	10/1/2025	5.63	Fixed Income	180,000	188,323	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Canvaca Co.	10/1/2028	5.88	Fixed Income	110,000	102,048	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidence de la Republique de Cote d'Ivoire	3/3/2028	6.38	Fixed Income	150,000	150,552	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	4/16/2043	4.88	Fixed Income	175,000	135,603	0.008%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Oleoducto Central S.A.	7/14/2027	9.00	Fixed Income	95,000	85,104	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Transloip Finance (Luxembourg) S.a.r.l.	2/28/2025	13.59	Fixed Income	109,846	98,476	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Fresnillo PLC	10/2/2050	4.25	Fixed Income	200,000	157,127	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Abu Dhabi National Energy Company PJSC	4/23/2030	4.88	Fixed Income	40,000	42,149	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2040	2.10	Fixed Income	1,514,917	1,329,136	0.077%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	11/15/2039	2.00	Fixed Income	850,000	779,111	0.045%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Government National Mortgage Association	10/15/2054	2.00	Fixed Income	9,850,000	8,359,177	0.483%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Frontier Communications Parent, Inc.	10/15/2027	5.88	Fixed Income	85,000	87,647	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Frontier Communications Company S.A.R.L.	8/15/2030	8.25	Fixed Income	140,000	122,388	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	SKiWiles IP Ltd.	9/16/2027	9.03	Fixed Income	97,660	101,133	0.006%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	AMN Healthcare, Inc.	4/15/2029	4.00	Fixed Income	65,000	62,000	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Omega Healthcare Investors, Inc.	2/1/2031	3.38	Fixed Income	1,626,000	1,489,390	0.086%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Corporacion Nacional del Cobre de Chile	10/1/2030	3.15	Fixed Income	60,000	55,692	0.003%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Antipagosa PLC	10/14/2035	2.38	Fixed Income	200,000	176,306	0.010%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	5/15/2051	4.13	Fixed Income	50,000	32,342	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	WH Borrower, LLC	2/15/2027	10.79	Fixed Income	119,362	122,048	0.007%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Presidencia de la Republica Dominicana	7/23/2031	7.05	Fixed Income	300,000	327,766	0.019%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2052	6.00	Fixed Income	1,195,136	1,139,108	0.066%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Tenet Healthcare Corporation	2/1/2027	6.25	Fixed Income	160,000	161,943	0.009%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	GTT Communications, Inc.	12/30/2027	6.00	Fixed Income	45,802	43,138	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	GTT Communications, Inc.	6/30/2028	14.43	Fixed Income	38,538	28,148	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	AT&T Intellectual Property	2/1/2025	2.01	Equity	2,071	30,160	0.002%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2052	3.50	Fixed Income	86,314	81,308	0.005%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2052	3.50	Fixed Income	81,618	76,884	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2037	2.50	Fixed Income	70,540	688,533	0.039%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2052	3.50	Fixed Income	71,148	72,673	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Uniti Group Inc.	2/15/2028	10.50	Fixed Income	247,000	264,807	0.015%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.50	Fixed Income	88,988	77,150	0.004%
JNLFidelity Institutional Asset Management [®] Total Bond Fund	Sal						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Teva Pharmaceutical Finance Netherlands III B.V.	9/15/2029	7.88	Fixed Income	200,000	221,496	0.131%
JNLFidelity Institutional Asset Management Total Bond Fund	Merocco, Kingdom of	9/8/2023	6.50	Fixed Income	200,000	217,578	0.129%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.50	Fixed Income	45,047	46,120	0.030%
JNLFidelity Institutional Asset Management Total Bond Fund	Sedwick Claims Management Services, Inc.	2/16/2028	8.25	Fixed Income	139,062	140,529	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	2/17/2045	6.63	Fixed Income	30,000	27,506	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2035	1.50	Fixed Income	484,067	435,163	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2035	2.00	Fixed Income	2,870,690	2,650,273	0.153%
JNLFidelity Institutional Asset Management Total Bond Fund	CEMEX S.A.B. de C.V.	1/1/2200	9.13	Fixed Income	200,000	223,316	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	The Arab Republic of Egypt	2/21/2048	7.90	Fixed Income	15,000	11,682	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Rand Parent, LLC	2/9/2030	9.07	Fixed Income	124,064	124,162	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	NEOS Quattro Holdings UK Ltd	3/1/2030	9.10	Fixed Income	64,188	64,083	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Panama	3/28/2054	6.85	Fixed Income	50,000	50,778	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Eagle Parent Corp.	3/17/2029	9.58	Fixed Income	14,441	13,665	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Topgolf Callaway Brands Corp.	3/14/2030	8.25	Fixed Income	221,166	217,760	0.131%
JNLFidelity Institutional Asset Management Total Bond Fund	Urzeit Realty Ministrow	4/4/2053	5.50	Fixed Income	45,000	47,318	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	3/14/2029	9.38	Fixed Income	200,000	227,631	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	3/31/2030	3.63	Fixed Income	294,000	294,213	0.171%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2035	3.00	Fixed Income	967,805	935,292	0.544%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank5 2023-5YTR1	3/15/2028	6.26	Fixed Income	300,000	316,119	0.181%
JNLFidelity Institutional Asset Management Total Bond Fund	Enlink Midstream, LLC	9/1/2030	6.50	Fixed Income	95,000	102,984	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Level 3 Financing, Inc.	5/15/2030	10.50	Fixed Income	405,000	454,986	0.262%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	1/25/2025	3.02	Fixed Income	516,740	514,118	0.303%
JNLFidelity Institutional Asset Management Total Bond Fund	Discover Card Execution Note Trust	3/16/2026	4.31	Fixed Income	600,000	602,088	0.355%
JNLFidelity Institutional Asset Management Total Bond Fund	ZF North America Capital, Inc.	4/14/2028	6.88	Fixed Income	100,000	104,238	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Cloud Software Group, Inc.	9/30/2029	9.00	Fixed Income	448,000	456,070	0.262%
JNLFidelity Institutional Asset Management Total Bond Fund	Valaris Limited	4/30/2030	8.38	Fixed Income	165,000	175,794	0.101%
JNLFidelity Institutional Asset Management Total Bond Fund	World Omni Auto Receivables Trust 2023-B	9/15/2026	4.66	Fixed Income	665,000	665,466	0.384%
JNLFidelity Institutional Asset Management Total Bond Fund	Macquarie Airfinance Holdings Limited	5/1/2028	8.38	Fixed Income	65,000	70,641	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	CFMT 2023-HB12, LLC	7/25/2026	4.25	Fixed Income	255,309	251,870	0.151%
JNLFidelity Institutional Asset Management Total Bond Fund	Toyota Lease Owner Trust 2023-A	4/20/2026	4.93	Fixed Income	625,000	626,320	0.363%
JNLFidelity Institutional Asset Management Total Bond Fund	NWLT Loan Trust 2022-CP1	9/25/2027	2.04	Fixed Income	138,286	129,287	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	WIS-BSSE S.A.	8/23/2035	7.08	Fixed Income	110,000	116,386	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Abu Dhabi National Energy Company PJSC	4/24/2023	4.70	Fixed Income	200,000	207,281	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Clarios Global LP	5/15/2028	6.75	Fixed Income	100,000	105,634	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	MH Sub 1 LLC	12/31/2049	6.00	Fixed Income	65,000	64,544	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	1/24/2021	6.13	Fixed Income	200,000	207,729	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2042	2.50	Fixed Income	307,131	276,834	0.161%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2041	2.50	Fixed Income	152,380	137,729	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.50	Fixed Income	205,851	185,544	0.111%
JNLFidelity Institutional Asset Management Total Bond Fund	Magnetix XXVI Ltd	4/22/2036	7.08	Fixed Income	607,000	618,318	0.359%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2042	2.50	Fixed Income	350,435	317,290	0.181%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2041	2.50	Fixed Income	54,764	49,516	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.50	Fixed Income	41,528	37,548	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	4/23/2021	2.50	Fixed Income	38,000	34,928	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2042	2.50	Fixed Income	35,578	32,168	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Warnermedia Holdings, Inc.	3/15/2025	5.14	Fixed Income	5,766,000	4,458,016	0.258%
JNLFidelity Institutional Asset Management Total Bond Fund	Warnermedia Holdings, Inc.	3/15/2027	3.76	Fixed Income	579,000	560,793	0.323%
JNLFidelity Institutional Asset Management Total Bond Fund	Warnermedia Holdings, Inc.	3/15/2029	4.05	Fixed Income	174,000	185,148	0.101%
JNLFidelity Institutional Asset Management Total Bond Fund	Warnermedia Holdings, Inc.	3/15/2032	4.28	Fixed Income	1,014,000	904,974	0.521%
JNLFidelity Institutional Asset Management Total Bond Fund	Warnermedia Holdings, Inc.	3/15/2042	5.05	Fixed Income	474,000	387,955	0.222%
JNLFidelity Institutional Asset Management Total Bond Fund	OpTic Security, Inc.	9/1/2026	10.53	Fixed Income	138,975	127,859	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Widatall Group Holding SA	9/1/2028	9.50	Fixed Income	45,000	45,262	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Spirit Airlines, Inc.	9/20/2025	8.00	Fixed Income	25,000	14,121	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Barclays PLC	5/9/2027	5.83	Fixed Income	1,980,000	2,062,549	0.119%
JNLFidelity Institutional Asset Management Total Bond Fund	Barclays PLC	5/9/2034	6.22	Fixed Income	1,083,000	1,194,440	0.669%
JNLFidelity Institutional Asset Management Total Bond Fund	Sandoz Pipeline	9/21/2051	3.13	Fixed Income	75,000	69,993	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Benchmark 2019-B10 Mortgage Trust	11/17/2030	3.82	Fixed Income	181,261	176,883	0.101%
JNLFidelity Institutional Asset Management Total Bond Fund	Emerald Debt Merger Sub LLC	12/15/2030	6.63	Fixed Income	290,000	304,665	0.181%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2047	2.50	Fixed Income	335,431	307,201	0.181%
JNLFidelity Institutional Asset Management Total Bond Fund	Bell Corporation	6/15/2029	6.00	Fixed Income	150,000	157,462	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Northern Oil and Gas Incorporated	5/15/2023	5.00	Fixed Income	200,000	154,880	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Pord Credit Floorplan Master Owner Trust A	5/15/2026	4.92	Fixed Income	1,000,000	1,013,160	0.591%
JNLFidelity Institutional Asset Management Total Bond Fund	GM Financial Automobile Leasing Trust 2023-2	10/20/2025	5.44	Fixed Income	55,779	55,906	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/25/2047	2.00	Fixed Income	1,620,305	1,460,289	0.849%
JNLFidelity Institutional Asset Management Total Bond Fund	Benchmark 2019-B9 Mortgage Trust	9/1/2030	3.41	Fixed Income	341,915	338,142	0.191%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2040	2.50	Fixed Income	43,886	40,092	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.50	Fixed Income	91,297	82,661	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2041	2.50	Fixed Income	131,428	118,997	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	MDGH GMTN (RSC) Ltd.	5/22/2023	5.08	Fixed Income	203,000	203,029	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	MH Sub 1, LLC	4/13/2028	9.50	Fixed Income	644,938	640,573	0.371%
JNLFidelity Institutional Asset Management Total Bond Fund	MDGH GMTN (RSC) Ltd.	11/22/2033	4.38	Fixed Income	200,000	200,266	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Owens-Brockway Glass Container Inc.	5/15/2031	7.25	Fixed Income	20,000	21,073	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank 2018-BK10	1/18/2023	3.69	Fixed Income	1,200,000	1,190,880	0.681%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank Gospodarstwo Krajowe	5/22/2033	5.38	Fixed Income	200,000	208,483	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2051	1.50	Fixed Income	589,042	466,740	0.272%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2051	1.50	Fixed Income	730,146	578,547	0.331%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	1.50	Fixed Income	784,877	682,258	0.381%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2051	1.50	Fixed Income	723,560	573,329	0.331%
JNLFidelity Institutional Asset Management Total Bond Fund	Ginnie Mae II	3/20/2053	4.50	Fixed Income	1,321,087	1,310,286	0.761%
JNLFidelity Institutional Asset Management Total Bond Fund	Ginnie Mae II	4/20/2053	4.50	Fixed Income	1,628,857	1,613,904	0.105%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2036	2.50	Fixed Income	396,736	375,856	0.211%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/15/2039	1.00	Fixed Income	295,111	281,921	0.161%
JNLFidelity Institutional Asset Management Total Bond Fund	World Omni Automobile Lease Securitization Trust 2023-A	2/18/2025	5.47	Fixed Income	152,287	152,741	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Capital One Multi-Asset Execution Trust	5/15/2026	4.42	Fixed Income	700,000	704,845	0.401%
JNLFidelity Institutional Asset Management Total Bond Fund	XPO, Inc.	6/1/2028	6.25	Fixed Income	50,000	52,202	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	XPO, Inc.	5/15/2039	6.50	Fixed Income	380,000	373,800	0.211%
JNLFidelity Institutional Asset Management Total Bond Fund	Blackstone Private Credit Fund	9/29/2025	7.05	Fixed Income	1,229,000	1,252,731	0.721%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/25/2048	4.50	Fixed Income	334,211	333,186	0.191%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/25/2048	4.00	Fixed Income	107,594	105,862	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	GS Mortgage Securities Trust 2019-659	2/1/2051	2.00	Fixed Income	2,000,000	1,986,255	0.111%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/25/2042	3.06	Fixed Income	2,199,144	2,191,837	0.127%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2050	3.00	Fixed Income	1,425,857	1,293,760	0.751%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2050	3.00	Fixed Income	2,360,498	2,141,811	0.124%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2051	3.00	Fixed Income	1,292,794	1,173,024	0.681%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2050	3.00	Fixed Income	254,804	231,197	0.131%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2050	3.00	Fixed Income	169,982	154,234	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Honda Auto Receivables 2023-2 Owner Trust	9/15/2026	4.93	Fixed Income	557,000	562,927	0.331%
JNLFidelity Institutional Asset Management Total Bond Fund	CF CRE 2017-C9 Mortgage Trust	3/1/2027	3.30	Fixed Income	998,371	971,929	0.561%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank 2017-BK15	6/17/2027	3.39	Fixed Income	800,000	778,938	0.441%
JNLFidelity Institutional Asset Management Total Bond Fund	Morgan Stanley & Co. LLC	1/18/2029	3.81	Fixed Income	489,641	471,939	0.251%
JNLFidelity Institutional Asset Management Total Bond Fund	Cornbridge Financial, Inc.	4/5/2025	4.40	Fixed Income	330,000	289,465	0.171%
JNLFidelity Institutional Asset Management Total Bond Fund	GC&M Finance Ltd	5/15/2026	7.75	Fixed Income	240,000	251,233	0.141%
JNLFidelity Institutional Asset Management Total Bond Fund	Cornbridge Financial, Inc.	4/5/2027	3.65	Fixed Income	420,000	420,807	0.241%
JNLFidelity Institutional Asset Management Total Bond Fund	Diamond Escrow Issuer, LLC	11/15/2028	9.75	Fixed Income	207,000	231,149	0.131%
JNLFidelity Institutional Asset Management Total Bond Fund	Cornbridge Financial, Inc.	4/5/2032	3.90	Fixed Income	1,490,000	1,426,096	0.821%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2040	2.00	Fixed Income	89,665	78,695	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.00	Fixed Income	410,369	374,524	0.211%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2048	3.00	Fixed Income	299,795	280,444	0.161%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.00	Fixed Income	436,502	381,328	0.221%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.00	Fixed Income	281,689	246,523	0.141%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2044	3.00	Fixed Income	2,616,557	2,522,084	0.146%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2047	2.50	Fixed Income	221,658	202,985	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2041	2.00	Fixed Income	1,039,121	910,047	0.531%
JNLFidelity Institutional Asset Management Total Bond Fund	Cornbridge Financial, Inc.	4/4/2025	3.50	Fixed Income	294,000	296,896	0.171%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2047	2.50	Fixed Income	188,250	154,248	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2048	3.00	Fixed Income	426,728	399,218	0.231%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2047	2.50	Fixed Income	180,490	165,578	0.101%
JNLFidelity Institutional Asset Management Total Bond Fund	Cornbridge Financial, Inc.	4/5/2042	4.35	Fixed Income	111,000	100,738	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.00	Fixed Income	360,956	306,594	0.181%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	5/31/2030	3.75	Fixed Income	166,000	169,207	0.101%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/25/2047	4.00	Fixed Income	2,004,585	1,961,710	0.111%
JNLFidelity Institutional Asset Management Total Bond Fund	CVS Health Corporation	1/30/2029	5.00	Fixed Income	529,000	544,616	0.311%
JNLFidelity Institutional Asset Management Total Bond Fund	CVS Health Corporation	1/30/2031	5.25	Fixed Income	217,000	215,929	0.121%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.50	Fixed Income	482,745	3,557,512	0.206%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	546,951	560,330	0.321%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	509,732	522,201	0.301%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	362,135	339,133	0.191%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	583,592	608,461	0.351%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	417,205	434,072	0.251%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/25/2048	2.00	Fixed Income	705,332	638,675	0.037%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/25/2048	2.50	Fixed Income	471,263	429,863	0.056%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/25/2047	2.50	Fixed Income	697,906	642,020	0.037%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/25/2052	2.50	Fixed Income	605,726	576,608	0.033%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2044	4.50	Fixed Income	451,803	451,925	0.026%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2048	5.00	Fixed Income	163,094	165,512	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Calumet Specialty Products Partners, L.P.	7/15/2025	9.75	Fixed Income	50,000	50,178	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	UBS Group AG	4/17/2026	4.55	Fixed Income	699,000	716,034	0.041%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/25/2048	2.00	Fixed Income	165,087	138,886	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/25/2044	2.00	Fixed Income	135,740	127,562	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/25/2047	2.00	Fixed Income	695,967	616,685	0.036%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/25/2048	2.00	Fixed Income	186,341	157,542	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2047	2.00	Fixed Income	145,546	130,566	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/25/2048	2.50	Fixed Income	157,465	141,468	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2047	2.50	Fixed Income	181,732	166,582	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/25/2048	2.00	Fixed Income	175,344	148,245	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2049	2.50	Fixed Income	183,587	165,372	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/25/2049	2.00	Fixed Income	295,480	241,995	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2048	2.50	Fixed Income	1197,040	1,076,887	0.062%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2050	2.50	Fixed Income	213,259	189,831	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/25/2050	2.50	Fixed Income	251,712	225,901	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2050	2.50	Fixed Income	911,851	817,165	0.047%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2053	6.00	Fixed Income	301,702	313,999	0.018%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2053	6.00	Fixed Income	340,093	354,586	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Neptune Bidco US Inc.	12/31/2049	3.00	Fixed Income	220,000	205,260	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ocwen Loan Investment Trust 2023-HB1	6/25/2026	9.98	Fixed Income	84,257	82,457	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Graftech Global Enterprises Inc.	12/15/2028	9.98	Fixed Income	60,000	49,988	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Anshrom Holdings 3 Oy	2/4/2028	4.88	Fixed Income	65,000	63,007	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Windsor Holdings III, LLC	6/15/2030	8.50	Fixed Income	91,000	99,671	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Lamb Weston Holdings, Inc.	1/31/2032	4.38	Fixed Income	65,000	60,752	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2036	1.50	Fixed Income	133,363	119,561	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2036	1.50	Fixed Income	684,659	614,454	0.036%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2052	5.00	Fixed Income	219,918	222,863	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2052	5.00	Fixed Income	284,598	288,222	0.017%
JNLFidelity Institutional Asset Management® Total Bond Fund	Turkiye Cumhuriyet Bankasinaik	7/1/2030	9.13	Fixed Income	90,000	104,385	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Global AG Limited	10/1/2025	7.50	Fixed Income	215,000	223,913	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Viking Cruises Limited	7/15/2031	9.13	Fixed Income	95,000	105,654	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Presidencia de la Republica de Chile	1/5/2054	5.33	Fixed Income	200,000	205,519	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Treasury, United States Department of	6/30/2028	4.00	Fixed Income	1,120,000	1,148,122	0.066%
JNLFidelity Institutional Asset Management® Total Bond Fund	Neptune Bidco US Inc.	10/1/2025	10.15	Fixed Income	153,063	146,347	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2045	2.00	Fixed Income	445,956	414,384	0.024%
JNLFidelity Institutional Asset Management® Total Bond Fund	Bank 2018-BNK14	8/17/2028	4.23	Fixed Income	700,000	697,199	0.040%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cedar Funding XVII CLO, Ltd.	7/21/2036	7.13	Fixed Income	877,000	893,519	0.052%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.00	Fixed Income	322,824	282,104	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2041	2.00	Fixed Income	1,026,474	895,763	0.052%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2041	2.00	Fixed Income	494,024	431,733	0.025%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2041	2.00	Fixed Income	61,425	53,680	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.00	Fixed Income	978,742	854,109	0.049%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2041	2.00	Fixed Income	389,483	339,887	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Howard Midstream Energy Partners, LLC	7/15/2028	8.88	Fixed Income	190,000	205,174	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2031	3.00	Fixed Income	154,955	152,101	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/15/2030	3.00	Fixed Income	44,310	43,310	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2033	3.00	Fixed Income	43,167	42,295	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2034	3.00	Fixed Income	86,928	85,156	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2034	3.00	Fixed Income	175,998	172,544	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2035	3.00	Fixed Income	58,065	58,655	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2035	3.00	Fixed Income	385,501	367,545	0.021%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2037	2.25	Fixed Income	399,260	377,134	0.022%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2049	2.50	Fixed Income	314,988	282,690	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	5/25/2049	2.50	Fixed Income	627,600	562,048	0.032%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2051	5.50	Fixed Income	896,888	893,183	0.051%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2051	2.50	Fixed Income	1,944,452	1,700,988	0.098%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2051	2.50	Fixed Income	1,497,473	1,309,975	0.076%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2051	2.50	Fixed Income	1,455,795	1,273,516	0.074%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.50	Fixed Income	687,221	587,391	0.034%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2053	5.50	Fixed Income	338,512	347,850	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2052	5.50	Fixed Income	818,798	839,595	0.049%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2053	5.50	Fixed Income	459,268	471,794	0.027%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	5.00	Fixed Income	421,012	421,624	0.024%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2053	5.00	Fixed Income	384,512	395,068	0.023%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	5.50	Fixed Income	556,283	569,717	0.033%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	5.00	Fixed Income	24,368	25,045	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2052	5.00	Fixed Income	783,039	821,561	0.047%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	5.00	Fixed Income	41,912	43,088	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.00	Fixed Income	283,607	291,482	0.017%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2053	6.00	Fixed Income	357,386	373,510	0.022%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.00	Fixed Income	209,864	175,154	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2051	2.00	Fixed Income	387,117	323,789	0.019%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	428,128	358,091	0.021%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2052	5.00	Fixed Income	1,592,116	1,602,489	0.093%
JNLFidelity Institutional Asset Management® Total Bond Fund	Western Alliance Bancorporation	6/15/2031	3.00	Fixed Income	220,000	204,456	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Carmelco Port Holdings, L.P.	9/30/2027	9.00	Equity	97	97	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2040	2.50	Fixed Income	60,290	55,077	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2040	2.50	Fixed Income	343,475	312,383	0.018%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.50	Fixed Income	416,689	376,625	0.022%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2041	2.50	Fixed Income	396,117	358,119	0.021%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2041	2.50	Fixed Income	669,449	605,084	0.035%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2041	2.50	Fixed Income	110,758	100,282	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Seadrill Finance Limited	6/1/2030	8.38	Fixed Income	45,000	47,678	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Azul Secured Finance I LP	5/28/2023	5.00	Fixed Income	687,611	680,215	0.040%
JNLFidelity Institutional Asset Management® Total Bond Fund	Marlette Funding Trust 2023-3	3/17/2025	6.49	Fixed Income	80,205	80,497	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	JPMorgan Chase & Co.	7/24/2029	5.30	Fixed Income	1,500,000	1,566,606	0.091%
JNLFidelity Institutional Asset Management® Total Bond Fund	Beacon Roofing Supply, Inc.	8/1/2030	6.50	Fixed Income	95,000	99,430	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wells Fargo & Company	1/25/2029	5.57	Fixed Income	1,500,000	1,576,710	0.091%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	354,843	364,521	0.021%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	362,041	372,820	0.022%
JNLFidelity Institutional Asset Management® Total Bond Fund	Lindblad Expeditions, LLC	2/15/2027	6.75	Fixed Income	25,000	25,369	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Morgan Stanley	7/20/2023	5.45	Fixed Income	788,000	837,661	0.047%
JNLFidelity Institutional Asset Management® Total Bond Fund	LCM Investments Holdings II, LLC	8/1/2031	8.25	Fixed Income	45,000	48,394	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Tesla Auto Lease Trust 2023-A	8/20/2025	5.89	Fixed Income	606,000	610,500	0.035%
JNLFidelity Institutional Asset Management® Total Bond Fund	Oscar AcquisitionCo, LLC	4/15/2030	9.50	Fixed Income	115,000	117,210	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	4/15/2051	2.50	Fixed Income	284,815	249,157	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.50	Fixed Income	273,836	239,549	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ontario Gaming GTA Limited Partnership	8/1/2030	8.00	Fixed Income	4,000	4,213	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/25/2044	2.00	Fixed Income	353,962	332,804	0.019%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/25/2045	2.00	Fixed Income	373,059	349,748	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/25/2045	3.00	Fixed Income	216,303	202,369	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/25/2049	3.00	Fixed Income	134,887	125,785	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ontario Gaming GTA LP	7/11/2030	9.58	Fixed Income	128,975	128,897	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Univision Communications Inc.	8/15/2028	8.00	Fixed Income	79,000	81,602	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	DLAA 2023-1 LLC	7/20/2026	5.93	Fixed Income	204,617	206,073	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	DLAA 2023-1 LLC	2/22/2028	5.64	Fixed Income	258,000	264,240	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	Brand Industrial Services, Inc.	8/1/2030	10.38	Fixed Income	260,000	282,742	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/25/2046	3.00	Fixed Income	139,882	133,463	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/25/2049	3.00	Fixed Income	221,530	208,652	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	EnLink Midstream Partners, LP	1/1/2200	9.31	Fixed Income	145,000	145,795	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/25/2042	3.00	Fixed Income	238,824	225,880	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Arsenal AC Parent LLC	10/1/2030	8.00	Fixed Income	4,000	4,453	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Embracer Netherlands Finance B.V.	7/28/2030	7.00	Fixed Income	80,000	104,292	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Crown Finance US, Inc.	7/31/2028	6.86	Fixed Income	100,242	101,423	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	New Cinerworld Ltd.	Equity	5,408	89,232	0.005%		
JNLFidelity Institutional Asset Management® Total Bond Fund	Lifepoint Health, Inc.	8/15/2030	9.88	Fixed Income	70,000	77,993	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2053	5.50	Fixed Income	423,238	436,598	0.025%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2053	5.50	Fixed Income	1,415,189	1,460,864	0.084%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/15/2037	4.00	Fixed Income	10,558	10,543	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	7/15/2042	4.00	Fixed Income	14,583	14,567	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	4/15/2043	4.00	Fixed Income	446,127	443,107	0.026%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	3/15/2044	4.00	Fixed Income	6,103	6,097	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	10/15/2046	4.00	Fixed Income	127,020	125,192	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	9/15/2045	4.00	Fixed Income	40,382	40,278	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	6/15/2044	4.00	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/25/2049	2.50	Fixed Income	219,146	187,222	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	6/25/2049	2.50	Fixed Income	183,193	164,849	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Greystar Real Estate Partners, LLC	9/1/2030	7.75	Fixed Income	45,000	48,127	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	ATI Inc.	8/15/2030	7.25	Fixed Income	10,000	10,748	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Aircastle Limited	1/1/2200	5.25	Fixed Income	10,000	205,992	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Alt Lease Corporation	3/1/2200	4.13	Fixed Income	200,000	189,461	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	HCFA	3/15/2032	3.63	Fixed Income	127,070	127,070	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2051	3.00	Fixed Income	249,472	226,048	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2051	3.00	Fixed Income	254,243	230,291	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	3.00	Fixed Income	299,494	271,280	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	8/15/2053	4.13	Fixed Income	18,291,000	18,313,954	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank 2018-BNK13	6/16/2028	3.95	Fixed Income	20,000	195,711	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Clear Channel Outdoor Holdings, Inc.	9/15/2028	9.00	Fixed Income	65,000	69,362	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	World Omni Auto Receivables Trust 2023-C	11/15/2028	5.15	Fixed Income	323,000	327,011	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	GM Financial Automobile Leasing Trust 2023-3	11/20/2026	5.38	Fixed Income	285,000	284,470	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.50	Fixed Income	4,600,000	4,742,492	0.274%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	415,481	421,158	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Celene US Holdings LLC	11/15/2028	6.35	Fixed Income	639,000	690,537	0.040%
JNLFidelity Institutional Asset Management Total Bond Fund	Celene US Holdings LLC	11/15/2030	6.35	Fixed Income	649,000	715,965	0.041%
JNLFidelity Institutional Asset Management Total Bond Fund	Celene US Holdings LLC	11/15/2033	6.70	Fixed Income	379,000	424,364	0.025%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2037	2.50	Fixed Income	885,086	831,866	0.048%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2036	2.50	Fixed Income	2,087,064	1,962,873	0.113%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.00	Fixed Income	2,625,000	2,682,325	0.155%
JNLFidelity Institutional Asset Management Total Bond Fund	GGAM Finance Ltd.	6/15/2028	8.00	Fixed Income	30,000	32,885	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	PBF Holding Company LLC	9/15/2030	7.88	Fixed Income	177,000	182,912	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Chile Electricity Lux MPC S.a.r.l.	1/20/2033	6.01	Fixed Income	193,000	203,715	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/15/2033	3.50	Fixed Income	157,433	136,132	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2034	3.50	Fixed Income	198,338	195,432	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2034	3.50	Fixed Income	43,948	43,400	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2035	3.50	Fixed Income	129,429	127,492	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2033	3.50	Fixed Income	55,801	55,066	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Morgan Stanley Capital Trust 0017-HR2	12/17/2020	3.59	Fixed Income	210,000	204,010	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	PiCo LLC	6/27/2028	8.26	Fixed Income	48,010	48,828	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2041	2.00	Fixed Income	184,928	163,171	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2041	2.50	Fixed Income	77,556	70,705	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2039	2.00	Fixed Income	71,739	69,024	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2040	2.00	Fixed Income	63,071	55,552	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2041	2.50	Fixed Income	68,494	62,444	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2041	2.50	Fixed Income	57,114	50,358	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2029	2.49	Fixed Income	59,465	54,766	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2041	2.50	Fixed Income	88,014	79,689	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2041	2.50	Fixed Income	104,835	95,214	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.50	Fixed Income	71,153	64,534	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2041	2.50	Fixed Income	48,989	44,310	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Open Text Corporation	1/31/2030	7.50	Fixed Income	271,672	272,606	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Chemons Company (The)	8/10/2028	8.75	Fixed Income	301,291	301,078	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	JBS USA Food Company	11/15/2027	2.50	Fixed Income	1,190,000	1,144,617	0.066%
JNLFidelity Institutional Asset Management Total Bond Fund	JBS USA Food Company	11/15/2032	3.63	Fixed Income	210,000	203,420	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	JBS USA Food Company	5/15/2032	3.00	Fixed Income	5,280,000	4,632,622	0.268%
JNLFidelity Institutional Asset Management Total Bond Fund	JBS USA Food Company	4/1/2033	5.75	Fixed Income	770,000	820,324	0.047%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2050	3.00	Fixed Income	319,951	286,341	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	JBS USA Food Company	11/15/2033	3.50	Fixed Income	275,000	251,161	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	JBS USA Food Company	2/1/2028	5.13	Fixed Income	515,000	526,154	0.030%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	8/15/2043	4.38	Fixed Income	9,550,000	9,874,940	0.571%
JNLFidelity Institutional Asset Management Total Bond Fund	Sumnova Energy International Inc.	2/15/2028	2.63	Fixed Income	12,000	7,775	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2048	9.00	Fixed Income	257,907	243,076	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Generation Bridge Northstar LLC	8/3/2025	8.75	Fixed Income	87,684	87,705	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Anywhere Real Estate Group LLC	4/15/2030	7.00	Fixed Income	115,800	111,280	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	10/15/2054	6.50	Fixed Income	3,600,000	3,682,914	0.213%
JNLFidelity Institutional Asset Management Total Bond Fund	Cayana Co.	12/1/2028	12.00	Fixed Income	67,075	71,370	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Corporacion Nacional Mortgage Association, Inc.	10/15/2033	5.00	Fixed Income	2,000,000	2,005,078	0.117%
JNLFidelity Institutional Asset Management Total Bond Fund	Corporacion Nacional del Cobre de Chile	1/8/2034	5.95	Fixed Income	200,000	212,896	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/25/2052	2.50	Fixed Income	74,440	68,971	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2053	6.50	Fixed Income	375,611	395,573	0.023%
JNLFidelity Institutional Asset Management Total Bond Fund	Rancaps PLC	9/13/2029	6.49	Fixed Income	1,906,000	1,906,509	0.097%
JNLFidelity Institutional Asset Management Total Bond Fund	Permian Resources Operating, LLC	1/15/2032	7.00	Fixed Income	25,000	26,365	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Minerva Luxembourg S.A.	9/13/2033	8.88	Fixed Income	75,000	82,151	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	JP Intermediate B, LLC	11/20/2027	11.01	Fixed Income	129,691	111,539	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	10/15/2054	6.50	Fixed Income	11,880,000	11,988,013	0.072%
JNLFidelity Institutional Asset Management Total Bond Fund	U.S. Foods Inc.	9/15/2028	6.88	Fixed Income	60,000	62,733	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Macquarie Airfinance Holdings Limited	3/30/2029	8.13	Fixed Income	105,894	105,894	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Safelink HD Holdings LLC	6/15/2031	2.80	Fixed Income	50,000	53,142	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Cheapeake Funding II LLC	11/1/2026	6.16	Fixed Income	324,000	326,647	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Vistra Operations Company LLC	10/15/2031	7.75	Fixed Income	65,000	61,166	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Citgo Petroleum Corporation	1/15/2029	8.38	Fixed Income	156,000	165,069	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Hilton USA Trust 2016-HVH	11/15/2026	4.33	Fixed Income	100,000	95,739	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	ABCMS Mortgage Trust 2023-C21	12/1/2031	6.51	Fixed Income	663,000	668,341	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/25/2026	2.65	Fixed Income	836,000	816,410	0.047%
JNLFidelity Institutional Asset Management Total Bond Fund	CSAL 2018-CX12 Commercial Mortgage Trust	5/1/2028	3.96	Fixed Income	210,000	206,067	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Carlyle Aviation Elevate Merger Subsidiary Ltd.	10/15/2024	7.00	Fixed Income	30,000	30,895	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	JPMBS Commercial Mortgage Securities Trust 2016-C4	9/17/2026	2.88	Fixed Income	212,105	206,276	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2053	6.50	Fixed Income	302,942	320,273	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2053	6.50	Fixed Income	304,926	320,369	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	GTCCR W-2 Merger Sub LLC	1/15/2031	7.50	Fixed Income	235,000	255,824	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Tesla Auto Lease Trust 2023-B	2/20/2025	6.02	Fixed Income	577,655	579,570	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Daimler Trucks Peter 11/15/2023-1	11/15/2023	6.03	Fixed Income	598,505	611,167	0.036%
JNLFidelity Institutional Asset Management Total Bond Fund	Tesla Auto Lease Trust 2023-B	12/22/2025	6.13	Fixed Income	900,000	910,619	0.053%
JNLFidelity Institutional Asset Management Total Bond Fund	Benchmark 2019-B15 Mortgage Trust	5/1/2029	2.86	Fixed Income	100,000	96,315	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/25/2047	4.00	Fixed Income	276,628	274,183	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Bravo Residential Funding Trust 2023-RP1	6/15/2028	6.15	Fixed Income	615,533	625,063	0.036%
JNLFidelity Institutional Asset Management Total Bond Fund	J&J Ventures Gaming, LLC	4/26/2028	9.61	Fixed Income	119,400	118,884	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	NCR Alltel Escrow Corporation	4/1/2029	9.50	Fixed Income	85,000	97,615	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Forward Air Corporation	10/15/2031	9.50	Fixed Income	110,000	122,727	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2053	6.50	Fixed Income	143,963	143,324	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2053	6.50	Fixed Income	630,435	662,167	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	Sino Royalties Operating Partnership, LP	11/1/2028	7.88	Fixed Income	60,000	64,722	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Finasta USA, Inc.	9/1/2029	12.18	Fixed Income	170,151	170,764	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Aegion Finance S.a.r.l.	1/20/2031	9.00	Fixed Income	200,000	219,763	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	AmeriTex HoldCo Intermediate LLC	10/15/2028	10.25	Fixed Income	25,000	27,323	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Mineral Resources Limited	10/1/2028	9.25	Fixed Income	40,000	44,332	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Verina Media Bristol LLC	3/6/2031	8.66	Fixed Income	115,000	114,637	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/25/2048	2.50	Fixed Income	142,254	137,660	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/25/2048	2.50	Fixed Income	145,078	130,460	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/25/2047	2.25	Fixed Income	561,299	510,396	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	6/25/2049	2.50	Fixed Income	144,209	128,945	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	CFCRE 2016-C7 Mortgage Trust	11/13/2026	2.68	Fixed Income	167,156	169,638	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/15/2055	6.00	Fixed Income	4,050,000	4,140,071	0.239%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	9/30/2030	4.63	Fixed Income	105,000	110,591	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	11/15/2054	6.00	Fixed Income	6,900,000	7,012,326	0.405%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2053	6.50	Fixed Income	864,848	897,838	0.052%
JNLFidelity Institutional Asset Management Total Bond Fund	CPM Holdings, Inc.	9/16/2028	9.70	Fixed Income	49,613	47,356	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/25/2040	1.50	Fixed Income	802,689	685,376	0.040%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/25/2047	3.00	Fixed Income	319,226	303,157	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/25/2047	3.00	Fixed Income	347,992	333,698	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2046	4.50	Fixed Income	208,463	200,209	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2053	6.50	Fixed Income	1,035,767	1,078,513	0.062%
JNLFidelity Institutional Asset Management Total Bond Fund	NCR Alltel LLC	9/22/2030	10.10	Fixed Income	143,408	147,159	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	8/20/2051	2.50	Fixed Income	645,413	563,245	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	9/20/2051	2.50	Fixed Income	1,086,237	956,675	0.056%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	9/20/2051	2.50	Fixed Income	642,698	560,876	0.032%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	8/20/2051	2.50	Fixed Income	2,479,731	2,164,035	0.125%
JNLFidelity Institutional Asset Management Total Bond Fund	Camxam Auto Owner Trust 2023-4	4/15/2027	6.00	Fixed Income	574,000	590,147	0.034%
JNLFidelity Institutional Asset Management Total Bond Fund	Aegion Finance B.V.	1/31/2028	9.06	Fixed Income	99,603	99,833	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Sandor-Palota	6/16/2034	5.50	Fixed Income	155,000	160,482	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Viper Energy, Inc.	11/1/2031	7.38	Fixed Income	35,000	37,919	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Enterprise Fleet Financing 2023-3, LLC	2/22/2027	6.44	Fixed Income	833,543	852,944	0.049%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/25/2048	2.50	Fixed Income	182,768	187,768	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Merchants Fleet Funding LLC	5/20/2026	7.21	Fixed Income	559,436	567,844	0.033%
JNLFidelity Institutional Asset Management Total Bond Fund	Medco Maple Tree Pte. Ltd.	4/27/2029	8.96	Fixed Income	250,000	274,076	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Willis Engine Structured Trust VII	10/15/2029	8.00	Fixed Income	616,771	660,752	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	Wheels Fleet Lease Funding I LLC	11/9/2027	6.46	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Open Trust 2023-AR	11/17/2025	9.16	Fixed Income	412,153	416,921	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Open Trust 2023-AR	11/17/2025	8.44	Fixed Income	683,376	683,376	0.040%
JNLFidelity Institutional Asset Management Total Bond Fund	Republica Bolivariana de Venezuela	9/15/2027	9.25	Fixed Income	580,000	91,350	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	New Fortress Energy Inc	10/26/2030	10.25	Fixed Income	312,526	287,364	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	Ministerial Financiero Publico	1/17/2033	7.13	Fixed Income	80,000	88,631	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Petroleos de Venezuela, S.A.	5/17/2035	9.75	Fixed Income	330,000	37,461	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Musquera Energy Partners, LP	6/15/2035	2.50	Fixed Income	106,000	100,500	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	B.J's Wholesale Club, Inc.	2/3/2029	6.96	Fixed Income	78,918	79,545	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Bombardier, Inc.	11/15/2030	8.75	Fixed Income	45,000	50,900	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2036	2.50	Fixed Income	732,152	688,585	0.040%
JNLFidelity Institutional Asset Management Total Bond Fund	Gobierno de la Republica de Costa Rica	11/1/2034	7.30	Fixed Income	200,000	226,844	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Bombardier Recreational Products, Inc.	12/13/2029	8.00	Fixed Income	127,511	127,196	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Outfront Media Capital Corporation	2/15/2031	7.38	Fixed Income	145,000	158,829	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Smyrna Ready Mix Concrete, LLC	11/15/2031	8.88	Fixed Income	115,000	127,831	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	11/14/2053	8.75	Fixed Income	635,000	718,326	0.041%
JNLFidelity Institutional Asset Management Total Bond Fund	Availa Coating Systems Dutch Holding B.B.V.	2/15/2031	7.25	Fixed Income	150,000	164,280	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Sealed Air Corporation	2/15/2031	7.25	Fixed Income	95,000	103,212	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	NOVA Chemicals Corporation	11/15/2028	8.50	Fixed Income	70,000	77,062	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Sprint AeroSystems, Inc.	11/15/2030	9.75	Fixed Income	70,000	80,559	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2033	4.50	Fixed Income	14,500,000	15,559,821	0.899%
JNLFidelity Institutional Asset Management Total Bond Fund	INEOS Quattro Finance 2 plc	3/15/2029	9.63	Fixed Income	200,000	221,270	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Jefferies Finance LLC	8/15/2028	5.00	Fixed Income	25,000	23,950	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	EG Global Finance PLC	11/30/2028	12.00	Fixed Income	719,000	830,974	0.048%
JNLFidelity Institutional Asset Management Total Bond Fund	ClubCorp Holdings, Inc.	10/1/2028	10.60	Fixed Income	277,071	277,302	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Tapestry, Inc.	11/27/2026	7.00	Fixed Income	487,000	515,816	0.030%
JNLFidelity Institutional Asset Management Total Bond Fund	Tapestry, Inc.	11/27/2028	7.35	Fixed Income	779,000	838,581	0.048%
JNLFidelity Institutional Asset Management Total Bond Fund	Habors Industries, Inc.	12/1/2030	9.13	Fixed Income	25,000	28,148	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Tapestry, Inc.	11/27/2030	7.70	Fixed Income	896,000	990,341	0.057%
JNLFidelity Institutional Asset Management Total Bond Fund	TransDigm Inc.	12/1/2031	7.13	Fixed Income	80,000	86,501	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Tapestry, Inc.	11/27/2033	7.85	Fixed Income	896,000	996,507	0.058%
JNLFidelity Institutional Asset Management Total Bond Fund	Tapestry, Inc.	11/27/2025	7.05	Fixed Income	181,000	189,065	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Quanta Services Ltd.	2/15/2030	8.63	Fixed Income	212,000	226,626	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Tajikistan, Government of	9/14/2027	7.13	Fixed Income	140,000	136,093	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Bank 2018-BNK13	7/17/2028	4.22	Fixed Income	500,000	494,596	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	Ciena Corporation	10/24/2030	6.96	Fixed Income	44,340	44,456	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Cortinas Transportation And Infrastructure Investors LLC	12/1/2030	7.88	Fixed Income	120,000	143,223	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	LGI Homes, Inc.	12/15/2028	8.75	Fixed Income	40,000	43,861	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	American Airlines, Inc.	5/15/2029	8.50	Fixed Income	170,000	185,711	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Calpine Construction Finance Company, L.P.	7/20/2030	7.25	Fixed Income	74,575	74,072	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/25/2041	3.00	Fixed Income	913,321	840,360	0.049%
JNLFidelity Institutional Asset Management Total Bond Fund	INEOS Quattro Holdings UK Ltd	3/9/2029	9.60	Fixed Income	193,185	193,115	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/15/2026	4.63	Fixed Income	400,000	414,925	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	TKC Holdings, Inc.	2/14/2027	13.50	Fixed Income	66,556	58,914	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Morgan Stanley Capital I Trust 2016-UBS11	8/17/2029	2.78	Fixed Income	700,000	673,157	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	Hertz Corporation, (The)	6/30/2028	8.13	Fixed Income	64,525	57,648	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Smyrna Ready Mix Concrete, LLC	4/2/2029	8.35	Fixed Income	59,220	59,585	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Peoples's Government of Inner Mongolia Autonomous Region	6/5/2029	7.88	Fixed Income	200,000	216,578	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Phia Corporation	12/1/2031	8.63	Fixed Income	125,000	135,944	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	GFL Environmental, Inc.	11/15/2031	6.75	Fixed Income	75,000	79,770	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	América Móvil, S.A. De C.V.	4/4/2032	5.38	Fixed Income	215,000	213,827	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	ATP Tower Holdings, LLC	4/27/2026	4.05	Fixed Income	150,000	147,994	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	PG&E Corporation	12/1/2027	7.25	Fixed Income	100,000	109,168	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	11/30/2030	4.38	Fixed Income	5,000,000	5,274,295	0.305%
JNLFidelity Institutional Asset Management Total Bond Fund	Summit Materials, LLC	1/15/2031	7.25	Fixed Income	80,615	80,615	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	American Airlines, Inc.	5/29/2029	7.21	Fixed Income	75,000	99,702	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	HAT Holdings LLC	6/15/2027	8.00	Fixed Income	45,000	48,696	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Kinsh Holdings LP	12/15/2028	6.63	Fixed Income	145,000	153,445	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Wolfsped, Inc.	12/1/2029	1.88	Fixed Income	412,000	153,900	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	NextEra Energy Operating Partners, LP	1/15/2029	7.25	Fixed Income	30,000	32,083	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	EG Group Limited	2/7/2028	11.07	Fixed Income	497,023	496,135	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	Western Digital Corporation	2/1/2029	15.00	Fixed Income	143,223	143,223	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Alliant Holdings Intermediate, LLC	1/15/2031	7.00	Fixed Income	10,000	10,427	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Flutter Financing B.V.	11/18/2030	7.33	Fixed Income	292,589	292,537	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	Barings CLO LBD 2023-IV	12/20/2037	7.03	Fixed Income	1,424,000	1,459,981	0.084%
JNLFidelity Institutional Asset Management Total Bond Fund	XPO, Inc.	2/1/2032	7.13	Fixed Income	150,000	159,433	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	CVR Energy, Inc.	1/15/2029	8.50	Fixed Income	260,000	265,889	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	COFCO Holdco LP	12/15/2033	7.50	Fixed Income	250,000	276,779	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2023-XL3	12/15/2025	6.86	Fixed Income	646,599	668,701	0.039%
JNLFidelity Institutional Asset Management Total Bond Fund	Samarco Mineração SA	6/30/2031	6.50	Fixed Income	404,844	473,128	0.028%
JNLFidelity Institutional Asset Management Total Bond Fund	Community Health Systems, Inc.	1/15/2032	10.88	Fixed Income	90,000	100,449	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2023-XL3	12/15/2025	7.29	Fixed Income	181,254	181,955	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2023-XL3	12/15/2025	7.74	Fixed Income	79,783	80,082	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Waste Enterprises, L.P.	1/15/2029	9.75	Fixed Income	100,000	100,000	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	DTP Commercial Mortgage Trust 2023-STE2	11/8/2029	6.04	Fixed Income	282,000	290,522	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	Auna S.A.A.	12/15/2029	10.00	Fixed Income	67,600	73,279	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Harbour Energy PLC	10/15/2026	5.50	Fixed Income	30,000	30,621	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Northwest Grocery, Inc.	1/15/2028	12.60	Fixed Income	69,680	69,163	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Avis Budget Car Rental, LLC	3/16/2029	8.35	Fixed Income	42,111	42,094	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Acris Golf LLC	11/24/2028	9.11	Fixed Income	131,636	131,936	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	R1 RCM, Inc.	6/21/2029	8.25	Fixed Income	69,443	69,572	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Forward Air Corporation	6/20/2030	7.27	Fixed Income	229,578	229,578	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Madison Park Funding XIX, Ltd.	12/23/2037	6.92	Fixed Income	469,000	477,434	0.028%
JNLFidelity Institutional Asset Management Total Bond Fund	SK Neptune Husky Finance S.A.R.L.	4/30/2033	17.50	Fixed Income	14,252	5,708	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Aspire Bakeries Holdings LLC	12/16/2030	9.53	Fixed Income	44,775	44,909	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/7/2036	6.00	Fixed Income	200,000	208,830	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association	11/1/2033	6.50	Fixed Income	646,519	678,129	0.039%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2054	6.00	Fixed Income	918,069	966,860	0.056%
JNLFidelity Institutional Asset Management Total Bond Fund	Arthur US Fincio Inc	11/8/2030	10.58	Fixed Income	104,475	98,340	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Accipet Ireland Capital Designated Activity Company	1/19/2029	5.10	Fixed Income	1,651,000	1,703,248	0.088%
JNLFidelity Institutional Asset Management Total Bond Fund	Achene Global Funding	1/8/2029	5.58	Fixed Income	952,000	969,818	0.056%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of Saudi Arabia	1/16/2054	5.75	Fixed Income	200,000	205,823	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Sixth Street Specialty Lending, Inc.	3/1/2029	6.13	Fixed Income	750,000	722,796	0.042%
JNLFidelity Institutional Asset Management Total Bond Fund	Inversiones CMPC S.A.	4/6/2031	3.00	Fixed Income	60,000	54,239	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Cooperated S.A.	11/19/2032	6.38	Fixed Income	72,000	72,000	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	BRE RC Pitney Road PA LP	1/15/2032	6.63	Fixed Income	135,000	138,670	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Achene Global Funding	1/15/2027	5.34	Fixed Income	2,128,000	2,188,947	0.126%
JNLFidelity Institutional Asset Management Total Bond Fund	Citigroup Commercial Mortgage Trust 2020-GC46	11/16/2029	6.41	Fixed Income	300,000	286,634	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	Travelport Worldwide Limited	11/1/2029	1.17	Fixed Income	100,000	95,847	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Citigroup Commercial Mortgage Trust 2019-GC41	5/11/2029	2.72	Fixed Income	513,149	492,116	0.028%
JNLFidelity Institutional Asset Management Total Bond Fund	Jane Street Group, LLC	12/31/2049	5.00	Fixed Income	50,000	49,943	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2053	6.50	Fixed Income	183,287	193,658	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Acureus, LLC	2/1/2029	8.25	Fixed Income	45,000	47,060	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Wells Fargo & Company	12/23/2035	5.50	Fixed Income	722,000	763,783	0.044%
JNLFidelity Institutional Asset Management Total Bond Fund	Buffalo Energy Mexico Holding S A De C V	2/15/2039	7.88	Fixed Income	80,000	85,798	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	12/20/2051	2.50	Fixed Income	437,841	381,552	0.022%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	8/20/2051	2.50	Fixed Income	370,874	323,658	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2024-XL4	2/17/2029	6.60	Fixed Income	1,285,089	1,285,089	0.074%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2024-XL4	2/17/2026	6.95	Fixed Income	120,529	120,638	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Ward NewCo 3, Inc.	1/30/2032	7.63	Fixed Income	120,000	127,931	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.00	Fixed Income	111,262	92,817	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2051	2.00	Fixed Income	196,017	165,191	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Pakistan, Government of	4/8/2031	7.38	Fixed Income	160,000	140,874	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Serbia	9/26/2033	6.50	Fixed Income	75,000	80,224	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/25/2049	2.50	Fixed Income	232,941	205,452	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/25/2046	2.00	Fixed Income	443,887	398,016	0.023%
JNLFidelity Institutional Asset Management Total Bond Fund	Zelis Payments Buyer, Inc.	9/28/2029	8.00	Fixed Income	159,200	159,059	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Corporacion Nacional del Cobre de Chile	9/8/2053	6.30	Fixed Income	200,000	212,355	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	KEHE Distributors, LLC	2/15/2029	9.00	Fixed Income	210,000	220,882	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	WH Borrower, LLC	2/15/2027	10.79	Fixed Income	82,259	84,113	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Merlin Entertainments Group U.S. Holdings, Inc.	2/15/2031	7.38	Fixed Income	50,000	50,612	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Caesars Entertainment, Inc.	2/15/2032	6.50	Fixed Income	180,000	187,672	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	SeaWorld Parks & Entertainment, Inc.	8/25/2028	7.75	Fixed Income	107,339	106,960	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Cherif NEX US, Inc.	12/1/2027	8.50	Fixed Income	184,945	184,945	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Talos Production Inc.	2/1/2029	9.00	Fixed Income	30,000	31,341	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Go Daddy Operating Company, LLC	11/12/2029	7.25	Fixed Income	131,838	131,672	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Talos Production Inc.	2/1/2031	9.38	Fixed Income	55,000	57,384	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2052	3.00	Fixed Income	670,559	605,939	0.035%
JNLFidelity Institutional Asset Management Total Bond Fund	UKG, Inc.	2/1/2031	6.88	Fixed Income	122,000	120,187	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	WEC US Holdings Ltd.	1/20/2031	8.00	Fixed Income	275,688	272,584	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Fiesta Purchaser Inc.	3					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Jane Street Group, LLC	1/26/2028	7.86	Fixed Income	89.498	89.414	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Consolidated Energy Finance S.A.	2/15/2031	12.00	Fixed Income	165.000	166.408	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	2/15/2034	4.00	Fixed Income	1,362.500	1,392.580	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	Turkiye Cumhuriyet Basbakanlik	5/15/2034	7.63	Fixed Income	200.000	218.010	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	Citadel Securities LLC	7/29/2030	7.50	Fixed Income	339.737	339.495	0.02%
JNLFidelity Institutional Asset Management Total Bond Fund	Touchdown Acquirer Inc.	2/7/2031	7.00	Fixed Income	18.862	19.017	0.00%
JNLFidelity Institutional Asset Management Total Bond Fund	Ameri Sports Company	2/16/2033	7.75	Fixed Income	205.000	211.152	0.12%
JNLFidelity Institutional Asset Management Total Bond Fund	Caesars Entertainment Inc.	1/24/2031	8.00	Fixed Income	69.650	69.578	0.04%
JNLFidelity Institutional Asset Management Total Bond Fund	AnWINS Group, Inc.	2/15/2029	6.38	Fixed Income	95.000	98.047	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	TransDigm Inc.	3/1/2029	6.38	Fixed Income	290.000	300.631	0.17%
JNLFidelity Institutional Asset Management Total Bond Fund	Kinross, Government of	2/16/2031	9.75	Fixed Income	200.000	204.188	0.12%
JNLFidelity Institutional Asset Management Total Bond Fund	CNX Resources Corporation	3/1/2032	7.25	Fixed Income	80.000	84.416	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	TransDigm Inc.	3/1/2032	6.63	Fixed Income	75.000	78.581	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Sally Holdings, LLC	3/1/2032	6.75	Fixed Income	95.000	98.159	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Ashraf DG Holdings, LLC	5/1/2028	6.63	Fixed Income	85.000	84.935	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	BLP Commercial Mortgage Trust	3/16/2026	6.44	Fixed Income	563.000	563.039	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Core & Main LP	2/5/2031	7.59	Fixed Income	49.738	49.779	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Amco CLO Series 2018-B	4/16/2037	6.79	Fixed Income	1,188.000	1,211.356	0.70%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	12/20/2051	2.50	Fixed Income	657.225	573.435	0.33%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	1/20/2052	2.50	Fixed Income	423.267	369.248	0.21%
JNLFidelity Institutional Asset Management Total Bond Fund	Government National Mortgage Association	12/20/2051	2.50	Fixed Income	340.835	297.337	0.17%
JNLFidelity Institutional Asset Management Total Bond Fund	Renaissance Holding Corp.	4/8/2030	9.50	Fixed Income	301.807	301.575	0.17%
JNLFidelity Institutional Asset Management Total Bond Fund	StoneX Group Inc.	3/1/2031	7.88	Fixed Income	45.000	49.227	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Fiesta Purchaser, Inc.	1/31/2031	9.25	Fixed Income	71.393	71.450	0.04%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	2/15/2054	4.25	Fixed Income	28,567.000	29,271.085	1.691%
JNLFidelity Institutional Asset Management Total Bond Fund	Primary Products Finance LLC	4/2/2029	8.97	Fixed Income	174.250	178.034	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	OCVFN Loan Investment Trust 2024-HB1	2/25/2027	3.20	Fixed Income	74.235	74.235	0.04%
JNLFidelity Institutional Asset Management Total Bond Fund	Wood Mackenzie Limited	2/1/2031	8.60	Fixed Income	109.725	111.228	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Camelot U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	1.387	1.384	0.00%
JNLFidelity Institutional Asset Management Total Bond Fund	Covanta Holding Corporation	11/30/2028	7.85	Fixed Income	2.585	2.594	0.00%
JNLFidelity Institutional Asset Management Total Bond Fund	Covanta Holding Corporation	11/30/2028	7.85	Fixed Income	47.181	47.345	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Fraxion, LLC	12/1/2028	6.01	Fixed Income	168.533	168.383	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	Camelot U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	16.314	16.285	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Summa Energy International Inc.	12/1/2026	0.25	Fixed Income	120.000	90.714	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	BIFM US Finance LLC	5/31/2028	9.50	Fixed Income	89.550	89.854	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Kinross International, LLC	1/30/2029	10.00	Fixed Income	200.650	183.660	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	Ensemble RCM, LLC	8/1/2029	8.25	Fixed Income	219.175	222.464	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	Toyota Lease Owner Trust 2024-A	8/20/2026	5.25	Fixed Income	600.000	609.444	0.35%
JNLFidelity Institutional Asset Management Total Bond Fund	Carrier Global Corporation	3/1/2054	6.20	Fixed Income	75.000	86.793	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2021-LB4	2/15/2024	100.00	Fixed Income	100.000	99.828	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Carrier Global Corporation	3/15/2034	5.90	Fixed Income	121.000	132.250	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	First Quantum Minerals Ltd	3/1/2029	9.38	Fixed Income	235.000	250.996	0.15%
JNLFidelity Institutional Asset Management Total Bond Fund	OMNIA Partners LLC	7/25/2030	8.53	Fixed Income	225.500	233.593	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	Consolidated Energy Finance, S.A.	1/17/2030	12.00	Fixed Income	184.513	183.660	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	Antera Services, LLC	2/7/2031	9.83	Fixed Income	126.675	126.121	0.07%
JNLFidelity Institutional Asset Management Total Bond Fund	Royal Caribbean Cruises Ltd	3/15/2032	6.25	Fixed Income	141.000	146.667	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Panama	3/1/2057	7.88	Fixed Income	200.000	226.805	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	Prarie Acquirer LP	8/1/2029	9.00	Fixed Income	100.000	104.500	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Recess Holdings, Inc.	2/14/2030	9.75	Fixed Income	89.550	93.061	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2053	6.00	Fixed Income	232.590	240.176	0.14%
JNLFidelity Institutional Asset Management Total Bond Fund	Builders FirstSource, Inc.	3/1/2034	6.38	Fixed Income	95.000	57.417	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Radiology Partners, Inc.	1/31/2029	9.50	Fixed Income	217.127	220.985	0.13%
JNLFidelity Institutional Asset Management Total Bond Fund	United Airlines, Inc.	2/15/2031	8.03	Fixed Income	189.525	192.502	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	642.212	535.748	0.31%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2053	6.00	Fixed Income	95.253	98.360	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2053	6.00	Fixed Income	139.614	144.229	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	Razon Fidei Finance S.A.	3/5/2028	6.35	Fixed Income	200.000	214.345	0.12%
JNLFidelity Institutional Asset Management Total Bond Fund	Phoenix Guarantor Inc.	2/13/2031	8.50	Fixed Income	104.475	104.166	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Delek Logistics Partners, LP	3/15/2029	8.63	Fixed Income	38.000	40.152	0.02%
JNLFidelity Institutional Asset Management Total Bond Fund	AssuredPartners, Inc.	2/15/2027	8.75	Fixed Income	303.475	303.187	0.18%
JNLFidelity Institutional Asset Management Total Bond Fund	The Chemours Company	11/15/2029	10.00	Fixed Income	10.000	10.127	0.00%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	2/28/2031	4.25	Fixed Income	25,450.000	26,409.516	1.526%
JNLFidelity Institutional Asset Management Total Bond Fund	Safelink GL Holdings LLC	1/15/2032	2.85	Fixed Income	131.000	114.067	0.07%
JNLFidelity Institutional Asset Management Total Bond Fund	VM Consolidated, Inc.	3/24/2028	8.00	Fixed Income	123.291	123.421	0.07%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2054	6.00	Fixed Income	180.076	180.076	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2054	6.50	Fixed Income	344.433	357.357	0.21%
JNLFidelity Institutional Asset Management Total Bond Fund	USA Compression Finance Corp.	3/15/2029	7.13	Fixed Income	95.000	98.136	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Clear Channel Outdoor Holdings, Inc.	4/1/2030	7.88	Fixed Income	160.000	174.205	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	Foundation Building Materials Holding Company LLC	1/25/2031	9.25	Fixed Income	146.867	146.812	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	Cleveland-Cliffs Inc.	3/15/2032	7.00	Fixed Income	125.000	106.494	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Madison Park Funding LXVII Ltd	4/25/2037	6.80	Fixed Income	1,111.000	1,253.539	0.72%
JNLFidelity Institutional Asset Management Total Bond Fund	Israel, State of	3/12/2054	5.75	Fixed Income	200.000	190.650	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	NYMT Loan Trust 2024-CP1	2/25/2027	8.00	Fixed Income	281.280	281.614	0.16%
JNLFidelity Institutional Asset Management Total Bond Fund	GM Financial Revolving Receivables Trust 2024-L	3/12/2029	4.98	Fixed Income	255.000	262.183	0.15%
JNLFidelity Institutional Asset Management Total Bond Fund	Ally Auto Receivables Trust 2024-L	12/15/2028	5.08	Fixed Income	625.000	634.027	0.37%
JNLFidelity Institutional Asset Management Total Bond Fund	CoreCivic, Inc.	4/15/2029	8.25	Fixed Income	155.000	171.241	0.10%
JNLFidelity Institutional Asset Management Total Bond Fund	NYITM Capital Corp.	4/1/2029	8.00	Fixed Income	45.000	47.600	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Barclays PLC	3/12/2030	5.69	Fixed Income	1,000.000	1,042.891	0.60%
JNLFidelity Institutional Asset Management Total Bond Fund	United Rentals, Inc.	2/7/2031	7.00	Fixed Income	84.575	85.099	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Testa Auto Lease Trust 2024-A	6/22/2026	5.37	Fixed Income	237.562	238.432	0.14%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2054	6.00	Fixed Income	1,573.212	1,618.623	0.96%
JNLFidelity Institutional Asset Management Total Bond Fund	Daybreak, Inc.	2/16/2033	7.75	Fixed Income	69.825	69.665	0.04%
JNLFidelity Institutional Asset Management Total Bond Fund	Bombardier Recreational Products, Inc.	1/22/2031	8.00	Fixed Income	48.084	47.974	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2024-XL5	3/15/2026	6.49	Fixed Income	2,873.556	2,880.049	1.66%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2024-XL5	3/15/2026	6.79	Fixed Income	490.945	490.280	0.28%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2024-XL5	3/15/2026	7.04	Fixed Income	651.820	651.820	0.38%
JNLFidelity Institutional Asset Management Total Bond Fund	Vladia Cme Gore	3/12/2031	7.25	Fixed Income	200.000	210.261	0.12%
JNLFidelity Institutional Asset Management Total Bond Fund	VICI Properties L.P.	4/1/2054	6.13	Fixed Income	94.000	101.544	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Diamond Sports Group, LLC	8/2/2027	5.00	Fixed Income	70.463	83.993	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	GS Mortgage-Backed Securities Trust 2024-RPL2	2/25/2027	7.00	Fixed Income	188.738	188.738	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	PRET 2024-RPL1 Trust	10/25/2063	3.90	Fixed Income	462.710	445.258	0.26%
JNLFidelity Institutional Asset Management Total Bond Fund	Sophia, L.P.	10/7/2029	8.85	Fixed Income	68.922	69.079	0.04%
JNLFidelity Institutional Asset Management Total Bond Fund	Alcoa Nederland Holding B.V.	3/15/2031	7.13	Fixed Income	315.000	336.363	0.19%
JNLFidelity Institutional Asset Management Total Bond Fund	Station Casinos LLC	3/15/2032	6.63	Fixed Income	190.000	48.000	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	VICI Properties L.P.	4/1/2034	5.75	Fixed Income	179.000	193.203	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	Vici Properties (North America), Inc.	3/15/2034	6.13	Fixed Income	190.000	196.826	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	AMCO CLO 22 Ltd	4/19/2037	6.83	Fixed Income	1,878.000	1,942.018	1.12%
JNLFidelity Institutional Asset Management Total Bond Fund	Oak Hill Credit Partners	4/20/2037	6.92	Fixed Income	1,393.000	1,446.377	0.84%
JNLFidelity Institutional Asset Management Total Bond Fund	Oak Hill Credit Partners	4/20/2037	6.97	Fixed Income	250.000	259.154	0.15%
JNLFidelity Institutional Asset Management Total Bond Fund	Eagle Parent Corp.	3/1/2029	9.58	Fixed Income	14.441	13.665	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Kosmos Energy Ltd.	3/1/2028	7.50	Fixed Income	125.000	121.455	0.07%
JNLFidelity Institutional Asset Management Total Bond Fund	Hyundai Auto Receivables Trust 2024-A	2/15/2029	4.98	Fixed Income	667.000	679.018	0.39%
JNLFidelity Institutional Asset Management Total Bond Fund	Vestis Corporation	2/18/2031	7.37	Fixed Income	79.969	79.023	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2052	5.00	Fixed Income	381.745	388.169	0.22%
JNLFidelity Institutional Asset Management Total Bond Fund	Beazer Homes USA, Inc.	3/15/2031	7.50	Fixed Income	75.000	78.171	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Securus Technologies Holdings, Inc.	1/1/2025	14.50	Fixed Income	159.167	40.663	0.02%
JNLFidelity Institutional Asset Management Total Bond Fund	Prarie Acquirer LP	10/22/2029	10.00	Fixed Income	54.723	54.603	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Starwood Property Trust, Inc.	4/1/2029	7.25	Fixed Income	55.000	59.722	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Aston Martin Capital Holdings Limited	3/31/2029	10.00	Fixed Income	95.000	98.756	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Invesco US CLO 2024-L Ltd	4/15/2037	6.87	Fixed Income	959.000	977.551	0.56%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2054	6.00	Fixed Income	382.123	393.153	0.23%
JNLFidelity Institutional Asset Management Total Bond Fund	Kosmos Energy Ltd.	5/1/2027	7.75	Fixed Income	25.000	25.507	0.01%
JNLFidelity Institutional Asset Management Total Bond Fund	Encore Capital Group, Inc.	4/1/2029	9.25	Fixed Income	100.000	112.283	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	Baytex Energy Corp.	3/15/2032	7.38	Fixed Income	95.000	94.900	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Symphony CLO 43 Ltd	4/15/2037	6.85	Fixed Income	186.000	88.075	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	McLaren Finance PLC	8/1/2026	7.50	Fixed Income	110.000	103.612	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2024-CYNN	4/15/2029	6.74	Fixed Income	1,999.908	2,005.276	1.16%
JNLFidelity Institutional Asset Management Total Bond Fund	The ADT Security Corporation	8/1/2029	4.13	Fixed Income	105.000	100.999	0.06%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2024-CYNN	4/15/2029	6.99	Fixed Income	319.482	319.477	0.18%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Trust 2024-CYNN	4/15/2029	7.24	Fixed Income	265.072	265.097	0.15%
JNLFidelity Institutional Asset Management Total Bond Fund	Four Seasons Hotels Limited	11/30/2029	7.25	Fixed Income	182.860	182.877	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	Chase Auto Owner Trust 2024-L	11/26/2027	5.13	Fixed Income	500.000	508.901	0.29%
JNLFidelity Institutional Asset Management Total Bond Fund	CON Luxembourg S.A.R.L.	7/3/2028	7.33	Fixed Income	91.467	91.467	0.05%
JNLFidelity Institutional Asset Management Total Bond Fund	Akumin Inc.	8/1/2028	8.00	Fixed Income	58.000	48.385	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Macquarie Airfinance Holdings Limited	3/26/2029	6.40	Fixed Income	145.000	151.031	0.09%
JNLFidelity Institutional Asset Management Total Bond Fund	Landsea Homes Corporation	4/1/2029	8.88	Fixed Income	45.000	49.459	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	CONR Hydra Buyer Inc.	3/15/2031	9.35	Fixed Income	194.510	193.100	0.11%
JNLFidelity Institutional Asset Management Total Bond Fund	Macquarie Airfinance Holdings Limited	3/26/2031	6.50	Fixed Income	135.000	142.388	0.08%
JNLFidelity Institutional Asset Management Total Bond Fund	Crescent Energy Finance LLC	4/1/2032	7.63	Fixed Income	50.000	52.107	0.03%
JNLFidelity Institutional Asset Management Total Bond Fund	Volkswagen Auto Lease Trust 2024-A	10/20/2026	5.21	Fixed Income	550.000	558.876	0.32%
JNLFidelity Institutional Asset Management Total Bond Fund	Finestra USA, Inc.	9/1/2029	12.18	Fixed Income	3.874	3.988	0.00%
JNLFidelity Institutional Asset Management Total Bond Fund	Rackspace Finance, LLC	3/15/2035					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Air Canada	3/14/2031	7.25	Fixed Income	64,675	64,860	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Survey Center Holdings, Inc.	4/15/2032	7.25	Fixed Income	178,000	178,000	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Matador Resources Company	4/15/2032	6.50	Fixed Income	115,000	118,486	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Millicom International Cellular SA	4/2/2032	7.38	Fixed Income	50,000	53,002	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Cloud Software Group, Inc.	3/19/2031	9.83	Fixed Income	55,000	55,128	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Windsor Holdings II, LLC	8/1/2030	8.46	Fixed Income	173,565	174,130	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2042	2.00	Fixed Income	1,679,715	1,474,718	0.085%
JNLFidelity Institutional Asset Management Total Bond Fund	Citizens Auto Receivables Trust 2024-2	2/16/2027	5.33	Fixed Income	400,000	407,844	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	TransDigm, Inc.	8/24/2028	8.08	Fixed Income	751,365	751,031	0.043%
JNLFidelity Institutional Asset Management Total Bond Fund	Avaya Coating Systems U.S. Holdings, Inc.	12/20/2029	7.33	Fixed Income	46,868	46,927	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Novo CLO 2024-1 Ltd	4/15/2037	6.85	Fixed Income	813,004	837,904	0.048%
JNLFidelity Institutional Asset Management Total Bond Fund	PG Investment Company 59 S.a.r.l.	2/23/2031	8.83	Fixed Income	169,575	169,773	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Marriott Ownership Resorts, Inc.	3/17/2031	7.50	Fixed Income	167,130	166,643	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Nexa Recursos S.A.	4/9/2034	6.75	Fixed Income	200,000	218,342	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Departamento Administrativo De La Presidencia De La Republica	11/4/2035	8.00	Fixed Income	325,000	356,828	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Apollvin Corporation	10/25/2028	7.75	Fixed Income	44,003	43,981	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Connect Finco Sarl	9/11/2029	9.75	Fixed Income	85,224	79,771	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	TransDigm, Inc.	2/22/2030	8.08	Fixed Income	49,253	49,248	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Level 3 Financing, Inc.	10/15/2030	3.88	Fixed Income	80,000	60,006	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	ILVI Incorporated	7/2/2029	7.75	Fixed Income	267,026	266,830	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Particle Investments S.a.r.l.	3/19/2031	9.25	Fixed Income	8,955	8,969	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Genesee & Wyoming, Inc.	4/15/2032	6.25	Fixed Income	230,000	243,523	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Kodak Building Partners Inc.	3/17/2028	9.08	Fixed Income	39,800	39,959	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Chesapeake Funding II LLC	9/15/2027	5.52	Fixed Income	544,438	551,021	0.032%
JNLFidelity Institutional Asset Management Total Bond Fund	Wheels Fleet Lease Funding 1 LLC	8/18/2027	5.49	Fixed Income	700,000	712,246	0.041%
JNLFidelity Institutional Asset Management Total Bond Fund	Genesys Cloud Services Holdings II LLC	12/1/2027	8.75	Fixed Income	148,927	149,122	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Chromalloy Corporation	3/21/2031	9.08	Fixed Income	69,821	67,715	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Vista Operations Company LLC	4/15/2032	6.88	Fixed Income	115,000	124,779	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Aramark Services, Inc.	4/6/2028	7.25	Fixed Income	85,000	85,060	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Aventiv Technologies, LLC	7/31/2025	13.10	Fixed Income	7,919	7,941	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Aventor Funding, Inc.	11/8/2027	7.35	Fixed Income	96,202	96,502	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Transcan Inc.	5/15/2035	9.25	Fixed Income	30,000	30,860	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica de El Salvador	4/17/2030	0.25	Fixed Income	150,000	3,359	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Presidencia de la Republica de El Salvador	4/17/2030	9.25	Fixed Income	150,000	155,206	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Transcannon Inc.	5/15/2031	8.50	Fixed Income	105,000	108,369	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	TK Elevator US Newco Inc	4/15/2030	8.83	Fixed Income	70,814	71,494	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	TK Elevator US Newco Inc	4/11/2030	8.59	Fixed Income	40,712	41,384	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Level 3 Financing, Inc.	4/15/2031	4.00	Fixed Income	45,000	33,267	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	AncCap Ireland Capital Designated Activity Company	4/15/2027	6.45	Fixed Income	867,000	933,933	0.054%
JNLFidelity Institutional Asset Management Total Bond Fund	Avent Corporation	3/26/2031	7.32	Fixed Income	30,327	30,913	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	VS Buyer, LLC	4/4/2031	8.35	Fixed Income	79,800	80,045	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Mausser Packaging Solutions Holding Company	4/15/2027	7.88	Fixed Income	185,000	193,180	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Alterra Mountain Company	8/17/2028	8.50	Fixed Income	143,922	144,074	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Sunoco LP	5/1/2032	7.00	Fixed Income	20,000	21,498	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	ZF North America Capital, Inc.	4/23/2030	6.75	Fixed Income	135,000	140,222	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Sunoco LP	5/1/2032	7.25	Fixed Income	40,000	43,583	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	ZF North America Capital, Inc.	4/23/2032	6.88	Fixed Income	55,000	56,797	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Epac Y-Grade Services, LP	8/28/2029	11.07	Fixed Income	160,000	163,689	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Zekelman Industries, Inc.	1/24/2031	7.17	Fixed Income	85,189	85,392	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Carmax Auto Owner Trust 2024-2	1/16/2029	5.50	Fixed Income	452,000	465,461	0.027%
JNLFidelity Institutional Asset Management Total Bond Fund	Level 3 Financing, Inc.	6/15/2029	4.88	Fixed Income	15,000	12,701	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Jane Street Group, LLC	4/30/2031	7.13	Fixed Income	140,000	150,715	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Valuence	4/15/2032	7.50	Fixed Income	235,000	256,366	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	MED ParentCo LP	4/5/2031	9.25	Fixed Income	96,452	96,522	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Brand Industrial Services Inc.	8/1/2030	9.75	Fixed Income	423,366	417,977	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Medline Borrower, LP	10/23/2028	8.00	Fixed Income	546,297	546,357	0.034%
JNLFidelity Institutional Asset Management Total Bond Fund	Enterprise Fleet Financing 2024-2, LLC	9/20/2031	8.51	Fixed Income	411,000	423,178	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Enterprise Fleet Financing 2024-2, LLC	5/20/2026	5.74	Fixed Income	500,000	506,670	0.029%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/25/2049	2.50	Fixed Income	724,972	658,820	0.038%
JNLFidelity Institutional Asset Management Total Bond Fund	Abu Dhabi, Government of	4/30/2054	5.50	Fixed Income	200,000	217,789	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Advantage Sales & Marketing, Inc.	10/28/2022	9.50	Fixed Income	145,968	145,388	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Geo Group, Inc. (The)	4/4/2029	10.50	Fixed Income	83,056	84,325	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Par Petroleum, LLC	2/28/2030	9.06	Fixed Income	88,837	90,757	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Fiesta Purchaser, Inc.	1/31/2031	9.25	Fixed Income	58,282	58,328	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Kaman Corporation	3/27/2031	7.83	Fixed Income	30,000	30,238	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Siseam UK PLC	5/2/2032	8.63	Fixed Income	200,000	212,645	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	ARES Loan Funding V, Ltd.	7/27/2033	6.84	Fixed Income	1,092,000	1,117,714	0.065%
JNLFidelity Institutional Asset Management Total Bond Fund	Banco Del Estado De Chile	1/1/2020	7.95	Fixed Income	200,000	221,567	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Helios Software Holding, Inc.	7/15/2029	8.38	Fixed Income	105,000	111,088	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Endo Luxembourg Finance Company I S.a.r.l.	4/2/2031	9.78	Fixed Income	125,000	127,195	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Affirm Asset Securitization Trust 2024-X1	7/15/2025	6.27	Fixed Income	268,138	270,014	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2031	6.39	Fixed Income	283,000	310,458	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2034	9.52	Fixed Income	383,000	406,362	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2054	6.86	Fixed Income	456,000	513,274	0.030%
JNLFidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2027	6.26	Fixed Income	291,000	306,001	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2064	7.01	Fixed Income	430,000	485,734	0.028%
JNLFidelity Institutional Asset Management Total Bond Fund	Carnival Corporation	10/18/2028	9.50	Fixed Income	215,410	215,000	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Boeing Company, The	5/1/2029	6.30	Fixed Income	373,000	402,206	0.023%
JNLFidelity Institutional Asset Management Total Bond Fund	U.S. Acute Care Solutions, LLC	5/15/2029	9.75	Fixed Income	55,000	59,082	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Koppers Inc.	4/10/2030	8.10	Fixed Income	158,405	159,336	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Harvest Management L.P.	5/15/2032	55.00	Fixed Income	55,000	59,483	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Les Schwab Tire Centers	4/23/2031	8.25	Fixed Income	129,638	129,497	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2054	6.00	Fixed Income	1,039,633	1,069,642	0.062%
JNLFidelity Institutional Asset Management Total Bond Fund	Ilad Holding	4/15/2031	8.50	Fixed Income	169,000	182,906	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Abu Dhabi Developmental Holding Company PJSC	5/8/2034	5.50	Fixed Income	200,000	216,435	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	SupplyOne, Inc.	3/27/2031	9.50	Fixed Income	29,800	29,800	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	BX Commercial Mortgage Trust 2024-MDHS	5/15/2029	6.99	Fixed Income	1,637,450	1,643,051	0.095%
JNLFidelity Institutional Asset Management Total Bond Fund	Park Intermediate Holdings LLC	2/1/2030	7.00	Fixed Income	65,000	69,160	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	LC Abrah US Bidco LLC	4/14/2031	8.75	Fixed Income	55,000	55,185	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Foundation Building Materials Holding Company LLC	6/1/2031	8.50	Fixed Income	63,000	63,000	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Uniti Group Inc.	2/15/2028	10.50	Fixed Income	5,000	5,352	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Brook Holdings II, Inc.	5/1/2030	11.33	Fixed Income	50,000	50,327	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Particle Investments S.a.r.l.	3/19/2031	9.25	Fixed Income	20,895	20,927	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Graphic Packaging International, LLC	7/15/2032	6.38	Fixed Income	105,000	100,488	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Block, Inc.	5/15/2032	6.50	Fixed Income	345,000	368,180	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Ford Credit Floorplan Master Owner Trust A	4/15/2027	5.29	Fixed Income	700,000	719,649	0.042%
JNLFidelity Institutional Asset Management Total Bond Fund	DLAD 2024-1 LLC	6/20/2028	5.30	Fixed Income	194,000	199,511	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Cushman & Wakefield U.S. Borrower, LLC	1/30/2030	9.00	Fixed Income	86,821	69,785	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Genesee & Wyoming, Inc. (New)	3/27/2031	7.33	Fixed Income	140,000	139,676	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Colviti Corporation	2/21/2031	8.45	Fixed Income	303,475	305,095	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Cougar JV Subsidiary, LLC	5/15/2032	8.00	Fixed Income	60,000	65,236	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Organo & Co.	10/15/2034	7.98	Fixed Income	50,000	54,443	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Organo & Co.	5/15/2034	6.75	Fixed Income	23,000	24,334	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Hess Infrastructure Partners LP	8/1/2029	6.50	Fixed Income	145,000	153,393	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Vestel Elektronik Sanayi Ve Ticaret Anonim Sirketi	5/15/2029	9.75	Fixed Income	200,000	209,924	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Chelkman Finance Corporation	5/15/2032	7.50	Fixed Income	195,000	206,029	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Cloud Software Group, Inc.	8/30/2032	8.25	Fixed Income	215,000	231,120	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Chemiere Energy Partners, LP	6/15/2034	5.75	Fixed Income	40,000	42,594	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2035	2.00	Fixed Income	191,296	176,608	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Charter Communications Operating, LLC	6/1/2029	6.10	Fixed Income	879,000	900,056	0.054%
JNLFidelity Institutional Asset Management Total Bond Fund	Capstone Borrower, Inc.	6/15/2030	8.00	Fixed Income	40,000	43,377	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Colviti Corporation	2/21/2031	7.63	Fixed Income	55,000	55,218	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Modena Buyer LLC	4/3/2031	9.83	Fixed Income	380,000	363,076	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Lifepoint Health, Inc.	6/1/2032	10.00	Fixed Income	55,000	62,832	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Charter Communications Operating, LLC	6/1/2034	6.55	Fixed Income	478,000	509,818	0.028%
JNLFidelity Institutional Asset Management Total Bond Fund	Eaton Vance CLO 2019-1, Ltd.	7/15/2037	6.84	Fixed Income	1,021,000	1,048,596	0.061%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2041	1.50	Fixed Income	383,580	326,234	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	Trust Insurance Holdings LLC	3/8/2032	10.08	Fixed Income	255,000	258,891	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Trust Insurance Holdings LLC	3/21/2031	8.58	Fixed Income	380,000	399,315	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Joann Inc.			Equity	36,282	82,360	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Needle Holdings LLC	4/30/2028	14.75	Fixed Income	54,554	43,666	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Encore Capital Group, Inc.	5/15/2030	8.50	Fixed Income	170,000	184,361	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Insane International Group, LLC	8/2/2030	7.75	Fixed Income	33,217	33,216	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	icahn Enterprises LP	6/15/2030	9.00	Fixed Income	30,000	31,121	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	5/15/2034	4.38	Fixed Income	630,000	670,237	0.039%
JNLFidelity Institutional Asset Management Total Bond Fund	OCF S.A.	6/23/2051	5.13	Fixed Income	110,000	91,401	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	BoJA Auto Trust 2024-1	11/15/2028	7.00	Fixed Income	235,000	240,548	0.014%
JNLFidelity Institutional Asset Management Total Bond Fund	Blue Racer Midstream, LLC	7/15/2029	7.00	Fixed Income	35,000	36,923	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	SFS Auto Receivables Securitization Trust 2024-2	11/20/2029	5.33	Fixed Income	351,000	360,992	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Organo & Co	5/14/2031	7.46	Fixed Income	159,226	159,025	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	MKS Instruments, Inc.	6/1/203					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management Total Bond Fund	Owens-Illco Glass Container Inc.	6/1/2032	7.38	Fixed Income	35,000	36,626	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	M&T Bank Corporation	4/1/2030	5.13	Fixed Income	42,000	42,443	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	DLAD 2023-1 LLC	3/22/2027	4.79	Fixed Income	300,000	301,799	0.017%
JNLFidelity Institutional Asset Management Total Bond Fund	California Resources Corporation	6/15/2029	8.25	Fixed Income	250,000	261,627	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Bombardier Inc.	6/1/2032	7.00	Fixed Income	90,000	96,156	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Citigroup Inc.	1/1/2030	7.13	Fixed Income	95,000	101,327	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	ACIUS Technologies, LLC	7/31/2035	10.69	Fixed Income	803,200	258,639	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Gates Corporation	7/1/2029	6.88	Fixed Income	110,000	116,421	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	CPI Holdco B LLC	5/10/2031	7.25	Fixed Income	125,000	124,376	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Sensata Technologies, Inc.	7/15/2032	6.63	Fixed Income	200,000	212,674	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	HTA Group Limited	8/4/2029	7.50	Fixed Income	440,000	458,149	0.026%
JNLFidelity Institutional Asset Management Total Bond Fund	BMP 2024-MF23	6/15/2026	6.69	Fixed Income	749,000	749,825	0.043%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	6.00	Fixed Income	573,977	593,415	0.034%
JNLFidelity Institutional Asset Management Total Bond Fund	Solima Bidco	2/28/2029	8.70	Fixed Income	49,875	50,291	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Staples, Inc.	9/1/2029	10.75	Fixed Income	180,000	176,576	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Sotera Health Holdings, LLC	6/1/2031	7.38	Fixed Income	70,000	74,494	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Univision Communications Inc.	7/31/2031	8.50	Fixed Income	125,000	128,371	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Episc Software Corporation	12/31/2049		Fixed Income	30,899	30,910	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Asplundh Tree Expert, LLC	5/9/2031	7.00	Fixed Income	99,650	99,710	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	BMP 2024-MF23	6/15/2026	7.16	Fixed Income	261,000	260,853	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	BMP 2024-MF23	6/15/2026	6.96	Fixed Income	370,000	369,990	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	CFMT 2024-HB13, LLC	5/25/2027	3.00	Fixed Income	457,543	439,301	0.025%
JNLFidelity Institutional Asset Management Total Bond Fund	Yinson Bortona Production B.V.	7/31/2042	8.95	Fixed Income	400,000	433,606	0.025%
JNLFidelity Institutional Asset Management Total Bond Fund	Packaging Coordinators Midco, Inc.	11/30/2027	8.58	Fixed Income	181,898	181,768	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	BCP Renaissance Parent LLC	10/31/2038	8.60	Fixed Income	125,202	125,185	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	Lorca Holdco Limited	4/1/2031	8.83	Fixed Income	49,725	49,779	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	PRPM 2024-RF2, LLC	7/25/2023	7.13	Fixed Income	771,700	748,929	0.043%
JNLFidelity Institutional Asset Management Total Bond Fund	Subway Funding LLC	7/30/2029	6.03	Fixed Income	1,683,000	1,749,320	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Subway Funding LLC	7/30/2034	6.51	Fixed Income	878,000	926,468	0.054%
JNLFidelity Institutional Asset Management Total Bond Fund	Subway Funding LLC	7/30/2031	6.27	Fixed Income	1,001,000	1,049,890	0.061%
JNLFidelity Institutional Asset Management Total Bond Fund	Byjus Alpha, Inc.	12/31/2049		Fixed Income	1,352	1,336	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	5/31/2036	4.50	Fixed Income	800,000	844,068	0.049%
JNLFidelity Institutional Asset Management Total Bond Fund	Treasury, United States Department of	5/15/2044	4.63	Fixed Income	1,330,000	1,433,034	0.083%
JNLFidelity Institutional Asset Management Total Bond Fund	Carnival Corporation	8/9/2027	8.00	Fixed Income	101,525	101,704	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Fortress Transportation And Infrastructure Investors LLC	6/15/2032	7.00	Fixed Income	40,000	42,795	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2036	1.50	Fixed Income	48,047	49,093	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2036	1.50	Fixed Income	35,905	32,221	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	1.50	Fixed Income	47,508	42,560	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2036	1.50	Fixed Income	46,221	41,407	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	1.50	Fixed Income	34,133	30,756	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2036	1.50	Fixed Income	40,705	36,466	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2036	1.50	Fixed Income	45,629	40,877	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	1.50	Fixed Income	23,298	20,945	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	4/1/2036	1.50	Fixed Income	40,676	36,405	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2036	1.50	Fixed Income	33,479	30,045	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2036	1.50	Fixed Income	50,811	45,519	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	1.50	Fixed Income	49,561	44,399	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2036	1.50	Fixed Income	47,900	42,610	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	12/1/2035	1.50	Fixed Income	16,379	14,724	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2035	1.50	Fixed Income	16,348	14,696	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2036	1.50	Fixed Income	29,732	26,635	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2036	1.50	Fixed Income	43,736	39,429	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2036	1.50	Fixed Income	49,192	44,069	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	3/1/2036	1.50	Fixed Income	16,929	15,166	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2035	1.50	Fixed Income	56,783	51,046	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	5/1/2036	1.50	Fixed Income	24,188	21,668	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	PRF Fleet Lease Trust 2024-B	2/1/2037	5.54	Fixed Income	280,000	285,847	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Grupo Kuo, S.A.B. De C.V.	7/7/2027	5.75	Fixed Income	140,000	139,615	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	McAfee, LLC	3/1/2029	8.45	Fixed Income	376,853	376,859	0.022%
JNLFidelity Institutional Asset Management Total Bond Fund	Acurelle, LLC	6/15/2029	8.50	Fixed Income	45,000	48,127	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	ECL Entertainment, LLC	8/31/2030	9.50	Fixed Income	59,501	59,649	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Acurelle, LLC	11/6/2030	7.50	Fixed Income	45,000	47,291	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Sotera Health Holdings, LLC	5/30/2031	8.50	Fixed Income	90,000	89,683	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Maximus, Inc.	5/21/2031	7.25	Fixed Income	44,888	45,008	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2033	2.50	Fixed Income	4,24,635	4,091,486	0.025%
JNLFidelity Institutional Asset Management Total Bond Fund	Episc Software Corporation	5/23/2031	8.50	Fixed Income	263,351	263,499	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Affirm Asset Securitization Trust 2024-A	2/15/2029	5.61	Fixed Income	300,000	304,122	0.018%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Serbia	6/12/2034	6.00	Fixed Income	200,000	209,391	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Restaurant Brands International Limited Partnership	10/1/2036	6.13	Fixed Income	109,000	109,123	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Hamilton Projects Acquiror, LLC	5/22/2031	9.00	Fixed Income	50,000	50,313	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	AASET 2024-1	5/16/2031	6.26	Fixed Income	739,537	780,851	0.045%
JNLFidelity Institutional Asset Management Total Bond Fund	Olympus Water US Holding Corporation	6/15/2031	7.25	Fixed Income	200,000	212,163	0.012%
JNLFidelity Institutional Asset Management Total Bond Fund	Windsor Holdco Corp.	4/1/2032	6.63	Fixed Income	185,000	186,023	0.011%
JNLFidelity Institutional Asset Management Total Bond Fund	Howard Midstream Energy Partners, LLC	7/15/2032	7.38	Fixed Income	60,000	63,400	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Cogent Communications Group, LLC	6/15/2027	7.00	Fixed Income	155,000	160,884	0.009%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2054	6.50	Fixed Income	396,396	411,393	0.024%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2054	6.00	Fixed Income	1,131,577	1,184,440	0.070%
JNLFidelity Institutional Asset Management Total Bond Fund	Michell International, Inc.	6/5/2031	8.50	Fixed Income	170,000	167,390	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Merchants Fleet Funding LLC	8/20/2027	5.82	Fixed Income	632,324	632,324	0.037%
JNLFidelity Institutional Asset Management Total Bond Fund	VFH Parent LLC	6/15/2031	7.50	Fixed Income	105,000	112,444	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Plexera Software LLC	3/30/2028	193.139	Fixed Income	193,139	180,628	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Project Alpha Intermediate Holding, Inc.	10/28/2030	9.00	Fixed Income	228,850	232,771	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Zambia	12/31/2053	0.50	Fixed Income	13,834	6,813	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Government of the Republic of Zambia	6/30/2033	0.75	Fixed Income	15,505	13,889	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Equitable Holdings, Inc.	2/15/2029	4.57	Fixed Income	257,000	257,484	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Shiner Inc.	8/15/2029	8.50	Fixed Income	40,000	38,253	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Williams Scotsman, Inc.	6/15/2029	6.63	Fixed Income	135,000	141,403	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Staples, Inc.	8/22/2029	10.69	Fixed Income	360,000	328,880	0.019%
JNLFidelity Institutional Asset Management Total Bond Fund	Broadstreet Partners, Inc.	5/10/2031	8.50	Fixed Income	172,945	172,228	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Assemark Financial Holdings, Inc.	8/2/2033	7.95	Fixed Income	165,000	165,000	0.010%
JNLFidelity Institutional Asset Management Total Bond Fund	Univision Communications Inc.	1/31/2029	8.86	Fixed Income	75,000	73,269	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Neuberger Berman Loan Advisers CLO 25 Ltd	7/18/2038	6.72	Fixed Income	965,000	985,283	0.057%
JNLFidelity Institutional Asset Management Total Bond Fund	Seagate HDD Cayman	12/15/2029	8.25	Fixed Income	65,000	72,143	0.004%
JNLFidelity Institutional Asset Management Total Bond Fund	Learning Care Group (US) No. 2 Inc.	8/11/2028	6.13	Fixed Income	98,923	100,225	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Sealed Air Corporation	7/15/2032	6.50	Fixed Income	50,000	52,401	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Wyndham Hotels & Resorts, Inc.	5/28/2030	7.00	Fixed Income	34,389	34,353	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Bleier US Bidco Inc.	9/10/2028	8.58	Fixed Income	59,850	59,876	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Staples, Inc.	11/5/2030	144.917	Fixed Income	122,000	122,047	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	ARKO Corp.	11/15/2029	5.13	Fixed Income	15,000	14,221	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	EMRLD Borrower LP	7/15/2031	6.75	Fixed Income	100,000	111,198	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Resideo Funding Inc.	5/21/2031	7.30	Fixed Income	40,000	40,633	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Harbor Freight Tools USA, Inc.	6/5/2034	9.75	Fixed Income	97,000	95,469	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Hercules Holdings S.a.r.l.	5/15/2028	4.75	Fixed Income	50,000	44,629	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Ladder Capital Finance Holdings LLC	7/15/2031	7.00	Fixed Income	90,000	96,904	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Masterbrand, Inc.	7/15/2032	7.00	Fixed Income	45,000	48,067	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Go Daddy Operating Company, LLC	5/21/2034	7.00	Fixed Income	108,049	110,762	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	PK AILE US CLO 2021-1, LTD	7/27/2033	6.71	Fixed Income	1,277,000	1,298,129	0.075%
JNLFidelity Institutional Asset Management Total Bond Fund	PK AILE US Funding 3 LP	6/15/2029	5.84	Fixed Income	246,517	252,907	0.015%
JNLFidelity Institutional Asset Management Total Bond Fund	Derby Buyer LLC	11/1/2030	8.70	Fixed Income	129,350	130,260	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Hertz Vehicle Financing B LP	7/15/2029	12.63	Fixed Income	10,000	11,234	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Inception Holdco S.a.r.l.	3/15/2031	9.93	Fixed Income	45,000	46,253	0.003%
JNLFidelity Institutional Asset Management Total Bond Fund	Energear Israel Finance Ltd	3/30/2028	5.38	Fixed Income	40,000	35,929	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	White Cap Buyer LLC	10/19/2029	8.50	Fixed Income	84,619	83,962	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	TF Holdings, LLC	6/20/2031	9.00	Fixed Income	90,000	90,021	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Oxylen ES CLO Ltd	7/15/2037	6.66	Fixed Income	1,016,000	1,031,811	0.060%
JNLFidelity Institutional Asset Management Total Bond Fund	Ion Trading Technologies S.a.r.l.	6/30/2027	9.02	Fixed Income	94,324	95,301	0.006%
JNLFidelity Institutional Asset Management Total Bond Fund	Vale Overseas Ltd	6/28/2054	6.40	Fixed Income	125,000	133,820	0.008%
JNLFidelity Institutional Asset Management Total Bond Fund	Bakelite US Holdco, Inc.	5/29/2029	8.83	Fixed Income	113,250	113,455	0.007%
JNLFidelity Institutional Asset Management Total Bond Fund	IBM Acquisition LLC	8/6/2031	9.97	Fixed Income	384,255	388,277	0.022%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2047	3.50	Fixed Income	472,037	451,112	0.026%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	1/1/2048	3.50	Fixed Income	484,483	462,704	0.027%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2047	3.50	Fixed Income	26,162	24,986	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2047	3.50	Fixed Income	374,500	356,025	0.021%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2047	3.50	Fixed Income	97,768	93,403	0.005%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2047	3.50	Fixed Income	30,150	28,823	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2047	3.50	Fixed Income	293,978	280,947	0.016%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2047	3.50	Fixed Income	5,417	5,128	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2047	3.50	Fixed Income	6,233	5,957	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2047	3.50	Fixed Income	7,575	7,239	0.000%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2047	3.50	Fixed Income	43,758	41,818	0.002%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2047	3.50	Fixed Income	14,200	13,572	0.001%
JNLFidelity Institutional Asset Management Total Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2047	3.50	Fixed Income	242,628	231,949	0.013%
JNLFidelity Institutional Asset Management Total Bond Fund	Cruise Yacht Upper Holdco Ltd	7/5/2028	11.88</				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management® Total Bond Fund	Optics BidCo S.p.A.	11/15/2033	6.38	Fixed Income	225,000	238,336	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/10/2054	6.00	Fixed Income	880,167	928,686	0.054%
JNLFidelity Institutional Asset Management® Total Bond Fund	1011778 B.C. Unlimited Liability Company	9/23/2030	7.00	Fixed Income	230,020	227,516	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Bank Gospodarskwa Krajowe	7/9/2054	6.25	Fixed Income	200,000	218,622	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/10/2054	6.00	Fixed Income	1,068,560	1,103,411	0.064%
JNLFidelity Institutional Asset Management® Total Bond Fund	Darktrace PLC	12/31/2049		Fixed Income	265,000	280,620	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Darktrace PLC	12/31/2049		Fixed Income	105,000	102,310	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/10/2054	6.50	Fixed Income	486,706	505,120	0.029%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	6/1/2054	5.50	Fixed Income	789,729	803,371	0.046%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/10/2054	6.00	Fixed Income	682,231	701,924	0.041%
JNLFidelity Institutional Asset Management® Total Bond Fund	Waterbridge Midstream Operating LLC	6/22/2029	9.00	Fixed Income	99,000	99,997	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Modivcare Inc.	6/17/2031	10.08	Fixed Income	80,000	77,372	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Project Boost Purchaser, LLC	7/2/2031	8.79	Fixed Income	123,198	124,681	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Bulldog Purchaser Inc.	6/13/2032	12.07	Fixed Income	15,000	15,306	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/10/2043	3.50	Fixed Income	134,689	129,797	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2042	3.50	Fixed Income	194,593	187,476	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	7/10/2047	3.50	Fixed Income	259,991	249,184	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	AMCO CLO 17 Ltd	7/20/2037	6.63	Fixed Income	1,099,450	1,117,029	0.065%
JNLFidelity Institutional Asset Management® Total Bond Fund	Saudi Arabian Oil Company	7/17/2064	5.88	Fixed Income	200,000	204,181	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	PRPM 2024-RCFA, LLC	7/25/2028	4.00	Fixed Income	187,233	183,147	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Kronos Acquisition Holdings Inc.	6/27/2031	9.31	Fixed Income	183,149	171,529	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	TriPAdvisor Inc.	7/1/2031	8.00	Fixed Income	95,000	94,822	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Allegro CLO X8 Ltd.	7/21/2037	6.72	Fixed Income	1,461,000	1,481,439	0.086%
JNLFidelity Institutional Asset Management® Total Bond Fund	OHA Credit Funding 13 Ltd	7/20/2037	6.64	Fixed Income	1,592,000	1,619,349	0.094%
JNLFidelity Institutional Asset Management® Total Bond Fund	Broadstreet Partners, Inc.	5/10/2031	8.50	Fixed Income	17,703	17,630	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cano Health, Inc.			Equity	14,652	180,073	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cano Health, Inc.	6/28/2029	3.00	Fixed Income	610	2,138	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cano Health LLC	6/28/2029	13.34	Fixed Income	85,934	85,537	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gen Digital Inc.	1/28/2029	7.00	Fixed Income	343,737	342,645	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cloud Software Group, Inc.	3/30/2029	9.33	Fixed Income	410,504	408,591	0.024%
JNLFidelity Institutional Asset Management® Total Bond Fund	Paltoir Newco LLC	12/31/2049		Fixed Income	10,000	9,813	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Acruise, LLC	11/6/2033	8.21	Fixed Income	1,047,000	1,037,893	0.060%
JNLFidelity Institutional Asset Management® Total Bond Fund	Nabors Industries, Inc.	8/15/2031	8.88	Fixed Income	55,000	53,250	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Dryden 37 Senior Loan Fund	7/18/2037	6.61	Fixed Income	1,705,000	1,730,564	0.100%
JNLFidelity Institutional Asset Management® Total Bond Fund	USL, Inc.	9/27/2030	8.08	Fixed Income	29,663	29,566	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Avirex International AB	8/11/2029	8.75	Fixed Income	43,818	43,971	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	SM Energy Company	8/1/2029	6.75	Fixed Income	20,000	20,325	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Sabert Corporation	12/10/2026	8.03	Fixed Income	124,143	124,749	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Resilios Funding Inc.	7/15/2032	6.50	Fixed Income	60,000	62,464	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	SM Energy Company	8/1/2033	7.00	Fixed Income	100,000	103,484	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Verity Group Corporation	3/2/2027	7.20	Fixed Income	187,980	189,097	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Star Holdings	8/1/2031	8.75	Fixed Income	35,000	33,882	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Amynta Agency Borrower Inc.	2/28/2028	9.00	Fixed Income	133,529	135,677	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	MFA 2024-RR1, L Trust	2/25/2066	4.25	Fixed Income	189,885	187,063	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Neon Maple US Debt Mergersub 20c	12/31/2049		Fixed Income	250,000	247,188	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Venture Global LNG, Inc.	1/15/2030	7.00	Fixed Income	10,000	10,394	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Corporation De Securite Garda World	8/1/2032	8.25	Fixed Income	55,000	57,169	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wells Fargo & Company	1/1/2030	6.95	Fixed Income	90,000	94,731	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	GEO Group, Inc., The	4/15/2029	8.63	Fixed Income	130,000	140,240	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	GEO Group, Inc., The	4/15/2031	10.25	Fixed Income	135,000	150,366	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Eaton Vance CLO 2020-1, Ltd.	10/15/2037	6.50	Fixed Income	1,146,000	1,162,716	0.067%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2052	3.00	Fixed Income	176,250	179,542	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	2/1/2052	3.00	Fixed Income	777,948	704,660	0.041%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2052	3.00	Fixed Income	105,695	95,377	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2052	3.00	Fixed Income	53,436	48,369	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	3.00	Fixed Income	207,223	187,572	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	USA Auto Owner Trust 2024-A	3/15/2028	9.33	Fixed Income	500,000	508,230	0.029%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hightower Holdings LLC	1/31/2030	9.13	Fixed Income	180,000	190,578	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	City Football Group Limited	7/21/2030	7.97	Fixed Income	751,699	747,014	0.043%
JNLFidelity Institutional Asset Management® Total Bond Fund	Empresa Nacional del Petroleo	7/30/2034	5.95	Fixed Income	200,000	212,137	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Seplat Energy PLC	4/1/2029	7.75	Fixed Income	28,000	28,971	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	10/1/2051	3.00	Fixed Income	135,258	122,516	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Da Vinci Purchaser Corp.	12/10/2026	8.75	Fixed Income	45,319	45,301	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	1/2/2051	3.00	Fixed Income	151,318	137,063	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cyberdale Acquisition Holdings, Inc.	1/15/2030	7.88	Fixed Income	100,000	103,484	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	EOT Trust 2024-EXTR	8/7/2029	3.33	Fixed Income	921,000	944,658	0.055%
JNLFidelity Institutional Asset Management® Total Bond Fund	Blueberry Park CLO, Ltd.	10/20/2037	6.28	Fixed Income	1,264,000	1,272,229	0.074%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hawaiian Bank Intellectual Property, Ltd.	4/15/2029	11.00	Fixed Income	148,500	152,028	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Acura Finance US, Inc.	8/1/2029	9.00	Fixed Income	186,000	188,242	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Homesave USA Holding Corp.	10/21/2030	7.21	Fixed Income	154,225	154,180	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Project Boost Purchaser, LLC	7/2/2032	10.53	Fixed Income	35,000	35,684	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Royal Caribbean Cruises Ltd.	2/1/2033	6.00	Fixed Income	180,000	185,999	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Premier Resources Operating, LLC	9/1/2033	6.25	Fixed Income	40,000	40,000	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Jones Desai's Insurance Management Inc.	12/15/2030	10.50	Fixed Income	20,000	22,391	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Amazon	12/31/2049		Fixed Income	370,000	368,613	0.021%
JNLFidelity Institutional Asset Management® Total Bond Fund	Amerium Escrow Corp.	8/1/2032	7.26	Fixed Income	105,000	110,571	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	BMO 2024-ACS Mortgage Trust	8/17/2024	5.86	Fixed Income	200,000	210,866	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Clarks Global LP	5/6/2030	7.75	Fixed Income	214,388	214,208	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	NGP XI Midstream Holdings LLC	7/25/2031	9.28	Fixed Income	60,000	59,939	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Amco CLO 11 Ltd	7/17/2037	6.58	Fixed Income	969,000	977,019	0.056%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wells Fargo Commercial Mortgage Securities, Inc.	8/15/2026	7.25	Fixed Income	800,000	800,184	0.048%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wells Fargo Commercial Mortgage Securities, Inc.	8/15/2028	6.95	Fixed Income	600,000	600,308	0.035%
JNLFidelity Institutional Asset Management® Total Bond Fund	CHG Healthcare Services Inc.	9/29/2028	8.86	Fixed Income	69,690	69,774	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Aetreo Group, Inc.	8/9/2030	9.25	Fixed Income	222,479	217,744	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Plano HoloCo, Inc.	12/31/2049		Fixed Income	65,000	65,000	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	High Tower Holdings LLC	4/21/2029	8.75	Fixed Income	170,029	171,029	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	HUB International Limited	6/19/2030	8.26	Fixed Income	798,972	800,075	0.046%
JNLFidelity Institutional Asset Management® Total Bond Fund	WH Borrower, LLC	2/15/2027	10.79	Fixed Income	65,451	66,778	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	NEXUS Buyer LLC	7/18/2031	9.25	Fixed Income	312,229	309,427	0.018%
JNLFidelity Institutional Asset Management® Total Bond Fund	DL LTV 2024-1 LLC	8/21/2028	6.00	Fixed Income	680,000	680,000	0.038%
JNLFidelity Institutional Asset Management® Total Bond Fund	Surgey Center Holdings, Inc.	12/5/2030	7.67	Fixed Income	135,716	135,967	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Insulet Corporation	7/31/2031	7.75	Fixed Income	320,000	321,166	0.019%
JNLFidelity Institutional Asset Management® Total Bond Fund	Lightning Power LLC	8/15/2032	7.25	Fixed Income	85,000	90,020	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2054	6.00	Fixed Income	1,386,203	1,426,218	0.082%
JNLFidelity Institutional Asset Management® Total Bond Fund	Covanta Holding Corporation	11/16/2028	7.75	Fixed Income	1,827	1,827	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Walgreens Boots Alliance, Inc.	8/15/2029	6.13	Fixed Income	60,000	60,558	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	COP HoloCo LP	12/31/2030	7.58	Fixed Income	504,592	539,739	0.031%
JNLFidelity Institutional Asset Management® Total Bond Fund	Berlin Packaging LLC	5/9/2031	9.17	Fixed Income	41,477	41,721	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Berlin Packaging LLC	5/9/2031	9.08	Fixed Income	30,769	30,744	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Berlin Packaging LLC	5/9/2031	9.08	Fixed Income	80,000	799	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Davita Inc.	9/1/2032	6.88	Fixed Income	150,000	156,343	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Pretzel Holdings, Inc.	3/1/2033	6.38	Fixed Income	90,000	92,121	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Treasury, United States Department of	8/15/2034	3.88	Fixed Income	8,000,000	8,094,592	0.468%
JNLFidelity Institutional Asset Management® Total Bond Fund	Jones Desai's Insurance Management Inc.	3/15/2030	8.35	Fixed Income	129,525	130,295	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Global Aviation Leasing Co., Ltd.	9/1/2027	8.75	Fixed Income	100,000	102,334	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Parkland Corporation	8/15/2028	6.63	Fixed Income	55,000	56,298	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Moex Creek Resources Holdings, Inc.	8/1/2031	8.25	Fixed Income	65,000	64,869	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Shift Payments, LLC	8/15/2032	6.75	Fixed Income	60,000	63,211	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Archrock Partners, L.P.	9/1/2032	6.63	Fixed Income	90,000	92,975	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	ASG Intermediate Holdings 2 LLC	12/21/2028	8.00	Fixed Income	912,199	912,714	0.053%
JNLFidelity Institutional Asset Management® Total Bond Fund	Benchmark 2024-V9 Mortgage Trust	8/1/2029	5.60	Fixed Income	500,000	520,911	0.030%
JNLFidelity Institutional Asset Management® Total Bond Fund	Roper Industrial Products Investment Company LLC	11/22/2029	8.58	Fixed Income	63,931	64,036	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	JetBlue Airways Corporation	9/20/2031	9.88	Fixed Income	100,000	106,259	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Arccos, Inc.	12/31/2049		Fixed Income	175,000	174,563	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Verizon Communications Inc.	2/15/2035	4.78	Fixed Income	170,000	180,065	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wheels Fleet Lease Funding 1 LLC	2/18/2028	4.87	Fixed Income	922,000	931,974	0.054%
JNLFidelity Institutional Asset Management® Total Bond Fund	Magnetite Xox Ltd	7/15/2037	6.43	Fixed Income	1,150,000	1,150,579	0.067%
JNLFidelity Institutional Asset Management® Total Bond Fund	OneMain Finance Corporation	11/15/2031	7.13	Fixed Income	100,000	102,072	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Pretzel Parent Inc.	12/31/2049		Fixed Income	55,000	55,969	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wand NewCo 3, Inc.	1/30/2031	8.50	Fixed Income	140,000	139,793	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Light and Wonder International, Inc.	4/19/2029	7.33	Fixed Income	185,560	185,757	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Boost News Borrower, LLC	1/31/2031	7.75	Fixed Income	685,000	684,847	0.040%
JNLFidelity Institutional Asset Management® Total Bond Fund	Graham Packaging Corporation	8/4/2027	7.78	Fixed Income	169,638	169,125	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	US Radiology Specialists, Inc.	5/10/2028	1.00	Fixed Income	62,602	62,604	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CHG Healthcare Services Inc.	9/29/2028	8.86	Fixed Income	4,822	4,828	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Prime Healthcare Services, Inc.	9/1/2029	9.38	Fixed Income	45,000	46,746	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	CFM 2024-HBLS, LLC	8/25/2027	4.00	Fixed Income	250,791	246,713	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Lightning Power LLC	8/8/2031	8.35	Fixed Income	190,000	192,226	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Varsity Brands, Inc.	7/30/2031	8.82	Fixed Income	215,000	214,592	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	LSF11 Trinity Btco, Inc.	6/14/2030	8.42				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management® Total Bond Fund	Treasury, United States Department of	8/31/2029	3.63	Fixed Income	23,000,000	23,143,273	1.537%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2030	3.75	Fixed Income	20,625	20,625	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Treasury, United States Department of	8/31/2031	3.75	Fixed Income	33,000,000	33,281,286	1.923%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2034	1.75	Fixed Income	174,936	77,915	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2034	1.75	Fixed Income	114,445	38,053	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2035	1.75	Fixed Income	166,714	72,104	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2035	1.75	Fixed Income	80,595	34,851	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Restaurant Brands International Limited Partnership	9/15/2029	5.63	Fixed Income	275,000	279,705	0.016%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2035	1.75	Fixed Income	101,048	44,248	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Cabinet of Ministers of Ukraine	2/1/2036	1.75	Fixed Income	75,082	32,690	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Banco de Credito del Peru	3/10/2035	5.80	Fixed Income	115,200	149,366	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	8/1/2054	5.50	Fixed Income	399,809	413,300	0.024%
JNLFidelity Institutional Asset Management® Total Bond Fund	ADNOC Murban RSC Ltd.	9/11/2054	5.13	Fixed Income	200,000	197,002	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	HF Sinclair Corporation	2/1/2028	5.00	Fixed Income	230,000	230,430	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Uber Technologies, Inc.	1/15/2030	4.30	Fixed Income	45,000	44,931	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Performance Food Group, Inc.	9/15/2032	6.13	Fixed Income	145,000	148,764	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Deutsche Bank Aktiengesellschaft	9/11/2030	5.00	Fixed Income	5,000,000	5,037,404	0.291%
JNLFidelity Institutional Asset Management® Total Bond Fund	Uber Technologies, Inc.	9/15/2034	4.80	Fixed Income	45,000	45,018	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ahead DB Holdings, LLC	1/24/2031	8.90	Fixed Income	74,763	74,823	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2053	4.00	Fixed Income	740,253	720,977	0.042%
JNLFidelity Institutional Asset Management® Total Bond Fund	TransDigm Inc.	1/15/2033	6.00	Fixed Income	50,000	50,808	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	JPMoB Commercial Mortgage Securities Trust 2016-C4	6/1/2026	2.99	Fixed Income	46,970	46,310	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Bank 2017-BVKS	7/17/2026	1.29	Fixed Income	49,347	49,973	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	11/1/2048	3.50	Fixed Income	2,079,097	1,981,088	0.114%
JNLFidelity Institutional Asset Management® Total Bond Fund	Hilton Domestic Operating Company Inc.	3/15/2033	5.88	Fixed Income	50,000	51,127	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Subway Funding LLC	7/30/2029	5.25	Fixed Income	1,249,000	1,252,884	0.072%
JNLFidelity Institutional Asset Management® Total Bond Fund	Solar LNG Limited	9/19/2029	7.75	Fixed Income	200,000	200,184	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Subway Funding LLC	7/30/2029	5.57	Fixed Income	591,000	593,592	0.034%
JNLFidelity Institutional Asset Management® Total Bond Fund	Subway Funding LLC	7/30/2029	5.91	Fixed Income	1,198,000	1,197,768	0.069%
JNLFidelity Institutional Asset Management® Total Bond Fund	Only Loan Investment Trust 2024-HB2	8/25/2027	5.00	Fixed Income	217,805	217,159	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	P&G Corporation	3/15/2055	7.38	Fixed Income	82,308	86,451	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Polaris News LLC	6/4/2030	14.16	Fixed Income	50,000	48,485	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	TernioCandelaria Power SA	9/17/2031	7.75	Fixed Income	20,000	205,719	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Fiesta Purchaser Inc.	9/15/2032	9.63	Fixed Income	50,000	51,987	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	ONEOK, Inc.	9/24/2027	4.25	Fixed Income	338,000	338,446	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2054	6.00	Fixed Income	1,524,200	1,568,205	0.091%
JNLFidelity Institutional Asset Management® Total Bond Fund	Federal National Mortgage Association, Inc.	9/1/2054	5.50	Fixed Income	500,182	508,822	0.029%
JNLFidelity Institutional Asset Management® Total Bond Fund	Volvo Financial Equipment LLC Series 2024-1	10/16/2028	4.29	Fixed Income	266,000	267,181	0.015%
JNLFidelity Institutional Asset Management® Total Bond Fund	ONEOK, Inc.	10/15/2029	4.40	Fixed Income	353,000	351,779	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	ONEOK, Inc.	10/15/2031	4.75	Fixed Income	680,000	690,913	0.040%
JNLFidelity Institutional Asset Management® Total Bond Fund	Focus Financial Partners Inc.	12/31/2049		Fixed Income	288,964	288,008	0.017%
JNLFidelity Institutional Asset Management® Total Bond Fund	Focus Financial Partners Inc.	12/31/2049		Fixed Income	31,036	30,933	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Kosmos Energy Ltd.	10/1/2031	8.75	Fixed Income	480,000	475,050	0.027%
JNLFidelity Institutional Asset Management® Total Bond Fund	Volcan Cometa Minería S.A.A.	1/24/2030	7.58	Fixed Income	121,000	105,518	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Avist Budget Car Rental, LLC	1/15/2030	8.25	Fixed Income	20,000	20,546	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	IVC Acquisition Ltd	11/16/2028	10.08	Fixed Income	164,114	164,367	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Harboursview Partners, LLC	4/22/2030	7.60	Fixed Income	220,820	220,310	0.013%
JNLFidelity Institutional Asset Management® Total Bond Fund	Fleet Mico Limited	7/18/2030	7.58	Fixed Income	77,704	77,871	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Service Corporation International	10/15/2032	5.75	Fixed Income	45,000	45,392	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	MKS Instruments, Inc.	8/17/2029	7.17	Fixed Income	215,692	215,820	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	GGAM Financial Inc.	3/15/2030	5.88	Fixed Income	100,000	100,407	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alliant Holdings Intermediate, LLC	9/19/2031	6.50	Fixed Income	20,000	20,277	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Compress NV	9/15/2032	7.38	Fixed Income	150,000	151,499	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alliant Holdings Intermediate, LLC	10/1/2032	7.38	Fixed Income	70,000	71,196	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	Rockpoint Gas Storage Partners LP	12/31/2049		Fixed Income	150,000	149,250	0.009%
JNLFidelity Institutional Asset Management® Total Bond Fund	Jazz Financing Lux S.a.r.l.	5/5/2028	7.50	Fixed Income	480,734	480,734	0.028%
JNLFidelity Institutional Asset Management® Total Bond Fund	TTM Technologies, Inc.	5/23/2030	7.45	Fixed Income	103,100	103,404	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Royal Caribbean Cruises Ltd.	9/30/2031	5.63	Fixed Income	95,000	96,301	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	USALCO	12/31/2049		Fixed Income	72,527	72,709	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	USALCO	12/31/2049		Fixed Income	7,473	7,491	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	RAH Group Holding Company LLC	10/1/2031	9.75	Fixed Income	185,032	186,812	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	Help At Home, Inc.	12/31/2049		Fixed Income	245,000	241,479	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Mercedes-Benz Auto Lease Trust 2024-B	4/15/2027	4.23	Fixed Income	500,000	499,642	0.029%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ar Lease Corporation	1/1/2200	6.00	Fixed Income	10,000	9,929	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Aethon United RP LP	10/1/2029	7.50	Fixed Income	140,000	140,000	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alpha Generation LLC	12/31/2049		Fixed Income	130,000	129,977	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	Madison Supply & Flow	12/31/2049		Fixed Income	40,000	39,950	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alpha Generation LLC	10/15/2032	6.75	Fixed Income	10,000	111,665	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Murphy Oil Corporation	10/1/2033	6.00	Fixed Income	30,000	30,277	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Eaton Vance CLO 2020-2 Ltd	10/15/2037		Fixed Income	1,020,000	1,020,181	0.059%
JNLFidelity Institutional Asset Management® Total Bond Fund	Gilman Sachs Group, Inc., The	1/1/2200	6.13	Fixed Income	45,000	45,313	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Matador Resources Company	4/15/2033	6.25	Fixed Income	50,000	49,308	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Path City Holdings Inc.			Equity	0	0	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Wayfair LLC	10/31/2029	7.25	Fixed Income	100,000	102,422	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	MATIV Holdings, Inc.	10/1/2029	8.00	Fixed Income	50,000	50,944	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Dragon Buyer Inc	12/31/2049		Fixed Income	90,000	89,573	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	TransDigm, Inc.	9/5/2032	7.32	Fixed Income	125,000	124,631	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Abu Dhabi Developmental Holding Company PJSC	10/2/2054	5.25	Fixed Income	200,000	197,317	0.011%
JNLFidelity Institutional Asset Management® Total Bond Fund	DG Investment Intermediate Holdings 2 Inc	12/31/2049		Fixed Income	7,068	7,038	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Asurion LLC	9/12/2030	9.21	Fixed Income	125,000	122,688	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Raising Cane's Restaurants, LLC	9/10/2031	7.01	Fixed Income	25,000	25,014	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Sabre International Finance Limited	10/15/2032	7.13	Fixed Income	400,000	400,745	0.023%
JNLFidelity Institutional Asset Management® Total Bond Fund	Post Holdings, Inc.	10/15/2034	6.25	Fixed Income	50,000	50,394	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	Kingston Airport Revenue Finance Ltd.	12/15/2036	6.75	Fixed Income	200,000	207,387	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ameri Rock Salt Co LLC	12/31/2049		Fixed Income	10,901	10,792	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Ameri Rock Salt Co LLC	12/31/2049		Fixed Income	10,190	10,190	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Starwood Property Trust, Inc.	4/15/2030	6.00	Fixed Income	85,000	85,023	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Windsor Holdings III, LLC	8/1/2030	8.46	Fixed Income	9,541	9,582	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Crown Subsea Communications Holding, Inc.	1/30/2031	9.25	Fixed Income	245,375	250,615	0.014%
JNLFidelity Institutional Asset Management® Total Bond Fund	Windstream Services, LLC	10/1/2033	8.25	Fixed Income	40,000	40,000	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	LD Celulose International GmbH	1/26/2032	7.95	Fixed Income	200,000	205,149	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	Niagara Energy S.A.C	10/3/2034	5.75	Fixed Income	200,000	200,850	0.012%
JNLFidelity Institutional Asset Management® Total Bond Fund	AMCO CLO 19 Ltd	10/20/2037		Fixed Income	340,000	340,000	0.020%
JNLFidelity Institutional Asset Management® Total Bond Fund	Windstream Services LLC	12/31/2049		Fixed Income	175,000	175,000	0.010%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. Foods Inc.	4/15/2033	5.75	Fixed Income	80,000	80,099	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Dave & Buster's	12/31/2049		Fixed Income	110,000	108,900	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Alliant Holdings LP	12/31/2199	8.00	Fixed Income	46,000	46,393	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	EchoStar Corporation	9/27/2029	2.25	Fixed Income	1,067,220	1,036,719	0.061%
JNLFidelity Institutional Asset Management® Total Bond Fund	Treasury, United States Department of	9/30/2031	3.63	Fixed Income	10,370,000	10,348,936	0.598%
JNLFidelity Institutional Asset Management® Total Bond Fund	Tere Corporation	10/15/2032	6.25	Fixed Income	35,000	35,000	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Fortress Transportation And Infrastructure Investors LLC	4/15/2033	5.88	Fixed Income	10,000	9,950	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Transmontaigne Partners LLC	2/15/2026	6.13	Fixed Income	13,000	12,780	0.001%
Total Non Derivatives						1,728,732,750	
Derivatives							
JNLFidelity Institutional Asset Management® Total Bond Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	869	10,796	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	16,810,000	48,084	0.003%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	284,000	1,900	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	18,122,000	76,711	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,569,000	8,150	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	9,549,000	88,610	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,199,000	69,088	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.13 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	970,000	5,542	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	70,000	10,900	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	140,000	21,801	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	80,000	12,458	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	30,000	4,672	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.13 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	-970,000	(5,542)	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	80,000	12,458	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	180,000	29,587	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	400,000	62,288	0.004%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	270,000	42,044	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	50,000	7,786	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	21,000	3,276	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	50,000	7,786	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	200,000	31,144	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	100,000	15,572	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	100,000	17,786	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	100,000	15,572	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	150,000	23,358	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	110,000	17,129	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-16 CREDIT DEFAULT SWAP-ABXICMBX SWAP INDEX			Derivative	60,000	9,400	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	600,000	29,030	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	2,000,000	115,313	0.007%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	2,000,000	18,887	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-300,000	(6,198)	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-700,000	(14,462)	-0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.BBB-17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	100,000	11,706	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-1,900,000	(39,254)	-0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.16 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-1,500,000	(23,433)	-0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	2,900,000	101,835	0.006%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	2,900,000	87,468	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	800,000	27,262	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	800,000	21,065	0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-300,000	(6,198)	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.16 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-300,000	(4,687)	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	1,200,000	37,944	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	1,200,000	40,098	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-500,000	(10,330)	-0.001%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	3,700,000	91,144	0.005%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	3,700,000	138,518	0.008%
JNLFidelity Institutional Asset Management® Total Bond Fund	CMBX.NA.AAA.17 CREDIT DEFAULT SWAP-ABX/CMBX SWAP INDEX			Derivative	-400,000	(8,264)	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	1,000,000	25,972	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	1,000,000	36,373	0.002%
JNLFidelity Institutional Asset Management® Total Bond Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-14	8,044	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	4	(1,303)	0.000%
JNLFidelity Institutional Asset Management® Total Bond Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	12	(11,831)	-0.001%
Total Derivatives						1,992,452	
Total All Investments						1,730,725,262	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLFirst Sentier Global Infrastructure Fund	Cash			Cash Equivalent	342,252	342,252	0.060%
JNLFirst Sentier Global Infrastructure Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	5,046,500	5,061,560	0.893%
JNLFirst Sentier Global Infrastructure Fund	DT Midstream, Inc.			Equity	108,087	8,594,116	1.516%
JNLFirst Sentier Global Infrastructure Fund	The AES Corporation			Equity	461,748	9,262,665	1.633%
JNLFirst Sentier Global Infrastructure Fund	American Electric Power Company, Inc.			Equity	275,241	28,239,727	4.980%
JNLFirst Sentier Global Infrastructure Fund	SSE PLC			Equity	111,579	2,810,456	0.496%
JNLFirst Sentier Global Infrastructure Fund	NextEra Energy, Inc.			Equity	410,774	34,722,726	6.123%
JNLFirst Sentier Global Infrastructure Fund	Promotora y Operadora de Infraestructura, S.A.B. de C.V.			Equity	930,216	8,818,391	1.555%
JNLFirst Sentier Global Infrastructure Fund	XCEL Energy Inc.			Equity	275,973	18,172,132	3.205%
JNLFirst Sentier Global Infrastructure Fund	Evelon Corporation			Equity	327,929	13,297,521	2.345%
JNLFirst Sentier Global Infrastructure Fund	Grupo Aeroportuario del Sureste, S.A.B. de C.V.			Equity	401,636	11,349,634	2.002%
JNLFirst Sentier Global Infrastructure Fund	Norfolk Southern Corporation			Equity	59,821	14,865,519	2.622%
JNLFirst Sentier Global Infrastructure Fund	Dominion Energy, Inc.			Equity	323,275	18,662,062	3.295%
JNLFirst Sentier Global Infrastructure Fund	Cheniere Energy, Inc.			Equity	139,015	25,000,458	4.400%
JNLFirst Sentier Global Infrastructure Fund	CCR S.A.			Equity	5,446,500	12,247,302	2.160%
JNLFirst Sentier Global Infrastructure Fund	Union Pacific Corporation			Equity	104,904	25,856,738	4.560%
JNLFirst Sentier Global Infrastructure Fund	Alliant Energy Corporation			Equity	142,954	8,651,602	1.526%
JNLFirst Sentier Global Infrastructure Fund	UGI Corporation			Equity	345,691	8,781,165	1.540%
JNLFirst Sentier Global Infrastructure Fund	Japan Airport Terminal Co., Ltd.			Equity	141,200	5,116,306	0.902%
JNLFirst Sentier Global Infrastructure Fund	Beijing Capital International Airport Co., Ltd.			Equity	13,068,000	4,840,473	0.854%
JNLFirst Sentier Global Infrastructure Fund	ENN energy Holdings Limited			Equity	1,441,100	10,880,061	1.919%
JNLFirst Sentier Global Infrastructure Fund	Transurban Holdings Limited			Equity	3,129,425	28,475,164	5.022%
JNLFirst Sentier Global Infrastructure Fund	West Japan Railway Company			Equity	638,500	12,277,572	2.165%
JNLFirst Sentier Global Infrastructure Fund	Guangdong Investment Limited			Equity	4,828,000	3,217,960	0.567%
JNLFirst Sentier Global Infrastructure Fund	Severn Trent PLC			Equity	307,292	10,858,470	1.915%
JNLFirst Sentier Global Infrastructure Fund	Grupo Aeroportuario Del Pacifico, S.A.B. de C.V.			Equity	757,962	13,136,725	2.317%
JNLFirst Sentier Global Infrastructure Fund	VINCI			Equity	68,742	8,035,516	1.417%
JNLFirst Sentier Global Infrastructure Fund	Getlink S.E			Equity	942,820	16,825,374	2.967%
JNLFirst Sentier Global Infrastructure Fund	Targa Resources Corp.			Equity	66,284	9,810,695	1.730%
JNLFirst Sentier Global Infrastructure Fund	Allacres Ltd.			Equity	304,200	7,530,494	1.328%
JNLFirst Sentier Global Infrastructure Fund	Duke Energy Corporation			Equity	199,833	22,925,445	4.043%
JNLFirst Sentier Global Infrastructure Fund	National Grid PLC			Equity	2,125,331	29,289,689	5.166%
JNLFirst Sentier Global Infrastructure Fund	Evergy, Inc.			Equity	176,017	10,914,814	1.925%
JNLFirst Sentier Global Infrastructure Fund	Eversource Energy			Equity	346,844	23,602,734	4.162%
JNLFirst Sentier Global Infrastructure Fund	Atlas Arteria Limited			Equity	4,344,296	15,329,041	2.703%
JNLFirst Sentier Global Infrastructure Fund	Crown Castle Inc.			Equity	9,515	1,128,764	0.199%
JNLFirst Sentier Global Infrastructure Fund	American Tower Corporation			Equity	118,044	27,452,313	4.841%
JNLFirst Sentier Global Infrastructure Fund	SBA Communications Corporation			Equity	52,488	12,633,862	2.229%
JNLFirst Sentier Global Infrastructure Fund	Flughafen Zurich AG			Equity	66,606	16,028,354	2.827%
JNLFirst Sentier Global Infrastructure Fund	Hera S.p.A.			Equity	1,687,645	6,726,027	1.186%
JNLFirst Sentier Global Infrastructure Fund	GFL Environmental Inc.			Equity	209,229	8,344,053	1.471%
JNLFirst Sentier Global Infrastructure Fund	Infrastrutture Wireless Italiane S.p.A. O, In Forma Abbreviata, Inwit S.p.A.			Equity	561,177	6,908,762	1.218%
Total Non Derivatives						567,048,694	
Derivatives							
Total Derivatives						0	
Total All Investments						567,048,694	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLFranklin Templeton Income Fund	Cash			Cash Equivalent	299.270	299.270	0.019%
JNLFranklin Templeton Income Fund	United Airlines Pass Through Trust 2020-1A	10/15/2027	5.88	Fixed Income	2,263.256	2,342.362	0.152%
JNLFranklin Templeton Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	13,798.129	13,889.974	0.901%
JNLFranklin Templeton Income Fund	Carnival Corporation	3/1/2026	7.63	Fixed Income	4,500.000	4,573.246	0.297%
JNLFranklin Templeton Income Fund	Broadcom Inc.	2/15/2031	2.45	Fixed Income	2,500.000	2,524.365	0.164%
JNLFranklin Templeton Income Fund	Community Health Systems, Inc.	4/15/2029	6.88	Fixed Income	12,847.000	12,043.151	0.781%
JNLFranklin Templeton Income Fund	Clear Channel Outdoor Holdings, Inc.	4/15/2028	7.75	Fixed Income	5,000.000	4,651.761	0.302%
JNLFranklin Templeton Income Fund	Chesapeake Energy Corporation	2/1/2029	5.88	Fixed Income	3,000.000	3,045.025	0.198%
JNLFranklin Templeton Income Fund	Alcoa Nederland Holding B.V.	3/31/2029	4.13	Fixed Income	5,000.000	4,795.505	0.311%
JNLFranklin Templeton Income Fund	American Airlines, Inc.	4/20/2026	5.80	Fixed Income	5,433.333	5,879.753	0.381%
JNLFranklin Templeton Income Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	4,000.000	4,040.457	0.262%
JNLFranklin Templeton Income Fund	T-Mobile USA, Inc.	4/15/2029	3.38	Fixed Income	6,500.000	6,334.396	0.411%
JNLFranklin Templeton Income Fund	Oracle Corporation	3/25/2031	2.88	Fixed Income	5,000.000	4,545.774	0.295%
JNLFranklin Templeton Income Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	4.63	Fixed Income	4,000.000	3,963.482	0.256%
JNLFranklin Templeton Income Fund	Community Health Systems, Inc.	4/1/2030	6.13	Fixed Income	8,000.000	7,067.341	0.458%
JNLFranklin Templeton Income Fund	Vistra Operations Company LLC	5/1/2029	4.38	Fixed Income	5,750.000	5,672.094	0.368%
JNLFranklin Templeton Income Fund	Clear Channel Outdoor Holdings, Inc.	6/1/2029	7.50	Fixed Income	2,000.000	1,710.708	0.113%
JNLFranklin Templeton Income Fund	APX Group, Inc.	7/15/2029	5.75	Fixed Income	9,000.000	9,019.127	0.585%
JNLFranklin Templeton Income Fund	A + N Real Estate & Business Management Corporation	8/15/2029	5.63	Fixed Income	3,000.000	2,926.569	0.190%
JNLFranklin Templeton Income Fund	PMG Resources (August 2006) Pty Ltd	4/1/2031	4.38	Fixed Income	3,000.000	2,865.134	0.186%
JNLFranklin Templeton Income Fund	Domoch Debt Merger Subordinated Incorporated	10/15/2029	6.63	Fixed Income	6,215.000	5,660.429	0.367%
JNLFranklin Templeton Income Fund	Mozart Debt Merger Sub Inc.	4/1/2029	3.88	Fixed Income	7,000.000	6,762.610	0.439%
JNLFranklin Templeton Income Fund	Schl Salt Holdings Inc.	5/1/2028	4.88	Fixed Income	8,000.000	7,889.518	0.512%
JNLFranklin Templeton Income Fund	Weaverford International Ltd	4/30/2030	8.63	Fixed Income	6,000.000	6,423.253	0.417%
JNLFranklin Templeton Income Fund	Ford Motor Company	2/12/2032	3.25	Fixed Income	3,500.000	2,997.338	0.194%
JNLFranklin Templeton Income Fund	MPH Acquisition Holdings LLC	9/1/2028	5.50	Fixed Income	5,000.000	5,629.710	0.359%
JNLFranklin Templeton Income Fund	Vistra Corp.	1/1/2200	7.00	Fixed Income	5,000.000	5,210.830	0.338%
JNLFranklin Templeton Income Fund	Feritta Entertainment LLC	1/15/2029	4.63	Fixed Income	3,100.000	2,989.177	0.194%
JNLFranklin Templeton Income Fund	Feritta Entertainment LLC	1/15/2030	6.75	Fixed Income	3,000.000	2,833.598	0.184%
JNLFranklin Templeton Income Fund	Calumet Specialty Products Partners, L.P.	1/15/2027	8.13	Fixed Income	3,000.000	2,874.280	0.188%
JNLFranklin Templeton Income Fund	Shell PLC			Equity	150.000	9,892.580	0.642%
JNLFranklin Templeton Income Fund	Ford Motor Credit Company LLC	5/28/2027	4.95	Fixed Income	4,000.000	4,058.101	0.263%
JNLFranklin Templeton Income Fund	Workday, Inc.	4/1/2032	3.80	Fixed Income	6,000.000	5,807.404	0.377%
JNLFranklin Templeton Income Fund	Broadcom Inc.	4/15/2032	4.15	Fixed Income	4,500.000	4,452.480	0.289%
JNLFranklin Templeton Income Fund	PMG Resources (August 2006) Pty Ltd	4/15/2030	5.88	Fixed Income	3,000.000	3,114.012	0.202%
JNLFranklin Templeton Income Fund	VICI Properties L.P.	5/15/2032	5.13	Fixed Income	4,500.000	4,614.417	0.299%
JNLFranklin Templeton Income Fund	The Goodyear Tire & Rubber Company	7/15/2029	5.00	Fixed Income	5,000.000	4,645.982	0.301%
JNLFranklin Templeton Income Fund	Treasury, United States Department of	5/15/2032	2.88	Fixed Income	90,000.000	47,824.219	3.102%
JNLFranklin Templeton Income Fund	Carnival Corporation	6/1/2030	10.50	Fixed Income	3,000.000	3,788.480	0.248%
JNLFranklin Templeton Income Fund	HP, Inc.	7/15/2033	5.50	Fixed Income	5,000.000	5,319.448	0.345%
JNLFranklin Templeton Income Fund	Celanese US Holdings LLC	7/15/2027	6.17	Fixed Income	6,000.000	6,293.702	0.408%
JNLFranklin Templeton Income Fund	Comerstone Building Brands, Inc.	9/1/2028	8.75	Fixed Income	3,500.000	3,609.191	0.234%
JNLFranklin Templeton Income Fund	Capital One Financial Corporation	7/28/2030	5.25	Fixed Income	7,500.000	7,709.823	0.501%
JNLFranklin Templeton Income Fund	Trust Financial Corporation	7/28/2033	4.92	Fixed Income	2,000.000	1,979.153	0.128%
JNLFranklin Templeton Income Fund	General Motors Company	10/15/2032	5.60	Fixed Income	2,500.000	2,649.551	0.172%
JNLFranklin Templeton Income Fund	Barclays PLC	8/9/2033	5.75	Fixed Income	8,500.000	8,938.077	0.580%
JNLFranklin Templeton Income Fund	Treasury, United States Department of	8/15/2032	2.75	Fixed Income	30,000.000	78,141.393	1.850%
JNLFranklin Templeton Income Fund	Treasury, United States Department of	8/15/2042	3.38	Fixed Income	33,000.000	29,919.591	1.941%
JNLFranklin Templeton Income Fund	Lowe's Companies, Inc.	4/15/2033	5.00	Fixed Income	7,000.000	7,378.863	0.479%
JNLFranklin Templeton Income Fund	NextEra Energy, Inc.	9/1/2025	6.93	Equity	125.000	5,795.000	0.376%
JNLFranklin Templeton Income Fund	The Southern Company	10/15/2032	5.70	Fixed Income	5,000.000	5,096.496	0.357%
JNLFranklin Templeton Income Fund	Morgan Stanley	10/18/2033	6.34	Fixed Income	4,000.000	4,557.783	0.296%
JNLFranklin Templeton Income Fund	U.S. Bancorp	10/21/2033	5.85	Fixed Income	4,500.000	4,918.325	0.319%
JNLFranklin Templeton Income Fund	The PNC Financial Services Group, Inc.	10/28/2033	6.04	Fixed Income	4,000.000	4,429.390	0.287%
JNLFranklin Templeton Income Fund	Alcon Technology, Inc.	11/1/2029	6.75	Fixed Income	4,000.000	4,569.690	0.297%
JNLFranklin Templeton Income Fund	Barclays PLC	11/2/2033	7.44	Fixed Income	5,000.000	5,920.675	0.384%
JNLFranklin Templeton Income Fund	Haleon US Capital LLC	3/24/2032	3.63	Fixed Income	4,250.000	3,998.440	0.259%
JNLFranklin Templeton Income Fund	Oracle Corporation	11/9/2032	6.25	Fixed Income	4,000.000	4,522.609	0.293%
JNLFranklin Templeton Income Fund	Citigroup Inc.	11/17/2033	6.27	Fixed Income	10,500.000	11,784.011	0.764%
JNLFranklin Templeton Income Fund	United Rentals (North America), Inc.	12/15/2029	6.00	Fixed Income	4,000.000	4,198.122	0.272%
JNLFranklin Templeton Income Fund	KeyBank National Association	8/8/2032	4.90	Fixed Income	1,500.000	1,466.835	0.095%
JNLFranklin Templeton Income Fund	ArceclorMittal	11/29/2032	6.80	Fixed Income	6,000.000	6,834.361	0.443%
JNLFranklin Templeton Income Fund	Ford Motor Credit Company LLC	3/6/2030	7.35	Fixed Income	3,000.000	3,277.366	0.213%
JNLFranklin Templeton Income Fund	General Motors Financial Company, Inc.	1/9/2033	6.40	Fixed Income	3,000.000	3,266.468	0.212%
JNLFranklin Templeton Income Fund	Caesars Entertainment, Inc.	2/15/2030	7.00	Fixed Income	3,000.000	3,161.455	0.205%
JNLFranklin Templeton Income Fund	Verizon Communications Inc.			Equity	100.000	4,491.000	0.291%
JNLFranklin Templeton Income Fund	Comcast Corporation			Equity	278.000	11,612.060	0.753%
JNLFranklin Templeton Income Fund	Analog Devices, Inc.			Equity	35.000	8,056.950	0.523%
JNLFranklin Templeton Income Fund	Albermarle Corporation			Equity	25.000	2,377.875	0.154%
JNLFranklin Templeton Income Fund	Bristol-Myers Squibb Company			Equity	50.000	2,587.000	0.168%
JNLFranklin Templeton Income Fund	American Electric Power Company, Inc.			Equity	50.000	5,130.000	0.333%
JNLFranklin Templeton Income Fund	Novellus International Inc.			Equity	23.999	4,353.286	0.283%
JNLFranklin Templeton Income Fund	B.A.T Capital Corporation	8/15/2027	3.56	Fixed Income	10,000.000	9,984.595	0.639%
JNLFranklin Templeton Income Fund	Sempra			Equity	100.000	8,425.000	0.546%
JNLFranklin Templeton Income Fund	Air Products and Chemicals, Inc.			Equity	20.000	5,954.800	0.386%
JNLFranklin Templeton Income Fund	Home Depot, Inc., The			Equity	35.000	14,182.000	0.907%
JNLFranklin Templeton Income Fund	Cisco Systems, Inc.			Equity	285.000	15,167.700	0.984%
JNLFranklin Templeton Income Fund	Halliburton Company			Equity	80.000	2,324.000	0.151%
JNLFranklin Templeton Income Fund	Target Corporation			Equity	50.000	7,793.000	0.505%
JNLFranklin Templeton Income Fund	Fifth Third Bancorp			Equity	75.000	3,340.750	0.210%
JNLFranklin Templeton Income Fund	JP Morgan Chase & Co.			Equity	25.000	5,271.500	0.342%
JNLFranklin Templeton Income Fund	NextEra Energy, Inc.			Equity	109.309	9,239.890	0.599%
JNLFranklin Templeton Income Fund	Exxon Mobil Corporation			Equity	200.000	23,444.000	1.521%
JNLFranklin Templeton Income Fund	Coca-Cola Company, The			Equity	50.000	3,617.250	0.235%
JNLFranklin Templeton Income Fund	International Paper Company			Equity	60.000	3,175.120	0.206%
JNLFranklin Templeton Income Fund	Citigroup Inc.			Equity	75.000	4,695.000	0.305%
JNLFranklin Templeton Income Fund	Morgan Stanley			Equity	75.000	7,818.000	0.507%
JNLFranklin Templeton Income Fund	Bank of America Corporation			Equity	300.000	11,904.000	0.772%
JNLFranklin Templeton Income Fund	XCEL Energy Inc.			Equity	63.000	4,148.383	0.268%
JNLFranklin Templeton Income Fund	Johnson & Johnson			Equity	160.000	25,929.600	1.682%
JNLFranklin Templeton Income Fund	Lockheed Martin Corporation			Equity	35.000	20,459.600	1.327%
JNLFranklin Templeton Income Fund	Merck & Co., Inc.			Equity	75.000	8,543.950	0.554%
JNLFranklin Templeton Income Fund	CVS Health Corporation			Equity	100.000	8,088.000	0.489%
JNLFranklin Templeton Income Fund	McDonald's Corporation			Equity	15.000	4,567.650	0.296%
JNLFranklin Templeton Income Fund	United Parcel Service, Inc.			Equity	35.000	4,771.900	0.310%
JNLFranklin Templeton Income Fund	PepsiCo, Inc.			Equity	110.000	18,705.500	1.213%
JNLFranklin Templeton Income Fund	Newmont Corporation			Equity	74.459	3,973.349	0.258%
JNLFranklin Templeton Income Fund	ConocoPhillips			Equity	75.000	7,896.000	0.512%
JNLFranklin Templeton Income Fund	Dominion Energy, Inc.			Equity	150.001	8,668.529	0.562%
JNLFranklin Templeton Income Fund	Pfizer Inc.			Equity	469.897	13,598.819	0.882%
JNLFranklin Templeton Income Fund	Procter & Gamble Company, The			Equity	95.000	14,654.000	0.957%
JNLFranklin Templeton Income Fund	Charles Schwab Corporation, The			Equity	3,240.500	3,240.500	0.210%
JNLFranklin Templeton Income Fund	Texas Instruments Incorporated			Equity	40.000	8,262.800	0.536%
JNLFranklin Templeton Income Fund	Union Pacific Corporation			Equity	40.000	9,859.200	0.640%
JNLFranklin Templeton Income Fund	Chevron Corporation			Equity	185.000	27,244.950	1.767%
JNLFranklin Templeton Income Fund	The Southern Company			Equity	175.000	15,781.500	1.024%
JNLFranklin Templeton Income Fund	Starbucks Corporation			Equity	60.000	5,849.400	0.379%
JNLFranklin Templeton Income Fund	Edison International			Equity	50.000	4,354.500	0.282%
JNLFranklin Templeton Income Fund	LyondellBasell Industries N.V.			Equity	56.000	5,370.400	0.348%
JNLFranklin Templeton Income Fund	Philip Morris International Inc.			Equity	60.000	7,365.000	0.478%
JNLFranklin Templeton Income Fund	Duke Energy Corporation			Equity	70.000	8,071.000	0.524%
JNLFranklin Templeton Income Fund	AbbVie Inc.			Equity	45.000	8,886.600	0.576%
JNLFranklin Templeton Income Fund	Rio Tinto PLC			Equity	200.722	14,285.385	0.927%
JNLFranklin Templeton Income Fund	TotalEnergies SE			Equity	40.000	2,619.758	0.170%
JNLFranklin Templeton Income Fund	Johnson Controls International Public Limited Company			Equity	100.000	7,798.000	0.506%
JNLFranklin Templeton Income Fund	Medtronic, Inc.			Equity	50.000	4,536.500	0.294%
JNLFranklin Templeton Income Fund	ComScope Holding Company, Inc.	6/15/2025	6.00	Fixed Income	5,323.834	5,251.438	0.341%
JNLFranklin Templeton Income Fund	Wynn Las Vegas, LLC	3/1/2025	5.50	Fixed Income	8,084.000	8,135.862	0.528%
JNLFranklin Templeton Income Fund	Capital One Financial Corporation	10/29/2025	4.20	Fixed Income	5,000.000	5,069.248	0.328%
JNLFranklin Templeton Income Fund	Nylan II B.V.	6/15/2026	3.95	Fixed Income	1,628.000	1,631.103	0.106%
JNLFranklin Templeton Income Fund	Wynn Las Vegas, LLC	5/15/2027	5.25	Fixed Income	2,000.000	2,040.220	0.132%
JNLFranklin Templeton Income Fund	CCO Holdings, LLC	5/1/2027	5.13	Fixed Income	2,000.000	2,009.795	0.130%
JNLFranklin Templeton Income Fund	Netflix, Inc.	11/15/2026	4.38	Fixed Income	5,000.000	5,118.041	0.332%
JNLFranklin Templeton Income Fund	United Rentals (North America), Inc.	1/15/2028	4.88	Fixed Income	8,510.000	8,542.864	0.554%
JNLFranklin Templeton Income Fund	CCO Holdings, LLC	2/1/2028	5.00	Fixed Income	5,000.000	4,906.629	0.318%
JNLFranklin Templeton Income Fund	Comscope Finance LLC	3/1/2028	6.00	Fixed Income	1,000.000	1,052.388	0.068%
JNLFranklin Templeton Income Fund	Comscope Finance LLC	3/1/2027	8.25	Fixed Income	10,000.000	9,062.128	0.588%
JNLFranklin Templeton Income Fund	General Motors Company	4/1/2038	5.15	Fixed Income	6,000.000	5,899.779	0.383%
JNLFranklin Templeton Income Fund	Boeing Company, The	9/1/2035	3.25	Fixed Income	4,500.000	3,679.329	0.239%
JNLFranklin Templeton Income Fund	Adagah Packaging Finance Public Limited Company	8/15/2027	5.25	Fixed Income	11,196.000	8,180.645	0.531%
JNLFranklin Templeton Income Fund	Calumet Specialty Products Partners, L.P.	4/15/2025	11.00	Fixed Income	6,154.000	6,458.325	0.419%
JNLFranklin Templeton Income Fund	Ashland Capital, Inc.	11/1/2029	4.25	Fixed Income	3,000.000	2,972.865	0.193%
JNLFranklin Templeton Income Fund	Federal National Mortgage Association, Inc.	8/1/2049	4.00	Fixed Income	541.332	529.435	0.034%
JNLFranklin Templeton Income Fund	Trust Financial Corporation			Equity	50.000	2,138.500	0.139%
JNLFranklin Templeton Income Fund	Calpine Corporation	3/15/2028	5.13	Fixed Income	7,500.000	7,407.801	0.480%
JNLFranklin Templeton Income Fund	RTX Corporation			Equity	45.000	5,452.200	0.354%
JNLFranklin Templeton Income Fund	Boeing Company, The	5/1/2027	5.04	Fixed Income	2,000.000	2,048.560	0.133%
JNLFranklin Templeton Income Fund	Boeing Company, The	5/					

Total Non Derivatives	1,541,697,229
Derivatives	
Total Derivatives	0
Total All Investments	1,541,697,229

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Goldman Sachs 4 Fund	Cash			Cash Equivalent	850.408	850.408	0.016%
JNL/Goldman Sachs 4 Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	22,714,059	22,871,171	0.423%
JNL/Goldman Sachs 4 Fund	Verizon Communications Inc.			Equity	638,146	28,659,137	0.529%
JNL/Goldman Sachs 4 Fund	ONEOK, Inc.			Equity	239,333	21,810,416	0.403%
JNL/Goldman Sachs 4 Fund	Valero Energy Corporation			Equity	314,270	42,435,878	0.784%
JNL/Goldman Sachs 4 Fund	RedX Corporation			Equity	61,329	18,889,155	0.312%
JNL/Goldman Sachs 4 Fund	Archer-Daniels-Midland Company			Equity	154,138	9,208,204	0.170%
JNL/Goldman Sachs 4 Fund	Comcast Corporation			Equity	1,002,533	41,875,803	0.774%
JNL/Goldman Sachs 4 Fund	Adobe Inc.			Equity	146,691	75,953,666	1.403%
JNL/Goldman Sachs 4 Fund	Avanio Devices, Inc.			Equity	49,564	10,487,466	0.194%
JNL/Goldman Sachs 4 Fund	VeriSign, Inc.			Equity	51,119	9,710,565	0.179%
JNL/Goldman Sachs 4 Fund	Best Buy Co., Inc.			Equity	307,654	32,069,853	0.592%
JNL/Goldman Sachs 4 Fund	Brexit-Myers Solutib Company			Equity	373,945	19,347,814	0.357%
JNL/Goldman Sachs 4 Fund	Automatic Data Processing, Inc.			Equity	137,613	38,774,304	0.707%
JNL/Goldman Sachs 4 Fund	C.H. Robinson Worldwide, Inc.			Equity	95,794	10,687,457	0.197%
JNL/Goldman Sachs 4 Fund	AutoZone, Inc.			Equity	11,711	36,890,118	0.682%
JNL/Goldman Sachs 4 Fund	BorgWarner Inc.			Equity	275,275	9,989,730	0.185%
JNL/Goldman Sachs 4 Fund	Applied Materials, Inc.			Equity	295,003	59,605,356	1.101%
JNL/Goldman Sachs 4 Fund	Allstate Corporation, The			Equity	116,954	22,180,326	0.410%
JNL/Goldman Sachs 4 Fund	Amgen Inc.			Equity	64,954	20,928,828	0.387%
JNL/Goldman Sachs 4 Fund	Amazon.com, Inc.			Equity	206,890	38,549,814	0.712%
JNL/Goldman Sachs 4 Fund	Amphenol Corporation			Equity	328,659	21,469,449	0.397%
JNL/Goldman Sachs 4 Fund	Apple Inc.			Equity	181,505	42,290,665	0.781%
JNL/Goldman Sachs 4 Fund	Home Depot, Inc., The			Equity	50,321	20,390,069	0.377%
JNL/Goldman Sachs 4 Fund	Cisco Systems, Inc.			Equity	1,046,895	55,715,752	1.029%
JNL/Goldman Sachs 4 Fund	EOG Resources, Inc.			Equity	144,702	17,788,217	0.329%
JNL/Goldman Sachs 4 Fund	The Interpublic Group of Companies, Inc.			Equity	1,657,678	52,432,355	0.969%
JNL/Goldman Sachs 4 Fund	Moody's Corporation			Equity	109,849	52,133,237	0.963%
JNL/Goldman Sachs 4 Fund	Fifth Third Bancorp			Equity	518,425	22,401,144	0.414%
JNL/Goldman Sachs 4 Fund	MRO Energy, Inc.			Equity	110,585	10,074,294	0.188%
JNL/Goldman Sachs 4 Fund	Fair Isaac Corporation			Equity	41,083	19,845,635	0.370%
JNL/Goldman Sachs 4 Fund	Hasbro, Inc.			Equity	472,547	34,174,599	0.631%
JNL/Goldman Sachs 4 Fund	Juniper Networks, Inc.			Equity	552,187	21,524,249	0.398%
JNL/Goldman Sachs 4 Fund	Intel Corporation			Equity	827,056	19,402,734	0.358%
JNL/Goldman Sachs 4 Fund	D.R. Horton, Inc.			Equity	117,441	27,404,848	0.414%
JNL/Goldman Sachs 4 Fund	NVIDIA Corporation			Equity	1,303,652	158,328,535	2.925%
JNL/Goldman Sachs 4 Fund	Darden Restaurants, Inc.			Equity	58,664	9,628,522	0.178%
JNL/Goldman Sachs 4 Fund	Intuit, Inc.			Equity	54,316	33,730,236	0.623%
JNL/Goldman Sachs 4 Fund	Church & Dwight Co., Inc.			Equity	339,984	42,603,124	0.694%
JNL/Goldman Sachs 4 Fund	McKesson Corporation			Equity	106,564	52,735,808	0.974%
JNL/Goldman Sachs 4 Fund	Illinois Tool Works Inc.			Equity	65,130	17,166,314	0.317%
JNL/Goldman Sachs 4 Fund	Omnicon Group Inc.			Equity	578,915	60,259,262	1.133%
JNL/Goldman Sachs 4 Fund	W.W. Grainger, Inc.			Equity	57,063	59,077,635	1.095%
JNL/Goldman Sachs 4 Fund	Franklin Resources, Inc.			Equity	457,629	9,363,089	0.173%
JNL/Goldman Sachs 4 Fund	The Hershey Company			Equity	42,701	8,189,198	0.151%
JNL/Goldman Sachs 4 Fund	Cadence Design Systems, Inc.			Equity	116,246	31,506,153	0.582%
JNL/Goldman Sachs 4 Fund	Conagra Brands, Inc.			Equity	282,257	9,319,998	0.170%
JNL/Goldman Sachs 4 Fund	Colgate-Palmolive Company			Equity	786,779	81,675,528	1.509%
JNL/Goldman Sachs 4 Fund	Jabil Inc.			Equity	437,156	52,384,403	0.968%
JNL/Goldman Sachs 4 Fund	Gartner, Inc.			Equity	44,830	22,718,051	0.420%
JNL/Goldman Sachs 4 Fund	DTE Energy Company			Equity	149,855	19,266,303	0.359%
JNL/Goldman Sachs 4 Fund	International Paper Company			Equity	457,829	22,364,947	0.413%
JNL/Goldman Sachs 4 Fund	Comerica Incorporated			Equity	344,300	20,871,466	0.386%
JNL/Goldman Sachs 4 Fund	Cintas Corporation			Equity	110,136	22,674,800	0.419%
JNL/Goldman Sachs 4 Fund	Corning Incorporated			Equity	759,597	34,295,805	0.634%
JNL/Goldman Sachs 4 Fund	Packaging Corporation of America			Equity	94,480	50,922,636	0.937%
JNL/Goldman Sachs 4 Fund	Masco Corporation			Equity	114,846	9,840,173	0.178%
JNL/Goldman Sachs 4 Fund	Costco Wholesale Corporation			Equity	48,344	42,857,923	0.792%
JNL/Goldman Sachs 4 Fund	Johnson & Johnson			Equity	211,010	34,196,281	0.632%
JNL/Goldman Sachs 4 Fund	Lam Research Corporation			Equity	85,407	89,895,381	1.291%
JNL/Goldman Sachs 4 Fund	KLA Corporation			Equity	104,550	80,964,566	1.496%
JNL/Goldman Sachs 4 Fund	KeyCorp			Equity	1,770,230	29,651,353	0.548%
JNL/Goldman Sachs 4 Fund	NetApp, Inc.			Equity	1,226,036	151,427,706	2.787%
JNL/Goldman Sachs 4 Fund	Lennar Corporation			Equity	225,594	42,294,363	0.781%
JNL/Goldman Sachs 4 Fund	PulteGroup, Inc.			Equity	597,314	85,851,941	1.586%
JNL/Goldman Sachs 4 Fund	Arch Capital Group Ltd.			Equity	188,183	21,053,914	0.389%
JNL/Goldman Sachs 4 Fund	Merck & Co., Inc.			Equity	292,292	33,417,744	0.617%
JNL/Goldman Sachs 4 Fund	CVS Health Corporation			Equity	786,928	49,682,033	0.914%
JNL/Goldman Sachs 4 Fund	Public Service Enterprise Group Incorporated			Equity	1,061,823	94,725,230	1.750%
JNL/Goldman Sachs 4 Fund	Oracle Corporation			Equity	135,746	23,131,118	0.427%
JNL/Goldman Sachs 4 Fund	United Parcel Service, Inc.			Equity	180,965	24,672,768	0.456%
JNL/Goldman Sachs 4 Fund	Qualcomm Incorporated			Equity	515,632	87,683,232	1.609%
JNL/Goldman Sachs 4 Fund	Marsh & McLennan Companies, Inc.			Equity	246,634	55,021,579	1.016%
JNL/Goldman Sachs 4 Fund	PACCAR Inc.			Equity	254,122	25,076,759	0.463%
JNL/Goldman Sachs 4 Fund	Altria Group, Inc.			Equity	1,567,943	81,627,113	1.508%
JNL/Goldman Sachs 4 Fund	Marin Marietta Materials, Inc.			Equity	31,117	16,348,725	0.306%
JNL/Goldman Sachs 4 Fund	Kimberly-Clark Corporation			Equity	256,353	36,630,422	0.677%
JNL/Goldman Sachs 4 Fund	Dominion Energy, Inc.			Equity	521,437	30,133,844	0.557%
JNL/Goldman Sachs 4 Fund	Eli Lilly and Company			Equity	119,086	105,503,051	1.949%
JNL/Goldman Sachs 4 Fund	Pfizer Inc.			Equity	895,556	25,917,391	0.479%
JNL/Goldman Sachs 4 Fund	Brown & Brown, Inc.			Equity	421,294	43,646,058	0.806%
JNL/Goldman Sachs 4 Fund	Microsoft Corporation			Equity	212,749	91,545,895	1.691%
JNL/Goldman Sachs 4 Fund	Akamai Technologies, Inc.			Equity	160,353	16,187,635	0.299%
JNL/Goldman Sachs 4 Fund	3M Company			Equity	250,595	34,256,337	0.633%
JNL/Goldman Sachs 4 Fund	The Progressive Corporation			Equity	161,810	41,060,903	0.759%
JNL/Goldman Sachs 4 Fund	TeleType Technologies Incorporated			Equity	21,626	9,464,835	0.175%
JNL/Goldman Sachs 4 Fund	Texas Instruments Incorporated			Equity	145,234	30,000,987	0.554%
JNL/Goldman Sachs 4 Fund	Snip-on Incorporated			Equity	62,444	18,090,651	0.334%
JNL/Goldman Sachs 4 Fund	Stryker Corporation			Equity	53,233	19,274,254	0.356%
JNL/Goldman Sachs 4 Fund	Walmart Inc.			Equity	303,971	24,545,658	0.453%
JNL/Goldman Sachs 4 Fund	The Southern Company			Equity	261,594	23,590,547	0.436%
JNL/Goldman Sachs 4 Fund	Skyworks Solutions, Inc.			Equity	327,623	32,359,324	0.598%
JNL/Goldman Sachs 4 Fund	Cencora, Inc.			Equity	394,002	88,681,070	1.638%
JNL/Goldman Sachs 4 Fund	Centene Corporation			Equity	216,366	16,288,032	0.301%
JNL/Goldman Sachs 4 Fund	The Sherwin-Williams Company			Equity	103,450	39,483,762	0.729%
JNL/Goldman Sachs 4 Fund	Zions Bancorporation, National Association			Equity	441,911	20,867,037	0.385%
JNL/Goldman Sachs 4 Fund	Universal Health Services, Inc.			Equity	93,155	23,333,427	0.434%
JNL/Goldman Sachs 4 Fund	Whisper Corporation			Equity	150,802	16,135,614	0.298%
JNL/Goldman Sachs 4 Fund	CME Group Inc.			Equity	115,247	25,429,251	0.470%
JNL/Goldman Sachs 4 Fund	Netflix, Inc.			Equity	93,888	66,591,942	1.230%
JNL/Goldman Sachs 4 Fund	Regions Financial Corporation			Equity	481,079	11,343,843	0.209%
JNL/Goldman Sachs 4 Fund	AmeriSource Financial, Inc.			Equity	64,169	30,147,238	0.557%
JNL/Goldman Sachs 4 Fund	MasterCard Incorporated			Equity	56,568	27,933,278	0.516%
JNL/Goldman Sachs 4 Fund	Broadridge Financial Solutions, Inc.			Equity	87,368	18,863,625	0.348%
JNL/Goldman Sachs 4 Fund	CF Industries Holdings, Inc.			Equity	535,345	45,761,001	0.845%
JNL/Goldman Sachs 4 Fund	Marathon Petroleum Corporation			Equity	312,578	19,622,025	0.361%
JNL/Goldman Sachs 4 Fund	CBOE Global Markets, Inc.			Equity	177,643	36,393,721	0.672%
JNL/Goldman Sachs 4 Fund	NXP Semiconductors N.V.			Equity	75,320	18,153,928	0.335%
JNL/Goldman Sachs 4 Fund	Accurate Public Limited Company			Equity	148,805	52,599,591	0.972%
JNL/Goldman Sachs 4 Fund	O'Reilly Automotive, Inc.			Equity	48,937	56,355,949	1.041%
JNL/Goldman Sachs 4 Fund	Motorola Solutions, Inc.			Equity	50,149	22,597,641	0.417%
JNL/Goldman Sachs 4 Fund	Fortinet, Inc.			Equity	150,067	11,637,696	0.215%
JNL/Goldman Sachs 4 Fund	Ralph Lauren Corporation			Equity	229,934	44,767,000	0.827%
JNL/Goldman Sachs 4 Fund	Expedia Group, Inc.			Equity	67,588	10,004,376	0.185%
JNL/Goldman Sachs 4 Fund	LyondellBasell Industries N.V.			Equity	93,999	9,014,504	0.167%
JNL/Goldman Sachs 4 Fund	Visa Inc.			Equity	286,227	78,698,114	1.454%
JNL/Goldman Sachs 4 Fund	Kinder Morgan, Inc.			Equity	1,363,021	30,109,134	0.556%
JNL/Goldman Sachs 4 Fund	Philip Morris International Inc.			Equity	93,072	11,024,589	0.211%
JNL/Goldman Sachs 4 Fund	Meta Platforms, Inc.			Equity	126,414	72,364,430	1.337%
JNL/Goldman Sachs 4 Fund	CDW Corp.			Equity	76,485	17,308,556	0.320%
JNL/Goldman Sachs 4 Fund	Zetex Inc.			Equity	101,589	19,848,459	0.367%
JNL/Goldman Sachs 4 Fund	KKR & Co, Inc.			Equity	175,086	23,862,730	0.422%
JNL/Goldman Sachs 4 Fund	AbbVie Inc.			Equity	464,265	91,683,052	1.694%
JNL/Goldman Sachs 4 Fund	Tapestry, Inc.			Equity	429,435	20,174,856	0.373%
JNL/Goldman Sachs 4 Fund	The Cigna Group			Equity	81,493	28,232,435	0.522%
JNL/Goldman Sachs 4 Fund	Pentair Public Limited Company			Equity	246,064	23,316,853	0.436%
JNL/Goldman Sachs 4 Fund	Broadcom Inc.			Equity	526,195	90,768,638	1.677%
JNL/Goldman Sachs 4 Fund	Leidos Holdings, Inc.			Equity	59,308	9,667,204	0.179%
JNL/Goldman Sachs 4 Fund	Booking Holdings Inc.			Equity	19,934	83,964,400	1.551%
JNL/Goldman Sachs 4 Fund	Citizens Financial Group, Inc.			Equity	278,438	11,435,448	0.211%
JNL/Goldman Sachs 4 Fund	Walgreens Boots Alliance, Inc.			Equity	385,563	3,544,244	0.065%
JNL/Goldman Sachs 4 Fund	Alphabet Inc.			Equity	235,529	39,062,485	0.722%
JNL/Goldman Sachs 4 Fund	KeySight Technologies, Inc.			Equity	57,133	9,080,148	0.168%
JNL/Goldman Sachs 4 Fund	HP, Inc.			Equity	1,384,815	50,054,969	0.925%
JNL/Goldman Sachs 4 Fund	Medtronic, Inc.			Equity	395,903	27,554,579	0.513%
JNL/Goldman Sachs 4 Fund	WEC Energy Group Inc.			Equity	203,557	19,578,112	0.362%
JNL/Goldman Sachs 4 Fund	Simon Property Group, Inc.			Equity	253,012	42,764,088	0.790%
JNL/Goldman Sachs 4 Fund	Host Hotels & Resorts, Inc.			Equity	1,053,125	18,745,625	0.346%
JNL/Goldman Sachs 4 Fund	CBRE Group, Inc.			Equity	390,590	48,620,643	0.898%
JNL/Goldman Sachs 4 Fund	Digital Realty Trust, Inc.			Equity	119,830	19,392,089	0.358%
JNL/Goldman Sachs 4 Fund	Welltower Inc.			Equity	178,156	22,809,313	0.421%
JNL/Goldman Sachs 4 Fund	BXP, Inc.			Equity	273,252	22,253,643	0.411%
JNL/Goldman Sachs 4 Fund	SBA Communications Corporation			Equity	82,240	19,795,248	0.366%
JNL/Goldman Sachs 4 Fund	Seris Public Limited Company			Equity	78,506	19,040,845	0.352%
JNL/Goldman Sachs 4 Fund	Amcor Pty Ltd			Equity	1,760,982	19,951,926	0.369%
JNL/Goldman Sachs 4 Fund	Blackstone Inc.			Equity	139,151	21,308,193	0.394%
JNL/Goldman Sachs 4 Fund	Trust Financial Corporation			Equity	694,693	29,712,020	0.549%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Goldman Sachs 4 Fund	Trane Technologies Public Limited Company			Equity	61,295	23,827,205	0.440%
JNL/Goldman Sachs 4 Fund	Bunge Limited			Equity	94,345	9,117,501	0.168%
JNL/Goldman Sachs 4 Fund	Corpay Inc			Equity	249,718	78,101,802	1.443%
JNL/Goldman Sachs 4 Fund	Solvernum Corporation			Equity	62,649	4,367,688	0.081%
JNL/Goldman Sachs 4 Fund	Te Connectivity Public Limited Company			Equity	300,163	45,321,611	0.837%
Total Non Derivatives						5,412,986,934	
Derivatives							
Total Derivatives						0	
Total All Investments						5,412,986,934	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/Newton Equity Income Fund			Fund	974,234	33,709,479	1.509%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/JPMorgan MidCap Growth Fund			Fund	642,552	44,734,447	1.998%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/Causeway International Value Select Fund			Fund	6,981,379	157,220,654	7.022%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/ClearBridge Large Cap Growth Fund			Fund	7,643,281	212,177,486	9.476%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	2,397,450	22,807,958	1.010%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/Invesco Global Growth Fund			Fund	3,285,859	101,040,173	4.513%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/WMC Value Fund			Fund	2,657,241	100,443,719	4.486%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL Multi-Manager Small Cap Value Fund			Fund	2,004,812	44,426,629	1.984%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/PPM America High Yield Bond Fund			Fund	561,100	11,064,895	0.494%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	495,997	22,369,474	0.999%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/William Blair International Leaders Fund			Fund	7,811,730	101,318,141	4.525%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL Multi-Manager Mid Cap Fund			Fund	3,711,172	78,194,386	3.492%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/T. Rowe Price Established Growth Fund			Fund	2,075,988	180,305,775	8.499%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/Invesco Diversified Dividend Fund			Fund	7,919,925	134,163,525	5.992%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL Multi-Manager Alternative Fund			Fund	1,727,826	22,202,558	0.992%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/BlackRock Large Cap Select Growth Fund			Fund	2,130,290	195,432,770	8.728%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/PPM America Total Return Fund			Fund	3,259,357	43,903,537	1.961%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/T. Rowe Price Mid-Cap Growth Fund			Fund	260,905	22,309,945	0.996%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/GQG Emerging Markets Equity Fund			Fund	1,336,880	21,951,565	0.980%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/JPMorgan U.S. Value Fund			Fund	4,048,237	78,333,388	3.499%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	3,583,873	44,296,670	1.978%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/T. Rowe Price Value Fund			Fund	8,323,439	256,861,330	11.472%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	1,779,499	22,154,757	0.989%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/WMC Government Money Market Fund			Fund	11,033,451	11,078,263	0.495%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/WCM Focused International Equity Fund			Fund	6,143,384	99,768,554	4.456%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/PPMCO Investment Grade Credit Bond Fund			Fund	852,666	10,982,344	0.490%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/Lazard International Strategic Equity Fund			Fund	4,580,009	77,997,550	3.484%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/DoubleLine Total Return Fund			Fund	3,871,797	43,828,745	1.957%
JNL/Goldman Sachs Managed Aggressive Growth Fund	Jackson Credit Opportunities Fund			Fund	1,148,416	12,203,093	0.545%
JNL/Goldman Sachs Managed Aggressive Growth Fund	JNL/PPM America Investment Grade Credit Fund			Fund	2,036,007	21,969,517	0.981%
Total Non Derivatives						2,239,049,327	
Derivatives							
Total Derivatives						0	
Total All Investments						2,239,049,327	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Goldman Sachs Managed Conservative Fund	JNL/DFA U.S. Core Equity Fund			Fund	780.751	24,312,593	3.244%
JNL/Goldman Sachs Managed Conservative Fund	JNL/JPMorgan MidCap Growth Fund			Fund	53.641	3,734,514	0.498%
JNL/Goldman Sachs Managed Conservative Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	5,610.440	82,024,630	10.943%
JNL/Goldman Sachs Managed Conservative Fund	JNL/PIMCO Real Return Fund			Fund	2,443.516	29,835,326	3.980%
JNL/Goldman Sachs Managed Conservative Fund	JNL/Cassidy International Value Select Fund			Fund	830.429	18,701,256	2.495%
JNL/Goldman Sachs Managed Conservative Fund	JNL/ClearBridge Large Cap Growth Fund			Fund	268.851	7,463,305	0.996%
JNL/Goldman Sachs Managed Conservative Fund	JNL/PIMCO Income Fund			Fund	4,300.902	52,212,946	6.966%
JNL/Goldman Sachs Managed Conservative Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	793.600	7,483,647	0.998%
JNL/Goldman Sachs Managed Conservative Fund	JNL/JPMorgan U.S. Government & Quality Bond Fund			Fund	4,617.077	67,086,134	8.950%
JNL/Goldman Sachs Managed Conservative Fund	JNL/Neuberger Berman Strategic Income Fund			Fund	2,253.556	29,837,076	3.981%
JNL/Goldman Sachs Managed Conservative Fund	JNL Multi-Manager Small Cap Value Fund			Fund	168.387	3,731,464	0.498%
JNL/Goldman Sachs Managed Conservative Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	82.884	3,738,088	0.499%
JNL/Goldman Sachs Managed Conservative Fund	JNL/William Blair International Leaders Fund			Fund	1,711.740	22,801,272	2.962%
JNL/Goldman Sachs Managed Conservative Fund	JNL Multi-Manager Mid Cap Fund			Fund	364.995	7,479,137	0.998%
JNL/Goldman Sachs Managed Conservative Fund	JNL/T. Rowe Price Established Growth Fund			Fund	80.136	7,346,089	0.980%
JNL/Goldman Sachs Managed Conservative Fund	JNL/Invesco Diversified Dividend Fund			Fund	883.290	14,962,938	1.996%
JNL/Goldman Sachs Managed Conservative Fund	JNL Multi-Manager Alternative Fund			Fund	581.280	7,469,444	0.997%
JNL/Goldman Sachs Managed Conservative Fund	JNL/BlackRock Large Cap Select Growth Fund			Fund	100.305	9,202,056	1.228%
JNL/Goldman Sachs Managed Conservative Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	4,033.943	52,199,222	6.964%
JNL/Goldman Sachs Managed Conservative Fund	JNL/PPM America Total Return Fund			Fund	5,812.992	78,301,003	10.446%
JNL/Goldman Sachs Managed Conservative Fund	JNL/T. Rowe Price Mid-Cap Growth Fund			Fund	43.692	3,736,118	0.498%
JNL/Goldman Sachs Managed Conservative Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	1,208.146	14,932,689	1.992%
JNL/Goldman Sachs Managed Conservative Fund	JNL/T. Rowe Price Value Fund			Fund	484.768	14,959,943	1.996%
JNL/Goldman Sachs Managed Conservative Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	599.685	7,466,072	0.996%
JNL/Goldman Sachs Managed Conservative Fund	JNL/WMC Government Money Market Fund			Fund	3,729.964	3,745,118	0.500%
JNL/Goldman Sachs Managed Conservative Fund	JNL/PIMCO Investment Grade Credit Bond Fund			Fund	3,473.112	44,733,978	5.968%
JNL/Goldman Sachs Managed Conservative Fund	JNL/Lazard International Strategic Equity Fund			Fund	219.008	3,729,704	0.498%
JNL/Goldman Sachs Managed Conservative Fund	JNL/DoubleLine Total Return Fund			Fund	8,884.245	100,569,655	13.417%
JNL/Goldman Sachs Managed Conservative Fund	Jackson Credit Opportunities Fund			Fund	374.484	3,979,270	0.531%
JNL/Goldman Sachs Managed Conservative Fund	JNL/PPM America Investment Grade Credit Fund			Fund	2,073.434	22,372,352	2.985%
Total Non Derivatives						749,547,339	
Derivatives							
Total Derivatives						0	
Total All Investments						749,547,339	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Goldman Sachs Managed Growth Fund	JNL/Newton Equity Income Fund			Fund	1,271,221	43,984,250	1.006%
JNL/Goldman Sachs Managed Growth Fund	JNL/JPMorgan MidCap Growth Fund			Fund	942,027	65,583,896	1.501%
JNL/Goldman Sachs Managed Growth Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	7,370,550	107,757,436	2.466%
JNL/Goldman Sachs Managed Growth Fund	JNL/PPMCO Real Return Fund			Fund	5,308,487	64,816,625	1.483%
JNL/Goldman Sachs Managed Growth Fund	JNL/Cassese International Value Select Fund			Fund	12,204,566	274,846,824	6.289%
JNL/Goldman Sachs Managed Growth Fund	JNL/ClearBridge Large Cap Growth Fund			Fund	13,567,814	371,090,520	8.492%
JNL/Goldman Sachs Managed Growth Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	2,344,983	22,113,191	0.506%
JNL/Goldman Sachs Managed Growth Fund	JNL/Invesco Global Growth Fund			Fund	4,279,331	131,589,430	3.011%
JNL/Goldman Sachs Managed Growth Fund	JNL/WMC Value Fund			Fund	4,626,078	174,865,738	4.001%
JNL/Goldman Sachs Managed Growth Fund	JNL Multi-Manager Small Cap Value Fund			Fund	3,933,760	87,172,116	1.995%
JNL/Goldman Sachs Managed Growth Fund	JNL/PPM America High Yield Bond Fund			Fund	2,198,509	43,354,604	0.992%
JNL/Goldman Sachs Managed Growth Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	972,201	43,846,271	1.003%
JNL/Goldman Sachs Managed Growth Fund	JNL/William Blair International Leaders Fund			Fund	15,970,832	207,141,690	4.740%
JNL/Goldman Sachs Managed Growth Fund	JNL Multi-Manager Mid Cap Fund			Fund	7,275,730	153,298,525	3.508%
JNL/Goldman Sachs Managed Growth Fund	JNL/T. Rowe Price Established Growth Fund			Fund	4,048,653	371,140,032	8.493%
JNL/Goldman Sachs Managed Growth Fund	JNL/Invesco Diversified Dividend Fund			Fund	15,503,378	262,627,223	6.010%
JNL/Goldman Sachs Managed Growth Fund	JNL Multi-Manager Alternative Fund			Fund	3,381,082	43,446,902	0.994%
JNL/Goldman Sachs Managed Growth Fund	JNL/BlackRock Large Cap Select Growth Fund			Fund	3,443,316	315,889,841	7.228%
JNL/Goldman Sachs Managed Growth Fund	JNL/PPM America Total Return Fund			Fund	11,188,833	150,713,577	3.449%
JNL/Goldman Sachs Managed Growth Fund	JNL/T. Rowe Price Mid-Cap Growth Fund			Fund	511,080	43,702,460	1.000%
JNL/Goldman Sachs Managed Growth Fund	JNL/QQQ Emerging Markets Equity Fund			Fund	2,587,570	42,487,904	0.972%
JNL/Goldman Sachs Managed Growth Fund	JNL/JPMorgan U.S. Value Fund			Fund	7,925,684	153,361,993	3.509%
JNL/Goldman Sachs Managed Growth Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	7,018,100	86,743,721	1.985%
JNL/Goldman Sachs Managed Growth Fund	JNL/T. Rowe Price Value Fund			Fund	14,172,091	437,350,734	10.008%
JNL/Goldman Sachs Managed Growth Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	3,477,575	43,295,809	0.991%
JNL/Goldman Sachs Managed Growth Fund	JNL/WMC Government Money Market Fund			Fund	21,436,583	21,523,548	0.493%
JNL/Goldman Sachs Managed Growth Fund	JNL/WCM Focused International Equity Fund			Fund	7,999,549	129,912,676	2.973%
JNL/Goldman Sachs Managed Growth Fund	JNL/PPMCO Investment Grade Credit Bond Fund			Fund	8,371,870	107,829,684	2.467%
JNL/Goldman Sachs Managed Growth Fund	JNL/Lazard International Strategic Equity Fund			Fund	7,673,896	130,686,441	2.990%
JNL/Goldman Sachs Managed Growth Fund	JNL/DoubleLine Total Return Fund			Fund	15,190,974	171,961,627	3.935%
JNL/Goldman Sachs Managed Growth Fund	Jackson Credit Opportunities Fund			Fund	2,147,039	22,814,479	0.522%
JNL/Goldman Sachs Managed Growth Fund	JNL/PPM America Investment Grade Credit Fund			Fund	3,998,646	43,145,393	0.987%
Total Non Derivatives						4,370,096,560	
Derivatives							
Total Derivatives						0	
Total All Investments						4,370,096,560	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Goldman Sachs Managed Moderate Fund	JNL/DFA U.S. Core Equity Fund			Fund	1,496,445	46,287,883	2.509%
JNL/Goldman Sachs Managed Moderate Fund	JNL/JPMorgan MidCap Growth Fund			Fund	132,348	9,214,060	0.500%
JNL/Goldman Sachs Managed Moderate Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	9,425,071	137,794,535	7.470%
JNL/Goldman Sachs Managed Moderate Fund	JNL/PMCO Real Return Fund			Fund	4,518,174	55,166,902	2.991%
JNL/Goldman Sachs Managed Moderate Fund	JNL/Cassaway International Value Select Fund			Fund	2,876,130	64,770,454	3.511%
JNL/Goldman Sachs Managed Moderate Fund	JNL/ClearBridge Large Cap Growth Fund			Fund	2,324,642	64,532,053	3.498%
JNL/Goldman Sachs Managed Moderate Fund	JNL/PMCO Income Fund			Fund	8,706,931	105,702,137	5.730%
JNL/Goldman Sachs Managed Moderate Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	983,573	9,275,090	0.503%
JNL/Goldman Sachs Managed Moderate Fund	JNL/JPMorgan U.S. Government & Quality Bond Fund			Fund	8,209,684	119,286,713	6.467%
JNL/Goldman Sachs Managed Moderate Fund	JNL/Neuberger Berman Strategic Income Fund			Fund	2,776,792	36,764,126	1.993%
JNL/Goldman Sachs Managed Moderate Fund	JNL/WMC Value Fund			Fund	733,633	27,731,326	1.503%
JNL/Goldman Sachs Managed Moderate Fund	JNL Multi-Manager Small Cap Value Fund			Fund	832,750	18,453,740	1.000%
JNL/Goldman Sachs Managed Moderate Fund	JNL/PPM America High Yield Bond Fund			Fund	833,247	18,403,636	0.998%
JNL/Goldman Sachs Managed Moderate Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	410,605	18,518,286	1.004%
JNL/Goldman Sachs Managed Moderate Fund	JNL/William Blair International Leaders Fund			Fund	4,910,497	63,689,143	3.453%
JNL/Goldman Sachs Managed Moderate Fund	JNL Multi-Manager Mid Cap Fund			Fund	1,756,919	37,018,289	2.007%
JNL/Goldman Sachs Managed Moderate Fund	JNL/T. Rowe Price Established Growth Fund			Fund	800,615	73,392,335	3.979%
JNL/Goldman Sachs Managed Moderate Fund	JNL/Invesco Diversified Dividend Fund			Fund	3,822,170	64,747,562	3.510%
JNL/Goldman Sachs Managed Moderate Fund	JNL Multi-Manager Alternative Fund			Fund	1,434,587	18,434,447	0.999%
JNL/Goldman Sachs Managed Moderate Fund	JNL/BlackRock Large Cap Select Growth Fund			Fund	449,607	41,246,928	2.236%
JNL/Goldman Sachs Managed Moderate Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	5,676,688	73,456,344	3.982%
JNL/Goldman Sachs Managed Moderate Fund	JNL/PPM America Total Return Fund			Fund	11,250,212	151,540,355	8.215%
JNL/Goldman Sachs Managed Moderate Fund	JNL/T. Rowe Price Mid-Cap Growth Fund			Fund	107,914	9,227,684	0.500%
JNL/Goldman Sachs Managed Moderate Fund	JNL/QQG Emerging Markets Equity Fund			Fund	542,413	8,906,425	0.483%
JNL/Goldman Sachs Managed Moderate Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	2,979,755	36,629,773	1.997%
JNL/Goldman Sachs Managed Moderate Fund	JNL/T. Rowe Price Value Fund			Fund	3,296,637	101,734,226	5.515%
JNL/Goldman Sachs Managed Moderate Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	2,218,240	27,617,091	1.497%
JNL/Goldman Sachs Managed Moderate Fund	JNL/WMC Government Money Market Fund			Fund	9,187,067	9,224,399	0.500%
JNL/Goldman Sachs Managed Moderate Fund	JNL/WCM Focused International Equity Fund			Fund	1,125,632	18,280,270	0.991%
JNL/Goldman Sachs Managed Moderate Fund	JNL/PMCO Investment Grade Credit Bond Fund			Fund	8,556,199	110,229,699	5.976%
JNL/Goldman Sachs Managed Moderate Fund	JNL/Lazard International Strategic Equity Fund			Fund	2,697,795	45,943,441	2.491%
JNL/Goldman Sachs Managed Moderate Fund	JNL/DoubleLine Total Return Fund			Fund	16,212,280	183,523,011	9.949%
JNL/Goldman Sachs Managed Moderate Fund	Jackson Credit Opportunities Fund			Fund	948,692	10,080,816	0.547%
JNL/Goldman Sachs Managed Moderate Fund	JNL/PPM America Investment Grade Credit Fund			Fund	2,554,848	27,566,815	1.494%
Total Non Derivatives						1,844,590,504	
Derivatives							
Total Derivatives						0	
Total All Investments						1,844,590,504	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/Newton Equity Income Fund			Fund	1,182,769	40,923,805	1.010%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/JPMorgan MidCap Growth Fund			Fund	572,260	39,840,709	0.983%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	13,774,788	201,387,402	4.970%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/PPMCO Real Return Fund			Fund	8,255,961	100,805,284	2.488%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/Cassaway International Value Select Fund			Fund	8,615,377	184,018,293	4.788%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/ClearBridge Large Cap Growth Fund			Fund	9,511,036	284,026,350	6.516%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/PPMCO Income Fund			Fund	9,131,123	110,851,835	2.736%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	2,172,081	20,482,726	0.505%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/JPMorgan U.S. Government & Quality Bond Fund			Fund	13,821,302	200,823,513	4.956%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/Investco Global Growth Fund			Fund	1,981,836	60,935,321	1.504%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/WMC Value Fund			Fund	3,227,093	121,984,107	3.010%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL Multi-Manager Small Cap Value Fund			Fund	1,831,022	40,575,452	1.001%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/PPM America High Yield Bond Fund			Fund	2,048,128	40,869,085	0.997%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	904,816	40,807,183	1.007%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/William Blair International Leaders Fund			Fund	10,690,578	138,656,791	3.422%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL Multi-Manager Mid Cap Fund			Fund	5,800,378	122,213,956	3.016%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/T. Rowe Price Established Growth Fund			Fund	3,074,964	261,845,315	6.958%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/Invesco Diversified Dividend Fund			Fund	9,803,740	162,687,351	4.015%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL Multi-Manager Alternative Fund			Fund	3,148,050	40,452,444	0.998%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/BlackRock Large Cap Select Growth Fund			Fund	1,646,769	151,074,608	3.728%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	7,771,239	100,559,834	2.482%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/PPM America Total Return Fund			Fund	15,689,641	211,325,997	5.215%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/T. Rowe Price Mid-Cap Growth Fund			Fund	475,394	40,650,958	1.003%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/GQG Emerging Markets Equity Fund			Fund	2,378,418	39,053,624	0.964%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/JPMorgan U.S. Value Fund			Fund	6,318,795	122,268,681	3.017%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	6,539,199	80,824,500	1.995%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/T. Rowe Price Value Fund			Fund	9,220,589	284,547,387	7.022%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	4,865,812	60,579,365	1.495%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/WMC Government Money Market Fund			Fund	20,031,180	20,112,528	0.496%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/WCM Focused International Equity Fund			Fund	8,070,182	131,059,748	3.234%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/PPMCO Investment Grade Credit Bond Fund			Fund	10,946,385	140,988,567	3.479%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/Lazard International Strategic Equity Fund			Fund	5,945,391	101,250,008	2.499%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/DoubleLine Total Return Fund			Fund	23,084,721	261,319,041	6.449%
JNL/Goldman Sachs Managed Moderate Growth Fund	Jackson Credit Opportunities Fund			Fund	2,097,108	22,263,910	0.550%
JNL/Goldman Sachs Managed Moderate Growth Fund	JNL/PPM America Investment Grade Credit Fund			Fund	5,602,275	60,448,544	1.492%
Total Non Derivatives						4,052,055,232	
Derivatives							
Total Derivatives						0	
Total All Investments						4,052,055,232	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLGQG Emerging Markets Equity Fund	Cash			Cash Equivalent	4,539	4,539	0.000%
JNLGQG Emerging Markets Equity Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	11,050,589	11,159,010	1.099%
JNLGQG Emerging Markets Equity Fund	Petroleo Brasileiro S/A Petrobras.			Equity	3,744,394	25,501,599	2.512%
JNLGQG Emerging Markets Equity Fund	Adani Green Energy (UP) Limited			Equity	1,189,832	27,193,357	2.679%
JNLGQG Emerging Markets Equity Fund	Trent Limited			Equity	66,204	6,200,598	0.611%
JNLGQG Emerging Markets Equity Fund	National Bank of Greece SA			Equity	135,917	1,163,526	0.115%
JNLGQG Emerging Markets Equity Fund	Companhia Paranaense De Energia			Equity	1,141,000	1,918,527	0.189%
JNLGQG Emerging Markets Equity Fund	International Holdings Limited			Equity	205,122	22,728,337	2.239%
JNLGQG Emerging Markets Equity Fund	Adani Energy Solutions Limited			Equity	1,001,621	12,172,367	1.199%
JNLGQG Emerging Markets Equity Fund	Joint Stock Company Kaspi Kz			Equity	41,586	5,467,600	0.539%
JNLGQG Emerging Markets Equity Fund	Adani Enterprises Limited			Equity	815,682	30,700,259	3.024%
JNLGQG Emerging Markets Equity Fund	JSW Energy Limited			Equity	1,196,602	10,529,054	1.037%
JNLGQG Emerging Markets Equity Fund	Macrotech Developers Limited			Equity	518,115	7,668,148	0.755%
JNLGQG Emerging Markets Equity Fund	Adani Power Limited			Equity	2,836,153	22,289,820	2.196%
JNLGQG Emerging Markets Equity Fund	Patanjali Foods Limited			Equity	884,273	17,796,956	1.753%
JNLGQG Emerging Markets Equity Fund	Vale S.A.			Equity	288,855	3,375,993	0.333%
JNLGQG Emerging Markets Equity Fund	NVIDIA Corporation			Equity	16,599	2,015,783	0.199%
JNLGQG Emerging Markets Equity Fund	Centrais Eletricas Brasileiras S/A			Equity	1,376,100	9,927,259	0.978%
JNLGQG Emerging Markets Equity Fund	Banco Do Brasil SA			Equity	1,673,248	8,378,987	0.825%
JNLGQG Emerging Markets Equity Fund	Exxon Mobil Corporation			Equity	156,937	18,396,155	1.812%
JNLGQG Emerging Markets Equity Fund	Colgate-Palmolive Company			Equity	221,357	22,979,070	2.264%
JNLGQG Emerging Markets Equity Fund	Coca Cola Company, The			Equity	210,231	15,209,162	1.498%
JNLGQG Emerging Markets Equity Fund	PolyMetal International PLC			Equity	78,785	260,778	0.026%
JNLGQG Emerging Markets Equity Fund	DBS Group Holdings Ltd			Equity	154,723	4,590,018	0.452%
JNLGQG Emerging Markets Equity Fund	Bharti Airtel Limited			Equity	827,268	16,922,789	1.667%
JNLGQG Emerging Markets Equity Fund	Sun Pharma Advanced Research Company Limited			Equity	967,668	22,305,260	2.197%
JNLGQG Emerging Markets Equity Fund	PetroChina Company Limited			Equity	23,719,266	19,804,128	1.951%
JNLGQG Emerging Markets Equity Fund	Zijin Mining Group Co., Ltd.			Equity	424,000	947,925	0.093%
JNLGQG Emerging Markets Equity Fund	NTPC Limited			Equity	2,350,509	12,520,700	1.233%
JNLGQG Emerging Markets Equity Fund	PT Bank Central Asia Tbk			Equity	36,022,914	24,564,053	2.420%
JNLGQG Emerging Markets Equity Fund	Singapore Telecommunications Limited			Equity	4,166,102	10,460,318	1.030%
JNLGQG Emerging Markets Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	2,569,007	78,263,769	7.710%
JNLGQG Emerging Markets Equity Fund	PICC Property and Casualty Company Limited			Equity	1,092,000	1,616,316	0.159%
JNLGQG Emerging Markets Equity Fund	PT Bank Mandiri (Persero) Tbk.			Equity	54,889,568	25,122,426	2.475%
JNLGQG Emerging Markets Equity Fund	Merck KGaA, Inc.			Equity	12,303	2,545,254	0.251%
JNLGQG Emerging Markets Equity Fund	Aldar Properties - P J S C			Equity	1,791,040	3,669,366	0.361%
JNLGQG Emerging Markets Equity Fund	Vodafone Idea Limited			Equity	31,790,883	3,957,258	0.390%
JNLGQG Emerging Markets Equity Fund	Adani Ports and Special Economic Zone Limited			Equity	1,489,805	25,888,522	2.550%
JNLGQG Emerging Markets Equity Fund	Oversea-Chinese Banking Corporation Limited			Equity	229,310	2,687,740	0.264%
JNLGQG Emerging Markets Equity Fund	China Shenhua Energy Company Limited			Equity	4,078,390	18,179,883	1.791%
JNLGQG Emerging Markets Equity Fund	Industrial and Commercial Bank of China Limited			Equity	19,357,000	11,401,991	1.123%
JNLGQG Emerging Markets Equity Fund	China Construction Bank Corporation			Equity	24,893,000	18,621,633	1.834%
JNLGQG Emerging Markets Equity Fund	TotalEnergies SE			Equity	476,937	31,653,269	3.099%
JNLGQG Emerging Markets Equity Fund	Ambuja Cements Limited			Equity	2,243,556	17,033,188	1.678%
JNLGQG Emerging Markets Equity Fund	ITC Limited			Equity	10,346,856	64,189,905	6.323%
JNLGQG Emerging Markets Equity Fund	Coal India Ltd Govt Of India Undertaking			Equity	584,076	3,580,293	0.353%
JNLGQG Emerging Markets Equity Fund	Public Joint Stock Company Oil Company Lukoil			Equity	202,150	0	0.000%
JNLGQG Emerging Markets Equity Fund	Public Joint Stock Company Oil Company Rosneft			Equity	2,348,971	0	0.000%
JNLGQG Emerging Markets Equity Fund	Public Joint Stock Company Polys			Equity	41,594	0	0.000%
JNLGQG Emerging Markets Equity Fund	Agricultural Bank of China Limited			Equity	1,752,000	817,861	0.081%
JNLGQG Emerging Markets Equity Fund	Public Joint Stock Company Gazprom			Equity	2,923,724	0	0.000%
JNLGQG Emerging Markets Equity Fund	Publichnoe Aktsionernoe Obshchestvo Severstal			Equity	75,343	0	0.000%
JNLGQG Emerging Markets Equity Fund	Meta Platforms, Inc.			Equity	28,451	16,286,490	1.604%
JNLGQG Emerging Markets Equity Fund	ASML Holding N.V.			Equity	8,635	7,213,647	0.711%
JNLGQG Emerging Markets Equity Fund	Zijin Mining Group Co., Ltd.			Equity	3,862,759	9,905,709	0.976%
JNLGQG Emerging Markets Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	11,163	1,945,666	0.192%
JNLGQG Emerging Markets Equity Fund	JSW Steel Limited			Equity	847,027	10,441,537	1.029%
JNLGQG Emerging Markets Equity Fund	American Beverage Co Ambev			Equity	4,334,323	10,575,748	1.042%
JNLGQG Emerging Markets Equity Fund	ICICI Bank Limited			Equity	1,384,623	21,033,440	2.072%
JNLGQG Emerging Markets Equity Fund	Vale S.A.			Equity	397,640	4,644,425	0.458%
JNLGQG Emerging Markets Equity Fund	Tencent Holdings Limited			Equity	472,400	26,225,579	2.584%
JNLGQG Emerging Markets Equity Fund	YPF S.A.			Equity	3,172	67,278	0.007%
JNLGQG Emerging Markets Equity Fund	HDFC Bank Limited			Equity	119,673	7,486,743	0.738%
JNLGQG Emerging Markets Equity Fund	ASML Holding N.V.			Equity	508	423,291	0.042%
JNLGQG Emerging Markets Equity Fund	State Bank of India			Equity	2,204,997	20,790,546	2.048%
JNLGQG Emerging Markets Equity Fund	ITAU Unibanco Holding SA			Equity	2,834,500	19,033,316	1.875%
JNLGQG Emerging Markets Equity Fund	Petroleo Brasileiro S/A Petrobras.			Equity	2,208,356	32,644,432	3.216%
JNLGQG Emerging Markets Equity Fund	Aluminum Corporation of China Limited			Equity	1,789,400	2,247,438	0.221%
JNLGQG Emerging Markets Equity Fund	Banco BTG Pactual S/A			Equity	2,461,067	15,125,011	1.490%
JNLGQG Emerging Markets Equity Fund	Al Rajhi Banking and Investment Corporation			Equity	359,158	8,353,054	0.823%
JNLGQG Emerging Markets Equity Fund	Unilever PLC			Equity	169,836	11,032,547	1.087%
JNLGQG Emerging Markets Equity Fund	The Company For Cooperative Insurance			Equity	58,385	2,301,988	0.227%
JNLGQG Emerging Markets Equity Fund	BUPA Arabia for Cooperative Insurance Company			Equity	88,487	4,892,651	0.482%
JNLGQG Emerging Markets Equity Fund	Trip.com Group Limited			Equity	200,903	11,939,665	1.176%
JNLGQG Emerging Markets Equity Fund	Ecopetrol S.A.			Equity	260,925	2,330,060	0.230%
JNLGQG Emerging Markets Equity Fund	Saudi Arabian Oil Company			Equity	2,299,770	16,621,244	1.637%
JNLGQG Emerging Markets Equity Fund	Harris County School District			Equity	743,200	637,772	0.063%
JNLGQG Emerging Markets Equity Fund	America Movil, S.A.B. De C.V.			Equity	990,500	812,421	0.080%
JNLGQG Emerging Markets Equity Fund	Max Healthcare Institute Limited			Equity	151,178	1,788,624	0.176%
JNLGQG Emerging Markets Equity Fund	ADNOC Logistics & Services PLC			Equity	477,661	6,095,614	0.600%
JNLGQG Emerging Markets Equity Fund	DFC First Bank Limited			Equity	7,646,891	6,805,276	0.670%
JNLGQG Emerging Markets Equity Fund	GMR Airports Infrastructure Limited			Equity	7,500,867	8,470,967	0.834%
JNLGQG Emerging Markets Equity Fund	Adnoc Gas			Equity	6,297,427	5,456,287	0.538%
Total Non Derivatives						1,015,109,830	
Derivatives							
JNLGQG Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(96)	0.000%
JNLGQG Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(2,561)	0.000%
JNLGQG Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(39)	0.000%
JNLGQG Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(212)	0.000%
Total Derivatives						(2,908)	
Total All Investments						1,015,106,922	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Growth Allocation Fund	JNL/Ballie Gifford U.S. Equity Growth Fund			Fund	1,113,605	7,583,651	0.247%
JNL Growth Allocation Fund	JNL/WMC Equity Income Fund			Fund	5,977,829	119,197,914	3.875%
JNL Growth Allocation Fund	Public Joint Stock Company Phosagro			Equity	114	0	0.000%
JNL Growth Allocation Fund	Public Joint Stock Company Phosagro			Equity	17,782	0	0.000%
JNL Growth Allocation Fund	JNL/Newton Equity Income Fund			Fund	3,520,617	121,813,343	3.960%
JNL Growth Allocation Fund	JNL Multi-Manager U.S. Select Equity Fund			Fund	17,000,539	262,148,318	8.523%
JNL Growth Allocation Fund	Public Joint Stock Society Inter RAO UES			Equity	4,795,000	0	0.000%
JNL Growth Allocation Fund	Public Joint Stock Company Mining And Metallurgical Company Norilsk Nickel			Equity	175,300	0	0.000%
JNL Growth Allocation Fund	Public Joint Stock Company Novokupetskiy Metallurgical Plant			Equity	192,700	0	0.000%
JNL Growth Allocation Fund	Publichouse Aktsionernoe Obshchestvo Severstal			Equity	29,814	0	0.000%
JNL Growth Allocation Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	7,669,268	112,124,702	3.645%
JNL Growth Allocation Fund	JNL/Causeway International Value Select Fund			Fund	9,035,943	203,489,443	6.616%
JNL Growth Allocation Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	5,837,597	55,991,538	1.820%
JNL Growth Allocation Fund	JNL Multi-Manager Small Cap Value Fund			Fund	3,402,777	75,405,538	2.452%
JNL Growth Allocation Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	1,548,700	69,891,453	2.272%
JNL Growth Allocation Fund	JNL Multi-Manager Mid Cap Fund			Fund	7,341,786	154,691,441	5.029%
JNL Growth Allocation Fund	JNL/T. Rowe Price Established Growth Fund			Fund	1,673,912	153,447,512	4.989%
JNL Growth Allocation Fund	JNL Multi-Manager Alternative Fund			Fund	7,286,483	93,631,304	3.044%
JNL Growth Allocation Fund	JNL/Harris Oakmark Global Equity Fund			Fund	5,353,802	77,951,356	2.534%
JNL Growth Allocation Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	6,305,306	81,590,654	2.653%
JNL Growth Allocation Fund	JNL/QQQ Emerging Markets Equity Fund			Fund	6,447,336	105,865,256	3.442%
JNL Growth Allocation Fund	JNL/JPMorgan U.S. Value Fund			Fund	6,161,555	119,276,092	3.876%
JNL Growth Allocation Fund	JNL/DoubleLine Shiller Enhanced CAPE Fund			Fund	2,303,018	60,868,768	1.979%
JNL Growth Allocation Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	3,081,422	38,086,376	1.238%
JNL Growth Allocation Fund	JNL/T. Rowe Price Value Fund			Fund	5,767,028	177,970,497	5.786%
JNL Growth Allocation Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	2,439,409	30,358,197	0.987%
JNL Growth Allocation Fund	JNL/Lord Abbett Short Duration Income Fund			Fund	2,826,307	30,156,697	0.980%
JNL Growth Allocation Fund	JNL/WCM Focused International Equity Fund			Fund	12,937,138	210,099,118	6.831%
JNL Growth Allocation Fund	JNL/PMCO Investment Grade Credit Bond Fund			Fund	1,766,038	22,746,568	0.740%
JNL Growth Allocation Fund	JNL/DoubleLine Total Return Fund			Fund	9,209,832	104,255,302	3.380%
JNL Growth Allocation Fund	JNL/Morningstar Wide Moat Index Fund			Fund	13,185,523	190,869,918	6.209%
JNL Growth Allocation Fund	JNL/Loomis Sayles Global Growth Fund			Fund	6,298,994	118,673,042	3.858%
JNL Growth Allocation Fund	JNL Multi-Manager International Small Cap Fund			Fund	8,883,179	108,552,444	3.529%
JNL Growth Allocation Fund	Jackson Credit Opportunities Fund			Fund	6,465,000	68,897,421	2.234%
JNL Growth Allocation Fund	JNL/Morningstar SMID Moat Focus Index Fund			Fund	4,914,326	53,123,868	1.727%
JNL Growth Allocation Fund	Jackson Real Assets Fund			Fund	4,400,000	47,107,566	1.532%
Total Non Derivatives						3,075,715,187	
Derivatives							
Total Derivatives						0	
Total All Investments						3,075,715,187	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Harris Oakmark Global Equity Fund	Cash			Cash Equivalent	138.120	138.120	0.023%
JNL/Harris Oakmark Global Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	16,792,027	16,841,376	2.800%
JNL/Harris Oakmark Global Equity Fund	Daimler Truck Holding AG			Equity	259,514	9,715,292	1.615%
JNL/Harris Oakmark Global Equity Fund	Warner Bros. Discovery, Inc.			Equity	324,400	2,676,300	0.445%
JNL/Harris Oakmark Global Equity Fund	GE HealthCare Technologies Inc.			Equity	91,700	8,606,045	1.431%
JNL/Harris Oakmark Global Equity Fund	Diageo PLC			Equity	161,300	5,685,966	0.945%
JNL/Harris Oakmark Global Equity Fund	American International Group, Inc.			Equity	206,279	15,105,811	2.511%
JNL/Harris Oakmark Global Equity Fund	Amazon.com, Inc.			Equity	36,100	6,726,513	1.118%
JNL/Harris Oakmark Global Equity Fund	Deere & Company			Equity	21,800	9,129,840	1.518%
JNL/Harris Oakmark Global Equity Fund	Equifax Inc.			Equity	24,500	7,199,570	1.197%
JNL/Harris Oakmark Global Equity Fund	Salesforce, Inc.			Equity	26,300	7,209,093	1.198%
JNL/Harris Oakmark Global Equity Fund	Fiserv, Inc.			Equity	126,300	22,689,795	3.772%
JNL/Harris Oakmark Global Equity Fund	Bank of America Corporation			Equity	388,700	15,423,616	2.564%
JNL/Harris Oakmark Global Equity Fund	BlackRock, Inc.			Equity	13,235	12,566,765	2.088%
JNL/Harris Oakmark Global Equity Fund	Agilent Technologies, Inc.			Equity	42,800	6,354,944	1.056%
JNL/Harris Oakmark Global Equity Fund	Kroger Co., The			Equity	265,600	15,218,880	2.530%
JNL/Harris Oakmark Global Equity Fund	ConocoPhillips			Equity	89,800	9,454,144	1.572%
JNL/Harris Oakmark Global Equity Fund	Charles Schwab Corporation, The			Equity	197,153	12,777,486	2.124%
JNL/Harris Oakmark Global Equity Fund	Capital One Financial Corporation			Equity	127,100	19,030,683	3.164%
JNL/Harris Oakmark Global Equity Fund	Allianz SE			Equity	35,243	11,608,211	1.930%
JNL/Harris Oakmark Global Equity Fund	Bayer Aktiengesellschaft			Equity	749,990	25,321,994	4.210%
JNL/Harris Oakmark Global Equity Fund	Capgemini France			Equity	30,000	6,472,938	1.076%
JNL/Harris Oakmark Global Equity Fund	Mercedes-Benz Group AG			Equity	314,629	20,384,091	3.389%
JNL/Harris Oakmark Global Equity Fund	Kering			Equity	65,300	18,689,573	3.107%
JNL/Harris Oakmark Global Equity Fund	Centene Corporation			Equity	261,100	19,655,608	3.268%
JNL/Harris Oakmark Global Equity Fund	Freemium SE & Co. KGaA			Equity	365,000	13,939,315	2.317%
JNL/Harris Oakmark Global Equity Fund	NAVER Corporation			Equity	58,000	7,539,017	1.253%
JNL/Harris Oakmark Global Equity Fund	Holcim AG			Equity	25,567	2,499,720	0.416%
JNL/Harris Oakmark Global Equity Fund	Roche Holding AG			Equity	21,500	6,849,085	1.139%
JNL/Harris Oakmark Global Equity Fund	BNP Paribas			Equity	311,213	21,321,468	3.545%
JNL/Harris Oakmark Global Equity Fund	Novartis AG			Equity	51,800	5,971,108	0.993%
JNL/Harris Oakmark Global Equity Fund	Danone			Equity	46,000	3,348,681	0.557%
JNL/Harris Oakmark Global Equity Fund	Reckitt Benckiser Group PLC			Equity	181,700	11,102,092	1.846%
JNL/Harris Oakmark Global Equity Fund	DSV AS			Equity	48,100	9,923,383	1.650%
JNL/Harris Oakmark Global Equity Fund	Glencore PLC			Equity	1,710,125	9,768,797	1.622%
JNL/Harris Oakmark Global Equity Fund	General Motors Company			Equity	262,263	11,759,873	1.955%
JNL/Harris Oakmark Global Equity Fund	Aptiv PLC			Equity	160,700	11,572,007	1.924%
JNL/Harris Oakmark Global Equity Fund	Philips 66			Equity	66,200	8,701,990	1.447%
JNL/Harris Oakmark Global Equity Fund	Julius Baer Gruppe AG			Equity	266,077	16,143,417	2.684%
JNL/Harris Oakmark Global Equity Fund	WPP 2012 Limited			Equity	1,133,944	11,600,040	1.928%
JNL/Harris Oakmark Global Equity Fund	IOVIA Holdings Inc			Equity	93,000	22,038,210	3.664%
JNL/Harris Oakmark Global Equity Fund	Lamb Weston Holdings, Inc.			Equity	52,200	3,444,168	0.573%
JNL/Harris Oakmark Global Equity Fund	Former Charter Communications Parent, Inc.			Equity	49,732	15,793,175	2.626%
JNL/Harris Oakmark Global Equity Fund	Samsung Electronics Co., Ltd.	1.00		Equity	234,900	9,167,715	1.524%
JNL/Harris Oakmark Global Equity Fund	Intercontinental Exchange, Inc.			Equity	109,500	17,590,080	2.924%
JNL/Harris Oakmark Global Equity Fund	CNH Industrial N.V.			Equity	2,155,371	23,924,618	3.977%
JNL/Harris Oakmark Global Equity Fund	ETSY, Inc.			Equity	85,300	4,736,709	0.787%
JNL/Harris Oakmark Global Equity Fund	Alphabet Inc.			Equity	121,220	20,104,337	3.342%
JNL/Harris Oakmark Global Equity Fund	Worldline			Equity	574,000	4,171,567	0.693%
JNL/Harris Oakmark Global Equity Fund	Prosus N.V.			Equity	275,051	12,061,915	2.005%
JNL/Harris Oakmark Global Equity Fund	Alibaba Group Holding Limited			Equity	875,000	11,780,267	1.958%
Total Non Derivatives						601,525,308	
Derivatives							
JNL/Harris Oakmark Global Equity Fund	Bought USD / Sold HKD			Derivative		289	0.000%
JNL/Harris Oakmark Global Equity Fund	Bought USD / Sold HKD			Derivative		289	0.000%
Total Derivatives						578	
Total All Investments						601,525,886	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Heitman U.S. Focused Real Estate Fund	Cash			Cash Equivalent	100.746	100.746	0.068%
JNL/Heitman U.S. Focused Real Estate Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	17,538,863	17,550,263	11.908%
JNL/Heitman U.S. Focused Real Estate Fund	CTO Realty Growth, Inc.			Equity	101,333	1,927,354	1.308%
JNL/Heitman U.S. Focused Real Estate Fund	Essential Properties Realty Trust, Inc.			Equity	82,006	2,824,287	1.916%
JNL/Heitman U.S. Focused Real Estate Fund	Equity Residential			Equity	25,773	1,981,529	1.344%
JNL/Heitman U.S. Focused Real Estate Fund	EastGroup Properties, Inc.			Equity	15,143	3,414,875	2.317%
JNL/Heitman U.S. Focused Real Estate Fund	Urban Edge Properties			Equity	121,036	2,588,960	1.757%
JNL/Heitman U.S. Focused Real Estate Fund	Sunstone Hotel Investors, Inc.			Equity	58,866	611,202	0.415%
JNL/Heitman U.S. Focused Real Estate Fund	PollachDette Corporation			Equity	14,924	672,326	0.456%
JNL/Heitman U.S. Focused Real Estate Fund	Iron Mountain Incorporated			Equity	15,523	6,638,990	4.505%
JNL/Heitman U.S. Focused Real Estate Fund	Medical Properties Trust, Inc.			Equity	136,950	805,773	0.547%
JNL/Heitman U.S. Focused Real Estate Fund	Equinix, Inc.			Equity	9,763	8,665,932	5.880%
JNL/Heitman U.S. Focused Real Estate Fund	American Homes 4 Rent			Equity	78,285	3,005,361	2.039%
JNL/Heitman U.S. Focused Real Estate Fund	Gaming and Leisure Properties, Inc.			Equity	26,727	1,375,104	0.933%
JNL/Heitman U.S. Focused Real Estate Fund	Camden Property Trust			Equity	30,030	3,740,537	2.538%
JNL/Heitman U.S. Focused Real Estate Fund	ProLogis Inc.			Equity	68,740	8,680,487	5.890%
JNL/Heitman U.S. Focused Real Estate Fund	Agree Realty Corporation			Equity	57,105	4,315,996	2.928%
JNL/Heitman U.S. Focused Real Estate Fund	Cubesmart, L.P.			Equity	30,513	1,542,515	1.114%
JNL/Heitman U.S. Focused Real Estate Fund	Public Storage Operating Company			Equity	7,942	2,889,856	1.961%
JNL/Heitman U.S. Focused Real Estate Fund	Equity Lifestyle Properties, Inc.			Equity	39,413	2,831,785	1.921%
JNL/Heitman U.S. Focused Real Estate Fund	Brixmor Property Group Inc.			Equity	97,930	2,728,330	1.851%
JNL/Heitman U.S. Focused Real Estate Fund	STAG Industrial, Inc.			Equity	78,258	3,068,757	2.082%
JNL/Heitman U.S. Focused Real Estate Fund	Vornado Realty Trust			Equity	74,023	2,916,506	1.979%
JNL/Heitman U.S. Focused Real Estate Fund	Simon Property Group, Inc.			Equity	25,170	4,254,233	2.886%
JNL/Heitman U.S. Focused Real Estate Fund	American Tower Corporation			Equity	59,671	13,877,088	9.416%
JNL/Heitman U.S. Focused Real Estate Fund	Host Hotels & Resorts, Inc.			Equity	14,694	2,633,978	1.779%
JNL/Heitman U.S. Focused Real Estate Fund	Ryman Hospitality Properties, Inc.			Equity	20,094	2,176,984	1.477%
JNL/Heitman U.S. Focused Real Estate Fund	AvalonBay Communities, Inc.			Equity	11,890	2,681,862	1.820%
JNL/Heitman U.S. Focused Real Estate Fund	Weyerhaeuser Company			Equity	38,872	1,316,206	0.893%
JNL/Heitman U.S. Focused Real Estate Fund	Extra Space Storage Inc.			Equity	25,572	4,607,819	3.128%
JNL/Heitman U.S. Focused Real Estate Fund	Cartrust REIT, Inc.			Equity	72,974	2,267,088	1.538%
JNL/Heitman U.S. Focused Real Estate Fund	Ventus, Inc.			Equity	75,056	4,813,341	3.266%
JNL/Heitman U.S. Focused Real Estate Fund	Digital Realty Trust, Inc.			Equity	25,602	4,143,172	2.811%
JNL/Heitman U.S. Focused Real Estate Fund	Welltower Inc.			Equity	30,285	3,877,389	2.631%
JNL/Heitman U.S. Focused Real Estate Fund	UDR, Inc.			Equity	72,529	3,288,420	2.231%
JNL/Heitman U.S. Focused Real Estate Fund	BXP, Inc.			Equity	36,670	2,984,440	2.025%
JNL/Heitman U.S. Focused Real Estate Fund	Four Corners Property Trust, Inc.			Equity	70,110	2,079,112	1.411%
JNL/Heitman U.S. Focused Real Estate Fund	SBA Communications Corporation			Equity	15,604	3,755,883	2.549%
JNL/Heitman U.S. Focused Real Estate Fund	VCI Properties Inc.			Equity	46,825	1,606,754	1.090%
JNL/Heitman U.S. Focused Real Estate Fund	Healthpeak OP, LLC			Equity	169,777	3,882,800	2.634%
JNL/Heitman U.S. Focused Real Estate Fund	Safehold Inc.			Equity	8,512	225,727	0.153%
JNL/Heitman U.S. Focused Real Estate Fund	American Healthcare REIT, Inc.			Equity	11,467	305,147	0.207%
Total Non Derivatives						147,385,694	
Derivatives							
Total Derivatives						0	
Total All Investments						147,385,694	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL International Index Fund	Cash			Cash Equivalent	2,033,017	2,033,017	0.087%
JNL International Index Fund	Henkel AG & Co. KGaA			Equity	22,000	2,069,300	0.089%
JNL International Index Fund	Government Money Market Fund		4.82	Cash Equivalent	7,040,285	7,077,759	0.304%
JNL International Index Fund	Eurofins Scientific SE			Equity	17,443	1,101,889	0.047%
JNL International Index Fund	Nordnet AB			Equity	21,991	529,070	0.023%
JNL International Index Fund	WuXi Biologics (Cayman) Inc.			Equity	448,500	987,190	0.042%
JNL International Index Fund	Warehouses De Pauw			Equity	24,352	649,323	0.028%
JNL International Index Fund	Fiat Chrysler Automobiles N.V.			Equity	281,906	3,925,734	0.169%
JNL International Index Fund	Tesco PLC			Equity	904,849	4,343,131	0.187%
JNL International Index Fund	Hikma Pharmaceuticals Public Limited Company			Equity	20,631	529,214	0.023%
JNL International Index Fund	Rightmove PLC			Equity	99,871	831,132	0.036%
JNL International Index Fund	ING Bank Śląski Spółka Akcyjna			Equity	4,568	312,129	0.013%
JNL International Index Fund	G&L Beier Ref AB			Equity	50,235	827,279	0.036%
JNL International Index Fund	Vestas Wind Systems AIS			Equity	130,804	2,881,808	0.124%
JNL International Index Fund	Zencho Holdings Co. Ltd.			Equity	12,600	700,160	0.030%
JNL International Index Fund	Litco AB (Publ)			Equity	30,860	1,015,652	0.044%
JNL International Index Fund	Epiroc Aktiebolag			Equity	48,456	918,086	0.039%
JNL International Index Fund	Epiroc Aktiebolag			Equity	83,496	1,806,357	0.078%
JNL International Index Fund	Investor Aktiebolag			Equity	75,392	2,322,416	0.100%
JNL International Index Fund	Investor Aktiebolag			Equity	229,066	7,059,981	0.303%
JNL International Index Fund	Hexagon Aktiebolag			Equity	278,785	2,988,726	0.129%
JNL International Index Fund	NIBE Industrier AB			Equity	122,974	1,222,493	0.053%
JNL International Index Fund	Endeavour Group Limited			Equity	183,711	648,125	0.028%
JNL International Index Fund	DNB Bank ASA			Equity	102,088	2,091,439	0.090%
JNL International Index Fund	Dassault Systemes			Equity	92,229	3,660,224	0.157%
JNL International Index Fund	Capitaland Investment Limited			Equity	318,900	1,772,144	0.075%
JNL International Index Fund	Azeelis Group			Equity	15,563	342,055	0.015%
JNL International Index Fund	Universal Music Group N.V.			Equity	126,150	3,308,348	0.142%
JNL International Index Fund	Dassault Aviation			Equity	2,728	562,338	0.024%
JNL International Index Fund	Pitbara Minerals Limited			Equity	360,757	827,837	0.036%
JNL International Index Fund	Autostore Holdings Ltd			Equity	127,783	1,330,413	0.058%
JNL International Index Fund	JD Sports Fashion PLC			Equity	354,041	731,052	0.031%
JNL International Index Fund	Daimler Truck Holding AG			Equity	63,347	2,371,489	0.102%
JNL International Index Fund	Wise PLC			Equity	95,816	860,065	0.037%
JNL International Index Fund	Nippon Express Co. Ltd.			Equity	10,000	1,018,748	0.043%
JNL International Index Fund	Shell PLC			Equity	827,674	26,893,760	1.156%
JNL International Index Fund	Straumann Holding AG			Equity	14,566	2,384,838	0.102%
JNL International Index Fund	Atlas Copco Aktiebolag			Equity	333,766	6,463,605	0.278%
JNL International Index Fund	Atlas Copco Aktiebolag			Equity	206,166	2,799,179	0.117%
JNL International Index Fund	Aviva PLC			Equity	351,339	2,328,908	0.100%
JNL International Index Fund	The Lottery Corporation Limited			Equity	292,002	1,037,131	0.045%
JNL International Index Fund	Fastighets AB Balder			Equity	90,806	797,170	0.034%
JNL International Index Fund	Woodside Energy Group Ltd			Equity	253,288	5,588,115	0.185%
JNL International Index Fund	Compagnie Generale des Etablissements Michelin			Equity	90,176	3,659,941	0.157%
JNL International Index Fund	Var Energi ASA			Equity	109,775	339,716	0.015%
JNL International Index Fund	Haleon PLC			Equity	872,242	4,589,505	0.197%
JNL International Index Fund	CSK PLC			Equity	535,984	11,072,665	0.476%
JNL International Index Fund	Nordea Bank Abp			Equity	417,510	4,922,460	0.212%
JNL International Index Fund	NatWest Group PLC			Equity	811,002	3,728,094	0.160%
JNL International Index Fund	Schroders PLC			Equity	119,005	567,583	0.024%
JNL International Index Fund	Dr. Ing. h.c. F. Porsche Aktiengesellschaft			Equity	14,464	1,154,853	0.050%
JNL International Index Fund	Svenska Cellulosa Aktiebolaget SCA			Equity	74,690	1,090,859	0.047%
JNL International Index Fund	SSAB AB			Equity	82,325	421,924	0.018%
JNL International Index Fund	Rio Tinto PLC			Equity	139,422	9,618,138	0.413%
JNL International Index Fund	Diageo PLC			Equity	293,366	10,423,669	0.448%
JNL International Index Fund	Pearson PLC			Equity	87,106	1,184,526	0.051%
JNL International Index Fund	BAE Systems PLC			Equity	400,093	6,634,085	0.285%
JNL International Index Fund	Lloyds Banking Group PLC			Equity	8,171,428	6,416,382	0.276%
JNL International Index Fund	Ashland Group Public Limited Company			Equity	57,505	4,658,691	0.192%
JNL International Index Fund	DCC Public Limited Company			Equity	13,447	1,918,789	0.080%
JNL International Index Fund	BP P.L.C.			Equity	2,183,256	11,414,771	0.491%
JNL International Index Fund	Associated British Foods PLC			Equity	42,697	1,334,335	0.057%
JNL International Index Fund	Smith & Nephew PLC			Equity	115,420	1,795,110	0.077%
JNL International Index Fund	Coles Group Limited			Equity	175,480	2,191,095	0.094%
JNL International Index Fund	Persimmon Public Limited Company			Equity	43,864	966,192	0.042%
JNL International Index Fund	Standard Chartered PLC			Equity	278,943	2,983,877	0.128%
JNL International Index Fund	Imperial Brands PLC			Equity	113,908	3,313,963	0.142%
JNL International Index Fund	Prudential Public Limited Company			Equity	351,724	2,214,843	0.113%
JNL International Index Fund	AstraZeneca PLC			Equity	204,069	31,833,699	1.368%
JNL International Index Fund	HSBC Holdings PLC			Equity	2,452,042	21,977,987	0.944%
JNL International Index Fund	Legal & General Group PLC			Equity	783,806	2,378,429	0.102%
JNL International Index Fund	British American Tobacco P.L.C.			Equity	263,056	9,821,770	0.429%
JNL International Index Fund	Aniellapasta PLC			Equity	42,738	1,149,850	0.049%
JNL International Index Fund	SSE PLC			Equity	145,062	3,653,827	0.157%
JNL International Index Fund	Taylor Wimpey PLC			Equity	475,216	1,046,842	0.045%
JNL International Index Fund	Weir Group PLC(TIHE)			Equity	34,194	1,890,887	0.082%
JNL International Index Fund	Barrat Developments PLC			Equity	175,467	1,153,527	0.050%
JNL International Index Fund	Kingspan Group Public Limited Company			Equity	20,844	1,963,984	0.084%
JNL International Index Fund	Verbund AG			Equity	8,801	728,435	0.031%
JNL International Index Fund	Washington H. Soul Pattinson and Company Limited			Equity	32,026	772,391	0.033%
JNL International Index Fund	Sartorius Stedim Biotech			Equity	3,756	1,785,503	0.076%
JNL International Index Fund	Allianz SE			Equity	51,650	17,012,289	0.731%
JNL International Index Fund	Telefonaktiebolaget LM Ericsson			Equity	344,626	2,602,254	0.112%
JNL International Index Fund	Nature Energy Group, S.A.			Equity	17,667	456,621	0.020%
JNL International Index Fund	Bollere SE			Equity	96,421	1,649,207	0.072%
JNL International Index Fund	Mediobanca Banca di Credito Finanziario Societa' Per Azioni			Equity	76,048	1,297,052	0.056%
JNL International Index Fund	Huhamaki Oyj			Equity	12,327	486,240	0.021%
JNL International Index Fund	Beiersdorf Aktiengesellschaft			Equity	12,780	1,522,264	0.063%
JNL International Index Fund	Swisscom AG			Equity	3,333	1,938,029	0.083%
JNL International Index Fund	Hang Lung Properties Limited			Equity	182,233	1,767,057	0.076%
JNL International Index Fund	Telenor ASA			Equity	80,031	1,023,695	0.044%
JNL International Index Fund	Bayer Aktiengesellschaft			Equity	120,514	4,068,927	0.175%
JNL International Index Fund	Erste Group Bank AG			Equity	40,331	2,214,843	0.095%
JNL International Index Fund	Infineon Technologies AG			Equity	165,045	5,797,434	0.249%
JNL International Index Fund	U C B			Equity	15,957	2,878,441	0.124%
JNL International Index Fund	Capgemini France			Equity	21,119	4,556,662	0.196%
JNL International Index Fund	Aisin Corporation			Equity	66,600	1,753,215	0.075%
JNL International Index Fund	ANZ Group Holdings Limited			Equity	393,952	8,317,078	0.357%
JNL International Index Fund	Sora Enso Oyj			Equity	79,297	1,015,928	0.044%
JNL International Index Fund	L'Oréal			Equity	32,005	14,328,027	0.616%
JNL International Index Fund	Savigny PLC			Equity	1,957,821	5,874,667	0.252%
JNL International Index Fund	Kerry Group Public Limited Company			Equity	20,152	2,089,483	0.090%
JNL International Index Fund	Gemabi AIS			Equity	8,613	2,090,962	0.090%
JNL International Index Fund	Asahi Group Holdings, Ltd.			Equity	200,100	2,620,965	0.113%
JNL International Index Fund	Santofi			Equity	149,364	17,186,969	0.738%
JNL International Index Fund	KBC Groep			Equity	34,701	2,160,686	0.119%
JNL International Index Fund	Telia Company AB			Equity	298,853	966,829	0.042%
JNL International Index Fund	BASF SE			Equity	117,895	6,255,447	0.269%
JNL International Index Fund	Colony Group			Equity	5,988	287,740	0.012%
JNL International Index Fund	BT Group PLC			Equity	843,539	1,668,207	0.072%
JNL International Index Fund	Continental Aktiengesellschaft			Equity	14,248	923,997	0.040%
JNL International Index Fund	Munchener Ruckversicherungs-Gesellschaft Aktiengesellschaft in Munchen			Equity	17,753	9,801,841	0.421%
JNL International Index Fund	Skandinaviska Enskilda Banken AB			Equity	186,512	2,850,536	0.122%
JNL International Index Fund	Intertek Group Plc			Equity	20,889	1,459,801	0.063%
JNL International Index Fund	Banco Santander, S.A.			Equity	2,040,230	10,439,225	0.449%
JNL International Index Fund	MERCK Kommandgesellschaft auf Aktien			Equity	17,110	3,016,672	0.130%
JNL International Index Fund	SAP SE			Equity	136,130	31,104,523	1.377%
JNL International Index Fund	Henkel AG & Co. KGaA			Equity	12,207	1,038,444	0.045%
JNL International Index Fund	Volters Kluwer N.V.			Equity	31,129	5,247,921	0.226%
JNL International Index Fund	Publicis Groupe SA			Equity	29,784	3,258,384	0.140%
JNL International Index Fund	Siemens Aktiengesellschaft			Equity	93,370	18,904,883	0.812%
JNL International Index Fund	Carrefour			Equity	71,296	1,216,038	0.052%
JNL International Index Fund	Mercedes-Benz Group AG			Equity	105,469	6,833,094	0.294%
JNL International Index Fund	Orange			Equity	233,856	2,681,001	0.115%
JNL International Index Fund	Kering			Equity	9,279	2,655,751	0.114%
JNL International Index Fund	OMV Aktiengesellschaft			Equity	19,659	1,841,387	0.080%
JNL International Index Fund	Deutsche Telekom AG			Equity	456,064	13,401,200	0.576%
JNL International Index Fund	ASICS Corporation			Equity	93,900	2,005,896	0.086%
JNL International Index Fund	ACOM Co., Ltd.			Equity	59,975	1,622,588	0.067%
JNL International Index Fund	Zurich Insurance Group AG			Equity	18,975	11,384,365	0.489%
JNL International Index Fund	Deutsche Bank Aktiengesellschaft			Equity	245,649	4,249,666	0.183%
JNL International Index Fund	Telefonica, S.A.			Equity	623,341	3,049,495	0.131%
JNL International Index Fund	Thales			Equity	12,357	1,966,235	0.084%
JNL International Index Fund	Koninklijke Philips N.V.			Equity	104,137	3,417,434	0.147%
JNL International Index Fund	Assicurazioni Generali Societa' Per Azioni			Equity	132,703	1,638,145	0.070%
JNL International Index Fund	Hermes International			Equity	4,486	11,021,022	0.474%
JNL International Index Fund	E.ON SE			Equity	290,454	4,321,414	0.186%
JNL International Index Fund	Nokia Oyj			Equity	681,799	2,972,826	0.128%
JNL International Index Fund	Elisa Oyj			Equity	18,589	985,489	0.042%
JNL International Index Fund	A.P. Moller - Maersk AIS			Equity	516	867,859	0.037%
JNL International Index Fund	EDP, S.A.			Equity	370,182	1,690,331	0.073%
JNL International Index Fund	UPM-Kymmene Oyj			Equity	70,733	2,370,120	0.102%
JNL International Index Fund	A.P. Moller - Maersk AIS			Equity	298	3,983,247	0.171%
JNL International Index Fund	Pemod Ricard			Equity	26,358	3,978,259	0.171%
JNL International Index Fund	Singapore Technologies Engineering Ltd			Equity	201,600	729,033	0.031%
JNL International Index Fund	Intesa Sanpaolo SPA			Equity	2,105,589	9,020,488	0.388%
JNL International Index Fund	STMMicroelectronics N.V.			Equity	87,025	2,589,268	0.111%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL International Index Fund	Heidelberg Materials AG			Equity	17,097	1,861,876	0.080%
JNL International Index Fund	vostaline AG			Equity	15,657	1,608,623	0.078%
JNL International Index Fund	Warsila Oyj Abp			Equity	65,339	1,463,181	0.063%
JNL International Index Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	37,777	3,339,120	0.143%
JNL International Index Fund	Schneider Electric SE			Equity	72,030	18,988,777	0.816%
JNL International Index Fund	ANA Holdings Inc.			Equity	20,207	2,531,369	0.109%
JNL International Index Fund	Ned PLC			Equity	15,513	2,033,494	0.087%
JNL International Index Fund	Fortum Oyj			Equity	59,443	979,940	0.042%
JNL International Index Fund	Securitas AB			Equity	70,523	896,128	0.039%
JNL International Index Fund	Bank Polska Kasa Opieki - Spolka Akcyjna			Equity	27,301	1,041,863	0.045%
JNL International Index Fund	Freemius SE & Co KGaA			Equity	55,405	2,143,243	0.091%
JNL International Index Fund	Banco Bilbao Vizcaya Argentaria, S.A.			Equity	756,247	8,152,548	0.350%
JNL International Index Fund	A2a S.P.A.			Equity	184,907	427,653	0.018%
JNL International Index Fund	KGHM Polska Miedz Spolka Akcyjna			Equity	18,594	769,466	0.033%
JNL International Index Fund	Deutsche Post AG			Equity	128,949	5,747,924	0.247%
JNL International Index Fund	Endesa, S.A.			Equity	43,092	941,193	0.040%
JNL International Index Fund	Carlsberg A/S			Equity	12,280	1,462,892	0.063%
JNL International Index Fund	LVMH Moet Hennessy Louis Vuitton			Equity	33,883	25,073,836	1.116%
JNL International Index Fund	Vivendi SE			Equity	86,595	1,001,495	0.043%
JNL International Index Fund	Sveabank AB			Equity	129,575	2,751,356	0.118%
JNL International Index Fund	RWE Aktiengesellschaft			Equity	89,199	3,248,075	0.140%
JNL International Index Fund	Givaudan SA			Equity	1,211	6,634,437	0.285%
JNL International Index Fund	Orión S.A.			Equity	76,652	1,189,074	0.051%
JNL International Index Fund	L E Lundbergföretagen Aktiebolag (publ)			Equity	9,844	563,772	0.024%
JNL International Index Fund	SSAB AB			Equity	26,641	139,669	0.006%
JNL International Index Fund	Burberry Group PLC			Equity	49,210	461,289	0.020%
JNL International Index Fund	Danske Bank A/S			Equity	88,730	2,873,042	0.115%
JNL International Index Fund	Hannover Ruck SE			Equity	7,998	2,285,928	0.098%
JNL International Index Fund	Kingfisher PLC			Equity	246,026	1,061,485	0.046%
JNL International Index Fund	Societe Generale			Equity	94,280	2,348,530	0.101%
JNL International Index Fund	Blueways			Equity	27,621	824,641	0.040%
JNL International Index Fund	Papeet SA			Equity	149,502	1,966,976	0.085%
JNL International Index Fund	Chocoladefabriken Lindt & Sprungli AG			Equity	135	1,741,456	0.075%
JNL International Index Fund	Veolia Environnement			Equity	81,357	2,673,972	0.115%
JNL International Index Fund	Airnorth Co., Inc.			Equity	63,976	2,490,197	0.107%
JNL International Index Fund	Akshi Kavel Corporation			Equity	188,050	1,443,039	0.062%
JNL International Index Fund	Adidas AG			Equity	21,038	5,571,653	0.239%
JNL International Index Fund	AGC Inc.			Equity	27,000	875,010	0.038%
JNL International Index Fund	H & M Hennes & Mauritz AB			Equity	76,543	1,304,640	0.056%
JNL International Index Fund	Ramsey Health Care Limited			Equity	25,218	1,466,477	0.061%
JNL International Index Fund	Arbus SE			Equity	77,193	11,299,729	0.486%
JNL International Index Fund	Deutsche Lufthansa Aktiengesellschaft			Equity	75,728	555,107	0.024%
JNL International Index Fund	Koninklijke KPN N.V.			Equity	527,884	2,156,850	0.093%
JNL International Index Fund	TOCHU Corporation			Equity	178,800	9,120,438	0.410%
JNL International Index Fund	ASX Limited			Equity	25,879	1,145,092	0.049%
JNL International Index Fund	Kintetsu Group Holdings Co.,Ltd			Equity	25,800	645,266	0.028%
JNL International Index Fund	Hikari Tsushin, Inc.			Equity	2,400	536,390	0.023%
JNL International Index Fund	Hong Seng Bank Limited			Equity	96,186	1,197,784	0.051%
JNL International Index Fund	Singapore Exchange Limited			Equity	111,000	983,601	0.042%
JNL International Index Fund	Trend Micro Incorporated			Equity	16,600	983,836	0.042%
JNL International Index Fund	Galaxy Entertainment Group Limited			Equity	286,600	1,433,532	0.062%
JNL International Index Fund	Konami Holdings Corporation			Equity	111,900	1,215,138	0.052%
JNL International Index Fund	Sumitomo Mitsui Trust Bank, Limited			Equity	95,488	2,310,398	0.099%
JNL International Index Fund	Kaima Corporation			Equity	62,993	1,198,618	0.052%
JNL International Index Fund	City Developments Limited			Equity	69,400	290,756	0.012%
JNL International Index Fund	Honda Motor Co., Ltd.			Equity	639,831	6,987,268	0.298%
JNL International Index Fund	Chocoladefabriken Lindt & Sprungli AG			Equity	14	1,783,388	0.077%
JNL International Index Fund	Seiko Epson Corporation			Equity	39,000	729,377	0.031%
JNL International Index Fund	Fortescue Ltd			Equity	206,009	2,939,634	0.126%
JNL International Index Fund	Rakuten Group, Inc.			Equity	196,400	1,266,230	0.054%
JNL International Index Fund	Hong Kong And China Gas Company Limited -The			Equity	128,138	2,997,386	0.129%
JNL International Index Fund	Resona Holdings, Inc.			Equity	303,500	2,139,061	0.092%
JNL International Index Fund	Elbit Systems Ltd.			Equity	3,005	596,888	0.026%
JNL International Index Fund	DISCO Corporation			Equity	12,200	3,256,553	0.140%
JNL International Index Fund	OBIC Co., Ltd.			Equity	41,500	1,466,477	0.061%
JNL International Index Fund	The Chiba Bank, Ltd.			Equity	96,951	796,550	0.034%
JNL International Index Fund	Kirin Holdings Company, Limited			Equity	105,300	1,603,342	0.069%
JNL International Index Fund	Mitsubishi HC Capital Inc.			Equity	113,030	815,803	0.035%
JNL International Index Fund	Insurance Australia Group Limited			Equity	308,694	1,576,222	0.068%
JNL International Index Fund	Mitsubishi Motors Corporation			Equity	107,100	295,300	0.013%
JNL International Index Fund	Jardine Cycle & Carriage Limited			Equity	9,500	206,968	0.009%
JNL International Index Fund	MISUMI Group Inc.			Equity	35,246	641,318	0.028%
JNL International Index Fund	Kyocera Corporation			Equity	24,748	1,543,428	0.066%
JNL International Index Fund	Mitsubishi Estate Co., Ltd.			Equity	169,405	2,697,341	0.116%
JNL International Index Fund	BHP Group Limited			Equity	667,587	21,612,690	0.929%
JNL International Index Fund	Mitsubishi Heavy Industries, Ltd.			Equity	438,970	6,537,895	0.281%
JNL International Index Fund	Mitsubishi Electric Corporation			Equity	271,918	4,443,456	0.191%
JNL International Index Fund	Mitsubishi Corporation			Equity	534,990	11,279,619	0.485%
JNL International Index Fund	ICL Group Ltd			Equity	99,582	424,462	0.018%
JNL International Index Fund	Mitsui Fudosan Co., Ltd.			Equity	367,692	3,479,741	0.150%
JNL International Index Fund	Subaru Corporation			Equity	77,826	1,386,627	0.060%
JNL International Index Fund	Koto Manufacturing Co., Ltd.			Equity	29,800	416,498	0.018%
JNL International Index Fund	Mitsui Chemicals, Inc.			Equity	23,900	649,304	0.028%
JNL International Index Fund	Mitsubishi UFJ Financial Group Inc			Equity	1,540,239	15,961,366	0.686%
JNL International Index Fund	Westpac Banking Corporation			Equity	458,519	10,072,798	0.433%
JNL International Index Fund	Central Japan Railway Company			Equity	129,400	2,997,386	0.129%
JNL International Index Fund	Japan Tobacco Inc.			Equity	145,100	4,228,401	0.182%
JNL International Index Fund	The Kansai Electric Power Company, Incorporated			Equity	103,700	1,732,066	0.074%
JNL International Index Fund	Panasonic Holdings Corporation			Equity	299,153	2,653,733	0.114%
JNL International Index Fund	Osaka Corporation			Equity	33,050	935,301	0.039%
JNL International Index Fund	Hankyu Hanshin Holdings, Inc.			Equity	29,800	923,841	0.040%
JNL International Index Fund	ABC-Mart, Inc.			Equity	13,552	289,797	0.012%
JNL International Index Fund	Canon Inc.			Equity	127,520	4,161,399	0.179%
JNL International Index Fund	Jardine Matheson Holdings Limited			Equity	22,065	2,716,968	0.088%
JNL International Index Fund	Mizuho Bank, Ltd.			Equity	30,571	939,941	0.040%
JNL International Index Fund	DBS Group Holdings Ltd			Equity	276,857	8,213,249	0.353%
JNL International Index Fund	MTR Corporation Limited			Equity	209,474	784,481	0.034%
JNL International Index Fund	Hoya Corporation			Equity	46,512	6,439,441	0.277%
JNL International Index Fund	Komatsu Ltd.			Equity	124,100	3,526,584	0.152%
JNL International Index Fund	Bridgestone Corporation			Equity	77,400	2,972,913	0.128%
JNL International Index Fund	Oracle Corporation Japan			Equity	4,600	472,493	0.020%
JNL International Index Fund	Sunovion Group Limited			Equity	186,573	3,129,217	0.092%
JNL International Index Fund	Chubu Electric Power Co., Ltd.			Equity	101,263	1,206,420	0.052%
JNL International Index Fund	Dai Nippon Printing Co., Ltd.			Equity	60,964	1,095,523	0.047%
JNL International Index Fund	Fast Retailing Co., Ltd.			Equity	22,900	7,619,558	0.327%
JNL International Index Fund	Kao Corporation			Equity	61,500	3,044,287	0.131%
JNL International Index Fund	CLP Holdings Limited			Equity	244,400	2,146,104	0.092%
JNL International Index Fund	Nittara Co., Ltd.			Equity	26,000	746,226	0.032%
JNL International Index Fund	Kurita Water Industries Ltd			Equity	14,300	620,653	0.027%
JNL International Index Fund	Daiichi Industries, Ltd.			Equity	38,600	5,404,809	0.232%
JNL International Index Fund	Square Enix Holdings Co., Ltd.			Equity	9,000	359,887	0.015%
JNL International Index Fund	Izumi Motors Limited			Equity	77,300	1,075,141	0.046%
JNL International Index Fund	BlueScope Steel Limited			Equity	59,531	924,971	0.040%
JNL International Index Fund	Murata Manufacturing Co., Ltd.			Equity	249,700	4,852,175	0.213%
JNL International Index Fund	Daito Trust Construction Co., Ltd.			Equity	7,889	985,908	0.042%
JNL International Index Fund	Kawasaki Heavy Industries, Ltd.			Equity	20,000	828,417	0.036%
JNL International Index Fund	Daiichi Sankyo Co., Ltd.			Equity	47,000	914,005	0.039%
JNL International Index Fund	HEA Group Ltd			Equity	6,965	972,632	0.042%
JNL International Index Fund	Chugai Pharmaceutical Co., Ltd.			Equity	89,990	4,196,294	0.180%
JNL International Index Fund	Eisai Co., Ltd.			Equity	35,100	1,325,944	0.057%
JNL International Index Fund	Fujitsu Limited			Equity	225,500	4,645,501	0.200%
JNL International Index Fund	Daiichi House Industry Co., Ltd			Equity	84,000	2,674,027	0.115%
JNL International Index Fund	KYOCERA Corporation			Equity	180,400	2,133,105	0.092%
JNL International Index Fund	Computershare Limited			Equity	75,910	1,325,409	0.057%
JNL International Index Fund	Kikkoman Corporation			Equity	113,940	1,302,999	0.056%
JNL International Index Fund	Mitsui O.S.K. Lines, Ltd.			Equity	47,500	1,088,416	0.073%
JNL International Index Fund	Hitech, Ltd.			Equity	611,200	15,935,087	0.684%
JNL International Index Fund	Marubeni Corporation			Equity	222,000	3,725,798	0.160%
JNL International Index Fund	Brother Industries, Ltd.			Equity	32,800	651,660	0.028%
JNL International Index Fund	Makita Corporation			Equity	32,298	1,096,128	0.047%
JNL International Index Fund	AEON Co., Ltd.			Equity	113,900	3,051,689	0.131%
JNL International Index Fund	Onica Limited			Equity	61,741	792,698	0.034%
JNL International Index Fund	Power Assets Holdings Limited			Equity	179,593	1,147,064	0.049%
JNL International Index Fund	Commonwealth Bank of Australia			Equity	220,605	20,670,997	0.888%
JNL International Index Fund	Hitachi Construction Machinery Co., Ltd.			Equity	12,300	305,773	0.013%
JNL International Index Fund	Wharf (Holdings) Limited, The			Equity	116,000	3,999,946	0.174%
JNL International Index Fund	Bank Leumi Le-Israel B.M.			Equity	200,372	1,963,335	0.084%
JNL International Index Fund	JFE Holdings, Inc.			Equity	85,775	1,180,116	0.051%
JNL International Index Fund	Rio Tinto Limited			Equity	49,307	4,385,281	0.189%
JNL International Index Fund	CSL Limited			Equity	63,747	12,748,783	0.548%
JNL International Index Fund	Cochlear Limited			Equity	8,050	1,584,793	0.068%
JNL International Index Fund	Fuji Electric Co., Ltd.			Equity	18,100	1,099,583	0.047%
JNL International Index Fund	Mizuho Financial Group, Inc.			Equity	333,623	7,022,243	0.302%
JNL International Index Fund	NTT DATA Corporation			Equity	76,500	1,419,860	0.061%
JNL International Index Fund	Australian Pipeline Trust			Equity	163,893	880,120	0.038%
JNL International Index Fund	SBI Holdings, Inc.			Equity	40,470	943,710	0.041%
JNL International Index Fund	East Japan Railway Company			Equity	145,358	2,909,387	0.125%
JNL International Index Fund	KDDI Corporation			Equity	197,246	6,408,179	0.275%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL International Index Fund	Telstra Corporation Limited			Equity	527,895	1,417,766	0.061%
JNL International Index Fund	Pan Pacific International Holdings Corporation			Equity	69,249	1,389,760	0.077%
JNL International Index Fund	FANUC Corporation			Equity	118,800	3,481,096	0.150%
JNL International Index Fund	Kubota Corporation			Equity	150,600	2,145,349	0.092%
JNL International Index Fund	Daiwa Securities Group Inc.			Equity	184,300	1,325,246	0.057%
JNL International Index Fund	Fisher & Paykel Healthcare Corporation Limited			Equity	70,663	1,556,158	0.067%
JNL International Index Fund	Israel Discount Bank Limited			Equity	161,237	901,277	0.039%
JNL International Index Fund	Kyowa Kirin Co., Ltd.			Equity	33,305	585,913	0.025%
JNL International Index Fund	Mitsui & Co., Ltd.			Equity	395,800	8,936,210	0.384%
JNL International Index Fund	Orion Energy Limited			Equity	229,894	1,599,038	0.069%
JNL International Index Fund	Keset Electric Railway Co., Ltd.			Equity	21,133	629,561	0.027%
JNL International Index Fund	Tokio Marine Holdings, Inc.			Equity	259,534	9,636,865	0.414%
JNL International Index Fund	LY Corporation			Equity	367,800	1,075,445	0.046%
JNL International Index Fund	Transurban Holdings Limited			Equity	404,113	3,677,092	0.158%
JNL International Index Fund	FLUFLUM Holdings Corporation			Equity	158,124	4,107,643	0.177%
JNL International Index Fund	McDonald's Holdings Company (Japan), Ltd.			Equity	11,000	524,265	0.023%
JNL International Index Fund	Bank Hapoalim Ltd.			Equity	169,711	1,697,086	0.073%
JNL International Index Fund	NGK Insulators, Ltd.			Equity	36,600	487,603	0.021%
JNL International Index Fund	Sagitt Corporation			Equity	28,340	693,398	0.029%
JNL International Index Fund	Henderson Land Development Company Limited			Equity	189,533	600,238	0.026%
JNL International Index Fund	Nomura Holdings, Inc.			Equity	379,194	1,991,722	0.086%
JNL International Index Fund	Hamamatsu Photonics K.K.			Equity	39,400	521,492	0.022%
JNL International Index Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	519,210	11,771,403	0.484%
JNL International Index Fund	Hong Kong Exchanges and Clearing Limited			Equity	156,467	6,428,716	0.270%
JNL International Index Fund	Capcom Co., Ltd.			Equity	41,400	968,308	0.042%
JNL International Index Fund	Nomura Research Institute, Ltd.			Equity	54,208	2,011,668	0.086%
JNL International Index Fund	Aristocrat Leisure Limited			Equity	82,552	3,355,676	0.144%
JNL International Index Fund	Westfarmers Limited			Equity	149,053	7,387,238	0.317%
JNL International Index Fund	Centrica PLC			Equity	716,391	1,119,260	0.048%
JNL International Index Fund	West Japan Railway Company			Equity	62,900	1,209,490	0.052%
JNL International Index Fund	Nippon Paint Holdings Co., Ltd.			Equity	124,500	1,824,776	0.078%
JNL International Index Fund	Saffron			Equity	45,361	10,687,150	0.459%
JNL International Index Fund	Tenumo Corporation			Equity	197,000	3,739,916	0.161%
JNL International Index Fund	Northern Star Resources Ltd			Equity	152,970	1,683,140	0.072%
JNL International Index Fund	Minebeamsums Inc.			Equity	49,300	980,075	0.042%
JNL International Index Fund	Nex Corporation			Equity	33,701	3,153,908	0.140%
JNL International Index Fund	Mazda Motor Corporation			Equity	81,300	632,656	0.027%
JNL International Index Fund	ABB Ltd			Equity	209,260	12,141,676	0.522%
JNL International Index Fund	Yamato Holdings Co., Ltd.			Equity	44,752	3,516,530	0.152%
JNL International Index Fund	DENSO Corporation			Equity	286,100	4,326,143	0.187%
JNL International Index Fund	Nippon Steel Corporation			Equity	121,621	2,780,337	0.119%
JNL International Index Fund	Tokyo Gas Co., Ltd.			Equity	54,100	1,270,531	0.055%
JNL International Index Fund	Nippon Yusen Kabushiki Kaisha			Equity	62,000	2,324,331	0.100%
JNL International Index Fund	Olympus Corporation			Equity	158,700	2,953,311	0.125%
JNL International Index Fund	Tokyo Electron Limited			Equity	59,057	10,592,107	0.455%
JNL International Index Fund	Takeda Pharmaceutical Co Ltd			Equity	206,062	6,044,954	0.260%
JNL International Index Fund	Ono Pharmaceutical Co., Ltd.			Equity	59,100	807,030	0.035%
JNL International Index Fund	Nestle S.A.			Equity	341,011	34,237,458	1.471%
JNL International Index Fund	Nissan Chemical Corporation			Equity	17,600	638,255	0.027%
JNL International Index Fund	Nidec Corporation			Equity	133,600	2,827,852	0.122%
JNL International Index Fund	Powszechna Kasa Oszczednosci Bank Polski Spolka Akcyjna			Equity	112,813	1,642,824	0.071%
JNL International Index Fund	Tokuy Corporation			Equity	81,400	1,056,904	0.045%
JNL International Index Fund	Nippon Telegraph and Telephone Corporation			Equity	3,658,325	3,806,276	0.164%
JNL International Index Fund	Nitto Denko Corporation			Equity	90,285	1,535,022	0.066%
JNL International Index Fund	Shimano Inc.			Equity	11,100	2,096,412	0.090%
JNL International Index Fund	Unichem Corporation			Equity	50,558	1,825,778	0.078%
JNL International Index Fund	Nissan Motor Co., Ltd.			Equity	288,000	824,377	0.035%
JNL International Index Fund	Yema - Rete Elettrica Nazionale Societa Per Azioni			Equity	180,378	1,626,272	0.070%
JNL International Index Fund	Osaka Gas Co., Ltd.			Equity	52,900	1,207,611	0.052%
JNL International Index Fund	Sony Group Corporation			Equity	778,540	15,215,371	0.654%
JNL International Index Fund	Admiral Group PLC			Equity	30,181	1,133,908	0.048%
JNL International Index Fund	Odakyu Electric Railway Co., Ltd.			Equity	43,214	486,002	0.021%
JNL International Index Fund	Astellas Pharma Inc.			Equity	238,431	2,792,317	0.120%
JNL International Index Fund	SMC Corporation			Equity	1,300	3,268,817	0.140%
JNL International Index Fund	Tony Industries, Inc.			Equity	206,200	2,926,363	0.123%
JNL International Index Fund	SoftBank Group Corp			Equity	128,161	7,586,710	0.326%
JNL International Index Fund	TOPPAN Holdings Inc.			Equity	40,500	1,206,460	0.052%
JNL International Index Fund	Telecom Italia S.p.A.			Equity	1,385,997	985,778	0.041%
JNL International Index Fund	Woolworths Group Limited			Equity	153,855	3,548,543	0.152%
JNL International Index Fund	OMRON Corporation			Equity	25,041	1,153,805	0.050%
JNL International Index Fund	Equinor ASA			Equity	99,938	2,528,866	0.109%
JNL International Index Fund	Ricott Company, Ltd.			Equity	78,641	857,410	0.037%
JNL International Index Fund	GMS Chemie Holding AG			Equity	905	760,023	0.032%
JNL International Index Fund	Yakult Honsha Co., Ltd.			Equity	36,748	857,346	0.037%
JNL International Index Fund	ACS, Actividades de Construcción y Servicios, S.A.			Equity	26,760	1,233,333	0.053%
JNL International Index Fund	Santos Limited			Equity	410,102	1,996,740	0.086%
JNL International Index Fund	Sikorsky AB			Equity	43,195	990,460	0.043%
JNL International Index Fund	Tosoh Corporation			Equity	40,798	556,708	0.024%
JNL International Index Fund	Singapore Telecommunications Limited			Equity	1,042,365	2,617,187	0.112%
JNL International Index Fund	Obayashi Corporation			Equity	95,400	1,233,528	0.053%
JNL International Index Fund	OTO Ltd.			Equity	22,261	831,369	0.036%
JNL International Index Fund	Yokogawa Electric Corporation			Equity	36,200	931,969	0.040%
JNL International Index Fund	Telecom Italia S.p.A.			Equity	768,123	244,334	0.011%
JNL International Index Fund	Yamaha Motor Co., Ltd.			Equity	121,900	1,094,184	0.047%
JNL International Index Fund	M3, Inc.			Equity	59,100	591,846	0.025%
JNL International Index Fund	Nisa Ltd			Equity	8,194	1,673,721	0.061%
JNL International Index Fund	Tokyo Century Corporation			Equity	22,000	252,409	0.011%
JNL International Index Fund	Sham S.P.A.			Equity	289,549	1,474,492	0.063%
JNL International Index Fund	Spark New Zealand Limited			Equity	228,062	563,447	0.020%
JNL International Index Fund	Shimadzu Corporation			Equity	30,000	1,351,725	0.058%
JNL International Index Fund	Toyota Motor Corporation			Equity	1,561,630	28,272,862	1.215%
JNL International Index Fund	Singapore Airlines Limited			Equity	178,440	945,588	0.041%
JNL International Index Fund	Toyota Tsusho Corporation			Equity	93,900	1,728,467	0.074%
JNL International Index Fund	Tokyo Electric Power Company Holdings, Inc.			Equity	84,400	845,126	0.036%
JNL International Index Fund	Lonza Group AG			Equity	9,201	5,829,884	0.251%
JNL International Index Fund	Swiss Life Holding AG			Equity	3,650	3,051,134	0.131%
JNL International Index Fund	Renesas Electronics Corporation			Equity	195,374	2,846,624	0.122%
JNL International Index Fund	Sino Land Company Limited			Equity	478,200	1,523,172	0.062%
JNL International Index Fund	National Australia Bank Limited			Equity	406,415	10,510,066	0.452%
JNL International Index Fund	The Swatch Group AG			Equity	3,901	834,458	0.036%
JNL International Index Fund	Sumitomo Corporation			Equity	161,100	3,683,034	0.158%
JNL International Index Fund	United Overseas Bank Limited			Equity	175,813	4,392,686	0.189%
JNL International Index Fund	Secom Co., Ltd.			Equity	55,400	2,062,384	0.089%
JNL International Index Fund	Hulic Co., Ltd.			Equity	75,300	767,200	0.033%
JNL International Index Fund	Toyo Suisan Kaisha, Ltd.			Equity	13,400	886,272	0.038%
JNL International Index Fund	Heineken N.V.			Equity	37,301	3,388,730	0.142%
JNL International Index Fund	Shimizu Corporation			Equity	75,200	742,631	0.032%
JNL International Index Fund	Shionogi & Co., Ltd.			Equity	115,377	1,674,522	0.072%
JNL International Index Fund	AXA			Equity	232,318	9,965,399	0.385%
JNL International Index Fund	Shin-Etsu Chemical Co., Ltd.			Equity	263,655	11,131,587	0.478%
JNL International Index Fund	Sumitomo Electric Industries, Ltd.			Equity	101,900	1,673,390	0.072%
JNL International Index Fund	The Swatch Group AG			Equity	7,029	301,770	0.013%
JNL International Index Fund	Oriental Land Co., Ltd.			Equity	145,200	3,749,976	0.161%
JNL International Index Fund	Holcim AG			Equity	63,269	6,186,036	0.269%
JNL International Index Fund	Shiseido Company, Limited			Equity	50,300	1,359,035	0.058%
JNL International Index Fund	Yara International ASA			Equity	20,581	652,375	0.028%
JNL International Index Fund	Nippon Sanso Holdings Corporation			Equity	25,500	933,066	0.040%
JNL International Index Fund	LPP Spolka Akcyjna			Equity	138	559,505	0.024%
JNL International Index Fund	Deutsche Boerse Aktiengesellschaft			Equity	24,134	5,071,163	0.214%
JNL International Index Fund	Swire Pacific Limited			Equity	59,500	515,700	0.022%
JNL International Index Fund	Techtronic Industries Company Limited			Equity	193,000	2,900,285	0.125%
JNL International Index Fund	Sumitomo Realty & Development Co., Ltd.			Equity	62,500	2,114,652	0.091%
JNL International Index Fund	Societe d'Exploitation Hoteliere			Equity	11,244	620,242	0.026%
JNL International Index Fund	Sekisui Chemical Co., Ltd.			Equity	49,500	783,177	0.034%
JNL International Index Fund	Sun Hung Kai Properties Limited			Equity	250,115	2,719,499	0.117%
JNL International Index Fund	Nissan Food Holdings Co., Ltd.			Equity	30,700	865,574	0.037%
JNL International Index Fund	J Sainsbury PLC			Equity	215,716	4,853,519	0.203%
JNL International Index Fund	T&D Holdings, Inc.			Equity	65,900	1,171,611	0.050%
JNL International Index Fund	Roche Holding AG			Equity	91,092	29,018,457	1.247%
JNL International Index Fund	Enel S.p.A.			Equity	1,022,243	8,173,197	0.351%
JNL International Index Fund	Synerex Corporation			Equity	76,578	1,519,425	0.065%
JNL International Index Fund	Toyota Industries Corporation			Equity	22,600	1,763,944	0.076%
JNL International Index Fund	Sekisui House, Ltd.			Equity	82,200	2,284,824	0.098%
JNL International Index Fund	Sonova Holding AG			Equity	6,387	2,298,764	0.099%
JNL International Index Fund	EssilorLuxoft			Equity	38,300	9,052,569	0.389%
JNL International Index Fund	Credit Agricole SA			Equity	181,418	2,617,973	0.109%
JNL International Index Fund	BNP Paribas			Equity	136,931	9,381,259	0.403%
JNL International Index Fund	Mowl ASA			Equity	58,871	1,059,570	0.046%
JNL International Index Fund	Nitori Holdings Co., Ltd.			Equity	10,500	1,564,790	0.067%
JNL International Index Fund	ORIX Corporation			Equity	153,500	3,618,520	0.154%
JNL International Index Fund	Japan Exchange Group, Inc.			Equity	140,200	1,837,012	0.079%
JNL International Index Fund	Mizrahi Tefahot Bank Ltd			Equity	20,565	804,215	0.035%
JNL International Index Fund	Yaskawa Electric Corporation			Equity	32,100	1,131,076	0.049%
JNL International Index Fund	QBE Insurance Group Limited			Equity	197,090	2,262,433	0.097%
JNL International Index Fund	Groupe Bruxelles Lambert - Groep Brussel Lambert			Equity	10,903	849,913	0.037%
JNL International Index Fund	Alfa Laval AB			Equity	37,477	1,801,096	0.077%
JNL International Index Fund	Compassie De Saint-Gobain			Equity	60,087	5,467,406	0.235%
JNL International Index Fund	Toho Co., Ltd.			Equity	15,300	623,415	0.027%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL International Index Fund	Qantas Airways Limited			Equity	114,795	589,730	0.025%
JNL International Index Fund	Taseco Corporation			Equity	24,400	1,077,660	0.046%
JNL International Index Fund	ROHM Co., Ltd.			Equity	46,160	527,057	0.023%
JNL International Index Fund	Sonic Healthcare Limited			Equity	59,623	1,126,386	0.048%
JNL International Index Fund	TOBU Railway Co., LTD.			Equity	28,200	496,762	0.021%
JNL International Index Fund	Suzuki Motor Corporation			Equity	240,500	2,900,664	0.116%
JNL International Index Fund	TDK Corporation			Equity	250,500	3,244,804	0.139%
JNL International Index Fund	Getinge AB			Equity	28,617	617,245	0.027%
JNL International Index Fund	Experian PLC			Equity	121,100	6,382,583	0.274%
JNL International Index Fund	Heineken Holding N.V.			Equity	16,717	1,263,120	0.054%
JNL International Index Fund	Novartis AG			Equity	266,970	29,621,535	1.273%
JNL International Index Fund	Sumitomo Metal Mining Co., Ltd.			Equity	35,000	1,057,009	0.045%
JNL International Index Fund	Santander Bank Polska Spółka Akcyjna			Equity	4,259	502,693	0.022%
JNL International Index Fund	Elii S.P.A.			Equity	282,057	4,298,951	0.185%
JNL International Index Fund	Nintendo Co., Ltd.			Equity	139,220	7,463,743	0.321%
JNL International Index Fund	Severn Trent PLC			Equity	35,530	1,255,488	0.054%
JNL International Index Fund	Danone			Equity	84,352	6,140,607	0.264%
JNL International Index Fund	Hargreaves Lansdown PLC			Equity	47,939	716,351	0.031%
JNL International Index Fund	Aktiebolaget SKF			Equity	46,354	922,405	0.040%
JNL International Index Fund	Nomura Real Estate Holdings, Inc.			Equity	14,085	387,280	0.017%
JNL International Index Fund	Seven & I Holdings Co., Ltd.			Equity	316,280	4,816,056	0.207%
JNL International Index Fund	Koppel Ltd.			Equity	182,136	936,047	0.040%
JNL International Index Fund	ZOZO, Inc.			Equity	17,700	649,352	0.028%
JNL International Index Fund	Andritz AG			Equity	8,468	601,433	0.026%
JNL International Index Fund	CaixaBank, S.A.			Equity	513,387	3,058,649	0.131%
JNL International Index Fund	Bunzl Public Limited Company			Equity	42,816	2,026,978	0.087%
JNL International Index Fund	Unilever PLC			Equity	326,206	21,151,265	0.909%
JNL International Index Fund	Mitsubishi Chemical Group Corporation			Equity	191,419	1,248,878	0.054%
JNL International Index Fund	Reckitt Benckiser Group PLC			Equity	93,567	5,717,058	0.246%
JNL International Index Fund	Orion Oyj			Equity	13,980	765,905	0.033%
JNL International Index Fund	Aéroports de Paris			Equity	5,025	644,202	0.028%
JNL International Index Fund	Raffiesen Bank International AG			Equity	19,167	382,815	0.016%
JNL International Index Fund	Oversea-Chinese Banking Corporation Limited			Equity	426,455	4,998,487	0.215%
JNL International Index Fund	Whitbread PLC			Equity	23,030	967,218	0.042%
JNL International Index Fund	VNGC			Equity	61,938	7,240,171	0.311%
JNL International Index Fund	Winn-Dixie International Limited			Equity	252,470	659,743	0.028%
JNL International Index Fund	Effage			Equity	9,718	938,280	0.040%
JNL International Index Fund	Engie			Equity	242,914	4,196,940	0.180%
JNL International Index Fund	IPSEN			Equity	4,849	596,608	0.026%
JNL International Index Fund	Partners Group Holding AG			Equity	2,825	1,600,535	0.182%
JNL International Index Fund	MTU Aero Engines AG			Equity	6,901	2,153,539	0.093%
JNL International Index Fund	Kone Corporation			Equity	46,487	2,780,372	0.119%
JNL International Index Fund	Recordati Industria Chimica E Farmaceutica S.P.A. In Breve Recordati S.P.A.			Equity	13,192	745,760	0.032%
JNL International Index Fund	Brambbles Limited			Equity	182,520	2,492,128	0.105%
JNL International Index Fund	Gebert AG			Equity	4,430	2,895,131	0.124%
JNL International Index Fund	Galp Energia, SGPS, S.A.			Equity	56,262	1,052,208	0.045%
JNL International Index Fund	Physvian S.A.			Equity	35,621	2,580,888	0.111%
JNL International Index Fund	Sandvik Aktiebolag			Equity	123,425	2,758,725	0.119%
JNL International Index Fund	Aktiebolaget Industrivarden			Equity	19,869	731,092	0.031%
JNL International Index Fund	Leonardo S.p.A.			Equity	53,026	1,186,382	0.051%
JNL International Index Fund	SEK Limited			Equity	44,452	770,298	0.033%
JNL International Index Fund	Macquarie Group Limited			Equity	47,862	7,697,227	0.311%
JNL International Index Fund	Getlink S.E.			Equity	38,933	693,006	0.030%
JNL International Index Fund	Symrise AG			Equity	16,641	2,298,855	0.099%
JNL International Index Fund	Aktiebolaget Volvo			Equity	195,561	5,171,688	0.222%
JNL International Index Fund	Norsk Hydro ASA			Equity	176,469	1,145,508	0.049%
JNL International Index Fund	Logrand			Equity	34,486	3,967,193	0.170%
JNL International Index Fund	Kühne & Nagel International AG			Equity	6,620	1,809,369	0.078%
JNL International Index Fund	Metso Oyj			Equity	88,104	955,442	0.041%
JNL International Index Fund	SI Group PLC			Equity	128,626	5,708,066	0.245%
JNL International Index Fund	London Stock Exchange Group PLC			Equity	62,479	952,128	0.040%
JNL International Index Fund	Reix PLC			Equity	246,459	11,629,406	0.500%
JNL International Index Fund	Bandai Namco Holdings Inc.			Equity	86,700	1,988,526	0.085%
JNL International Index Fund	Bureau Veritas			Equity	42,113	1,392,021	0.060%
JNL International Index Fund	Schindler Holding AG			Equity	5,519	1,079,076	0.047%
JNL International Index Fund	Neste Oyj			Equity	57,963	1,119,669	0.048%
JNL International Index Fund	Impeo Corporation			Equity	120,900	1,652,475	0.071%
JNL International Index Fund	Fukushima Financial Group, Inc.			Equity	25,000	652,818	0.028%
JNL International Index Fund	Orla ASA			Equity	100,763	949,533	0.041%
JNL International Index Fund	Smiths Group PLC			Equity	44,393	996,575	0.043%
JNL International Index Fund	SUMCO Corporation			Equity	43,000	463,247	0.020%
JNL International Index Fund	Daiichi Sankyo Company, Limited			Equity	253,162	8,370,657	0.360%
JNL International Index Fund	Renzol Initial PLC			Equity	309,588	1,516,951	0.065%
JNL International Index Fund	MatsukyoCockara & Co.			Equity	54,400	901,763	0.039%
JNL International Index Fund	Anglo American PLC			Equity	161,109	5,242,548	0.225%
JNL International Index Fund	Hussvarma Aktiebolag			Equity	43,198	302,250	0.013%
JNL International Index Fund	OSV AIS			Equity	23,483	4,638,498	0.199%
JNL International Index Fund	Aker BP ASA			Equity	37,446	800,510	0.034%
JNL International Index Fund	TotalEnergies SE			Equity	281,913	18,592,140	0.799%
JNL International Index Fund	Idemitsu Kosan Co., Ltd.			Equity	128,370	944,669	0.041%
JNL International Index Fund	Islebirds Société Anonyme			Equity	760,868	11,187,053	0.500%
JNL International Index Fund	L'Air Liquide, société anonyme pour l'Etude et l'Exploitation des procédés Georges Claude			Equity	75,811	14,642,326	0.629%
JNL International Index Fund	Schindler Holding AG			Equity	2,559	727,994	0.031%
JNL International Index Fund	NEXON Co., Ltd.			Equity	54,300	1,071,083	0.046%
JNL International Index Fund	Jerónimo Martins, SGPS, S.A.			Equity	38,924	784,697	0.033%
JNL International Index Fund	Critian PLC			Equity	87,376	1,992,410	0.086%
JNL International Index Fund	Brenntag SE			Equity	16,570	1,236,228	0.053%
JNL International Index Fund	Powezeczny Zakład Ubezpieczeń Spółka Akcyjna			Equity	76,594	925,172	0.040%
JNL International Index Fund	Evonik Industries AG			Equity	25,362	584,405	0.026%
JNL International Index Fund	Sompo Holdings, Inc.			Equity	122,871	2,807,218	0.121%
JNL International Index Fund	Hoshizaki Corporation			Equity	16,500	573,957	0.025%
JNL International Index Fund	AAA Group Limited			Equity	1,458,690	12,691,888	0.545%
JNL International Index Fund	Meij Holdings Co., Ltd.			Equity	36,416	922,762	0.040%
JNL International Index Fund	Dai-ichi Life Holdings, Inc.			Equity	129,400	3,901,403	0.162%
JNL International Index Fund	Glencore PLC			Equity	1,294,588	7,387,543	0.317%
JNL International Index Fund	Gjensidige Forsikring ASA			Equity	24,412	456,925	0.020%
JNL International Index Fund	Otsuka Holdings Co., Ltd.			Equity	63,345	3,596,663	0.155%
JNL International Index Fund	Aristel Group Ltd.			Equity	5,000	1,549,526	0.015%
JNL International Index Fund	Swiss Re AG			Equity	36,676	5,067,305	0.218%
JNL International Index Fund	Novozymes A/S			Equity	46,542	3,351,863	0.144%
JNL International Index Fund	Amadeus IT Holding, S.A.			Equity	57,559	4,156,715	0.179%
JNL International Index Fund	Santa China Ltd.			Equity	331,780	3,686,940	0.096%
JNL International Index Fund	Treasury Wine Estates Limited			Equity	103,203	870,604	0.037%
JNL International Index Fund	Fresnillo PLC			Equity	24,166	198,545	0.009%
JNL International Index Fund	ENEOS Holdings, Inc.			Equity	390,247	2,162,448	0.093%
JNL International Index Fund	Edenred			Equity	32,345	1,224,118	0.053%
JNL International Index Fund	MS&AD Insurance Group Holdings, Inc.			Equity	177,436	4,231,787	0.182%
JNL International Index Fund	NMC Health PLC			Equity	11,652	0	0.000%
JNL International Index Fund	Pandora AIS			Equity	10,722	1,767,667	0.076%
JNL International Index Fund	HKT Trust			Equity	452,120	577,318	0.025%
JNL International Index Fund	International Consolidated Airlines Group, S.A.			Equity	493,658	1,355,744	0.058%
JNL International Index Fund	United Utilities PLC			Equity	88,614	1,238,957	0.053%
JNL International Index Fund	Swire Properties Limited			Equity	145,600	302,476	0.013%
JNL International Index Fund	Julius Bar Gruppe AG			Equity	25,518	1,536,677	0.066%
JNL International Index Fund	Rolls-Royce Holdings PLC			Equity	11,197,795	7,929,797	0.341%
JNL International Index Fund	Japan Airlines Co., Ltd.			Equity	18,000	320,748	0.014%
JNL International Index Fund	Aurizon Holdings Limited			Equity	252,013	616,002	0.026%
JNL International Index Fund	Siemens Healthineers AG			Equity	35,109	2,107,560	0.091%
JNL International Index Fund	Suntory Beverage & Food Limited			Equity	17,040	643,060	0.028%
JNL International Index Fund	Compagnie Financière Richemont SA			Equity	70,500	11,132,940	0.478%
JNL International Index Fund	Ferrari N.V.			Equity	16,102	7,545,167	0.324%
JNL International Index Fund	WPP 2012 Limited			Equity	138,490	1,416,727	0.061%
JNL International Index Fund	Tele2 AB			Equity	75,010	1,949,682	0.082%
JNL International Index Fund	Novonia SE			Equity	108,334	3,955,847	0.170%
JNL International Index Fund	Koninklijke Ahold Delhaize N.V.			Equity	121,365	4,200,611	0.181%
JNL International Index Fund	Concordia Financial Group, Ltd.			Equity	156,900	888,322	0.038%
JNL International Index Fund	Coca-Cola European PLC Partners PLC			Equity	29,916	2,124,360	0.091%
JNL International Index Fund	National Grid PLC			Equity	642,624	8,857,363	0.381%
JNL International Index Fund	ASML Holding N.V.			Equity	51,908	43,363,752	1.864%
JNL International Index Fund	Redsea Corporation SA			Equity	48,335	938,798	0.040%
JNL International Index Fund	Tokyo Mitsubishi Holdings Co., Ltd.			Equity	83,453	586,574	0.025%
JNL International Index Fund	Dino Polska Spółka Akcyjna			Equity	6,198	564,458	0.024%
JNL International Index Fund	Coloplast A/S			Equity	18,888	2,467,657	0.106%
JNL International Index Fund	The Sage Group PLC			Equity	126,360	1,737,467	0.075%
JNL International Index Fund	Agies SANV			Equity	20,367	1,087,488	0.047%
JNL International Index Fund	Genting Singapore Limited			Equity	786,900	641,940	0.028%
JNL International Index Fund	Coca-Cola HBC AG			Equity	25,958	926,231	0.040%
JNL International Index Fund	Convatec Group PLC			Equity	226,639	693,093	0.030%
JNL International Index Fund	COMMERZBANK Aktiengesellschaft			Equity	125,832	2,324,621	0.100%
JNL International Index Fund	Compass Group PLC			Equity	224,921	2,114,967	0.101%
JNL International Index Fund	NN Group N.V.			Equity	35,604	1,769,550	0.076%
JNL International Index Fund	Anheuser-Busch InBev			Equity	122,674	8,116,495	0.349%
JNL International Index Fund	Pirelli & C. S.p.A.			Equity	40,815	247,662	0.011%
JNL International Index Fund	ING Group N.V.			Equity	430,218	6,828,570	0.306%
JNL International Index Fund	Moncler S.p.A.			Equity	27,580	1,753,556	0.075%
JNL International Index Fund	SG Holdings Co., Ltd.			Equity	54,800	597,664	0.026%
JNL International Index Fund	Sika AG			Equity	21,058	6,987,764	0.300%
JNL International Index Fund	James Hardie Industries Public Limited Company			Equity	57,000	2,217,431	0.098%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL International Index Fund	WH Group Limited			Equity	1,050,827	826,430	0.036%
JNL International Index Fund	Umizeo			Equity	25,854	336,073	0.044%
JNL International Index Fund	Wharf Real Estate Investment Company Limited			Equity	197,462	690,587	0.030%
JNL International Index Fund	Infoma PLC			Equity	170,639	1,876,759	0.081%
JNL International Index Fund	WiseTech Global Limited			Equity	23,170	2,211,469	0.095%
JNL International Index Fund	Vodafone Group Public Limited Company			Equity	2,749,328	2,756,356	0.118%
JNL International Index Fund	Biomerieux SA			Equity	5,551	665,111	0.029%
JNL International Index Fund	Amundi			Equity	7,799	582,519	0.025%
JNL International Index Fund	Essity Aktiebolag (publ)			Equity	79,955	2,497,491	0.107%
JNL International Index Fund	Auckland International Airport Limited			Equity	168,171	805,026	0.035%
JNL International Index Fund	Ezer Nederland N.V.			Equity	13,474	1,449,784	0.062%
JNL International Index Fund	Poste Italiane - Societa' Per Azioni			Equity	61,313	859,718	0.037%
JNL International Index Fund	Flutter Entertainment Public Limited Company			Equity	21,091	4,963,234	0.213%
JNL International Index Fund	Covestro AG			Equity	24,539	1,528,096	0.066%
JNL International Index Fund	CK Hutchison Holdings Limited			Equity	382,097	2,001,381	0.086%
JNL International Index Fund	ASSA ABLÖY AB			Equity	138,505	4,661,757	0.200%
JNL International Index Fund	Recruit Holdings Co., Ltd.			Equity	202,622	12,349,061	0.531%
JNL International Index Fund	Orsted A/S			Equity	25,126	1,666,215	0.072%
JNL International Index Fund	CapitaLand Ascendas REIT			Equity	480,085	1,066,274	0.046%
JNL International Index Fund	Banca Mediolanum SpA			Equity	25,131	316,792	0.014%
JNL International Index Fund	Celnex Telecom, S.A.			Equity	78,145	3,166,763	0.136%
JNL International Index Fund	Japan Post Bank Co., Ltd.			Equity	183,900	1,716,011	0.074%
JNL International Index Fund	South32 Limited			Equity	602,477	1,591,033	0.068%
JNL International Index Fund	Meridian Energy Limited			Equity	168,430	633,852	0.027%
JNL International Index Fund	Medibank Private Limited			Equity	357,642	905,761	0.039%
JNL International Index Fund	Atlas Arteria Limited			Equity	141,693	499,791	0.021%
JNL International Index Fund	AENA, S.M.E., S.A.			Equity	9,528	2,095,195	0.089%
JNL International Index Fund	Arceomital			Equity	61,673	1,623,809	0.070%
JNL International Index Fund	Auto Trader Group PLC			Equity	115,975	1,349,231	0.058%
JNL International Index Fund	CK Asset Holdings Limited			Equity	257,420	1,120,848	0.048%
JNL International Index Fund	Svenska Handelsbanken AB			Equity	189,872	1,949,964	0.084%
JNL International Index Fund	Industria de Diseno Textil, S.A.			Equity	146,409	8,668,854	0.373%
JNL International Index Fund	Japan Post Holdings Co., Ltd.			Equity	272,700	2,657,234	0.114%
JNL International Index Fund	Tryg A/S			Equity	43,055	1,021,389	0.044%
JNL International Index Fund	Dematic A/S			Equity	11,883	464,953	0.020%
JNL International Index Fund	Schibsted ASA			Equity	10,845	1,072,925	0.046%
JNL International Index Fund	UBS Group AG			Equity	422,878	13,095,556	0.563%
JNL International Index Fund	CK Infrastructure Holdings Limited			Equity	75,056	510,567	0.022%
JNL International Index Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	215,165	9,462,699	0.407%
JNL International Index Fund	Stockland Corporation Ltd			Equity	319,924	1,560,028	0.067%
JNL International Index Fund	Adyen N.V.			Equity	4,009	6,281,880	0.270%
JNL International Index Fund	Nippon Building Fund Inc.			Equity	1,070	982,226	0.042%
JNL International Index Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	7,861	652,323	0.028%
JNL International Index Fund	Mapletree Commercial Trust Treasury Company Plc. Ltd.			Equity	305,400	951,149	0.041%
JNL International Index Fund	CapitaLand Group Plc. Ltd.			Equity	647,484	1,075,923	0.046%
JNL International Index Fund	Volkswagen Aktiengesellschaft			Equity	26,613	2,825,172	0.121%
JNL International Index Fund	SEGRO Public Limited Company			Equity	163,141	1,907,721	0.082%
JNL International Index Fund	DEXUS Funds Management Limited			Equity	139,875	1,112,935	0.046%
JNL International Index Fund	Nippon Prologis REIT, Inc.			Equity	304	522,134	0.022%
JNL International Index Fund	GLP J-REIT			Equity	651	616,343	0.026%
JNL International Index Fund	Japan Real Estate Investment Corporation			Equity	192	779,867	0.034%
JNL International Index Fund	Japan Metropolitan Fund Investment Corporation			Equity	933	943,194	0.039%
JNL International Index Fund	Goodman Funding Pty Ltd			Equity	229,884	5,902,890	0.254%
JNL International Index Fund	Scentre Group Limited			Equity	699,006	1,769,777	0.076%
JNL International Index Fund	Link Real Estate Investment Trust			Equity	337,590	1,681,888	0.072%
JNL International Index Fund	Mivac Limited			Equity	528,719	866,153	0.036%
JNL International Index Fund	GPT Management Holdings Limited			Equity	245,785	841,383	0.036%
JNL International Index Fund	Sartorius Aktiengesellschaft			Equity	3,301	928,044	0.040%
JNL International Index Fund	Hiscox Ltd.			Equity	44,448	678,029	0.029%
JNL International Index Fund	Wimory Centres RE Ltd			Equity	463,317	709,862	0.031%
JNL International Index Fund	Nomura Real Estate Master Fund, Inc.			Equity	582	502,026	0.022%
JNL International Index Fund	Land Securities Group PLC			Equity	89,305	791,222	0.034%
JNL International Index Fund	SoftBank Corp.			Equity	3,663,000	4,889,371	0.210%
JNL International Index Fund	InterContinental Hotels Group PLC			Equity	20,682	2,661,923	0.097%
JNL International Index Fund	Akzo Nobel N.V.			Equity	22,074	1,960,028	0.087%
JNL International Index Fund	Phoenix Group Holdings PLC			Equity	101,162	758,294	0.033%
JNL International Index Fund	Intermediate Capital Group PLC			Equity	37,171	1,105,030	0.047%
JNL International Index Fund	Amplion S.p.A.			Equity	17,561	504,400	0.022%
JNL International Index Fund	Contact Energy Limited			Equity	102,650	1,052,086	0.045%
JNL International Index Fund	Roche Holding AG			Equity	3,802	1,297,994	0.056%
JNL International Index Fund	Castellum Aktiebolag			Equity	56,567	829,007	0.036%
JNL International Index Fund	Aker ASA			Equity	3,109	161,437	0.007%
JNL International Index Fund	Arford AB			Equity	13,267	376,894	0.016%
JNL International Index Fund	Lasertec Co., Ltd.			Equity	10,800	1,786,711	0.077%
JNL International Index Fund	Alcon AG			Equity	64,759	6,520,096	0.280%
JNL International Index Fund	New S.p.A.			Equity	84,851	577,701	0.025%
JNL International Index Fund	Croda International Public Limited Company			Equity	17,041	971,470	0.042%
JNL International Index Fund	Carl Zeiss Meditec AG			Equity	4,298	340,808	0.015%
JNL International Index Fund	Advantest Corporation			Equity	94,400	4,460,255	0.192%
JNL International Index Fund	DS Smith PLC			Equity	180,443	1,143,016	0.049%
JNL International Index Fund	Howden Joinery Group PLC			Equity	71,223	866,748	0.037%
JNL International Index Fund	Buzz S.p.A.			Equity	10,258	408,415	0.018%
JNL International Index Fund	Ackermans			Equity	2,966	630,584	0.027%
JNL International Index Fund	Kesko Oyj			Equity	37,376	797,822	0.034%
JNL International Index Fund	Schibsted ASA			Equity	10,486	338,494	0.015%
JNL International Index Fund	BDUKEN Co., Ltd.			Equity	17,200	635,441	0.028%
JNL International Index Fund	SCSK Corporation			Equity	19,300	402,797	0.017%
JNL International Index Fund	Mineral Resources Limited			Equity	22,405	804,421	0.035%
JNL International Index Fund	Swedish Orphan Biovitrum AB (Publ)			Equity	20,449	657,612	0.028%
JNL International Index Fund	Seven Group Holdings Limited			Equity	26,462	709,521	0.034%
JNL International Index Fund	DiaSorin S.p.A.			Equity	3,003	351,365	0.015%
JNL International Index Fund	Mercury NZ Limited			Equity	86,358	353,237	0.015%
JNL International Index Fund	Talinx Aktiengesellschaft			Equity	7,683	647,713	0.028%
JNL International Index Fund	M&M European Value Real S.A.			Equity	126,746	1,055,036	0.045%
JNL International Index Fund	ASM International N.V.			Equity	5,839	3,847,039	0.165%
JNL International Index Fund	Japan Post Insurance Co., Ltd.			Equity	23,500	438,073	0.019%
JNL International Index Fund	Banco BPM Societa' Per Azioni			Equity	174,259	1,176,940	0.051%
JNL International Index Fund	Kawasaki Kisen Kaisha, Ltd.			Equity	57,600	573,668	0.024%
JNL International Index Fund	Trelleborg AB			Equity	28,423	1,093,670	0.047%
JNL International Index Fund	SCREEN Holdings Co., Ltd.			Equity	11,300	803,345	0.035%
JNL International Index Fund	Rheinmetall Aktiengesellschaft			Equity	5,722	3,110,461	0.134%
JNL International Index Fund	Ella Group			Equity	2,430	392,273	0.017%
JNL International Index Fund	EVN AG			Equity	4,697	148,204	0.006%
JNL International Index Fund	VIENNA INSURANCE GROUP AG Wiener Versicherung Gruppe			Equity	4,504	149,802	0.006%
JNL International Index Fund	TIS Inc.			Equity	32,600	838,122	0.036%
JNL International Index Fund	Telekom Austria Aktiengesellschaft			Equity	17,780	173,931	0.007%
JNL International Index Fund	Strabag SE			Equity	1,686	70,428	0.003%
JNL International Index Fund	D'teren Group			Equity	2,770	586,787	0.025%
JNL International Index Fund	Investment Ab Latour			Equity	19,240	600,894	0.026%
JNL International Index Fund	Evolution AB (publ)			Equity	26,220	2,478,031	0.106%
JNL International Index Fund	Prosus N.V.			Equity	180,796	7,928,521	0.341%
JNL International Index Fund	Holmen Aktiebolag			Equity	9,743	421,613	0.018%
JNL International Index Fund	Budweiser Brewing Company APAC Limited			Equity	200,600	266,093	0.011%
JNL International Index Fund	EQT AB			Equity	92,624	3,176,507	0.137%
JNL International Index Fund	Kobe Bussan Co., Ltd.			Equity	19,500	607,775	0.026%
JNL International Index Fund	Hera S.p.A.			Equity	119,637	476,807	0.020%
JNL International Index Fund	Orion Oyj			Equity	3,102	169,582	0.007%
JNL International Index Fund	M&G PLC			Equity	305,183	886,225	0.038%
JNL International Index Fund	CSR Group Limited			Equity	320,000	607,735	0.025%
JNL International Index Fund	Kesko Oyj			Equity	10,549	223,976	0.010%
JNL International Index Fund	Aktiebolaget Volvo			Equity	23,458	626,074	0.027%
JNL International Index Fund	EDP Renovateis, S.A.			Equity	32,511	568,162	0.024%
JNL International Index Fund	Savira Pacific Limited			Equity	65,000	75,934	0.003%
JNL International Index Fund	Finecobank Banca Fineco S.P.A.			Equity	79,340	1,362,151	0.059%
JNL International Index Fund	HAL Trust			Equity	4,887	645,326	0.028%
JNL International Index Fund	Sofina			Equity	1,934	547,473	0.024%
JNL International Index Fund	Kronenberg Gruppen ASA			Equity	11,919	1,186,189	0.050%
JNL International Index Fund	Teva Pharmaceutical Industries Ltd			Equity	149,363	2,686,257	0.115%
JNL International Index Fund	Reece Limited			Equity	47,549	940,592	0.040%
JNL International Index Fund	Aktiebolaget Industrivarden			Equity	15,539	574,440	0.025%
JNL International Index Fund	Essity Aktiebolag (publ)			Equity	3,477	108,701	0.005%
JNL International Index Fund	agens SE			Equity	7,811	4,219,417	0.181%
JNL International Index Fund	Svenska Handelsbanken AB			Equity	1,088	14,304	0.001%
JNL International Index Fund	BAWAG Group AG			Equity	10,795	837,588	0.036%
JNL International Index Fund	Infrastructure Wireless Italiane S.p.A. O, In Forma Abbreviata, Inwit S.p.A.			Equity	45,564	560,947	0.024%
JNL International Index Fund	Telefonaktiebolaget LM Ericsson			Equity	7,523	56,915	0.002%
JNL International Index Fund	Aktiebolaget SKF			Equity	2,279	45,577	0.002%
JNL International Index Fund	Ampol Limited			Equity	32,285	682,991	0.029%
JNL International Index Fund	JOE Peet's N.V.			Equity	15,116	315,148	0.014%
JNL International Index Fund	TPG Corporation Limited			Equity	57,333	198,567	0.009%
JNL International Index Fund	AB Sagax			Equity	29,327	835,420	0.036%
JNL International Index Fund	Davide Campani-Milano N.V.			Equity	79,183	670,864	0.029%
JNL International Index Fund	Worley Limited			Equity	45,202	471,129	0.020%
JNL International Index Fund	Asahi Intecc Co., Ltd.			Equity	39,700	591,572	0.025%
JNL International Index Fund	Monotaro Co., Ltd.			Equity	31,700	528,244	0.023%
JNL International Index Fund	SalMar ASA			Equity	8,933	468,906	0.020%
JNL International Index Fund	Indutrade Aktiebolag			Equity	34,434	1,071,933	0.046%
JNL International Index Fund	Spirax Group PLC			Equity	10,067	1,015,166	0.044%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL International Index Fund	Evrax PLC			Equity	81,728	0	0.000%
JNL International Index Fund	Haina Public Limited Company			Equity	49,535	1,731,965	0.074%
JNL International Index Fund	Storebrand ASA			Equity	55,150	606,723	0.026%
JNL International Index Fund	Siemens Energy AG			Equity	66,124	2,438,151	0.105%
JNL International Index Fund	Allegro.eu			Equity	82,969	749,297	0.032%
JNL International Index Fund	SGS SA			Equity	20,195	2,254,912	0.097%
JNL International Index Fund	Melrose Industries PLC			Equity	163,073	966,970	0.043%
JNL International Index Fund	DSM-Firmenich AG			Equity	28,582	3,946,551	0.170%
JNL International Index Fund	Boliden AB			Equity	35,285	1,194,796	0.051%
JNL International Index Fund	Ferrovial SE			Equity	63,441	2,625,954	0.121%
JNL International Index Fund	Novo Nordisk A/S			Equity	421,464	49,943,789	2.146%
JNL International Index Fund	Sampo Oyj			Equity	67,932	3,168,474	0.136%
JNL International Index Fund	Aegion Ltd.			Equity	183,557	1,180,770	0.051%
JNL International Index Fund	Kyoto Financial Group, Inc.			Equity	37,396	565,334	0.025%
JNL International Index Fund	Sandoz Group AG			Equity	51,993	2,169,524	0.093%
JNL International Index Fund	Tenaris S.A.			Equity	53,298	845,165	0.036%
JNL International Index Fund	Svensso			Equity	9,702	853,793	0.037%
JNL International Index Fund	Mondi PLC			Equity	59,557	1,134,200	0.049%
JNL International Index Fund	Clagen N.V.			Equity	28,529	1,290,344	0.055%
JNL International Index Fund	Galdieria Group AG			Equity	6,865	640,352	0.028%
JNL International Index Fund	Volvo Cars AB			Equity	76,392	210,183	0.009%
JNL International Index Fund	CVC Capital Partners PLC			Equity	78,555	1,759,916	0.076%
JNL International Index Fund	Saab AB			Equity	48,285	1,029,877	0.044%
JNL International Index Fund	The Berkeley Group Holdings PLC			Equity	13,294	841,235	0.036%
Total Non Derivatives						2,326,759,270	
Derivatives							
JNL International Index Fund	Bought AUD / Sold USD			Derivative		59,963	0.003%
JNL International Index Fund	Bought EUR / Sold USD			Derivative		31,807	0.001%
JNL International Index Fund	Bought GBP / Sold USD			Derivative		25,212	0.001%
JNL International Index Fund	Bought JPY / Sold USD			Derivative		(133,854)	-0.006%
JNL International Index Fund	Bought JPY / Sold USD			Derivative		0	0.000%
JNL International Index Fund	Bought USD / Sold AUD			Derivative		(38,959)	-0.002%
JNL International Index Fund	Bought USD / Sold EUR			Derivative		7,031	0.000%
JNL International Index Fund	Bought USD / Sold JPY			Derivative		14,909	0.001%
JNL International Index Fund	Topix Index FUTURE - CASH SETTLED			Derivative	32	99,303	0.004%
JNL International Index Fund	Euro STOXX 50 Price Index FUTURE - CASH SETTLED			Derivative	129	153,698	0.007%
JNL International Index Fund	S&P/ASX 200 Index FUTURE - CASH SETTLED			Derivative	12	19,434	0.001%
JNL International Index Fund	FTSE 100 Index FUTURE - CASH SETTLED			Derivative	32	(24,618)	-0.001%
Total Derivatives						213,926	
Total All Investments						2,326,973,196	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLInvesco Diversified Dividend Fund	Cash			Cash Equivalent	1,643,559	1,643,559	0.158%
JNLInvesco Diversified Dividend Fund	Mid-America Apartment Communities, Inc.			Equity	49,881	7,926,091	0.761%
JNLInvesco Diversified Dividend Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	11,826,663	11,891,008	1.142%
JNLInvesco Diversified Dividend Fund	Marvell Technology, Inc.			Equity	101,399	7,312,896	0.702%
JNLInvesco Diversified Dividend Fund	General Electric Company			Equity	80,637	15,229,104	1.462%
JNLInvesco Diversified Dividend Fund	Comcast Corporation			Equity	249,131	10,498,708	0.999%
JNLInvesco Diversified Dividend Fund	Analog Devices, Inc.			Equity	93,509	21,522,967	2.066%
JNLInvesco Diversified Dividend Fund	CRH Public Limited Company			Equity	209,304	19,410,853	1.864%
JNLInvesco Diversified Dividend Fund	Tek Resources Limited			Equity	105,434	5,507,872	0.529%
JNLInvesco Diversified Dividend Fund	American Electric Power Company, Inc.			Equity	110,814	11,399,516	1.092%
JNLInvesco Diversified Dividend Fund	American Express Company			Equity	51,108	13,860,490	1.331%
JNLInvesco Diversified Dividend Fund	American International Group, Inc.			Equity	255,191	18,687,637	1.794%
JNLInvesco Diversified Dividend Fund	AstraZeneca PLC			Equity	66,108	10,312,503	0.990%
JNLInvesco Diversified Dividend Fund	Becton, Dickinson and Company			Equity	67,140	16,687,454	1.554%
JNLInvesco Diversified Dividend Fund	Entergy Corporation			Equity	138,668	18,381,705	1.765%
JNLInvesco Diversified Dividend Fund	Fifth Third Bancorp			Equity	182,817	7,899,523	0.758%
JNLInvesco Diversified Dividend Fund	The Estee Lauder Companies Inc.			Equity	36,587	3,647,358	0.350%
JNLInvesco Diversified Dividend Fund	JPMorgan Chase & Co.			Equity	155,879	32,868,546	3.156%
JNLInvesco Diversified Dividend Fund	Intuit Inc.			Equity	8,272	5,136,912	0.493%
JNLInvesco Diversified Dividend Fund	Walt Disney Company, The			Equity	184,379	17,735,416	1.703%
JNLInvesco Diversified Dividend Fund	Salesforce, Inc.			Equity	47,197	12,397,170	1.242%
JNLInvesco Diversified Dividend Fund	Colgate-Palmolive Company			Equity	115,938	12,035,524	1.156%
JNLInvesco Diversified Dividend Fund	Huntington Bancshares Incorporated			Equity	375,216	5,573,634	0.535%
JNLInvesco Diversified Dividend Fund	Emerson Electric Co.			Equity	149,280	16,326,754	1.568%
JNLInvesco Diversified Dividend Fund	Carlisle Companies Incorporated			Equity	17,245	7,755,939	0.745%
JNLInvesco Diversified Dividend Fund	Morgan Stanley			Equity	180,763	18,842,735	1.809%
JNLInvesco Diversified Dividend Fund	Johnson & Johnson			Equity	162,781	26,380,289	2.533%
JNLInvesco Diversified Dividend Fund	Lam Research Corporation			Equity	7,620	6,236,056	0.599%
JNLInvesco Diversified Dividend Fund	Merck & Co., Inc.			Equity	133,107	15,239,338	1.463%
JNLInvesco Diversified Dividend Fund	McDonald's Corporation			Equity	72,562	22,086,855	2.124%
JNLInvesco Diversified Dividend Fund	Public Service Enterprise Group Incorporated			Equity	79,459	7,088,537	0.681%
JNLInvesco Diversified Dividend Fund	Hartford Financial Services Group, Inc., The			Equity	93,333	11,020,761	1.058%
JNLInvesco Diversified Dividend Fund	The PNC Financial Services Group, Inc.			Equity	120,257	22,229,506	2.134%
JNLInvesco Diversified Dividend Fund	PeppCo, Inc.			Equity	45,721	7,774,856	0.746%
JNLInvesco Diversified Dividend Fund	Parker-Hannifin Corporation			Equity	24,960	5,270,175	0.506%
JNLInvesco Diversified Dividend Fund	ConocoPhillips			Equity	169,614	17,856,962	1.714%
JNLInvesco Diversified Dividend Fund	PPL Corporation			Equity	408,171	13,607,401	1.306%
JNLInvesco Diversified Dividend Fund	Charles Schwab Corporation, The			Equity	192,363	12,467,046	1.197%
JNLInvesco Diversified Dividend Fund	Microsoft Corporation			Equity	40,944	17,618,929	1.692%
JNLInvesco Diversified Dividend Fund	Ares Management Corporation			Equity	45,356	7,068,279	0.679%
JNLInvesco Diversified Dividend Fund	Lowe's Companies, Inc.			Equity	90,907	24,622,161	2.364%
JNLInvesco Diversified Dividend Fund	Northrop Grumman Corporation			Equity	21,249	11,220,959	1.077%
JNLInvesco Diversified Dividend Fund	PPG Industries, Inc.			Equity	41,685	5,571,128	0.530%
JNLInvesco Diversified Dividend Fund	Wells Fargo & Company			Equity	250,101	14,128,205	1.356%
JNLInvesco Diversified Dividend Fund	Cheniere Energy, Inc.			Equity	33,526	6,029,316	0.579%
JNLInvesco Diversified Dividend Fund	Stryker Corporation			Equity	28,651	10,373,381	0.996%
JNLInvesco Diversified Dividend Fund	L'Oréal			Equity	12,361	5,533,784	0.531%
JNLInvesco Diversified Dividend Fund	Marathon Oil Corporation			Equity	431,878	11,500,911	1.104%
JNLInvesco Diversified Dividend Fund	Deutsche Telekom AG			Equity	391,816	11,513,307	1.105%
JNLInvesco Diversified Dividend Fund	Union Pacific Corporation			Equity	87,447	21,553,937	2.069%
JNLInvesco Diversified Dividend Fund	Walmart Inc.			Equity	404,024	32,634,938	3.132%
JNLInvesco Diversified Dividend Fund	Chevron Corporation			Equity	160,484	23,634,479	2.269%
JNLInvesco Diversified Dividend Fund	UnitedHealth Group Incorporated			Equity	60,848	35,576,609	3.416%
JNLInvesco Diversified Dividend Fund	AT&T Inc.			Equity	556,825	12,250,150	1.176%
JNLInvesco Diversified Dividend Fund	Sysco Corporation			Equity	194,522	15,184,387	1.458%
JNLInvesco Diversified Dividend Fund	CMF Group Inc.			Equity	62,096	13,701,482	1.315%
JNLInvesco Diversified Dividend Fund	TXJ Companies, Inc., The			Equity	45,476	5,345,249	0.513%
JNLInvesco Diversified Dividend Fund	Airbus SE			Equity	54,835	8,026,902	0.771%
JNLInvesco Diversified Dividend Fund	ABB Ltd.			Equity	181,993	10,569,591	1.014%
JNLInvesco Diversified Dividend Fund	Lenox Group AG			Equity	10,004	6,538,877	0.609%
JNLInvesco Diversified Dividend Fund	AerCap Holdings N.V.			Equity	58,803	5,569,820	0.535%
JNLInvesco Diversified Dividend Fund	Huntington Ingalls Industries, Inc.			Equity	12,934	3,419,491	0.328%
JNLInvesco Diversified Dividend Fund	Visa Inc.			Equity	47,924	13,176,704	1.265%
JNLInvesco Diversified Dividend Fund	Fortune Brands Innovations, Inc.			Equity	77,670	6,953,795	0.668%
JNLInvesco Diversified Dividend Fund	Suncor Energy Inc.			Equity	361,956	13,363,416	1.283%
JNLInvesco Diversified Dividend Fund	Philip Morris International Inc.			Equity	243,260	29,860,165	2.867%
JNLInvesco Diversified Dividend Fund	Compagnie Financiere Richemont SA			Equity	34,887	5,509,147	0.529%
JNLInvesco Diversified Dividend Fund	Hubbell Incorporated			Equity	24,589	10,532,098	1.011%
JNLInvesco Diversified Dividend Fund	AbbVie Inc.			Equity	70,078	13,839,003	1.329%
JNLInvesco Diversified Dividend Fund	Broadcom Inc.			Equity	63,680	10,984,800	1.055%
JNLInvesco Diversified Dividend Fund	Sanofi			Equity	208,320	12,005,482	1.153%
JNLInvesco Diversified Dividend Fund	Elevance Health, Inc.			Equity	19,058	9,910,160	0.951%
JNLInvesco Diversified Dividend Fund	Citizens Financial Group, Inc.			Equity	61,667	2,532,664	0.243%
JNLInvesco Diversified Dividend Fund	Johnson Controls International Public Limited Company			Equity	165,351	12,894,071	1.238%
JNLInvesco Diversified Dividend Fund	Medtronic, Inc.			Equity	145,444	13,196,134	1.267%
JNLInvesco Diversified Dividend Fund	Prologis Inc.			Equity	139,418	17,605,705	1.690%
JNLInvesco Diversified Dividend Fund	American Tower Corporation			Equity	22,405	5,210,507	0.500%
JNLInvesco Diversified Dividend Fund	Weyerhaeuser Company			Equity	254,275	8,609,752	0.827%
JNLInvesco Diversified Dividend Fund	Alcon AG			Equity	53,652	5,368,956	0.515%
JNLInvesco Diversified Dividend Fund	DuPont de Nemours, Inc.			Equity	120,539	10,741,230	1.031%
JNLInvesco Diversified Dividend Fund	Smurfit Westrock Public Limited Company			Equity	120,699	5,964,945	0.573%
JNLInvesco Diversified Dividend Fund	Te Connectivity Public Limited Company			Equity	41,022	6,193,912	0.595%
Total Non Derivatives						1,041,548,200	
Derivatives							
Total Derivatives						0	
Total All Investments						1,041,548,200	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLInvesco Global Growth Fund	Cash			Cash Equivalent	83.611	83.611	0.009%
JNLInvesco Global Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	13,206,203	13,248,644	0.727%
JNLInvesco Global Growth Fund	Marvell Technology, Inc.			Equity	470,839	33,956,909	1.862%
JNLInvesco Global Growth Fund	Dassault Systemes			Equity	167,332	6,640,782	0.364%
JNLInvesco Global Growth Fund	Universal Music Group N.V.			Equity	157,961	4,342,607	0.227%
JNLInvesco Global Growth Fund	Atlas Copco Alkaboilag			Equity	2,886,929	56,100,988	3.077%
JNLInvesco Global Growth Fund	Adobe Inc.			Equity	93,221	48,267,969	2.647%
JNLInvesco Global Growth Fund	Analog Devices, Inc.			Equity	361,095	83,113,301	4.558%
JNLInvesco Global Growth Fund	Boston Scientific Corporation			Equity	104,234	8,734,809	0.479%
JNLInvesco Global Growth Fund	Amazon.com, Inc.			Equity	137,708	25,699,132	1.407%
JNLInvesco Global Growth Fund	IDEXX Laboratories, Inc.			Equity	13,518	6,829,564	0.375%
JNLInvesco Global Growth Fund	Marriott International, Inc.			Equity	63,901	15,885,789	0.871%
JNLInvesco Global Growth Fund	NVIDIA Corporation			Equity	478,761	58,145,523	3.189%
JNLInvesco Global Growth Fund	Intuit Inc.			Equity	97,039	60,261,218	3.305%
JNLInvesco Global Growth Fund	Equifax Inc.			Equity	109,349	32,133,297	1.762%
JNLInvesco Global Growth Fund	Danaher Corporation			Equity	33,146	9,224,200	0.506%
JNLInvesco Global Growth Fund	Ecolab Inc.			Equity	31,868	8,155,021	0.447%
JNLInvesco Global Growth Fund	Lam Research Corporation			Equity	11,711	9,578,254	0.525%
JNLInvesco Global Growth Fund	Qualcomm Incorporated			Equity	20,522	3,489,766	0.191%
JNLInvesco Global Growth Fund	Illumina, Inc.			Equity	21,866	2,851,545	0.156%
JNLInvesco Global Growth Fund	El Lilly and Company			Equity	22,487	19,922,133	1.093%
JNLInvesco Global Growth Fund	Microsoft Corporation			Equity	91,799	39,501,110	2.166%
JNLInvesco Global Growth Fund	Allianz SE			Equity	33,781	11,126,663	0.610%
JNLInvesco Global Growth Fund	SAP SE			Equity	280,280	64,041,547	3.512%
JNLInvesco Global Growth Fund	Thermo Fisher Scientific Inc.			Equity	12,118	7,500,557	0.411%
JNLInvesco Global Growth Fund	Intuitive Surgical, Inc.			Equity	49,334	24,236,314	1.329%
JNLInvesco Global Growth Fund	Synopsys, Inc.			Equity	7,897	3,998,962	0.219%
JNLInvesco Global Growth Fund	LVMH Moet Hennessy Louis Vuitton			Equity	73,139	56,066,476	3.075%
JNLInvesco Global Growth Fund	Netflix, Inc.			Equity	16,100	11,419,247	0.626%
JNLInvesco Global Growth Fund	12X Companies, Inc., The			Equity	33,837	3,877,201	0.218%
JNLInvesco Global Growth Fund	Airbus SE			Equity	329,015	48,362,145	2.641%
JNLInvesco Global Growth Fund	Keyence Corporation			Equity	99,900	47,809,055	2.622%
JNLInvesco Global Growth Fund	Hoya Corporation			Equity	64,800	8,971,358	0.492%
JNLInvesco Global Growth Fund	Capgem Co., Ltd.			Equity	390,200	9,126,418	0.500%
JNLInvesco Global Growth Fund	Lorion Group AG			Equity	24,393	15,455,752	0.848%
JNLInvesco Global Growth Fund	EssilorLuxottica			Equity	66,046	15,610,600	0.856%
JNLInvesco Global Growth Fund	TDK Corporation			Equity	1,700,500	22,027,101	1.208%
JNLInvesco Global Growth Fund	DLF Limited			Equity	8,792,400	94,294,429	5.171%
JNLInvesco Global Growth Fund	Brunello Cucinelli S.p.A			Equity	145,087	15,670,388	0.859%
JNLInvesco Global Growth Fund	Amadeus IT Holding, S.A.			Equity	324,318	23,421,140	1.284%
JNLInvesco Global Growth Fund	Visa Inc.			Equity	159,214	43,775,889	2.401%
JNLInvesco Global Growth Fund	Meta Platforms, Inc.			Equity	281,541	161,165,330	8.838%
JNLInvesco Global Growth Fund	Zoetis Inc.			Equity	18,273	3,570,179	0.196%
JNLInvesco Global Growth Fund	Ferrari N.V.			Equity	7,525	3,526,107	0.193%
JNLInvesco Global Growth Fund	ASML Holding N.V.			Equity	29,285	24,464,581	1.342%
JNLInvesco Global Growth Fund	IOVIA Holdings Inc			Equity	75,527	17,897,633	0.981%
JNLInvesco Global Growth Fund	KCIC Bank Limited			Equity	847,017	28,288,457	1.550%
JNLInvesco Global Growth Fund	Moncler S.p.A.			Equity	60,791	3,865,134	0.212%
JNLInvesco Global Growth Fund	Tencent Holdings Limited			Equity	218,800	12,146,818	0.666%
JNLInvesco Global Growth Fund	JD.com, Inc.			Equity	1,223,074	48,922,960	2.683%
JNLInvesco Global Growth Fund	Broadcom Inc.			Equity	81,801	14,110,973	0.774%
JNLInvesco Global Growth Fund	Nice Ltd			Equity	98,209	17,055,957	0.935%
JNLInvesco Global Growth Fund	S&P Global Inc.			Equity	148,801	76,873,573	4.216%
JNLInvesco Global Growth Fund	ASSA ABLLOY AB			Equity	1,169,907	39,376,359	2.159%
JNLInvesco Global Growth Fund	Alphabet Inc.			Equity	1,156,692	191,837,368	10.520%
JNLInvesco Global Growth Fund	Avantor, Inc.			Equity	105,026	2,717,023	0.149%
JNLInvesco Global Growth Fund	BE Semiconductor Industries N.V.			Equity	34,774	4,420,026	0.242%
JNLInvesco Global Growth Fund	HDFC Bank Limited			Equity	407,256	8,375,395	0.459%
JNLInvesco Global Growth Fund	Phathom Pharmaceuticals, Inc.			Equity	372,954	6,743,008	0.370%
JNLInvesco Global Growth Fund	Linde Public Limited Company			Equity	12,031	5,737,103	0.315%
JNLInvesco Global Growth Fund	Canadian Pacific Kansas City Limited			Equity	127,686	10,940,199	0.600%
JNLInvesco Global Growth Fund	Novo Nordisk A/S			Equity	581,223	68,875,346	3.777%
Total Non Derivatives						1,823,506,654	
Derivatives						0	
Total All Investments						1,823,506,654	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLInvesco Small Cap Growth Fund	Cash			Cash Equivalent	106.505	106.505	0.009%
JNLInvesco Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	15,589,606	15,696,552	0.863%
JNLInvesco Small Cap Growth Fund	Choire Energy Corporation			Equity	60,606	7,892,719	0.435%
JNLInvesco Small Cap Growth Fund	Stime Corporation			Equity	86,561	14,846,077	0.818%
JNLInvesco Small Cap Growth Fund	Viacby, Inc.			Equity	154,496	17,654,258	0.973%
JNLInvesco Small Cap Growth Fund	Stride, Inc.			Equity	258,033	22,012,795	1.213%
JNLInvesco Small Cap Growth Fund	Travel + Leisure Co.			Equity	164,686	7,588,731	0.418%
JNLInvesco Small Cap Growth Fund	Allegro Microsystems Inc.			Equity	421,940	9,831,202	0.542%
JNLInvesco Small Cap Growth Fund	ADMA Biologics, Inc.			Equity	907,680	18,144,523	1.000%
JNLInvesco Small Cap Growth Fund	Academy Sports & Outdoors, Inc.			Equity	155,198	9,074,427	0.500%
JNLInvesco Small Cap Growth Fund	DigitalOcean Holdings, Inc.			Equity	380,711	15,376,917	0.847%
JNLInvesco Small Cap Growth Fund	StepStone Group Inc.			Equity	307,668	17,484,772	0.963%
JNLInvesco Small Cap Growth Fund	Procure Technologies, Inc.			Equity	189,900	11,720,628	0.646%
JNLInvesco Small Cap Growth Fund	Confluent, Inc.			Equity	223,285	4,550,548	0.251%
JNLInvesco Small Cap Growth Fund	SentinelOne, Inc.			Equity	594,939	14,230,941	0.784%
JNLInvesco Small Cap Growth Fund	GXO Logistics Inc.			Equity	287,126	14,950,651	0.824%
JNLInvesco Small Cap Growth Fund	Cleaver Analytics Holdings, Inc.			Equity	551,926	13,936,132	0.768%
JNLInvesco Small Cap Growth Fund	Zum Ekkay Water Solutions Corporation			Equity	46,098	3,453,162	0.190%
JNLInvesco Small Cap Growth Fund	Braze, Inc.			Equity	309,219	10,000,142	0.551%
JNLInvesco Small Cap Growth Fund	ESAB Corporation			Equity	129,311	13,757,397	0.758%
JNLInvesco Small Cap Growth Fund	Perman Resources Corporation			Equity	739,201	10,060,526	0.554%
JNLInvesco Small Cap Growth Fund	Coherent Corp.			Equity	266,719	23,713,368	1.307%
JNLInvesco Small Cap Growth Fund	Vericel Corporation			Equity	293,745	12,410,726	0.684%
JNLInvesco Small Cap Growth Fund	PennyMac Financial Services, Inc.			Equity	165,468	18,858,388	1.039%
JNLInvesco Small Cap Growth Fund	Applied Industrial Technologies, Inc.			Equity	67,199	14,994,113	0.826%
JNLInvesco Small Cap Growth Fund	Comfort Systems USA, Inc.			Equity	37,706	14,719,537	0.811%
JNLInvesco Small Cap Growth Fund	Piper Sandier Companies			Equity	61,613	17,486,386	0.964%
JNLInvesco Small Cap Growth Fund	Itron, Inc.			Equity	129,642	13,847,062	0.763%
JNLInvesco Small Cap Growth Fund	Clean Harbors, Inc.			Equity	104,225	25,192,225	1.388%
JNLInvesco Small Cap Growth Fund	Federal Signal Corporation			Equity	197,138	18,424,517	1.035%
JNLInvesco Small Cap Growth Fund	ACHN, Inc.			Equity	227,263	8,668,045	0.480%
JNLInvesco Small Cap Growth Fund	Eagle Materials Inc.			Equity	77,648	22,355,095	1.232%
JNLInvesco Small Cap Growth Fund	Range Resources Corporation			Equity	270,733	8,327,747	0.459%
JNLInvesco Small Cap Growth Fund	Lithelife, Inc.			Equity	48,727	12,624,837	0.712%
JNLInvesco Small Cap Growth Fund	CRJ, Inc.			Equity	78,915	7,645,984	0.426%
JNLInvesco Small Cap Growth Fund	Pegsystems Inc.			Equity	197,550	14,438,930	0.796%
JNLInvesco Small Cap Growth Fund	ATI Inc.			Equity	269,232	18,014,313	0.993%
JNLInvesco Small Cap Growth Fund	Merit Medical Systems, Inc.			Equity	171,263	16,525,922	0.933%
JNLInvesco Small Cap Growth Fund	Medline Manufacturing Company			Equity	146,895	19,606,841	1.075%
JNLInvesco Small Cap Growth Fund	Quaker Chemical Corporation			Equity	59,287	9,989,267	0.550%
JNLInvesco Small Cap Growth Fund	MOOG Inc.			Equity	76,215	15,396,954	0.848%
JNLInvesco Small Cap Growth Fund	Nordson Corporation			Equity	61,561	16,167,765	0.891%
JNLInvesco Small Cap Growth Fund	Harmonic, Inc.			Equity	545,252	9,401,322	0.518%
JNLInvesco Small Cap Growth Fund	Repligen Corporation			Equity	91,137	13,563,008	0.747%
JNLInvesco Small Cap Growth Fund	Inspire Medical Systems, Inc.			Equity	59,464	12,549,877	0.692%
JNLInvesco Small Cap Growth Fund	Viking Therapeutics, Inc.			Equity	138,989	8,799,394	0.485%
JNLInvesco Small Cap Growth Fund	Sterling Infrastructure, Inc.			Equity	105,380	15,382,280	0.842%
JNLInvesco Small Cap Growth Fund	PAR Technology Corporation			Equity	174,446	9,085,148	0.501%
JNLInvesco Small Cap Growth Fund	M/I Homes, Inc.			Equity	72,382	12,403,380	0.683%
JNLInvesco Small Cap Growth Fund	ACI Worldwide, Inc.			Equity	271,747	13,831,922	0.762%
JNLInvesco Small Cap Growth Fund	JFF Technologies, Inc.			Equity	44,184	13,993,073	0.771%
JNLInvesco Small Cap Growth Fund	Cavco Industries, Inc.			Equity	39,528	16,927,471	0.933%
JNLInvesco Small Cap Growth Fund	Enpro Inc.			Equity	92,510	15,003,272	0.827%
JNLInvesco Small Cap Growth Fund	Simpson Manufacturing Co., Inc.			Equity	74,848	14,316,177	0.789%
JNLInvesco Small Cap Growth Fund	Sala, Inc.			Equity	38,794	16,863,064	0.935%
JNLInvesco Small Cap Growth Fund	Halycon Therapeutics, Inc.			Equity	151,784	8,688,688	0.479%
JNLInvesco Small Cap Growth Fund	Texas Roadhouse, Inc.			Equity	77,729	13,726,941	0.756%
JNLInvesco Small Cap Growth Fund	The Bancorp, Inc.			Equity	294,426	15,751,791	0.868%
JNLInvesco Small Cap Growth Fund	Western Alliance Bancorporation			Equity	215,495	18,465,183	1.017%
JNLInvesco Small Cap Growth Fund	RBC Bearings Incorporated			Equity	59,042	17,951,807	0.974%
JNLInvesco Small Cap Growth Fund	AECOM			Equity	129,977	13,422,725	0.740%
JNLInvesco Small Cap Growth Fund	Prestige Consumer Healthcare Inc.			Equity	231,398	16,683,796	0.919%
JNLInvesco Small Cap Growth Fund	KBR, Inc.			Equity	222,214	14,506,534	0.799%
JNLInvesco Small Cap Growth Fund	Fabrinet			Equity	41,511	9,914,893	0.549%
JNLInvesco Small Cap Growth Fund	Post Holdings, Inc.			Equity	169,858	19,661,064	1.083%
JNLInvesco Small Cap Growth Fund	Guidewire Software, Inc.			Equity	149,161	27,287,513	1.504%
JNLInvesco Small Cap Growth Fund	Matador Resources Company			Equity	177,748	8,784,306	0.484%
JNLInvesco Small Cap Growth Fund	Bright Horizons Family Solutions, Inc.			Equity	133,716	18,177,167	1.029%
JNLInvesco Small Cap Growth Fund	NACOM Technology Solutions Holdings, Inc.			Equity	160,497	17,856,896	0.984%
JNLInvesco Small Cap Growth Fund	Intra-Cellular Therapies, Inc.			Equity	198,643	14,534,708	0.801%
JNLInvesco Small Cap Growth Fund	Novartis Inc.			Equity	72,660	13,000,327	0.716%
JNLInvesco Small Cap Growth Fund	Integer Holdings Corporation			Equity	110,845	14,409,850	0.794%
JNLInvesco Small Cap Growth Fund	Cascade Pharmaceuticals, Inc.			Equity	37,711	8,003,028	0.441%
JNLInvesco Small Cap Growth Fund	Murphy USA Inc.			Equity	30,435	15,000,498	0.827%
JNLInvesco Small Cap Growth Fund	Tenet Healthcare Corporation			Equity	179,826	29,887,081	1.647%
JNLInvesco Small Cap Growth Fund	c.i.t. Beatty, Inc.			Equity	67,964	7,410,115	0.408%
JNLInvesco Small Cap Growth Fund	TechniPMc PLC			Equity	589,684	15,467,411	0.852%
JNLInvesco Small Cap Growth Fund	O2 Holdings, Inc.			Equity	266,051	21,222,888	1.169%
JNLInvesco Small Cap Growth Fund	Varonis Systems, Inc.			Equity	237,555	13,421,914	0.740%
JNLInvesco Small Cap Growth Fund	HealthEquity, Inc.			Equity	161,671	13,232,771	0.729%
JNLInvesco Small Cap Growth Fund	Hamilton Lane Incorporated			Equity	122,663	20,718,705	1.142%
JNLInvesco Small Cap Growth Fund	Installed Building Products, Inc.			Equity	65,348	16,093,252	0.887%
JNLInvesco Small Cap Growth Fund	Nvent Electric Public Limited Company			Equity	283,107	19,891,098	1.069%
JNLInvesco Small Cap Growth Fund	Wyndham Hotels & Resorts, Inc.			Equity	152,005	11,877,871	0.654%
JNLInvesco Small Cap Growth Fund	Jefferies Financial Group Inc.			Equity	330,643	20,351,071	1.121%
JNLInvesco Small Cap Growth Fund	Weatherford International Public Limited Company			Equity	108,788	9,238,277	0.509%
JNLInvesco Small Cap Growth Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	148,898	14,472,886	0.797%
JNLInvesco Small Cap Growth Fund	EastGroup Properties, Inc.			Equity	68,490	12,891,188	0.710%
JNLInvesco Small Cap Growth Fund	Shale Shack, Inc.			Equity	157,768	16,293,235	0.897%
JNLInvesco Small Cap Growth Fund	Lantheus Holdings, Inc.			Equity	183,168	20,102,688	1.108%
JNLInvesco Small Cap Growth Fund	Encompass Health Corporation			Equity	205,659	19,874,886	1.095%
JNLInvesco Small Cap Growth Fund	Freshpet, Inc.			Equity	146,241	20,061,382	1.102%
JNLInvesco Small Cap Growth Fund	SiloChe Landscape Supply, Inc.			Equity	39,192	5,914,465	0.326%
JNLInvesco Small Cap Growth Fund	Bio-Techne Corporation			Equity	175,405	14,020,122	0.773%
JNLInvesco Small Cap Growth Fund	Wingstop Inc.			Equity	34,155	14,211,212	0.783%
JNLInvesco Small Cap Growth Fund	Glaukos Corporation			Equity	140,252	18,272,031	1.007%
JNLInvesco Small Cap Growth Fund	Natera, Inc.			Equity	140,386	17,822,003	0.982%
JNLInvesco Small Cap Growth Fund	RH			Equity	16,293	5,448,868	0.300%
JNLInvesco Small Cap Growth Fund	Boot Barn Holdings, Inc.			Equity	31,055	5,194,880	0.286%
JNLInvesco Small Cap Growth Fund	Blueprint Medicines Corporation			Equity	99,037	9,160,923	0.505%
JNLInvesco Small Cap Growth Fund	Terrano Realty Corporation			Equity	204,212	13,747,552	0.757%
JNLInvesco Small Cap Growth Fund	Altair Engineering Inc.			Equity	200,072	19,108,877	1.053%
JNLInvesco Small Cap Growth Fund	CyberArk Software Ltd.			Equity	56,810	16,566,364	0.913%
JNLInvesco Small Cap Growth Fund	Ascendis Pharma A/S			Equity	91,231	13,621,701	0.751%
JNLInvesco Small Cap Growth Fund	Element Solutions Inc.			Equity	795,689	21,610,913	1.191%
JNLInvesco Small Cap Growth Fund	Novo Ltd.			Equity	57,397	11,958,091	0.659%
JNLInvesco Small Cap Growth Fund	Construction Partners, Inc.			Equity	232,592	16,234,922	0.895%
JNLInvesco Small Cap Growth Fund	Impini, Inc.			Equity	56,769	12,291,624	0.677%
JNLInvesco Small Cap Growth Fund	Vm Consolidated, Inc.			Equity	478,797	13,315,345	0.734%
JNLInvesco Small Cap Growth Fund	Twelv Bioscience Corporation			Equity	399,219	18,036,714	0.994%
JNLInvesco Small Cap Growth Fund	Guardant Health, Inc.			Equity	373,561	8,569,489	0.472%
JNLInvesco Small Cap Growth Fund	Biolife Solutions, Inc.			Equity	604,091	15,126,439	0.833%
JNLInvesco Small Cap Growth Fund	TMX Group Limited			Equity	81,254	25,615,289	1.411%
JNLInvesco Small Cap Growth Fund	Otto Innovation Inc.			Equity	75,425	15,655,213	0.863%
JNLInvesco Small Cap Growth Fund	Option Care Health, Inc.			Equity	385,418	12,063,583	0.665%
JNLInvesco Small Cap Growth Fund	The AZEK Company Inc.			Equity	294,972	13,804,690	0.761%
JNLInvesco Small Cap Growth Fund	Descartes Systems Group Inc., The			Equity	130,363	13,422,174	0.740%
JNLInvesco Small Cap Growth Fund	TransMedics Group, Inc.			Equity	121,585	19,088,845	1.052%
JNLInvesco Small Cap Growth Fund	FTAI Aviation Ltd.			Equity	127,817	16,986,879	0.936%
JNLInvesco Small Cap Growth Fund	Maplebear Inc.			Equity	333,839	13,600,601	0.749%
JNLInvesco Small Cap Growth Fund	Shanklinia, Inc.			Equity	168,744	18,344,160	1.011%
JNLInvesco Small Cap Growth Fund	Talen Energy Corporation			Equity	119,727	21,340,140	1.176%
JNLInvesco Small Cap Growth Fund	Astera Labs, Inc.			Equity	259,208	13,579,907	0.748%
JNLInvesco Small Cap Growth Fund	Lair Holdings Inc.			Equity	66,963	4,994,770	0.275%
Total Non Derivatives						1,814,875,226	
Derivatives							
Total Derivatives						0	
Total All Investments						1,814,875,226	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Shares Tactical Growth Fund	Cash			Cash Equivalent	279,186	279,186	0.078%
JNL Shares Tactical Growth Fund	JNL Government Money Market Fund			4.82 Cash Equivalent	335,187	336,328	0.094%
JNL Shares Tactical Growth Fund	iShares 0-5 Year High Yield Corporate Bond ETF			Fund	200,159	8,690,904	2.418%
JNL Shares Tactical Growth Fund	VanEck Vectors Morningstar Wide Moat ETF			Fund	161,520	15,662,594	4.358%
JNL Shares Tactical Growth Fund	iShares Cohen & Steers REIT ETF			Fund	90,088	5,937,700	1.652%
JNL Shares Tactical Growth Fund	iShares Core Dividend Growth ETF			Fund	424,813	26,631,527	7.410%
JNL Shares Tactical Growth Fund	iShares MBS ETF			Fund	183,415	17,572,991	4.890%
JNL Shares Tactical Growth Fund	iShares Morningstar Value ETF			Fund	320,291	26,327,920	7.326%
JNL Shares Tactical Growth Fund	iShares Core S&P 500 ETF			Fund	61,673	35,516,538	9.882%
JNL Shares Tactical Growth Fund	iShares Core MSCI Emerging Markets ETF			Fund	284,914	16,356,913	4.551%
JNL Shares Tactical Growth Fund	iShares Core S&P Mid-Cap ETF			Fund	449,895	28,037,456	7.801%
JNL Shares Tactical Growth Fund	iShares S&P Small-Cap 600 Growth ETF			Fund	39,915	5,567,743	1.549%
JNL Shares Tactical Growth Fund	iShares Core U.S. Aggregate Bond ETF			Fund	253,158	25,637,311	7.134%
JNL Shares Tactical Growth Fund	iShares 5-10 Year Investment Grade Corporate Bond ETF			Fund	197,238	10,566,625	2.948%
JNL Shares Tactical Growth Fund	iShares Core MSCI EAFE ETF			Fund	326,229	25,468,698	7.087%
JNL Shares Tactical Growth Fund	iShares MSCI USA Quality Factor ETF			Fund	137,581	24,668,273	6.864%
JNL Shares Tactical Growth Fund	iShares MSCI Intl Quality Factor ETF			Fund	692,091	28,714,856	7.990%
JNL Shares Tactical Growth Fund	iShares Global Healthcare ETF			Fund	54,426	5,342,456	1.487%
JNL Shares Tactical Growth Fund	iShares U.S. Utilities ETF			Fund	19,023	1,940,726	0.540%
JNL Shares Tactical Growth Fund	T. Rowe Price Capital Appreciation Equity ETF			Fund	429,771	14,289,886	3.976%
JNL Shares Tactical Growth Fund	iShares Core S&P U.S. Growth ETF			Fund	271,521	35,816,335	9.966%
Total Non Derivatives						359,391,966	
Derivatives							
Total Derivatives						0	
Total All Investments						359,391,966	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Shares Tactical Moderate Fund	Cash			Cash Equivalent	90,164	90,164	0.044%
JNL Shares Tactical Moderate Fund	JNL Government Money Market Fund			Cash Equivalent	365,526	365,964	0.177%
JNL Shares Tactical Moderate Fund	iShares 0-5 Year High Yield Corporate Bond ETF			Fund	301,708	13,100,161	6.333%
JNL Shares Tactical Moderate Fund	VanEck Vectors Morningstar Wide Moat ETF			Fund	71,150	6,899,416	3.336%
JNL Shares Tactical Moderate Fund	iShares Cohen & Steers REIT ETF			Fund	26,140	1,722,887	0.833%
JNL Shares Tactical Moderate Fund	iShares Core Dividend Growth ETF			Fund	152,960	9,589,052	4.636%
JNL Shares Tactical Moderate Fund	iShares MBS ETF			Fund	361,760	34,660,226	16.757%
JNL Shares Tactical Moderate Fund	iShares Morningstar Value ETF			Fund	83,276	6,845,287	3.309%
JNL Shares Tactical Moderate Fund	iShares Core S&P 500 ETF			Fund	24,467	14,113,055	6.823%
JNL Shares Tactical Moderate Fund	iShares Core MSCI Emerging Markets ETF			Fund	82,706	4,748,151	2.296%
JNL Shares Tactical Moderate Fund	iShares Core S&P Mid-Cap ETF			Fund	109,446	6,820,675	3.298%
JNL Shares Tactical Moderate Fund	iShares S&P Small-Cap 600 Growth ETF			Fund	15,415	2,150,238	1.040%
JNL Shares Tactical Moderate Fund	iShares Core U.S. Aggregate Bond ETF			Fund	404,363	40,949,841	19.798%
JNL Shares Tactical Moderate Fund	iShares 5-10 Year Investment Grade Corporate Bond ETF			Fund	534,167	28,695,451	13.873%
JNL Shares Tactical Moderate Fund	iShares Core MSCI EAFE ETF			Fund	74,402	5,808,564	2.808%
JNL Shares Tactical Moderate Fund	iShares MSCI USA Quality Factor ETF			Fund	34,205	6,132,957	2.965%
JNL Shares Tactical Moderate Fund	iShares MSCI Intl Quality Factor ETF			Fund	238,382	9,890,469	4.782%
JNL Shares Tactical Moderate Fund	iShares U.S. Utilities ETF			Fund	16,583	1,091,798	0.518%
JNL Shares Tactical Moderate Fund	T. Rowe Price Capital Appreciation Equity ETF			Fund	186,961	6,216,453	3.005%
JNL Shares Tactical Moderate Fund	iShares Core S&P U.S. Growth ETF			Fund	48,159	6,352,654	3.071%
Total Non Derivatives						206,843,473	
Derivatives							
Total Derivatives						0	
Total All Investments						206,843,473	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Shares Tactical Moderate Growth Fund	Cash			Cash Equivalent	217,003	217,003	0.065%
JNL Shares Tactical Moderate Growth Fund	JNL Government Money Market Fund			Cash Equivalent	189,132	189,578	0.056%
JNL Shares Tactical Moderate Growth Fund	iShares 0-5 Year High Yield Corporate Bond ETF			Fund	346,359	15,038,908	4.473%
JNL Shares Tactical Moderate Growth Fund	VanEck Vectors Morningstar Wide Moat ETF			Fund	128,209	12,432,427	3.697%
JNL Shares Tactical Moderate Growth Fund	iShares Cohen & Steers REIT ETF			Fund	56,549	3,727,145	1.108%
JNL Shares Tactical Moderate Growth Fund	iShares Core Dividend Growth ETF			Fund	303,231	19,013,313	5.655%
JNL Shares Tactical Moderate Growth Fund	iShares MBS ETF			Fund	414,270	39,691,209	11.804%
JNL Shares Tactical Moderate Growth Fund	iShares Morningstar Value ETF			Fund	218,275	17,942,205	5.336%
JNL Shares Tactical Moderate Growth Fund	iShares Core S&P 500 ETF			Fund	50,703	29,246,504	8.698%
JNL Shares Tactical Moderate Growth Fund	iShares Core MSCI Emerging Markets ETF			Fund	193,772	11,124,451	3.398%
JNL Shares Tactical Moderate Growth Fund	iShares Core S&P Mid-Cap ETF			Fund	300,476	18,725,664	5.569%
JNL Shares Tactical Moderate Growth Fund	iShares S&P Small-Cap 600 Growth ETF			Fund	25,025	3,490,737	1.038%
JNL Shares Tactical Moderate Growth Fund	iShares Core U.S. Aggregate Bond ETF			Fund	481,391	48,750,467	14.498%
JNL Shares Tactical Moderate Growth Fund	iShares 5-10 Year Investment Grade Corporate Bond ETF			Fund	380,676	20,448,915	6.092%
JNL Shares Tactical Moderate Growth Fund	iShares Core MSCI EAFE ETF			Fund	197,352	15,407,271	4.582%
JNL Shares Tactical Moderate Growth Fund	iShares MSCI USA Quality Factor ETF			Fund	85,078	15,254,485	4.537%
JNL Shares Tactical Moderate Growth Fund	iShares MSCI Intl Quality Factor ETF			Fund	407,073	16,889,459	5.023%
JNL Shares Tactical Moderate Growth Fund	iShares Global Healthcare ETF			Fund	34,115	3,348,128	0.996%
JNL Shares Tactical Moderate Growth Fund	iShares U.S. Utilities ETF			Fund	28,755	2,933,585	0.872%
JNL Shares Tactical Moderate Growth Fund	T. Rowe Price Capital Appreciation Equity ETF			Fund	363,973	12,102,102	3.599%
JNL Shares Tactical Moderate Growth Fund	iShares Core S&P U.S. Growth ETF			Fund	229,480	30,270,707	9.003%
Total Non Derivatives						336,245,863	
Derivatives							
Total Derivatives						0	
Total All Investments						336,245,863	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLJPMorgan Global Allocation Fund	Cash			Cash Equivalent	2,886,750	2,886,750	0.280%
JNLJPMorgan Global Allocation Fund	Mid-America Apartment Communities, Inc.			Equity	922	146,506	0.014%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2052	0.75	Fixed Income	469,750	274,916	0.027%
JNLJPMorgan Global Allocation Fund	Ontario Teachers' Finance Trust	10/19/2027	1.10	Fixed Income	297,000	208,350	0.020%
JNLJPMorgan Global Allocation Fund	Henkel AG & Co. KGaA			Equity	201	18,906	0.002%
JNLJPMorgan Global Allocation Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	41,977,751	42,047,236	4.058%
JNLJPMorgan Global Allocation Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	10,896,349	10,942,874	1.063%
JNLJPMorgan Global Allocation Fund	Advantage Sales & Marketing Inc.	11/15/2028	6.50	Fixed Income	1,002,000	976,579	0.095%
JNLJPMorgan Global Allocation Fund	Petroleo Brasileiro S/A Petrobras.			Equity	74,779	509,717	0.050%
JNLJPMorgan Global Allocation Fund	S.L.M. Corporation	10/29/2025	4.20	Fixed Income	1,139,000	1,146,984	0.111%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	6/21/2051	1.75	Fixed Income	356,000	139,921	0.014%
JNLJPMorgan Global Allocation Fund	United Wholesale Mortgage, LLC	11/15/2025	5.50	Fixed Income	154,000	157,320	0.015%
JNLJPMorgan Global Allocation Fund	Alliant Holdings Intermediate, LLC	10/15/2027	4.25	Fixed Income	1,215,000	1,187,480	0.115%
JNLJPMorgan Global Allocation Fund	MGM Resorts International	10/15/2028	4.75	Fixed Income	383,000	393,728	0.037%
JNLJPMorgan Global Allocation Fund	Avaxia Coating Systems, LLC	2/15/2029	3.38	Fixed Income	358,000	336,409	0.033%
JNLJPMorgan Global Allocation Fund	The Chemours Company	11/15/2028	5.75	Fixed Income	311,000	301,822	0.029%
JNLJPMorgan Global Allocation Fund	Avolon Holdings Funding Limited	4/15/2026	4.25	Fixed Income	50,000	50,454	0.005%
JNLJPMorgan Global Allocation Fund	GFL Environmental Inc.	9/1/2028	4.00	Fixed Income	938,000	701,848	0.077%
JNLJPMorgan Global Allocation Fund	Hilton Domestic Operating Company Inc.	5/1/2029	3.75	Fixed Income	73,000	70,407	0.007%
JNLJPMorgan Global Allocation Fund	Eurofins Scientific SE			Equity	160	10,107	0.001%
JNLJPMorgan Global Allocation Fund	Frontier Communications Parent, Inc.	5/1/2028	5.00	Fixed Income	1,365,000	1,381,551	0.134%
JNLJPMorgan Global Allocation Fund	Carnival Corporation	3/1/2026	7.63	Fixed Income	1,184,000	1,182,346	0.115%
JNLJPMorgan Global Allocation Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	12/1/2032	1.86	Fixed Income	176,000	142,470	0.014%
JNLJPMorgan Global Allocation Fund	PBF Holding Company LLC	2/15/2028	6.00	Fixed Income	951,000	946,800	0.092%
JNLJPMorgan Global Allocation Fund	CNX Resources Corporation	1/15/2029	6.00	Fixed Income	604,000	615,008	0.060%
JNLJPMorgan Global Allocation Fund	Archer-Daniels-Midland Inc.	8/1/2028	4.25	Fixed Income	711,000	663,949	0.065%
JNLJPMorgan Global Allocation Fund	Nordnet AB			Equity	196	4,707	0.000%
JNLJPMorgan Global Allocation Fund	WuXi Biologics (Cayman) Inc.			Equity	4,500	9,905	0.001%
JNLJPMorgan Global Allocation Fund	Anging Food Group Co., Ltd.			Equity	11,500	161,062	0.016%
JNLJPMorgan Global Allocation Fund	H&E Equipment Services, Inc.	12/15/2028	3.88	Fixed Income	1,325,000	1,259,494	0.122%
JNLJPMorgan Global Allocation Fund	Specialty Building Products Holdings, LLC	9/30/2026	6.38	Fixed Income	1,010,000	1,005,563	0.098%
JNLJPMorgan Global Allocation Fund	American Builders & Contractors Supply Co., Inc.	1/15/2028	4.00	Fixed Income	249,000	241,774	0.023%
JNLJPMorgan Global Allocation Fund	Mattamy Homes Limited	12/15/2027	5.25	Fixed Income	58,000	58,622	0.006%
JNLJPMorgan Global Allocation Fund	Guitar Center Escrow Issuer B, Inc.	1/15/2026	8.50	Fixed Income	118,000	104,757	0.010%
JNLJPMorgan Global Allocation Fund	DoorDash, Inc.			Equity	2,426	308,263	0.030%
JNLJPMorgan Global Allocation Fund	Warehouses De Pauw			Equity	209	5,573	0.001%
JNLJPMorgan Global Allocation Fund	Global Net Lease Operating Partnership, L.P.	12/15/2027	3.75	Fixed Income	562,000	530,302	0.052%
JNLJPMorgan Global Allocation Fund	Genetec Energy, L.P.	1/15/2027	8.00	Fixed Income	853,000	786,232	0.078%
JNLJPMorgan Global Allocation Fund	Community Health Systems, Inc.	3/15/2027	5.63	Fixed Income	1,221,000	1,093,931	0.177%
JNLJPMorgan Global Allocation Fund	Community Health Systems, Inc.	1/15/2029	6.00	Fixed Income	1,089,000	1,070,676	0.104%
JNLJPMorgan Global Allocation Fund	GFL Environmental Inc.	9/1/2028	3.50	Fixed Income	1,248,000	1,192,869	0.116%
JNLJPMorgan Global Allocation Fund	Ascot Resources - Utica, LLC	12/31/2028	8.25	Fixed Income	634,000	657,922	0.064%
JNLJPMorgan Global Allocation Fund	NCL Corporation Ltd.	3/15/2026	5.88	Fixed Income	102,000	102,000	0.010%
JNLJPMorgan Global Allocation Fund	Affinity Interactive	12/15/2027	6.88	Fixed Income	951,000	888,644	0.081%
JNLJPMorgan Global Allocation Fund	Scripts Escrow II, Inc.	1/15/2029	3.88	Fixed Income	340,000	256,099	0.025%
JNLJPMorgan Global Allocation Fund	AdaptHealth LLC	8/1/2029	4.63	Fixed Income	948,000	885,745	0.086%
JNLJPMorgan Global Allocation Fund	Townsquare Media, Inc.	1/15/2026	6.98	Fixed Income	678,000	682,799	0.068%
JNLJPMorgan Global Allocation Fund	Live Nation Entertainment, Inc.	1/15/2028	3.75	Fixed Income	981,000	951,961	0.092%
JNLJPMorgan Global Allocation Fund	Haier Smart Home Co., Ltd.			Equity	87,800	346,290	0.034%
JNLJPMorgan Global Allocation Fund	SBA Communications Corporation	2/15/2027	3.88	Fixed Income	161,000	157,658	0.015%
JNLJPMorgan Global Allocation Fund	ECM Midstream Partners, L.P.	1/15/2029	4.50	Fixed Income	1,068,000	1,053,359	0.102%
JNLJPMorgan Global Allocation Fund	Community Health Systems, Inc.	12/15/2027	8.00	Fixed Income	692,000	710,251	0.069%
JNLJPMorgan Global Allocation Fund	Hilcorp Energy I L.P.	2/1/2029	5.75	Fixed Income	959,000	942,837	0.092%
JNLJPMorgan Global Allocation Fund	Urban One, Inc.	2/1/2028	7.38	Fixed Income	410,000	297,787	0.029%
JNLJPMorgan Global Allocation Fund	Vector Group Ltd.	2/1/2029	5.75	Fixed Income	880,000	901,171	0.089%
JNLJPMorgan Global Allocation Fund	CrowdStrike Holdings, Inc.	2/15/2029	3.00	Fixed Income	1,041,000	965,325	0.094%
JNLJPMorgan Global Allocation Fund	Home Point Capital Inc.	2/1/2026	5.00	Fixed Income	149,000	149,522	0.015%
JNLJPMorgan Global Allocation Fund	Affirm Holdings, Inc.			Equity	865	35,309	0.003%
JNLJPMorgan Global Allocation Fund	California Resources Corporation	2/1/2026	7.13	Fixed Income	365,000	369,407	0.036%
JNLJPMorgan Global Allocation Fund	Life Time, Inc.	2/1/2026	6.98	Fixed Income	996,000	1,009,314	0.098%
JNLJPMorgan Global Allocation Fund	Howard Hughes Corporation, The	2/1/2029	4.13	Fixed Income	694,000	652,510	0.063%
JNLJPMorgan Global Allocation Fund	Korea Electric Power Corp	1/27/2026	0.75	Fixed Income	755,000	721,022	0.070%
JNLJPMorgan Global Allocation Fund	Fiat Chrysler Automobiles N.V.			Equity	2,669	37,170	0.004%
JNLJPMorgan Global Allocation Fund	Aethlon United RR LP	2/1/2026	8.25	Fixed Income	996,000	996,000	0.099%
JNLJPMorgan Global Allocation Fund	Government of Saudi Arabia	2/2/2033	2.25	Fixed Income	322,000	269,284	0.026%
JNLJPMorgan Global Allocation Fund	PetSmart, LLC	2/15/2028	4.75	Fixed Income	1,095,000	1,056,392	0.103%
JNLJPMorgan Global Allocation Fund	Acsure, LLC	2/15/2029	4.25	Fixed Income	875,000	832,491	0.081%
JNLJPMorgan Global Allocation Fund	PreSmart, LLC	2/15/2029	7.75	Fixed Income	751,000	748,249	0.074%
JNLJPMorgan Global Allocation Fund	Clear Channel Outdoor Holdings, Inc.	4/15/2028	7.75	Fixed Income	481,000	447,499	0.043%
JNLJPMorgan Global Allocation Fund	Chesapeake Energy Corporation	2/1/2026	5.50	Fixed Income	178,000	179,404	0.017%
JNLJPMorgan Global Allocation Fund	Entertainment Studios, Inc.	2/15/2028	10.50	Fixed Income	145,000	63,678	0.006%
JNLJPMorgan Global Allocation Fund	PennyMac Financial Services, Inc.	2/15/2029	4.75	Fixed Income	46,000	44,161	0.004%
JNLJPMorgan Global Allocation Fund	Carnival Corporation	3/1/2027	5.75	Fixed Income	1,303,000	1,326,212	0.129%
JNLJPMorgan Global Allocation Fund	Tesco PLC			Equity	8,558	41,075	0.004%
JNLJPMorgan Global Allocation Fund	Avis Budget Car Rental, LLC	3/1/2029	5.38	Fixed Income	482,000	452,774	0.044%
JNLJPMorgan Global Allocation Fund	Comstock Resources, Inc.	3/1/2029	6.75	Fixed Income	1,140,000	1,125,662	0.109%
JNLJPMorgan Global Allocation Fund	Archag Metal Packaging Finance Public Limited Company	9/1/2028	3.25	Fixed Income	1,131,000	1,049,439	0.102%
JNLJPMorgan Global Allocation Fund	NCL Finance, Ltd.	3/15/2028	6.13	Fixed Income	149,000	152,358	0.015%
JNLJPMorgan Global Allocation Fund	Tronox Incorporated	3/15/2029	4.63	Fixed Income	1,233,000	1,153,552	0.112%
JNLJPMorgan Global Allocation Fund	Shutterstock, LLC	10/1/2028	8.60	Fixed Income	34,000	17,595	0.002%
JNLJPMorgan Global Allocation Fund	Macys Retail Holdings	4/1/2029	5.88	Fixed Income	349,000	365,172	0.035%
JNLJPMorgan Global Allocation Fund	Twilio Inc.	3/15/2029	3.63	Fixed Income	452,000	421,227	0.041%
JNLJPMorgan Global Allocation Fund	Alcoa Nederland Holding B.V.	3/31/2029	4.13	Fixed Income	1,136,000	1,089,539	0.106%
JNLJPMorgan Global Allocation Fund	Charles River Laboratories International, Inc.	3/15/2029	3.75	Fixed Income	322,000	303,541	0.029%
JNLJPMorgan Global Allocation Fund	Avis Budget Car Rental, LLC	4/1/2028	4.75	Fixed Income	649,000	624,899	0.061%
JNLJPMorgan Global Allocation Fund	American Airlines, Inc.	4/20/2026	5.50	Fixed Income	1,277,500	1,287,645	0.125%
JNLJPMorgan Global Allocation Fund	Navient Corporation	3/15/2028	4.88	Fixed Income	680,000	658,941	0.064%
JNLJPMorgan Global Allocation Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	436,000	440,394	0.043%
JNLJPMorgan Global Allocation Fund	Tenneco Seely International, Inc.	1/15/2029	4.00	Fixed Income	1,051,000	1,011,125	0.098%
JNLJPMorgan Global Allocation Fund	TEGNA Inc.	3/15/2028	4.63	Fixed Income	1,374,000	1,320,772	0.128%
JNLJPMorgan Global Allocation Fund	Sensata Technologies B.V.	4/15/2029	4.00	Fixed Income	1,153,000	1,120,314	0.109%
JNLJPMorgan Global Allocation Fund	International Game Technology PLC	4/15/2026	4.13	Fixed Income	1,281,000	1,289,404	0.125%
JNLJPMorgan Global Allocation Fund	NESCO Holdings B, Inc.	4/15/2029	5.50	Fixed Income	1,010,000	966,209	0.095%
JNLJPMorgan Global Allocation Fund	Hikma Pharmaceuticals Public Limited Company			Equity	192	4,916	0.000%
JNLJPMorgan Global Allocation Fund	LCPR Secured Financing Designated Activity Company	7/15/2029	5.13	Fixed Income	648,000	533,905	0.052%
JNLJPMorgan Global Allocation Fund	MGM China Holdings Limited	2/1/2027	4.75	Fixed Income	350,000	343,014	0.033%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	6/21/2031	1.50	Fixed Income	1,310,000	1,286,112	0.126%
JNLJPMorgan Global Allocation Fund	Uniti Group Inc.	4/15/2028	4.75	Fixed Income	1,440,000	1,367,321	0.133%
JNLJPMorgan Global Allocation Fund	Fortress Transportation And Infrastructure Investors LLC	5/1/2028	5.50	Fixed Income	281,000	286,321	0.028%
JNLJPMorgan Global Allocation Fund	Rightmove PLC			Equity	992	8,255	0.001%
JNLJPMorgan Global Allocation Fund	Wash Multifamily Acquisition Inc.	4/15/2026	5.75	Fixed Income	613,000	624,275	0.061%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	3/1/2072	2.15	Fixed Income	169,000	112,424	0.011%
JNLJPMorgan Global Allocation Fund	Oragon & Co.	4/30/2028	4.13	Fixed Income	1,236,000	1,209,441	0.117%
JNLJPMorgan Global Allocation Fund	Magis Mercego, Inc.	5/1/2028	5.25	Fixed Income	1,420,000	1,072,973	0.104%
JNLJPMorgan Global Allocation Fund	Romניה, Government of	4/14/2033	2.00	Fixed Income	455,000	286,000	0.028%
JNLJPMorgan Global Allocation Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	4.38	Fixed Income	1,289,000	1,294,614	0.126%
JNLJPMorgan Global Allocation Fund	United Airlines Pass Through Certificates, Series 2015-1			Fixed Income	1,197,000	1,182,088	0.115%
JNLJPMorgan Global Allocation Fund	Coty Inc.	4/15/2026	5.00	Fixed Income	297,000	302,596	0.029%
JNLJPMorgan Global Allocation Fund	Oscar Health, Inc.			Equity	2,481	52,622	0.005%
JNLJPMorgan Global Allocation Fund	PVG Bank Shiji Spolka Akcyjna			Equity	41	2,802	0.000%
JNLJPMorgan Global Allocation Fund	G&L Beijer Ref AB			Equity	458	7,542	0.001%
JNLJPMorgan Global Allocation Fund	Jazz Securities Designated Activity Company	1/15/2029	4.38	Fixed Income	1,324,000	1,293,094	0.126%
JNLJPMorgan Global Allocation Fund	The Philippines, Government of	4/28/2025	0.25	Fixed Income	406,000	442,633	0.043%
JNLJPMorgan Global Allocation Fund	Vestas Wind Systems A/S			Equity	1,254	27,528	0.003%
JNLJPMorgan Global Allocation Fund	Zencho Holdings Co., Ltd.			Equity	100	5,557	0.001%
JNLJPMorgan Global Allocation Fund	Litco AB (Publ)			Equity	283	9,314	0.001%
JNLJPMorgan Global Allocation Fund	Allied Universal Holdco LLC	6/1/2028	4.63	Fixed Income	1,477,000	1,407,837	0.137%
JNLJPMorgan Global Allocation Fund	Atlas LxCo 4 S.A.I.	9/1/2028	4.63	Fixed Income	688,000	657,503	0.064%
JNLJPMorgan Global Allocation Fund	Univision Communications Inc.	5/1/2029	4.50	Fixed Income	885,000	807,150	0.078%
JNLJPMorgan Global Allocation Fund	Northern Oil and Gas Incorporated	3/1/2028	6.13	Fixed Income	884,000	897,947	0.087%
JNLJPMorgan Global Allocation Fund	Epiroc Aktiebolag			Equity	488	9,246	0.001%
JNLJPMorgan Global Allocation Fund	Epiroc Aktiebolag			Equity	368	16,615	0.002%
JNLJPMorgan Global Allocation Fund	Antero Resources Corporation	3/1/2030	5.38	Fixed Income	700,000	694,392	0.067%
JNLJPMorgan Global Allocation Fund	Investor Aktiebolag			Equity	710	21,871	0.002%
JNLJPMorgan Global Allocation Fund	Investor Aktiebolag			Equity	2,201	67,836	0.007%
JNLJPMorgan Global Allocation Fund	Hexagon Aktiebolag			Equity	2,633	28,322	0.003%
JNLJPMorgan Global Allocation Fund	Seagate Technology Holdings Public Limited Company			Equity	2,121	233,798	0.023%
JNLJPMorgan Global Allocation Fund	Lithia Motors, Inc.	6/1/2029	3.88	Fixed Income	578,000	547,057	0.053%
JNLJPMorgan Global Allocation Fund	IAC Inc.			Equity	2,118	113,991	0.011%
JNLJPMorgan Global Allocation Fund	Bausch Health Companies Inc.	6/1/2028	4.88	Fixed Income	19,000	15,172	0.001%
JNLJPMorgan Global Allocation Fund	HSBC Industrier AB			Equity	2,063	11,314	0.001%
JNLJPMorgan Global Allocation Fund	DT Midstream, Inc.	6/15/2029	4.13	Fixed Income	264,000	255,745	0.025%
JNLJPMorgan Global Allocation Fund	CVR Partners, LP	6/15/2028	6.13	Fixed Income	196,000	195,570	0.019%
JNLJPMorgan Global Allocation Fund	Iroha Merger Corporation	5/15/2029	4.75	Fixed Income	1,055,000	1,048,494	0.102%
JNLJPMorgan Global Allocation Fund	Kanchun Limited			Equity	11,053	191,880	0.019%
JNLJPMorgan Global Allocation Fund	Royal Caribbean Cruises Ltd.	7/1/2026	4.25	Fixed Income	1,178,000	1,176,879	0.114%
JNLJPMorgan Global Allocation Fund	OneMain Finance Corporation	1/15/2027	3.50	Fixed Income	880,000	847,455	0.082%
JNLJPMorgan Global Allocation Fund	Madison IAQ LLC	6/30/2028	4.13				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	H World Group Limited			Equity	50,600	190,361	0.018%
JNLJPMorgan Global Allocation Fund	Amwinds Group, Inc.	6/30/2029	4.88	Fixed Income	65,000	54,444	0.065%
JNLJPMorgan Global Allocation Fund	Millennium Escrow Corporation	8/1/2026	6.63	Fixed Income	332,000	211,771	0.021%
JNLJPMorgan Global Allocation Fund	Ontario Teachers' Finance Trust	5/19/2028	0.10	Fixed Income	875,000	891,683	0.087%
JNLJPMorgan Global Allocation Fund	MVC Acquisition Corp.	8/1/2028	5.75	Fixed Income	1,092,000	1,089,607	0.106%
JNLJPMorgan Global Allocation Fund	Carminal Corporation	8/1/2028	4.00	Fixed Income	1,344,000	1,306,113	0.127%
JNLJPMorgan Global Allocation Fund	Lakelandbank Corp.			Equity	7,487	121,588	0.012%
JNLJPMorgan Global Allocation Fund	DIRECTV Financing, LLC	8/15/2027	5.88	Fixed Income	1,356,000	1,339,788	0.130%
JNLJPMorgan Global Allocation Fund	Novellis Corporation	11/15/2026	3.25	Fixed Income	945,000	924,890	0.090%
JNLJPMorgan Global Allocation Fund	Air Canada	8/15/2026	3.88	Fixed Income	26,000	25,454	0.002%
JNLJPMorgan Global Allocation Fund	Community Health Systems, Inc.	4/1/2028	6.88	Fixed Income	119,000	1,093,936	0.010%
JNLJPMorgan Global Allocation Fund	Bath & Body Works, Inc.			Equity	4,084	130,361	0.013%
JNLJPMorgan Global Allocation Fund	Temasek Financial (I) Limited	8/2/2031	1.63	Fixed Income	1,151,000	986,938	0.096%
JNLJPMorgan Global Allocation Fund	OneMain Finance Corporation	9/15/2028	3.88	Fixed Income	587,000	545,448	0.053%
JNLJPMorgan Global Allocation Fund	Liberty Mutual Group Inc.	12/15/2051	4.13	Fixed Income	584,000	571,042	0.056%
JNLJPMorgan Global Allocation Fund	W.R. Grace Holdings LLC	8/15/2029	5.63	Fixed Income	576,000	545,128	0.053%
JNLJPMorgan Global Allocation Fund	HM Treasury	10/22/2030	0.38	Fixed Income	1,190,000	1,306,919	0.127%
JNLJPMorgan Global Allocation Fund	Staat der Nederlanden	7/15/2031	0.50	Fixed Income	15,000	14,350	0.001%
JNLJPMorgan Global Allocation Fund	Royal Caribbean Cruises Ltd.	8/31/2026	4.50	Fixed Income	942,000	955,679	0.093%
JNLJPMorgan Global Allocation Fund	Clarivate Science Holdings Corporation	7/1/2028	3.88	Fixed Income	418,000	404,786	0.039%
JNLJPMorgan Global Allocation Fund	Estate Espanol	7/30/2042	1.00	Fixed Income	251,000	190,693	0.019%
JNLJPMorgan Global Allocation Fund	Capitland Investment Limited			Equity	5,000	7,264	0.001%
JNLJPMorgan Global Allocation Fund	Comibank Global, Inc.	10/1/2028	3.38	Fixed Income	588,000	539,888	0.052%
JNLJPMorgan Global Allocation Fund	Sandor-Palota	9/22/2031	2.13	Fixed Income	331,000	274,205	0.027%
JNLJPMorgan Global Allocation Fund	icahn Enterprises L.P.	2/1/2029	4.38	Fixed Income	779,000	686,464	0.067%
JNLJPMorgan Global Allocation Fund	Sandor-Palota	9/21/2028	0.13	Fixed Income	257,000	251,416	0.024%
JNLJPMorgan Global Allocation Fund	Azelex Group			Equity	142	3,121	0.003%
JNLJPMorgan Global Allocation Fund	Pactiv Evergreen Group Issuer LLC	10/15/2028	4.38	Fixed Income	212,000	207,420	0.020%
JNLJPMorgan Global Allocation Fund	Universal Music Group N.V.			Equity	1,183	31,025	0.003%
JNLJPMorgan Global Allocation Fund	Olympus Water US Holding Corporation	10/1/2028	4.25	Fixed Income	1,188,000	1,159,148	0.113%
JNLJPMorgan Global Allocation Fund	Procter Mortgage, LLC	10/15/2026	2.88	Fixed Income	588,000	588,188	0.058%
JNLJPMorgan Global Allocation Fund	W. R. Grace Holdings LLC	8/15/2027	4.88	Fixed Income	378,000	377,888	0.037%
JNLJPMorgan Global Allocation Fund	Dassault Aviation			Equity	25	5,153	0.001%
JNLJPMorgan Global Allocation Fund	Mozart Debt Merger Sub Inc.	4/1/2029	3.88	Fixed Income	1,335,000	1,289,726	0.125%
JNLJPMorgan Global Allocation Fund	Pearl Merger Sub Inc.	10/1/2028	6.75	Fixed Income	1,000,000	950,253	0.092%
JNLJPMorgan Global Allocation Fund	Scih Salt Holdings Inc.	5/1/2029	4.88	Fixed Income	1,073,000	1,037,809	0.103%
JNLJPMorgan Global Allocation Fund	Ontario, Government of	11/25/2030	0.01	Fixed Income	1,655,000	1,570,759	0.153%
JNLJPMorgan Global Allocation Fund	The Province of British Columbia, Government of	6/18/2050	2.95	Fixed Income	160,000	97,465	0.009%
JNLJPMorgan Global Allocation Fund	CIBC Mortgage Trust Company	6/15/2026	1.25	Fixed Income	140,000	100,874	0.010%
JNLJPMorgan Global Allocation Fund	The Province of Alberta, Government of	12/1/2028	2.90	Fixed Income	40,000	29,036	0.003%
JNLJPMorgan Global Allocation Fund	The Province of British Columbia, Government of	6/18/2037	4.70	Fixed Income	280,000	226,554	0.022%
JNLJPMorgan Global Allocation Fund	Encino Acquisition Partners Holdings, LLC	5/1/2028	8.50	Fixed Income	729,000	768,044	0.075%
JNLJPMorgan Global Allocation Fund	Meluhun			Equity	8,200	174,575	0.017%
JNLJPMorgan Global Allocation Fund	Pibarra Minerals Limited			Equity	3,411	8,950	0.009%
JNLJPMorgan Global Allocation Fund	Autostore Holdings Ltd.			Equity	1,078	1,100	0.000%
JNLJPMorgan Global Allocation Fund	NaviCorp Corporation	3/15/2029	5.50	Fixed Income	723,000	703,184	0.068%
JNLJPMorgan Global Allocation Fund	Ford Motor Company	2/12/2032	3.25	Fixed Income	150,000	128,457	0.012%
JNLJPMorgan Global Allocation Fund	Mohican Tribal Gaming Authority	9/1/2026	8.00	Fixed Income	1,313,000	1,322,086	0.128%
JNLJPMorgan Global Allocation Fund	Dexia	12/11/2024	0.25	Fixed Income	700,000	929,094	0.090%
JNLJPMorgan Global Allocation Fund	DISH DBS Corporation	12/1/2026	5.25	Fixed Income	1,419,000	1,340,768	0.130%
JNLJPMorgan Global Allocation Fund	BCPE Empire Holdings, Inc.	5/1/2027	7.63	Fixed Income	22,000	22,767	0.002%
JNLJPMorgan Global Allocation Fund	Deutsche Bank Aktiengesellschaft	11/16/2027	2.15	Fixed Income	760,000	719,245	0.070%
JNLJPMorgan Global Allocation Fund	Southwestern Energy Company	2/1/2029	5.38	Fixed Income	366,000	367,768	0.036%
JNLJPMorgan Global Allocation Fund	Nabors Industries, Inc.	5/15/2027	7.38	Fixed Income	579,000	596,513	0.058%
JNLJPMorgan Global Allocation Fund	Coty Inc.	1/15/2029	4.75	Fixed Income	263,000	259,713	0.025%
JNLJPMorgan Global Allocation Fund	ID Sports Fashion PLC			Equity	6,128	6,459	0.001%
JNLJPMorgan Global Allocation Fund	Nederlandse Waterschapsbank N.V.	7/20/2027	3.50	Fixed Income	460,000	315,437	0.031%
JNLJPMorgan Global Allocation Fund	Daimler Truck Holding AG			Equity	604	22,612	0.002%
JNLJPMorgan Global Allocation Fund	Ontario Teachers' Finance Trust	5/6/2025	0.50	Fixed Income	2,000,000	2,196,238	0.213%
JNLJPMorgan Global Allocation Fund	AS Sapac			Equity	134	446	0.000%
JNLJPMorgan Global Allocation Fund	Wise PLC			Equity	874	7,889	0.008%
JNLJPMorgan Global Allocation Fund	LCM Investments Holdings II, LLC	5/1/2029	4.88	Fixed Income	1,072,000	1,051,610	0.102%
JNLJPMorgan Global Allocation Fund	Canada, Government of	12/1/2053	1.75	Fixed Income	205,000	112,380	0.011%
JNLJPMorgan Global Allocation Fund	Federal Realty Investment Trust			Equity	869	99,909	0.010%
JNLJPMorgan Global Allocation Fund	Nippon Express Co., Ltd.			Equity	100	5,257	0.005%
JNLJPMorgan Global Allocation Fund	Royal Caribbean Cruises Ltd.	7/15/2027	5.38	Fixed Income	1,015,000	1,034,576	0.101%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	9/1/2025	2.15	Fixed Income	250,000	193,648	0.019%
JNLJPMorgan Global Allocation Fund	Canada, Government of	9/1/2026	1.00	Fixed Income	1,050,000	757,704	0.074%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	11/21/2028	2.75	Fixed Income	840,000	635,929	0.062%
JNLJPMorgan Global Allocation Fund	Canada, Government of	12/1/2031	1.50	Fixed Income	54,000	36,670	0.004%
JNLJPMorgan Global Allocation Fund	Brookfield Properties Retail Holding LLC	4/1/2027	4.50	Fixed Income	422,000	420,001	0.041%
JNLJPMorgan Global Allocation Fund	Ferritis Entertainment LLC	1/15/2029	4.63	Fixed Income	1,088,000	1,049,105	0.102%
JNLJPMorgan Global Allocation Fund	Japan Bank For International Cooperation	11/20/2027	1.60	Fixed Income	273,000	272,466	0.026%
JNLJPMorgan Global Allocation Fund	SBA Communications Corporation	2/1/2029	3.13	Fixed Income	997,000	927,426	0.090%
JNLJPMorgan Global Allocation Fund	Jacobs Entertainment, Inc.	2/15/2029	6.75	Fixed Income	912,000	894,211	0.089%
JNLJPMorgan Global Allocation Fund	Bausch Health Companies Inc.	2/1/2027	6.13	Fixed Income	327,000	298,398	0.029%
JNLJPMorgan Global Allocation Fund	Export-Import Bank of Korea, The	10/19/2024		Fixed Income	1,990,000	2,311,158	0.215%
JNLJPMorgan Global Allocation Fund	SHL PLC			Equity	96,772	3,144,430	0.305%
JNLJPMorgan Global Allocation Fund	Sirius XM Radio Inc.	9/1/2026	3.13	Fixed Income	749,000	725,957	0.071%
JNLJPMorgan Global Allocation Fund	CoreLogic, Inc.	5/1/2028	4.50	Fixed Income	35,000	33,735	0.003%
JNLJPMorgan Global Allocation Fund	Old Clemco, LLC	5/1/2026	6.75	Fixed Income	976,000	996,808	0.097%
JNLJPMorgan Global Allocation Fund	SLM Corporation	11/2/2026	3.13	Fixed Income	10,000	9,745	0.001%
JNLJPMorgan Global Allocation Fund	Eco Material Technologies Inc.	1/31/2027	7.88	Fixed Income	954,000	976,511	0.095%
JNLJPMorgan Global Allocation Fund	New Enterprise Stone & Lime Co., Inc.	7/15/2028	5.25	Fixed Income	207,000	204,619	0.020%
JNLJPMorgan Global Allocation Fund	TransDigm Inc.	11/5/2029	4.63	Fixed Income	1,044,000	1,019,409	0.099%
JNLJPMorgan Global Allocation Fund	SPM Escrow Issuer, LLC	11/1/2028	6.00	Fixed Income	745,000	710,027	0.070%
JNLJPMorgan Global Allocation Fund	NCL Corporation Ltd.	2/15/2027	5.88	Fixed Income	1,275,000	1,288,407	0.125%
JNLJPMorgan Global Allocation Fund	Elanco Animal Health Incorporated			Equity	5,992	88,022	0.009%
JNLJPMorgan Global Allocation Fund	Paramount Global	3/30/2062	6.38	Fixed Income	619,000	569,498	0.055%
JNLJPMorgan Global Allocation Fund	Porsche Automotive Group, Inc.	9/1/2025	3.50	Fixed Income	260,000	259,787	0.025%
JNLJPMorgan Global Allocation Fund	Starwood Property Trust, Inc.	1/15/2027	4.38	Fixed Income	374,000	367,959	0.036%
JNLJPMorgan Global Allocation Fund	United Wholesale Mortgage, LLC	6/15/2027	5.75	Fixed Income	815,000	824,100	0.080%
JNLJPMorgan Global Allocation Fund	Earthstone Energy Holdings, LLC	4/15/2027	8.00	Fixed Income	454,000	484,194	0.047%
JNLJPMorgan Global Allocation Fund	Straumann Holding AG			Equity	137	2,437	0.002%
JNLJPMorgan Global Allocation Fund	The Goodyear Tire & Rubber Company	7/15/2029	5.00	Fixed Income	358,000	332,649	0.032%
JNLJPMorgan Global Allocation Fund	Atlas Copco Aktiebolag			Equity	47,561	921,051	0.089%
JNLJPMorgan Global Allocation Fund	Atlas Copco Aktiebolag			Equity	1,951	33,430	0.003%
JNLJPMorgan Global Allocation Fund	Avaya PLC			Equity	3,316	23,265	0.002%
JNLJPMorgan Global Allocation Fund	Aspen Technology, Inc.			Equity	231	55,167	0.005%
JNLJPMorgan Global Allocation Fund	The Lottery Corporation Limited			Equity	2,749	9,764	0.001%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	3/1/2038	3.25	Fixed Income	179,000	191,076	0.019%
JNLJPMorgan Global Allocation Fund	Fosightes AG Bankler			Equity	830	7,262	0.007%
JNLJPMorgan Global Allocation Fund	Woodside Energy Group Ltd.			Equity	2,373	42,844	0.004%
JNLJPMorgan Global Allocation Fund	EOM Midstream Partners, LP	6/1/2027	7.50	Fixed Income	341,000	359,604	0.035%
JNLJPMorgan Global Allocation Fund	HM Treasury	7/31/2051	1.25	Fixed Income	463,000	307,032	0.030%
JNLJPMorgan Global Allocation Fund	Compagnie Generale des Etablissements Michelin			Equity	22,954	931,628	0.091%
JNLJPMorgan Global Allocation Fund	Vir Energi ASA			Equity	874	7,705	0.000%
JNLJPMorgan Global Allocation Fund	PB Fintech Limited			Equity	3,542	68,639	0.007%
JNLJPMorgan Global Allocation Fund	SCIL IV LLC / SCIL USA Holdings LLC	11/1/2026	5.38	Fixed Income	898,000	906,810	0.088%
JNLJPMorgan Global Allocation Fund	Canada, Government of	6/1/2041	4.00	Fixed Income	323,000	270,021	0.026%
JNLJPMorgan Global Allocation Fund	Hudbay Minerals Inc.	4/1/2026	4.50	Fixed Income	71,000	71,848	0.007%
JNLJPMorgan Global Allocation Fund	Haleon PLC			Equity	8,352	43,946	0.004%
JNLJPMorgan Global Allocation Fund	GSK PLC			Equity	5,069	104,695	0.010%
JNLJPMorgan Global Allocation Fund	Block, Inc.	6/1/2026	2.75	Fixed Income	1,178,000	1,152,531	0.112%
JNLJPMorgan Global Allocation Fund	American Express Company	8/1/2025	3.13	Fixed Income	102,000	102,258	0.010%
JNLJPMorgan Global Allocation Fund	Nordea Bank Abp			Equity	3,992	47,066	0.005%
JNLJPMorgan Global Allocation Fund	Tata Steel Limited			Equity	72,329	146,219	0.014%
JNLJPMorgan Global Allocation Fund	Vodafone Group Public Limited Company			Equity	22,000	21,309	0.002%
JNLJPMorgan Global Allocation Fund	AG TMT Escrow Issuer LLC	9/30/2027	8.63	Fixed Income	571,000	585,193	0.057%
JNLJPMorgan Global Allocation Fund	Allegiant Travel Company	8/15/2027	7.25	Fixed Income	502,000	501,090	0.049%
JNLJPMorgan Global Allocation Fund	Straithcon Resources Ltd.	8/1/2026	6.88	Fixed Income	122,000	122,713	0.012%
JNLJPMorgan Global Allocation Fund	NewWest Group PLC			Equity	7,760	35,672	0.003%
JNLJPMorgan Global Allocation Fund	Alimentation Couche-Tard Inc.			Equity	15,059	83,535	0.008%
JNLJPMorgan Global Allocation Fund	Newell Brands Inc.	9/15/2027	6.38	Fixed Income	867,000	881,415	0.086%
JNLJPMorgan Global Allocation Fund	Gen Digital Inc.	9/30/2027	6.75	Fixed Income	963,000	990,050	0.096%
JNLJPMorgan Global Allocation Fund	Schroders PLC			Equity	5,354	11,029	0.001%
JNLJPMorgan Global Allocation Fund	Ontario Teachers' Finance Trust	5/15/2026	1.13	Fixed Income	2,700,000	3,444,237	0.335%
JNLJPMorgan Global Allocation Fund	Cloud Software Group, Inc.	3/31/2029	6.50	Fixed Income	1,259,000	1,253,257	0.122%
JNLJPMorgan Global Allocation Fund	HM Treasury	10/22/2061	0.50	Fixed Income	330,000	135,761	0.013%
JNLJPMorgan Global Allocation Fund	Dr. Ing. h.c. F. Porsche Aktiengesellschaft			Equity	138	11,018	0.001%
JNLJPMorgan Global Allocation Fund	Danmarks Nationalbank	11/15/2031	810,000	Fixed Income	810,000	105,501	0.010%
JNLJPMorgan Global Allocation Fund	Canada, Government of	6/1/2031	1.50	Fixed Income	1,200,000	821,020	0.080%
JNLJPMorgan Global Allocation Fund	HM Treasury	9/7/2034	4.50	Fixed Income	75,000	104,772	0.010%
JNLJPMorgan Global Allocation Fund	HM Treasury	10/22/2073	1.13	Fixed Income	70,000	35,205	0.003%
JNLJPMorgan Global Allocation Fund	Carnival Holdings (Bermuda) Limited	5/1/2028	10.38	Fixed Income	1,090,000	1,223,491	0.119%
JNLJPMorgan Global Allocation Fund	HM Treasury	7/31/2033	0.88	Fixed Income	1,675,000	1,737,486	0.169%
JNLJPMorgan Global Allocation Fund	HM Treasury	9/7/2039	4.25	Fixed Income	306,000	408,296	0.040%
JNLJPMorgan Global Allocation Fund	HM Treasury	12/7/2040	4.25	Fixed Income	202,000	270,407	0.026%
JNLJPMorgan Global Allocation Fund	HM Treasury	10/22/2041	1.25	Fixed Income	193,000	163,549	0.016%
JNLJPMorgan Global Allocation Fund	HM Treasury	12/7/2042	4.50	Fixed Income	360,000	492,498	0.048%
JNLJPMorgan Global Allocation Fund	HM Treasury	12/7/2049	4.25	Fixed Income	245,000	316,766	0.031%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Svenska Cellulosa Aktiebolaget SCA			Equity	717	10,472	0.001%
JNLJPMorgan Global Allocation Fund	SSAB AB			Equity	728	2,731	0.000%
JNLJPMorgan Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/9/2028	5.40	Fixed Income	292,000	301,199	0.029%
JNLJPMorgan Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/9/2035	6.35	Fixed Income	400,000	423,766	0.041%
JNLJPMorgan Global Allocation Fund	Export-Import Bank of Korea, The	1/11/2026	4.88	Fixed Income	422,000	430,133	0.042%
JNLJPMorgan Global Allocation Fund	Transocean Tien Financing Ltd.	2/1/2028	6.38	Fixed Income	1,230,000	1,284,237	0.125%
JNLJPMorgan Global Allocation Fund	Government of Saudi Arabia	11/8/2028	4.75	Fixed Income	733,000	753,544	0.073%
JNLJPMorgan Global Allocation Fund	Sealed Air Corporation	2/1/2028	6.13	Fixed Income	1,014,000	1,041,529	0.101%
JNLJPMorgan Global Allocation Fund	Japan Bank For International Cooperation	1/26/2026	4.25	Fixed Income	1,388,000	1,400,182	0.136%
JNLJPMorgan Global Allocation Fund	Federal Home Loan Mortgage Corporation	12/1/2052	5.50	Fixed Income	868,013	883,550	0.086%
JNLJPMorgan Global Allocation Fund	NCL Corporation Ltd	2/1/2028	8.38	Fixed Income	926,000	986,492	0.096%
JNLJPMorgan Global Allocation Fund	Tenet Healthcare Corporation	11/1/2027	5.13	Fixed Income	1,238,000	1,260,713	0.122%
JNLJPMorgan Global Allocation Fund	Tenet Healthcare Corporation	6/15/2028	4.63	Fixed Income	1,002,000	997,965	0.097%
JNLJPMorgan Global Allocation Fund	Tenet Healthcare Corporation	6/1/2029	4.25	Fixed Income	219,000	214,455	0.021%
JNLJPMorgan Global Allocation Fund	Estado Espanol	4/30/2033	3.15	Fixed Income	1,353,000	1,568,626	0.152%
JNLJPMorgan Global Allocation Fund	MongoDB, Inc.			Equity	505	136,527	0.013%
JNLJPMorgan Global Allocation Fund	HM Treasury	9/7/2037	1.75	Fixed Income	425,000	433,858	0.042%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	3/21/2047	3.00	Fixed Income	106,000	57,403	0.006%
JNLJPMorgan Global Allocation Fund	Segretario Generale Della Presidenza Della Repubblica	9/1/2046	3.25	Fixed Income	110,000	110,878	0.011%
JNLJPMorgan Global Allocation Fund	Yum! Brands, Inc.			Equity	164	22,912	0.002%
JNLJPMorgan Global Allocation Fund	Yum! Brands, Inc.			Equity	43,172	6,031,560	0.586%
JNLJPMorgan Global Allocation Fund	Rio Tinto PLC			Equity	1,296	92,046	0.009%
JNLJPMorgan Global Allocation Fund	Diageo PLC			Equity	82,849	2,935,331	0.285%
JNLJPMorgan Global Allocation Fund	Verizon Communications Inc.			Equity	1,898	85,239	0.008%
JNLJPMorgan Global Allocation Fund	Mettler-Toledo International Inc.			Equity	107	160,468	0.016%
JNLJPMorgan Global Allocation Fund	FedEx Corporation			Equity	1,254	345,444	0.034%
JNLJPMorgan Global Allocation Fund	Pearson PLC			Equity	836	11,369	0.001%
JNLJPMorgan Global Allocation Fund	BAE Systems PLC			Equity	3,772	62,545	0.006%
JNLJPMorgan Global Allocation Fund	Lloyds Banking Group PLC			Equity	1,990,585	1,563,050	0.152%
JNLJPMorgan Global Allocation Fund	Archer-Daniels-Midland Company			Equity	1,345	80,350	0.008%
JNLJPMorgan Global Allocation Fund	Concast Corporation			Equity	2,085	87,090	0.008%
JNLJPMorgan Global Allocation Fund	International Business Machines Corporation			Equity	317	703,544	0.070%
JNLJPMorgan Global Allocation Fund	Ashland Group Public Limited Company			Equity	546	42,335	0.004%
JNLJPMorgan Global Allocation Fund	DCC Public Limited Company			Equity	124	8,471	0.001%
JNLJPMorgan Global Allocation Fund	W. R. Berkley Corporation			Equity	1,307	74,146	0.007%
JNLJPMorgan Global Allocation Fund	Analog Devices, Inc.			Equity	2,922	74,115	0.007%
JNLJPMorgan Global Allocation Fund	BP P.L.C.			Equity	426,348	2,229,086	0.217%
JNLJPMorgan Global Allocation Fund	Berkshire Hathaway Inc.			Equity	1,953	898,888	0.087%
JNLJPMorgan Global Allocation Fund	Take-Two Interactive Software, Inc.			Equity	1,617	248,549	0.024%
JNLJPMorgan Global Allocation Fund	The AES Corporation			Equity	9,516	190,991	0.019%
JNLJPMorgan Global Allocation Fund	Banco Santander-Chile			Equity	3,667,412	190,941	0.019%
JNLJPMorgan Global Allocation Fund	Best Buy Co., Inc.			Equity	760	79,222	0.008%
JNLJPMorgan Global Allocation Fund	Associated British Foods PLC			Equity	411	12,844	0.001%
JNLJPMorgan Global Allocation Fund	Bristol-Myers Squibb Company			Equity	11,354	592,785	0.057%
JNLJPMorgan Global Allocation Fund	Smith & Nephew PLC			Equity	1,091	16,968	0.002%
JNLJPMorgan Global Allocation Fund	Advanced Micro Devices, Inc.			Equity	1,242	203,787	0.020%
JNLJPMorgan Global Allocation Fund	Advanced Micro Devices, Inc.			Equity	20,669	3,391,370	0.329%
JNLJPMorgan Global Allocation Fund	AutoZone, Inc.			Equity	314	107,101	0.010%
JNLJPMorgan Global Allocation Fund	AutoZone, Inc.			Equity	1,256	3,956,450	0.384%
JNLJPMorgan Global Allocation Fund	Quanta Services, Inc.			Equity	1,685	502,383	0.049%
JNLJPMorgan Global Allocation Fund	American Express Company			Equity	599	162,449	0.016%
JNLJPMorgan Global Allocation Fund	Coles Group Limited			Equity	1,653	20,163	0.002%
JNLJPMorgan Global Allocation Fund	Persimmon Public Limited Company			Equity	400	8,811	0.001%
JNLJPMorgan Global Allocation Fund	Standard Chartered PLC			Equity	2,682	28,690	0.003%
JNLJPMorgan Global Allocation Fund	Imperial Brands PLC			Equity	1,079	31,392	0.003%
JNLJPMorgan Global Allocation Fund	AstraZeneca PLC			Equity	9,737	1,518,921	0.148%
JNLJPMorgan Global Allocation Fund	Honeywell International Inc.			Equity	1,802	372,491	0.036%
JNLJPMorgan Global Allocation Fund	Honeywell International Inc.			Equity	15,116	3,124,628	0.304%
JNLJPMorgan Global Allocation Fund	HSBC Holdings PLC			Equity	23,248	208,375	0.020%
JNLJPMorgan Global Allocation Fund	HSBC Holdings PLC			Equity	28,800	258,656	0.025%
JNLJPMorgan Global Allocation Fund	Brunswick Corporation			Equity	491	57,434	0.005%
JNLJPMorgan Global Allocation Fund	Legal & General Group PLC			Equity	8,885	26,961	0.003%
JNLJPMorgan Global Allocation Fund	TD SYNNEX Corporation			Equity	1,345	161,508	0.016%
JNLJPMorgan Global Allocation Fund	British American Tobacco P.L.C.			Equity	2,475	92,410	0.009%
JNLJPMorgan Global Allocation Fund	Antipatria PLC			Equity	416	57,434	0.005%
JNLJPMorgan Global Allocation Fund	Abbott Laboratories			Equity	21,631	2,466,150	0.240%
JNLJPMorgan Global Allocation Fund	AMETEK, Inc.			Equity	1,858	319,037	0.031%
JNLJPMorgan Global Allocation Fund	Amazon.com, Inc.			Equity	13,788	2,569,118	0.250%
JNLJPMorgan Global Allocation Fund	Amazon.com, Inc.			Equity	94,431	17,595,328	1.709%
JNLJPMorgan Global Allocation Fund	Hess Corporation			Equity	676	91,801	0.009%
JNLJPMorgan Global Allocation Fund	SSE PLC			Equity	109,647	2,761,793	0.268%
JNLJPMorgan Global Allocation Fund	Taylor Wimpey PLC			Equity	4,413	9,721	0.001%
JNLJPMorgan Global Allocation Fund	Wier Group PLC(The)			Equity	314	9,118	0.001%
JNLJPMorgan Global Allocation Fund	Apple Inc.			Equity	11,420	2,660,860	0.258%
JNLJPMorgan Global Allocation Fund	Apple Inc.			Equity	42,190	9,830,270	0.955%
JNLJPMorgan Global Allocation Fund	Barrat Developments PLC			Equity	1,706	11,215	0.001%
JNLJPMorgan Global Allocation Fund	Home Depot, Inc., The			Equity	775	314,070	0.031%
JNLJPMorgan Global Allocation Fund	M&T Bank Corporation			Equity	1,913	340,744	0.033%
JNLJPMorgan Global Allocation Fund	Cisco Systems, Inc.			Equity	1,143	60,830	0.006%
JNLJPMorgan Global Allocation Fund	Copart, Inc.			Equity	6,211	325,456	0.032%
JNLJPMorgan Global Allocation Fund	Edgen Inc.			Equity	505	87,889	0.008%
JNLJPMorgan Global Allocation Fund	COC Resources, Inc.			Equity	3,665	450,538	0.044%
JNLJPMorgan Global Allocation Fund	Entergy Corporation			Equity	390	51,328	0.005%
JNLJPMorgan Global Allocation Fund	BioMarin Pharmaceutical Inc.			Equity	910	63,964	0.006%
JNLJPMorgan Global Allocation Fund	Moody's Corporation			Equity	860	408,147	0.040%
JNLJPMorgan Global Allocation Fund	CMS Energy Corporation			Equity	816	57,634	0.006%
JNLJPMorgan Global Allocation Fund	CMS Energy Corporation			Equity	9,201	649,867	0.063%
JNLJPMorgan Global Allocation Fund	Fifth Third Bancorp			Equity	7,000	302,470	0.029%
JNLJPMorgan Global Allocation Fund	Freemont-McMullan Inc.			Equity	3,180	158,746	0.015%
JNLJPMorgan Global Allocation Fund	Columbia Sportswear Company			Equity	582	57,434	0.005%
JNLJPMorgan Global Allocation Fund	Coterra Energy Inc.			Equity	2,287	54,774	0.005%
JNLJPMorgan Global Allocation Fund	Intel Corporation			Equity	2,390	56,069	0.005%
JNLJPMorgan Global Allocation Fund	Constellation Brands, Inc.			Equity	978	252,021	0.024%
JNLJPMorgan Global Allocation Fund	NVIDIA Corporation			Equity	27,449	2,333,159	0.229%
JNLJPMorgan Global Allocation Fund	NVIDIA Corporation			Equity	166,891	20,268,943	1.969%
JNLJPMorgan Global Allocation Fund	Intuit Inc.			Equity	897	557,037	0.054%
JNLJPMorgan Global Allocation Fund	PMC Corporation			Equity	1,849	122,995	0.012%
JNLJPMorgan Global Allocation Fund	General Dynamics Corporation			Equity	449	135,688	0.013%
JNLJPMorgan Global Allocation Fund	Credicorp Ltd.			Equity	2,270	417,705	0.041%
JNLJPMorgan Global Allocation Fund	McKesson Corporation			Equity	865	428,011	0.042%
JNLJPMorgan Global Allocation Fund	Salesforce, Inc.			Equity	685	187,623	0.018%
JNLJPMorgan Global Allocation Fund	Salesforce, Inc.			Equity	12,110	3,319,562	0.322%
JNLJPMorgan Global Allocation Fund	Eagle Materials Inc.			Equity	607	174,736	0.017%
JNLJPMorgan Global Allocation Fund	Gentex Corporation			Equity	2,883	85,596	0.008%
JNLJPMorgan Global Allocation Fund	WESCO International, Inc.			Equity	268	45,019	0.004%
JNLJPMorgan Global Allocation Fund	EQT Corporation			Equity	4,587	187,335	0.018%
JNLJPMorgan Global Allocation Fund	Banco Do Brasil SA			Equity	72,930	865,208	0.083%
JNLJPMorgan Global Allocation Fund	Humana Inc.			Equity	599	190,257	0.018%
JNLJPMorgan Global Allocation Fund	Fiserv, Inc.			Equity	1,557	279,715	0.027%
JNLJPMorgan Global Allocation Fund	Fiserv, Inc.			Equity	20,398	3,664,501	0.356%
JNLJPMorgan Global Allocation Fund	NextEra Energy, Inc.			Equity	2,795	236,261	0.023%
JNLJPMorgan Global Allocation Fund	NextEra Energy, Inc.			Equity	24,779	2,094,569	0.203%
JNLJPMorgan Global Allocation Fund	The Hershey Company			Equity	595	114,109	0.011%
JNLJPMorgan Global Allocation Fund	Exxon Mobil Corporation			Equity	4,327	507,211	0.049%
JNLJPMorgan Global Allocation Fund	Exxon Mobil Corporation			Equity	56,332	6,603,237	0.641%
JNLJPMorgan Global Allocation Fund	First Citizens BancShares, Inc.			Equity	151	277,983	0.027%
JNLJPMorgan Global Allocation Fund	Cardinal Health, Inc.			Equity	2,282	252,207	0.025%
JNLJPMorgan Global Allocation Fund	CSX Corporation			Equity	5,866	202,553	0.020%
JNLJPMorgan Global Allocation Fund	Grupo Financiero Banorte, S.A.B. de C.V.			Equity	42,201	900,588	0.089%
JNLJPMorgan Global Allocation Fund	Coca-Cola Company, The			Equity	43,028	3,113,249	0.302%
JNLJPMorgan Global Allocation Fund	Dover Corporation			Equity	769	147,448	0.014%
JNLJPMorgan Global Allocation Fund	Emerson Electric Co.			Equity	1,848	202,116	0.020%
JNLJPMorgan Global Allocation Fund	Carlisle Companies Incorporated			Equity	322	144,820	0.014%
JNLJPMorgan Global Allocation Fund	International Paper Company			Equity	2,910	142,154	0.014%
JNLJPMorgan Global Allocation Fund	Corning Incorporated			Equity	2,111	95,312	0.009%
JNLJPMorgan Global Allocation Fund	Citigroup Inc.			Equity	4,963	310,684	0.030%
JNLJPMorgan Global Allocation Fund	Henry Schein, Inc.			Equity	2,184	159,214	0.015%
JNLJPMorgan Global Allocation Fund	Morgan Stanley			Equity	1,048	109,244	0.011%
JNLJPMorgan Global Allocation Fund	Bank of America Corporation			Equity	16,406	650,990	0.063%
JNLJPMorgan Global Allocation Fund	Bank of America Corporation			Equity	108,598	4,309,169	0.419%
JNLJPMorgan Global Allocation Fund	Carroll Corporation			Equity	7,337	135,588	0.013%
JNLJPMorgan Global Allocation Fund	Neurocrine Biosciences, Inc.			Equity	226	26,040	0.003%
JNLJPMorgan Global Allocation Fund	Entegris, Inc.			Equity	2,374	267,146	0.026%
JNLJPMorgan Global Allocation Fund	Packaging Corporation of America			Equity	439	95,109	0.009%
JNLJPMorgan Global Allocation Fund	Ross Stores, Inc.			Equity	37,496	5,643,523	0.548%
JNLJPMorgan Global Allocation Fund	NISource Inc.			Equity	3,797	131,546	0.013%
JNLJPMorgan Global Allocation Fund	NISource Inc.			Equity	41,641	1,442,861	0.140%
JNLJPMorgan Global Allocation Fund	Masco Corporation			Equity	1,244	104,421	0.010%
JNLJPMorgan Global Allocation Fund	Mellie, Inc.			Equity	1,563	128,916	0.013%
JNLJPMorgan Global Allocation Fund	XCEL Energy Inc.			Equity	1,163	78,089	0.008%
JNLJPMorgan Global Allocation Fund	Pool Corporation			Equity	449	169,183	0.016%
JNLJPMorgan Global Allocation Fund	Alsea, S.A.B. de C.V.			Equity	45,454	125,120	0.012%
JNLJPMorgan Global Allocation Fund	Travelers Companies, Inc., The			Equity	945	221,243	0.021%
JNLJPMorgan Global Allocation Fund	Johnson & Johnson			Equity	967	156,112	0.015%
JNLJPMorgan Global Allocation Fund	Johnson & Johnson			Equity	44,525	7,215,722	0.701%
JNLJPMorgan Global Allocation Fund	Lam Research Corporation			Equity	377	308,529	0.030%
JNLJPMorgan Global Allocation Fund	Arch Capital Group Ltd			Equity	566	63,324	0.006%
JNLJPMorgan Global Allocation Fund	Merck & Co., Inc.			Equity	1,102	125,982	0.012%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	On Semiconductor Corporation			Equity	2,280	165,551	0.016%
JNLJPMorgan Global Allocation Fund	CVS Health Corporation			Equity	9,013	502,867	0.049%
JNLJPMorgan Global Allocation Fund	McDonald's Corporation			Equity	1,676	510,359	0.050%
JNLJPMorgan Global Allocation Fund	McDonald's Corporation			Equity	15,147	4,612,413	0.448%
JNLJPMorgan Global Allocation Fund	Public Service Enterprise Group Incorporated			Equity	930	82,965	0.008%
JNLJPMorgan Global Allocation Fund	Zimmer Biomet Holdings, Inc.			Equity	639	69,133	0.007%
JNLJPMorgan Global Allocation Fund	Oracle Corporation			Equity	3,517	599,297	0.058%
JNLJPMorgan Global Allocation Fund	Loews Corporation			Equity	2,977	235,332	0.023%
JNLJPMorgan Global Allocation Fund	MGIC Investment Corporation			Equity	8,000	204,800	0.020%
JNLJPMorgan Global Allocation Fund	United Parcel Service, Inc.			Equity	862	117,525	0.011%
JNLJPMorgan Global Allocation Fund	The PNC Financial Services Group, Inc.			Equity	940	298,759	0.029%
JNLJPMorgan Global Allocation Fund	Mohawk Industries, Inc.			Equity	1,863	299,347	0.029%
JNLJPMorgan Global Allocation Fund	Fidelity National Information Services, Inc.			Equity	1,501	125,709	0.012%
JNLJPMorgan Global Allocation Fund	Fidelity National Information Services, Inc.			Equity	40,422	3,465,343	0.329%
JNLJPMorgan Global Allocation Fund	Briarman Industries Ltd			Equity	3,388	115,748	0.011%
JNLJPMorgan Global Allocation Fund	B's Wholesale Club Holdings, Inc.			Equity	2,056	169,579	0.016%
JNLJPMorgan Global Allocation Fund	ConocoPhillips			Equity	2,217	233,406	0.023%
JNLJPMorgan Global Allocation Fund	Regeneron Pharmaceuticals, Inc.			Equity	742	780,020	0.076%
JNLJPMorgan Global Allocation Fund	Regeneron Pharmaceuticals, Inc.			Equity	1,896	1,593,151	0.154%
JNLJPMorgan Global Allocation Fund	Martin Marietta Materials, Inc.			Equity	207	111,418	0.011%
JNLJPMorgan Global Allocation Fund	Dominion Energy, Inc.			Equity	1,989	114,944	0.011%
JNLJPMorgan Global Allocation Fund	Dominion Energy, Inc.			Equity	37,398	2,161,230	0.210%
JNLJPMorgan Global Allocation Fund	EL Lilly and Company			Equity	1,254	1,110,969	0.108%
JNLJPMorgan Global Allocation Fund	Goldman Sachs Group, Inc., The			Equity	578	286,174	0.028%
JNLJPMorgan Global Allocation Fund	Procter & Gamble Company, The			Equity	971	168,177	0.016%
JNLJPMorgan Global Allocation Fund	Charles Schwab Corporation, The			Equity	1,574	102,011	0.010%
JNLJPMorgan Global Allocation Fund	Charles Schwab Corporation, The			Equity	29,218	1,828,808	0.178%
JNLJPMorgan Global Allocation Fund	Microchip Technology Incorporated			Equity	2,562	205,703	0.020%
JNLJPMorgan Global Allocation Fund	Microchip Technology Incorporated			Equity	26,189	2,102,715	0.204%
JNLJPMorgan Global Allocation Fund	Microsoft Corporation			Equity	7,909	3,403,243	0.331%
JNLJPMorgan Global Allocation Fund	Microsoft Corporation			Equity	54,436	23,403,811	2.278%
JNLJPMorgan Global Allocation Fund	Micron Technology, Inc.			Equity	1,157	124,141	0.012%
JNLJPMorgan Global Allocation Fund	Micron Technology, Inc.			Equity	23,802	2,468,505	0.240%
JNLJPMorgan Global Allocation Fund	3M Company			Equity	1,397	190,970	0.019%
JNLJPMorgan Global Allocation Fund	PG&E Corporation			Equity	6,171	122,062	0.012%
JNLJPMorgan Global Allocation Fund	Capital One Financial Corporation			Equity	1,995	298,711	0.029%
JNLJPMorgan Global Allocation Fund	Northern Trust Corporation			Equity	2,887	267,476	0.025%
JNLJPMorgan Global Allocation Fund	The Progressive Corporation			Equity	1,895	480,875	0.047%
JNLJPMorgan Global Allocation Fund	Exact Sciences Corporation			Equity	1,723	117,371	0.011%
JNLJPMorgan Global Allocation Fund	Regal Renard Corporation			Equity	693	115,128	0.011%
JNLJPMorgan Global Allocation Fund	Kingspan Group Public Limited Company			Equity	191	17,997	0.002%
JNLJPMorgan Global Allocation Fund	Verbund AG			Equity	84	6,952	0.001%
JNLJPMorgan Global Allocation Fund	Washington H. Soul Pattinson and Company Limited			Equity	304	7,332	0.001%
JNLJPMorgan Global Allocation Fund	Saturnus Siedin Biotech			Equity	35	3,529	0.000%
JNLJPMorgan Global Allocation Fund	Lowe's Companies, Inc.			Equity	1,180	319,603	0.031%
JNLJPMorgan Global Allocation Fund	Middleby Corporation, The			Equity	742	103,234	0.010%
JNLJPMorgan Global Allocation Fund	Northrop Grumman Corporation			Equity	79	41,718	0.004%
JNLJPMorgan Global Allocation Fund	Allianz SE			Equity	490	161,284	0.016%
JNLJPMorgan Global Allocation Fund	Telefonaktiebolaget LM Ericsson			Equity	3,272	24,707	0.002%
JNLJPMorgan Global Allocation Fund	Wells Fargo & Company			Equity	14,947	844,356	0.082%
JNLJPMorgan Global Allocation Fund	Wells Fargo & Company			Equity	44,306	2,502,846	0.243%
JNLJPMorgan Global Allocation Fund	Nature's Energy Group, S.A.			Equity	153	9,954	0.000%
JNLJPMorgan Global Allocation Fund	Bollare SE			Equity	934	6,225	0.001%
JNLJPMorgan Global Allocation Fund	Mediobanca Banca di Credito Finanziario Societa' Per Azioni			Equity	774	13,201	0.001%
JNLJPMorgan Global Allocation Fund	Huhtamaki Oyj			Equity	111	4,378	0.000%
JNLJPMorgan Global Allocation Fund	Telex Instruments Incorporated			Equity	814	168,148	0.016%
JNLJPMorgan Global Allocation Fund	Beisender Aktiengesellschaft			Equity	119	17,899	0.002%
JNLJPMorgan Global Allocation Fund	Swisscom AG			Equity	31	20,265	0.002%
JNLJPMorgan Global Allocation Fund	Hellenic Telecommunications Organization S.A.			Equity	9,405	161,936	0.016%
JNLJPMorgan Global Allocation Fund	Hana Luma Properties Limited			Equity	2,000	1,832	0.000%
JNLJPMorgan Global Allocation Fund	Telenor ASA			Equity	757	9,949	0.001%
JNLJPMorgan Global Allocation Fund	Bayer Aktiengesellschaft			Equity	1,146	38,693	0.004%
JNLJPMorgan Global Allocation Fund	Erste Group Bank AG			Equity	379	20,813	0.002%
JNLJPMorgan Global Allocation Fund	Infinion Technologies AG			Equity	1,569	55,113	0.005%
JNLJPMorgan Global Allocation Fund	U C B			Equity	151	27,128	0.003%
JNLJPMorgan Global Allocation Fund	Capgemini France			Equity	202	43,584	0.004%
JNLJPMorgan Global Allocation Fund	Asin Corporation			Equity	600	6,786	0.001%
JNLJPMorgan Global Allocation Fund	ANZ Group Holdings Limited			Equity	3,748	79,127	0.008%
JNLJPMorgan Global Allocation Fund	Sirona Erso Oyj			Equity	738	9,455	0.001%
JNLJPMorgan Global Allocation Fund	L'Oreal			Equity	303	135,647	0.013%
JNLJPMorgan Global Allocation Fund	Western Digital Corporation			Equity	3,209	219,143	0.021%
JNLJPMorgan Global Allocation Fund	Western Digital Corporation			Equity	32,272	2,203,855	0.214%
JNLJPMorgan Global Allocation Fund	Basildon PLC			Equity	19,611	55,944	0.005%
JNLJPMorgan Global Allocation Fund	State Street Corporation			Equity	1,894	167,562	0.016%
JNLJPMorgan Global Allocation Fund	Kerry Group Public Limited Company			Equity	192	19,908	0.002%
JNLJPMorgan Global Allocation Fund	Tetxon Inc.			Equity	1,033	91,503	0.009%
JNLJPMorgan Global Allocation Fund	Genmab A/S			Equity	81	19,664	0.002%
JNLJPMorgan Global Allocation Fund	Vertex Pharmaceuticals Incorporated			Equity	285	132,548	0.013%
JNLJPMorgan Global Allocation Fund	Asahi Group Holdings, Ltd.			Equity	1,800	23,577	0.002%
JNLJPMorgan Global Allocation Fund	Sanofi			Equity	15,412	1,773,423	0.172%
JNLJPMorgan Global Allocation Fund	HBC Group			Equity	11,475	912,910	0.089%
JNLJPMorgan Global Allocation Fund	Telia Company AB			Equity	2,809	9,087	0.001%
JNLJPMorgan Global Allocation Fund	BASF SE			Equity	1,116	59,214	0.006%
JNLJPMorgan Global Allocation Fund	Colruyt Group			Equity	51	2,451	0.000%
JNLJPMorgan Global Allocation Fund	BT Group PLC			Equity	7,877	15,615	0.002%
JNLJPMorgan Global Allocation Fund	Continental Aktiengesellschaft			Equity	132	8,540	0.001%
JNLJPMorgan Global Allocation Fund	Munchener Ruckversicherungs-Gesellschaft Aktiengesellschaft in Munchen			Equity	8,659	4,780,834	0.464%
JNLJPMorgan Global Allocation Fund	Skandinaviska Enskilda Banken AB			Equity	1,722	26,318	0.003%
JNLJPMorgan Global Allocation Fund	Intertek Group Plc			Equity	199	13,898	0.001%
JNLJPMorgan Global Allocation Fund	Banco Santander, S.A.			Equity	19,271	98,134	0.010%
JNLJPMorgan Global Allocation Fund	MERCK Kommanditgesellschaft auf Aktien			Equity	162	28,562	0.003%
JNLJPMorgan Global Allocation Fund	SAP SE			Equity	1,292	295,211	0.029%
JNLJPMorgan Global Allocation Fund	Henkel AG & Co. KGaA			Equity	117	9,953	0.001%
JNLJPMorgan Global Allocation Fund	Volters Klauer N.V.			Equity	293	49,296	0.005%
JNLJPMorgan Global Allocation Fund	Publicis Groupe SA			Equity	284	31,070	0.003%
JNLJPMorgan Global Allocation Fund	Siemens Aktiengesellschaft			Equity	885	179,188	0.017%
JNLJPMorgan Global Allocation Fund	Carrefour			Equity	670	11,427	0.001%
JNLJPMorgan Global Allocation Fund	Mercedes-Benz Group AG			Equity	989	64,075	0.006%
JNLJPMorgan Global Allocation Fund	Orange			Equity	2,197	25,187	0.002%
JNLJPMorgan Global Allocation Fund	Kering			Equity	88	25,187	0.002%
JNLJPMorgan Global Allocation Fund	OMV Aktiengesellschaft			Equity	171	7,319	0.001%
JNLJPMorgan Global Allocation Fund	Deutsche Telekom AG			Equity	27,246	800,580	0.078%
JNLJPMorgan Global Allocation Fund	ASICS Corporation			Equity	900	19,225	0.002%
JNLJPMorgan Global Allocation Fund	Union Pacific Corporation			Equity	508	125,212	0.012%
JNLJPMorgan Global Allocation Fund	Thermo Fisher Scientific Inc.			Equity	568	361,569	0.034%
JNLJPMorgan Global Allocation Fund	Wal-Mart Inc.			Equity	1,798	145,299	0.014%
JNLJPMorgan Global Allocation Fund	Zurich Insurance Group AG			Equity	180	105,566	0.011%
JNLJPMorgan Global Allocation Fund	Deutsche Bank Aktiengesellschaft			Equity	2,351	40,666	0.004%
JNLJPMorgan Global Allocation Fund	Chevron Corporation			Equity	4,438	653,584	0.063%
JNLJPMorgan Global Allocation Fund	Telefonica, S.A.			Equity	5,945	29,084	0.003%
JNLJPMorgan Global Allocation Fund	Thales			Equity	117	18,617	0.002%
JNLJPMorgan Global Allocation Fund	Koninklijke Philips N.V.			Equity	990	32,489	0.003%
JNLJPMorgan Global Allocation Fund	Assicurazioni Generali Societa' Per Azioni			Equity	1,257	36,337	0.004%
JNLJPMorgan Global Allocation Fund	Nexstar Media Group, Inc.			Equity	386	63,625	0.006%
JNLJPMorgan Global Allocation Fund	Hermes International			Equity	43	105,641	0.010%
JNLJPMorgan Global Allocation Fund	The Southern Company			Equity	91,296	8,233,073	0.800%
JNLJPMorgan Global Allocation Fund	E.ON SE			Equity	189,774	2,823,484	0.274%
JNLJPMorgan Global Allocation Fund	Nokia Oyj			Equity	6,500	26,342	0.003%
JNLJPMorgan Global Allocation Fund	Elisa Oyj			Equity	178	9,437	0.001%
JNLJPMorgan Global Allocation Fund	A.P. Moller - Maersk A/S			Equity	5	8,409	0.001%
JNLJPMorgan Global Allocation Fund	Cencora, Inc.			Equity	770	173,312	0.017%
JNLJPMorgan Global Allocation Fund	Realtek Semiconductor Corporation			Equity	19,000	292,483	0.028%
JNLJPMorgan Global Allocation Fund	UnitedHealth Group Incorporated			Equity	1,305	763,007	0.074%
JNLJPMorgan Global Allocation Fund	UnitedHealth Group Incorporated			Equity	17,187	10,048,895	0.979%
JNLJPMorgan Global Allocation Fund	Intuitive Surgical, Inc.			Equity	1,296	636,686	0.062%
JNLJPMorgan Global Allocation Fund	EDP, S.A.			Equity	3,508	16,018	0.002%
JNLJPMorgan Global Allocation Fund	IPM Kymene Oyj			Equity	66	22,350	0.002%
JNLJPMorgan Global Allocation Fund	A.P. Moller - Maersk A/S			Equity	3	4,865	0.000%
JNLJPMorgan Global Allocation Fund	Pernod Ricard			Equity	15,725	2,373,402	0.231%
JNLJPMorgan Global Allocation Fund	Silgan Holdings Inc.			Equity	2,851	149,678	0.015%
JNLJPMorgan Global Allocation Fund	Singapore Technologies Engineering Ltd			Equity	2,000	7,232	0.001%
JNLJPMorgan Global Allocation Fund	Itesa Sarapato SPA			Equity	19,865	85,103	0.008%
JNLJPMorgan Global Allocation Fund	Southwest Airlines Co.			Equity	3,146	93,216	0.009%
JNLJPMorgan Global Allocation Fund	STMicroelectronics N.V.			Equity	815	24,249	0.002%
JNLJPMorgan Global Allocation Fund	Heidelberg Materials AG			Equity	164	17,880	0.002%
JNLJPMorgan Global Allocation Fund	voestalpine AG			Equity	128	12,341	0.001%
JNLJPMorgan Global Allocation Fund	Varisla Oyj Abp			Equity	605	13,548	0.001%
JNLJPMorgan Global Allocation Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	365	32,262	0.003%
JNLJPMorgan Global Allocation Fund	Schneider Electric SE			Equity	674	177,682	0.017%
JNLJPMorgan Global Allocation Fund	Sala, Inc.			Equity	633	233,060	0.023%
JNLJPMorgan Global Allocation Fund	Starbucks Corporation			Equity	1,934	188,546	0.018%
JNLJPMorgan Global Allocation Fund	Edison International			Equity	876	76,291	0.007%
JNLJPMorgan Global Allocation Fund	ANA Holdings Inc.			Equity	200	4,276	0.000%
JNLJPMorgan Global Allocation Fund	Nest PLC			Equity	147	19,269	0.002%
JNLJPMorgan Global Allocation Fund	Fortum Oyj			Equity	539	8,886	0.001%
JNLJPMorgan Global Allocation Fund	Securitas AB			Equity	636	8,082	0.001%
JNLJPMorgan Global Allocation Fund	Synovus, Inc.			Equity	542	274,463	0.027%
JNLJPMorgan Global Allocation Fund	Bank Polska Kasa Opieki - Spolka Akcyjna			Equity	263	10,637	0.001%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Presenius SE & Co. KGaA			Equity	508	19,400	0.002%
JNLJPMorgan Global Allocation Fund	Sanco Bilbao Vizcaya Argentaria, S.A.			Equity	14,314	154,268	0.015%
JNLJPMorgan Global Allocation Fund	Williams Companies, Inc., The			Equity	3,582	163,518	0.016%
JNLJPMorgan Global Allocation Fund	Aza S.P.A.			Equity	1,868	4,320	0.000%
JNLJPMorgan Global Allocation Fund	KGHM Polska Miedz Spolka Akcyjna			Equity	170	7,035	0.001%
JNLJPMorgan Global Allocation Fund	The Timken Company			Equity	762	64,229	0.006%
JNLJPMorgan Global Allocation Fund	Deutsche Post AG			Equity	1,211	53,998	0.005%
JNLJPMorgan Global Allocation Fund	Endesa, S.A.			Equity	396	8,649	0.001%
JNLJPMorgan Global Allocation Fund	Carlsberg A/S			Equity	117	13,938	0.001%
JNLJPMorgan Global Allocation Fund	LVMH Moet Hennessy Louis Vuitton			Equity	14,831	11,369,063	1.104%
JNLJPMorgan Global Allocation Fund	Wendt SE			Equity	922	9,507	0.001%
JNLJPMorgan Global Allocation Fund	Sveabank AB			Equity	1,234	26,202	0.003%
JNLJPMorgan Global Allocation Fund	Dick's Sporting Goods, Inc.			Equity	294	61,681	0.006%
JNLJPMorgan Global Allocation Fund	RWE Aktiengesellschaft			Equity	845	30,170	0.003%
JNLJPMorgan Global Allocation Fund	Gwardian SA			Equity	11	60,263	0.006%
JNLJPMorgan Global Allocation Fund	Orlen S.A.			Equity	727	11,335	0.001%
JNLJPMorgan Global Allocation Fund	L E Lundbergförelägen Aktieförlag (publ)			Equity	91	5,212	0.001%
JNLJPMorgan Global Allocation Fund	SSAB AB			Equity	289	1,515	0.000%
JNLJPMorgan Global Allocation Fund	CME Group Inc			Equity	723	159,530	0.015%
JNLJPMorgan Global Allocation Fund	CME Group Inc			Equity	6,537	1,442,389	0.140%
JNLJPMorgan Global Allocation Fund	Burberry Group PLC			Equity	417	3,909	0.000%
JNLJPMorgan Global Allocation Fund	Danske Bank A/S			Equity	843	25,396	0.002%
JNLJPMorgan Global Allocation Fund	Carl's, Inc.			Equity	1,283	63,369	0.006%
JNLJPMorgan Global Allocation Fund	Hannover Ruck SE			Equity	77	22,008	0.002%
JNLJPMorgan Global Allocation Fund	Kingfisher PLC			Equity	2,324	10,027	0.001%
JNLJPMorgan Global Allocation Fund	Societe Generale			Equity	895	22,295	0.002%
JNLJPMorgan Global Allocation Fund	Tenadyne, Inc.			Equity	2,016	278,039	0.027%
JNLJPMorgan Global Allocation Fund	Bouygues			Equity	258	8,637	0.001%
JNLJPMorgan Global Allocation Fund	Netflix, Inc.			Equity	704	499,326	0.049%
JNLJPMorgan Global Allocation Fund	TJX Companies, Inc., The			Equity	4,128	485,205	0.047%
JNLJPMorgan Global Allocation Fund	Repsol SA			Equity	1,403	18,458	0.002%
JNLJPMorgan Global Allocation Fund	Chocoladefabriken Lindt & Sprungli AG			Equity	2	25,498	0.002%
JNLJPMorgan Global Allocation Fund	Veolia Environnement			Equity	777	25,538	0.002%
JNLJPMorgan Global Allocation Fund	Ajinomoto Co., Inc.			Equity	600	23,354	0.002%
JNLJPMorgan Global Allocation Fund	Asahi Kasei Corporation			Equity	1,600	12,278	0.001%
JNLJPMorgan Global Allocation Fund	Adidas AG			Equity	197	52,173	0.005%
JNLJPMorgan Global Allocation Fund	AGC Inc.			Equity	200	6,482	0.001%
JNLJPMorgan Global Allocation Fund	H & M Hennes & Mauritz AB			Equity	723	12,323	0.001%
JNLJPMorgan Global Allocation Fund	Ramsey Health Care Limited			Equity	221	6,374	0.001%
JNLJPMorgan Global Allocation Fund	Artiva SE			Equity	20,611	3,025,978	0.294%
JNLJPMorgan Global Allocation Fund	Deutsche Lufthansa Aktiengesellschaft			Equity	720	5,278	0.001%
JNLJPMorgan Global Allocation Fund	Koninklijke KPN N.V.			Equity	358,574	1,465,076	0.142%
JNLJPMorgan Global Allocation Fund	ITOCHU Corporation			Equity	11,300	615,976	0.060%
JNLJPMorgan Global Allocation Fund	ASX Limited			Equity	240	25,883	0.002%
JNLJPMorgan Global Allocation Fund	Kinnetu Group Holdings Co.,Ltd			Equity	300	7,503	0.001%
JNLJPMorgan Global Allocation Fund	Hang Seng Bank, Limited			Equity	800	9,962	0.001%
JNLJPMorgan Global Allocation Fund	Singapore Exchange Limited			Equity	900	7,975	0.001%
JNLJPMorgan Global Allocation Fund	Trend Micro Incorporated			Equity	200	11,953	0.001%
JNLJPMorgan Global Allocation Fund	Galaxy Entertainment Group Limited			Equity	3,000	15,006	0.001%
JNLJPMorgan Global Allocation Fund	Konami Holdings Corporation			Equity	100	10,215	0.001%
JNLJPMorgan Global Allocation Fund	Sumitomo Mitsui Trust Bank, Limited			Equity	900	21,776	0.002%
JNLJPMorgan Global Allocation Fund	Kajima Corporation			Equity	600	11,417	0.001%
JNLJPMorgan Global Allocation Fund	City Developments Limited			Equity	700	2,933	0.000%
JNLJPMorgan Global Allocation Fund	Honda Motor Co., Ltd.			Equity	6,000	65,242	0.006%
JNLJPMorgan Global Allocation Fund	Seko Epson Corporation.			Equity	400	7,481	0.001%
JNLJPMorgan Global Allocation Fund	Forrester Ltd			Equity	1,986	28,339	0.003%
JNLJPMorgan Global Allocation Fund	Rakuten Group, Inc.			Equity	1,900	12,258	0.001%
JNLJPMorgan Global Allocation Fund	Hong Kong And China Gas Company Limited -The-			Equity	11,995	9,798	0.001%
JNLJPMorgan Global Allocation Fund	Resona Holdings, Inc.			Equity	2,800	19,734	0.002%
JNLJPMorgan Global Allocation Fund	Eliot Systems Ltd.			Equity	34	6,458	0.001%
JNLJPMorgan Global Allocation Fund	DISCO Corporation			Equity	100	26,883	0.003%
JNLJPMorgan Global Allocation Fund	OBIC Co., Ltd.			Equity	500	17,688	0.002%
JNLJPMorgan Global Allocation Fund	The Chiba Bank, Ltd.			Equity	900	7,394	0.001%
JNLJPMorgan Global Allocation Fund	Kirin Holdings Company, Limited			Equity	1,000	15,226	0.001%
JNLJPMorgan Global Allocation Fund	Mitsubishi HC Capital Inc.			Equity	1,000	7,218	0.001%
JNLJPMorgan Global Allocation Fund	Insurance Australia Group Limited			Equity	2,983	15,232	0.001%
JNLJPMorgan Global Allocation Fund	Mitsubishi Motors Corporation			Equity	1,000	2,757	0.000%
JNLJPMorgan Global Allocation Fund	Ifosys Limited			Equity	22,777	510,643	0.050%
JNLJPMorgan Global Allocation Fund	S-Oil Corporation			Equity	2,457	115,453	0.011%
JNLJPMorgan Global Allocation Fund	Jardine Cycle & Carriage Limited			Equity	100	2,179	0.000%
JNLJPMorgan Global Allocation Fund	MISUMI Group Inc.			Equity	400	7,278	0.001%
JNLJPMorgan Global Allocation Fund	Kevence Corporation			Equity	1,400	670,727	0.065%
JNLJPMorgan Global Allocation Fund	SK Hynix Inc.			Equity	25,848	5,842,172	0.584%
JNLJPMorgan Global Allocation Fund	Mitsubishi Estate Co., Ltd.			Equity	1,600	25,476	0.002%
JNLJPMorgan Global Allocation Fund	BHP Group Limited			Equity	36,578	1,156,238	0.112%
JNLJPMorgan Global Allocation Fund	Mitsubishi Heavy Industries, Ltd.			Equity	6,328	204,791	0.020%
JNLJPMorgan Global Allocation Fund	Mitsubishi Electric Corporation			Equity	4,200	62,554	0.006%
JNLJPMorgan Global Allocation Fund	Mitsubishi Corporation			Equity	2,500	40,853	0.004%
JNLJPMorgan Global Allocation Fund	ICL Group Ltd			Equity	5,000	105,419	0.010%
JNLJPMorgan Global Allocation Fund	CIMB Group Holdings Berhad			Equity	867	3,696	0.000%
JNLJPMorgan Global Allocation Fund	Delta Electronics, Inc.			Equity	88,200	172,357	0.017%
JNLJPMorgan Global Allocation Fund	Mitsui Fudosan Co., Ltd.			Equity	77,600	734,386	0.071%
JNLJPMorgan Global Allocation Fund	Subaru Corporation.			Equity	700	12,580	0.001%
JNLJPMorgan Global Allocation Fund	Kolbe Manufacturing Co., Ltd.			Equity	300	4,193	0.000%
JNLJPMorgan Global Allocation Fund	Mitsui Chemicals, Inc.			Equity	200	5,740	0.001%
JNLJPMorgan Global Allocation Fund	Mitsubishi UFJ Financial Group Inc			Equity	90,100	933,699	0.091%
JNLJPMorgan Global Allocation Fund	Westpac Banking Corporation			Equity	4,334	95,210	0.009%
JNLJPMorgan Global Allocation Fund	Central Japan Railway Company			Equity	1,300	30,113	0.003%
JNLJPMorgan Global Allocation Fund	Japan Tobacco Inc.			Equity	1,400	40,788	0.004%
JNLJPMorgan Global Allocation Fund	The Kansai Electric Power Company, Incorporated			Equity	1,000	16,703	0.002%
JNLJPMorgan Global Allocation Fund	Panasonic Holdings Corporation			Equity	2,900	25,725	0.002%
JNLJPMorgan Global Allocation Fund	Otsuka Corporation			Equity	300	7,410	0.001%
JNLJPMorgan Global Allocation Fund	Hankyu Hanshin Holdings, Inc.			Equity	300	9,307	0.001%
JNLJPMorgan Global Allocation Fund	ABC-Mart, Inc.			Equity	200	4,264	0.000%
JNLJPMorgan Global Allocation Fund	Canon Inc.			Equity	1,200	39,160	0.004%
JNLJPMorgan Global Allocation Fund	Jardine Matheson Holdings Limited			Equity	200	7,920	0.001%
JNLJPMorgan Global Allocation Fund	Mizuho Bank, Ltd.			Equity	300	9,224	0.001%
JNLJPMorgan Global Allocation Fund	DBS Group Holdings Ltd			Equity	89,250	2,647,693	0.257%
JNLJPMorgan Global Allocation Fund	Clicks Group			Equity	12,053	276,791	0.027%
JNLJPMorgan Global Allocation Fund	MTR Corporation Limited			Equity	2,000	7,490	0.001%
JNLJPMorgan Global Allocation Fund	Hoya Corporation			Equity	4,400	899,166	0.089%
JNLJPMorgan Global Allocation Fund	Komatsu Ltd.			Equity	1,200	34,120	0.003%
JNLJPMorgan Global Allocation Fund	Bridgestone Corporation			Equity	700	26,887	0.003%
JNLJPMorgan Global Allocation Fund	Suncorp Group Limited			Equity	1,586	19,914	0.002%
JNLJPMorgan Global Allocation Fund	Chubu Electric Power Co., Ltd.			Equity	1,000	11,914	0.001%
JNLJPMorgan Global Allocation Fund	Dai Nippon Printing Co., Ltd.			Equity	600	10,782	0.001%
JNLJPMorgan Global Allocation Fund	Fast Retailing Co., Ltd.			Equity	200	66,546	0.006%
JNLJPMorgan Global Allocation Fund	Kao Corporation			Equity	600	29,700	0.003%
JNLJPMorgan Global Allocation Fund	CLP Holdings Limited			Equity	2,500	21,953	0.002%
JNLJPMorgan Global Allocation Fund	Niterra Co., Ltd.			Equity	200	5,740	0.001%
JNLJPMorgan Global Allocation Fund	Kurita Water Industries Ltd.			Equity	100	4,340	0.000%
JNLJPMorgan Global Allocation Fund	Daikin Industries, Ltd.			Equity	400	56,008	0.005%
JNLJPMorgan Global Allocation Fund	Square Enix Holdings Co., Ltd.			Equity	100	3,988	0.000%
JNLJPMorgan Global Allocation Fund	Mahindra and Mahindra Limited			Equity	8,218	304,844	0.030%
JNLJPMorgan Global Allocation Fund	Isuzu Motors Limited			Equity	700	9,736	0.001%
JNLJPMorgan Global Allocation Fund	BlueScope Steel Limited			Equity	553	8,589	0.001%
JNLJPMorgan Global Allocation Fund	Murata Manufacturing Co., Ltd.			Equity	2,400	47,598	0.005%
JNLJPMorgan Global Allocation Fund	Daito Trust Construction Co., Ltd.			Equity	100	12,341	0.001%
JNLJPMorgan Global Allocation Fund	Kawasaki Heavy Industries, Ltd.			Equity	200	8,284	0.001%
JNLJPMorgan Global Allocation Fund	Samsung Fire & Marine Insurance Co., Ltd.			Equity	773	205,390	0.020%
JNLJPMorgan Global Allocation Fund	Daiikoku Co., Ltd.			Equity	500	9,723	0.001%
JNLJPMorgan Global Allocation Fund	REA Group Ltd			Equity	600	9,788	0.001%
JNLJPMorgan Global Allocation Fund	Chugai Pharmaceutical Co., Ltd.			Equity	800	39,040	0.004%
JNLJPMorgan Global Allocation Fund	Quanta Computer Inc.			Equity	43,000	359,327	0.035%
JNLJPMorgan Global Allocation Fund	Yuanta Financial Holding Co., Ltd			Equity	154,020	153,165	0.015%
JNLJPMorgan Global Allocation Fund	Eisai Co., Ltd.			Equity	300	11,333	0.001%
JNLJPMorgan Global Allocation Fund	Fubai Limited			Equity	2,100	43,262	0.004%
JNLJPMorgan Global Allocation Fund	Dawa House Industry Co.,Ltd			Equity	800	25,467	0.002%
JNLJPMorgan Global Allocation Fund	KYOCERA Corporation			Equity	1,800	21,284	0.002%
JNLJPMorgan Global Allocation Fund	Computershare Limited			Equity	700	12,309	0.001%
JNLJPMorgan Global Allocation Fund	Kokomori Corporation			Equity	1,200	15,243	0.001%
JNLJPMorgan Global Allocation Fund	Mitsui O.S.K. Lines, Ltd.			Equity	400	14,302	0.001%
JNLJPMorgan Global Allocation Fund	KIA Corporation			Equity	11,872	908,092	0.088%
JNLJPMorgan Global Allocation Fund	Hitachi, Ltd.			Equity	41,600	1,063,973	0.105%
JNLJPMorgan Global Allocation Fund	Marubeni Corporation			Equity	2,100	35,244	0.003%
JNLJPMorgan Global Allocation Fund	Brother Industries, Ltd.			Equity	400	7,947	0.001%
JNLJPMorgan Global Allocation Fund	Makita Corporation			Equity	300	10,181	0.001%
JNLJPMorgan Global Allocation Fund	LG Chem, Ltd.			Equity	1,022	280,601	0.027%
JNLJPMorgan Global Allocation Fund	Credit Bank Holdings			Equity	841	147,660	0.014%
JNLJPMorgan Global Allocation Fund	AEON Co., Ltd.			Equity	1,100	29,995	0.003%
JNLJPMorgan Global Allocation Fund	Orica Limited			Equity	603	7,744	0.001%
JNLJPMorgan Global Allocation Fund	Power Assets Holdings Limited			Equity	1,500	9,581	0.001%
JNLJPMorgan Global Allocation Fund	BYD Company Limited			Equity	3,000	3,000	0.000%
JNLJPMorgan Global Allocation Fund	Commonwealth Bank of Australia			Equity	2,091	195,930	0.019%
JNLJPMorgan Global Allocation Fund	Hitachi Construction Machinery Co., Ltd.			Equity	100	2,486	0.000%
JNLJPMorgan Global Allocation Fund	Wharf (Holdings) Limited, The			Equity	1,000	2,844	0.000%
JNLJPMorgan Global Allocation Fund	Bank Leumi Le-Israel B.M.			Equity	1,861	18,431	0.002%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	JFE Holdings, Inc.			Equity	700	9,631	0.001%
JNLJPMorgan Global Allocation Fund	Rio Tinto Limited			Equity	464	41,361	0.004%
JNLJPMorgan Global Allocation Fund	CSL Limited			Equity	604	120,744	0.012%
JNLJPMorgan Global Allocation Fund	Cochlear Limited			Equity	77	15,159	0.001%
JNLJPMorgan Global Allocation Fund	Fuji Electric Co. Ltd.			Equity	200	12,150	0.001%
JNLJPMorgan Global Allocation Fund	Mizuho Financial Group, Inc.			Equity	3,210	67,566	0.007%
JNLJPMorgan Global Allocation Fund	Reliance Industries Limited			Equity	18,576	655,136	0.064%
JNLJPMorgan Global Allocation Fund	NTT DATA Corporation			Equity	800	14,471	0.001%
JNLJPMorgan Global Allocation Fund	Australian Pipeline Trust			Equity	1,585	8,512	0.001%
JNLJPMorgan Global Allocation Fund	Kotak Mahindra Bank Limited			Equity	18,421	408,268	0.040%
JNLJPMorgan Global Allocation Fund	SBI Holdings, Inc.			Equity	300	6,996	0.001%
JNLJPMorgan Global Allocation Fund	East Japan Railway Company			Equity	1,300	26,020	0.003%
JNLJPMorgan Global Allocation Fund	KDDI Corporation			Equity	1,900	61,728	0.006%
JNLJPMorgan Global Allocation Fund	Telstra Corporation Limited			Equity	4,993	13,410	0.001%
JNLJPMorgan Global Allocation Fund	Pan Pacific International Holdings Corporation			Equity	700	18,366	0.002%
JNLJPMorgan Global Allocation Fund	SK Telecom Co., Ltd.			Equity	3,426	146,293	0.014%
JNLJPMorgan Global Allocation Fund	FANUC Corporation			Equity	1,100	32,232	0.003%
JNLJPMorgan Global Allocation Fund	Kubota Corporation			Equity	1,400	19,943	0.002%
JNLJPMorgan Global Allocation Fund	Hyundai Motor Company			Equity	1,250	234,314	0.023%
JNLJPMorgan Global Allocation Fund	Daiwa Securities Group Inc.			Equity	1,700	12,224	0.001%
JNLJPMorgan Global Allocation Fund	Fisher & Paykel Healthcare Corporation Limited			Equity	673	14,821	0.001%
JNLJPMorgan Global Allocation Fund	Israel Discount Bank Limited			Equity	1,527	8,535	0.001%
JNLJPMorgan Global Allocation Fund	Kyowa Xirin Co. Ltd.			Equity	300	5,278	0.001%
JNLJPMorgan Global Allocation Fund	Mitsui & Co., Ltd.			Equity	3,700	83,537	0.008%
JNLJPMorgan Global Allocation Fund	Origin Energy Limited			Equity	2,128	14,801	0.001%
JNLJPMorgan Global Allocation Fund	Keisei Electric Railway Co., Ltd.			Equity	200	5,959	0.001%
JNLJPMorgan Global Allocation Fund	Tokai Marine Holdings, Inc.			Equity	70,400	2,840,494	0.284%
JNLJPMorgan Global Allocation Fund	LY Corporation			Equity	3,400	9,942	0.001%
JNLJPMorgan Global Allocation Fund	Transurban Holdings Limited			Equity	3,858	35,105	0.003%
JNLJPMorgan Global Allocation Fund	FUJIFILM Holdings Corporation			Equity	1,600	41,564	0.004%
JNLJPMorgan Global Allocation Fund	McDonald's Holdings Company (Japan), Ltd.			Equity	1,000	4,796	0.000%
JNLJPMorgan Global Allocation Fund	Bank Hapoalim Ltd.			Equity	1,589	15,880	0.002%
JNLJPMorgan Global Allocation Fund	NGK Insulators, Ltd.			Equity	300	3,997	0.000%
JNLJPMorgan Global Allocation Fund	Sogit Corporation			Equity	240	5,787	0.001%
JNLJPMorgan Global Allocation Fund	Henderson Land Development Company Limited			Equity	2,000	6,334	0.001%
JNLJPMorgan Global Allocation Fund	Nomura Holdings, Inc.			Equity	3,700	22,494	0.002%
JNLJPMorgan Global Allocation Fund	Hamamatsu Photonics K.K.			Equity	400	5,294	0.001%
JNLJPMorgan Global Allocation Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	4,800	104,202	0.010%
JNLJPMorgan Global Allocation Fund	Hong Kong Exchanges and Clearing Limited			Equity	68,100	2,798,006	0.272%
JNLJPMorgan Global Allocation Fund	Capgem Co., Ltd.			Equity	400	9,368	0.001%
JNLJPMorgan Global Allocation Fund	Nomura Research Institute, Ltd.			Equity	500	18,555	0.002%
JNLJPMorgan Global Allocation Fund	Aristocrat Leisure Limited			Equity	786	31,950	0.003%
JNLJPMorgan Global Allocation Fund	China Resources Gas Group Limited			Equity	55,200	222,555	0.022%
JNLJPMorgan Global Allocation Fund	Westlimes Limited			Equity	1,417	70,208	0.007%
JNLJPMorgan Global Allocation Fund	Cemirca PLC			Equity	6,542	10,221	0.001%
JNLJPMorgan Global Allocation Fund	West Japan Railway Company			Equity	600	11,537	0.001%
JNLJPMorgan Global Allocation Fund	Nippon Paint Holdings Co., Ltd.			Equity	1,300	9,905	0.001%
JNLJPMorgan Global Allocation Fund	Safina			Equity	20,295	47,739	0.004%
JNLJPMorgan Global Allocation Fund	Anylam Pharmaceuticals, Inc.			Equity	744	204,622	0.020%
JNLJPMorgan Global Allocation Fund	Terumo Corporation			Equity	42,300	803,038	0.078%
JNLJPMorgan Global Allocation Fund	Northern Star Resources Ltd			Equity	1,435	15,789	0.002%
JNLJPMorgan Global Allocation Fund	Minebeamsums Inc.			Equity	500	9,340	0.001%
JNLJPMorgan Global Allocation Fund	Nec Corporation			Equity	300	28,955	0.003%
JNLJPMorgan Global Allocation Fund	Mazda Motor Corporation			Equity	900	7,004	0.001%
JNLJPMorgan Global Allocation Fund	ABB Ltd			Equity	1,990	115,464	0.011%
JNLJPMorgan Global Allocation Fund	Yamato Holdings Co., Ltd.			Equity	400	4,617	0.000%
JNLJPMorgan Global Allocation Fund	GENSCO Corporation			Equity	2,800	42,638	0.004%
JNLJPMorgan Global Allocation Fund	Nippon Steel Corporation			Equity	1,200	27,433	0.003%
JNLJPMorgan Global Allocation Fund	Zijin Mining Group Co., Ltd.			Equity	108,000	241,452	0.023%
JNLJPMorgan Global Allocation Fund	Tokyo Gas Co. Ltd.			Equity	500	11,742	0.001%
JNLJPMorgan Global Allocation Fund	Nippon Yusen Kaisha Kaisha			Equity	600	12,926	0.001%
JNLJPMorgan Global Allocation Fund	Olympus Corporation			Equity	1,500	28,548	0.003%
JNLJPMorgan Global Allocation Fund	Tokyo Electron Limited			Equity	600	107,612	0.010%
JNLJPMorgan Global Allocation Fund	Takeda Pharmaceutical Co. Ltd.			Equity	1,900	55,738	0.005%
JNLJPMorgan Global Allocation Fund	Oro Pharmaceutical Co., Ltd.			Equity	500	9,340	0.001%
JNLJPMorgan Global Allocation Fund	Nestle S.A.			Equity	71,563	7,184,915	0.698%
JNLJPMorgan Global Allocation Fund	Nissan Chemical Corporation			Equity	1,000	3,626	0.000%
JNLJPMorgan Global Allocation Fund	Nider Corporation			Equity	1,200	25,400	0.002%
JNLJPMorgan Global Allocation Fund	Powzechna Kasa Oszczednosci Bank Polski Spolka Akcyjna			Equity	1,071	15,596	0.001%
JNLJPMorgan Global Allocation Fund	Shriram Finance Limited			Equity	6,485	277,977	0.027%
JNLJPMorgan Global Allocation Fund	Tokyu Corporation			Equity	700	9,089	0.001%
JNLJPMorgan Global Allocation Fund	Nippon Telegraph and Telephone Corporation			Equity	34,700	36,103	0.004%
JNLJPMorgan Global Allocation Fund	Neto Denro Corporation			Equity	1,000	17,799	0.001%
JNLJPMorgan Global Allocation Fund	Shimano Inc.			Equity	100	18,887	0.002%
JNLJPMorgan Global Allocation Fund	Unicharm Corporation			Equity	400	14,447	0.001%
JNLJPMorgan Global Allocation Fund	Nissan Motor Co., Ltd.			Equity	2,800	8,015	0.001%
JNLJPMorgan Global Allocation Fund	Terna - Rete Elettrica Nazionale Societa Per Azioni			Equity	1,756	13,682	0.002%
JNLJPMorgan Global Allocation Fund	Osaka Gas Co., Ltd.			Equity	500	11,414	0.001%
JNLJPMorgan Global Allocation Fund	Sony Group Corporation			Equity	72,000	1,405,325	0.137%
JNLJPMorgan Global Allocation Fund	Admiral Group PLC			Equity	290	11,086	0.001%
JNLJPMorgan Global Allocation Fund	Odakyu Electric Railway Co., Ltd.			Equity	400	4,499	0.000%
JNLJPMorgan Global Allocation Fund	Aseltas Pharma Inc.			Equity	2,300	26,636	0.003%
JNLJPMorgan Global Allocation Fund	SMC Corporation			Equity	100	44,778	0.004%
JNLJPMorgan Global Allocation Fund	Toray Industries, Inc.			Equity	2,000	11,895	0.001%
JNLJPMorgan Global Allocation Fund	SoftBank Group Corp			Equity	1,200	71,036	0.007%
JNLJPMorgan Global Allocation Fund	TOPPAN Holdings Inc.			Equity	400	11,916	0.001%
JNLJPMorgan Global Allocation Fund	Telecom Italia S.p.A.			Equity	12,115	3,372	0.000%
JNLJPMorgan Global Allocation Fund	Woodwards Group Limited			Equity	1,442	33,259	0.003%
JNLJPMorgan Global Allocation Fund	OMRON Corporation			Equity	300	13,823	0.001%
JNLJPMorgan Global Allocation Fund	Regions Financial Corporation			Equity	5,857	138,877	0.013%
JNLJPMorgan Global Allocation Fund	Equinor ASA			Equity	939	23,761	0.002%
JNLJPMorgan Global Allocation Fund	Ricoh Company, Ltd.			Equity	800	8,722	0.001%
JNLJPMorgan Global Allocation Fund	EMS-Chemie Holding AG			Equity	10	8,398	0.001%
JNLJPMorgan Global Allocation Fund	Yakult Honsha Co., Ltd.			Equity	400	9,332	0.001%
JNLJPMorgan Global Allocation Fund	OTP Bank Nyrt.			Equity	4,920	257,111	0.025%
JNLJPMorgan Global Allocation Fund	PT. Bank Central Asia Tbk			Equity	2,044,800	1,394,351	0.135%
JNLJPMorgan Global Allocation Fund	Ping An Insurance (Group) Company of China, Ltd.			Equity	73,000	460,427	0.045%
JNLJPMorgan Global Allocation Fund	ACS, Actividades de Construccion y Servicios, S.A.			Equity	250	11,799	0.001%
JNLJPMorgan Global Allocation Fund	Santos Limited			Equity	3,846	18,726	0.002%
JNLJPMorgan Global Allocation Fund	Skanska AB			Equity	392	8,172	0.001%
JNLJPMorgan Global Allocation Fund	Texas Roadhouse, Inc.			Equity	239	42,207	0.004%
JNLJPMorgan Global Allocation Fund	Tosoh Corporation			Equity	400	5,458	0.001%
JNLJPMorgan Global Allocation Fund	Singapore Telecommunications Limited			Equity	108,800	273,177	0.027%
JNLJPMorgan Global Allocation Fund	Obayashi Corporation			Equity	800	10,344	0.001%
JNLJPMorgan Global Allocation Fund	TOTO Ltd.			Equity	200	7,468	0.001%
JNLJPMorgan Global Allocation Fund	Yokogawa Electric Corporation			Equity	400	10,298	0.001%
JNLJPMorgan Global Allocation Fund	Telecom Italia S.p.A.			Equity	7,240	2,305	0.000%
JNLJPMorgan Global Allocation Fund	Yamaha Motor Co., Ltd.			Equity	1,200	10,771	0.001%
JNLJPMorgan Global Allocation Fund	M3, Inc.			Equity	600	6,009	0.001%
JNLJPMorgan Global Allocation Fund	Nice Ltd.			Equity	78	13,600	0.001%
JNLJPMorgan Global Allocation Fund	Tokyo Century Corporation			Equity	200	2,295	0.000%
JNLJPMorgan Global Allocation Fund	Snam S.P.A.			Equity	2,680	13,648	0.001%
JNLJPMorgan Global Allocation Fund	Spark New Zealand Limited			Equity	2,188	4,446	0.000%
JNLJPMorgan Global Allocation Fund	Shimadzu Corporation			Equity	400	13,382	0.001%
JNLJPMorgan Global Allocation Fund	Toyota Motor Corporation			Equity	14,800	267,850	0.026%
JNLJPMorgan Global Allocation Fund	Singapore Airlines Limited			Equity	1,450	7,684	0.001%
JNLJPMorgan Global Allocation Fund	Toyota Tsusho Corporation			Equity	900	16,567	0.002%
JNLJPMorgan Global Allocation Fund	Tokyo Electric Power Company Holdings, Inc.			Equity	1,000	4,445	0.000%
JNLJPMorgan Global Allocation Fund	Lenz Group AG			Equity	89	56,392	0.005%
JNLJPMorgan Global Allocation Fund	Swiss Life Holding AG			Equity	37	30,929	0.003%
JNLJPMorgan Global Allocation Fund	Renesas Electronics Corporation			Equity	1,800	26,226	0.003%
JNLJPMorgan Global Allocation Fund	Sino Land Company Limited			Equity	4,000	4,378	0.000%
JNLJPMorgan Global Allocation Fund	National Australia Bank Limited			Equity	3,865	99,951	0.010%
JNLJPMorgan Global Allocation Fund	The Swatch Group AG			Equity	36	7,701	0.001%
JNLJPMorgan Global Allocation Fund	Sumitomo Corporation			Equity	1,500	34,293	0.003%
JNLJPMorgan Global Allocation Fund	United Overseas Bank Limited			Equity	1,600	39,976	0.004%
JNLJPMorgan Global Allocation Fund	Secom Co., Ltd.			Equity	1,200	22,336	0.002%
JNLJPMorgan Global Allocation Fund	Samsung Electronics Co., Ltd.			Equity	67,163	3,161,391	0.307%
JNLJPMorgan Global Allocation Fund	Hulic Co., Ltd.			Equity	600	6,113	0.001%
JNLJPMorgan Global Allocation Fund	Toyota Suisan Kaisha, Ltd.			Equity	100	6,614	0.001%
JNLJPMorgan Global Allocation Fund	Heineken N.V.			Equity	46,264	4,103,780	0.399%
JNLJPMorgan Global Allocation Fund	Shimizu Corporation			Equity	700	4,857	0.000%
JNLJPMorgan Global Allocation Fund	Shionogi & Co., Ltd.			Equity	1,200	17,416	0.002%
JNLJPMorgan Global Allocation Fund	AXA			Equity	2,203	85,016	0.008%
JNLJPMorgan Global Allocation Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	262,000	7,981,978	0.779%
JNLJPMorgan Global Allocation Fund	Shin-Etsu Chemical Co., Ltd.			Equity	131,700	5,560,148	0.540%
JNLJPMorgan Global Allocation Fund	PT. Bank Rakyat Indonesia (Persero) Tbk.			Equity	1,270,721	415,928	0.040%
JNLJPMorgan Global Allocation Fund	Sumitomo Electric Industries, Ltd.			Equity	1,000	16,422	0.002%
JNLJPMorgan Global Allocation Fund	The Swatch Group AG			Equity	107	4,584	0.000%
JNLJPMorgan Global Allocation Fund	Oriental Land Co., Ltd.			Equity	1,400	36,157	0.004%
JNLJPMorgan Global Allocation Fund	Holcim AG			Equity	594	58,077	0.006%
JNLJPMorgan Global Allocation Fund	Shiseido Company, Limited			Equity	500	13,509	0.001%
JNLJPMorgan Global Allocation Fund	Yara International ASA			Equity	197	6,244	0.001%
JNLJPMorgan Global Allocation Fund	Nippon Sanso Holdings Corporation			Equity	300	10,747	0.001%
JNLJPMorgan Global Allocation Fund	LPP Spolka Akcyjna			Equity	1	4,114	0.000%
JNLJPMorgan Global Allocation Fund	Thai Oil Public Company Limited			Equity	170,776	272,967	0.027%
JNLJPMorgan Global Allocation Fund	Deutsche Borse Aktiengesellschaft			Equity	9,174	2,155,766	0.209%
JNLJPMorgan Global Allocation Fund	Swire Pacific Limited			Equity	500	4,344	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Intact Financial Corporation			Equity	5,303	1,018,292	0.099%
JNLJPMorgan Global Allocation Fund	Techtronic Industries Company Limited			Equity	20,500	38,061	0.036%
JNLJPMorgan Global Allocation Fund	Sumitomo Realty & Development Co., Ltd.			Equity	600	20,301	0.002%
JNLJPMorgan Global Allocation Fund	Societe d'exploitation Hoteliere			Equity	100	8,185	0.001%
JNLJPMorgan Global Allocation Fund	UltraTech Cement Limited			Equity	1,867	263,910	0.026%
JNLJPMorgan Global Allocation Fund	Tingyi (Cayman Islands) Holding Corp.			Equity	92,000	132,085	0.013%
JNLJPMorgan Global Allocation Fund	Sekisui Chemical Co., Ltd.			Equity	300	4,747	0.000%
JNLJPMorgan Global Allocation Fund	Sun Hung Kai Properties Limited			Equity	2,500	27,182	0.003%
JNLJPMorgan Global Allocation Fund	Shoptrie Holdings			Equity	17,177	294,448	0.029%
JNLJPMorgan Global Allocation Fund	Nissan Food Holdings Co., Ltd.			Equity	300	8,458	0.001%
JNLJPMorgan Global Allocation Fund	J Sainsbury PLC			Equity	2,036	8,056	0.001%
JNLJPMorgan Global Allocation Fund	T&D Holdings, Inc.			Equity	700	12,445	0.001%
JNLJPMorgan Global Allocation Fund	Roche Holding AG			Equity	862	274,601	0.027%
JNLJPMorgan Global Allocation Fund	Erel S.p.A.			Equity	9,662	17,251	0.008%
JNLJPMorgan Global Allocation Fund	Synerex Corporation			Equity	800	5,963	0.001%
JNLJPMorgan Global Allocation Fund	Toyota Industries Corporation			Equity	200	15,611	0.002%
JNLJPMorgan Global Allocation Fund	Sekisui House, Ltd.			Equity	700	19,457	0.002%
JNLJPMorgan Global Allocation Fund	Sonova Holding AG			Equity	62	22,315	0.002%
JNLJPMorgan Global Allocation Fund	Maruti Suzuki India Limited			Equity	2,148	380,208	0.033%
JNLJPMorgan Global Allocation Fund	EssilorLuxottica			Equity	360	65,089	0.008%
JNLJPMorgan Global Allocation Fund	Credit Agricole SA			Equity	1,527	23,385	0.002%
JNLJPMorgan Global Allocation Fund	BNP Paribas			Equity	1,295	88,722	0.009%
JNLJPMorgan Global Allocation Fund	Mowl ASA			Equity	547	9,845	0.001%
JNLJPMorgan Global Allocation Fund	Nitol Holdings Co., Ltd.			Equity	100	14,903	0.001%
JNLJPMorgan Global Allocation Fund	ORIX Corporation			Equity	1,400	33,004	0.003%
JNLJPMorgan Global Allocation Fund	Japan Exchange Group, Inc.			Equity	72,700	950,082	0.092%
JNLJPMorgan Global Allocation Fund	Mizuho Teikoku Bank Ltd			Equity	189	7,291	0.001%
JNLJPMorgan Global Allocation Fund	Yaskawa Electric Corporation			Equity	300	10,566	0.001%
JNLJPMorgan Global Allocation Fund	Dominio's Pizzeria, Inc.			Equity	460	197,864	0.019%
JNLJPMorgan Global Allocation Fund	QBE Insurance Group Limited			Equity	1,867	21,432	0.002%
JNLJPMorgan Global Allocation Fund	Groupe Bruxelles Lambert - Groep Brussel Lambert			Equity	103	8,029	0.001%
JNLJPMorgan Global Allocation Fund	Alfa Laval AB			Equity	357	17,157	0.002%
JNLJPMorgan Global Allocation Fund	Compagnie De Saint-Gobain			Equity	566	51,501	0.005%
JNLJPMorgan Global Allocation Fund	Toho Co., Ltd.			Equity	100	4,075	0.000%
JNLJPMorgan Global Allocation Fund	PCCC Property and Casualty Company Limited			Equity	108,000	159,855	0.016%
JNLJPMorgan Global Allocation Fund	Qantas Airways Limited			Equity	1,016	5,238	0.001%
JNLJPMorgan Global Allocation Fund	Taisei Corporation			Equity	200	8,833	0.001%
JNLJPMorgan Global Allocation Fund	ROHM Co., Ltd.			Equity	400	4,567	0.000%
JNLJPMorgan Global Allocation Fund	Sonic Healthcare Limited			Equity	574	10,844	0.001%
JNLJPMorgan Global Allocation Fund	TOBU Railway Co., LTD.			Equity	300	9,076	0.001%
JNLJPMorgan Global Allocation Fund	Suzuki Motor Corporation			Equity	2,400	26,950	0.003%
JNLJPMorgan Global Allocation Fund	TDK Corporation			Equity	2,500	32,383	0.003%
JNLJPMorgan Global Allocation Fund	Geltinge AB			Equity	271	5,845	0.001%
JNLJPMorgan Global Allocation Fund	Biscox Limited			Equity	41,601	181,052	0.018%
JNLJPMorgan Global Allocation Fund	Expian PLC			Equity	1,147	60,448	0.006%
JNLJPMorgan Global Allocation Fund	Heineken Holding N.V.			Equity	162	12,241	0.001%
JNLJPMorgan Global Allocation Fund	Aspen Pharmacare Holdings Limited			Equity	9,655	108,942	0.011%
JNLJPMorgan Global Allocation Fund	Novartis AG			Equity	2,418	278,728	0.027%
JNLJPMorgan Global Allocation Fund	PT Bank Mandiri (Persero) Tbk.			Equity	580,100	265,506	0.026%
JNLJPMorgan Global Allocation Fund	Sumitomo Metal Mining Co., Ltd.			Equity	300	9,060	0.001%
JNLJPMorgan Global Allocation Fund	Santander Bank Polska Spółka Akcyjna			Equity	41	4,839	0.000%
JNLJPMorgan Global Allocation Fund	Eis S.P.A.			Equity	2,580	39,223	0.004%
JNLJPMorgan Global Allocation Fund	Nintendo Co., Ltd.			Equity	1,300	69,698	0.007%
JNLJPMorgan Global Allocation Fund	Severn Trent PLC			Equity	327	11,555	0.001%
JNLJPMorgan Global Allocation Fund	Danone			Equity	802	58,384	0.006%
JNLJPMorgan Global Allocation Fund	Hagerweerts Lansdown PLC			Equity	441	6,590	0.001%
JNLJPMorgan Global Allocation Fund	Aktiebolaget SKF			Equity	450	8,965	0.001%
JNLJPMorgan Global Allocation Fund	Nomura Real Estate Holdings, Inc.			Equity	100	2,750	0.000%
JNLJPMorgan Global Allocation Fund	Seven & I Holdings Co., Ltd.			Equity	3,000	45,682	0.004%
JNLJPMorgan Global Allocation Fund	Keppel Ltd.			Equity	1,800	9,251	0.001%
JNLJPMorgan Global Allocation Fund	ZOZO, Inc.			Equity	200	7,337	0.001%
JNLJPMorgan Global Allocation Fund	Delta Air Lines, Inc.			Equity	1,888	95,892	0.009%
JNLJPMorgan Global Allocation Fund	Andritz AG			Equity	82	5,824	0.001%
JNLJPMorgan Global Allocation Fund	Hana Financial Group Inc.			Equity	8,852	399,844	0.039%
JNLJPMorgan Global Allocation Fund	MasterCard Incorporated			Equity	2,020	9,076	0.001%
JNLJPMorgan Global Allocation Fund	MasterCard Incorporated			Equity	20,110	9,930,318	0.965%
JNLJPMorgan Global Allocation Fund	Mercadolibre, Inc.			Equity	106	217,508	0.021%
JNLJPMorgan Global Allocation Fund	CavalBank, S.A.			Equity	4,902	29,205	0.003%
JNLJPMorgan Global Allocation Fund	Bunzl Public Limited Company			Equity	401	18,984	0.002%
JNLJPMorgan Global Allocation Fund	Unilever PLC			Equity	3,067	198,959	0.019%
JNLJPMorgan Global Allocation Fund	Mitsubishi Chemical Group Corporation			Equity	1,800	11,744	0.001%
JNLJPMorgan Global Allocation Fund	Reckitt Benckiser Group PLC			Equity	881	53,830	0.005%
JNLJPMorgan Global Allocation Fund	Orion Oil			Equity	133	3,728	0.000%
JNLJPMorgan Global Allocation Fund	Owens Corning			Equity	921	162,575	0.016%
JNLJPMorgan Global Allocation Fund	ExService Holdings, Inc.			Equity	8,337	318,057	0.031%
JNLJPMorgan Global Allocation Fund	Aerports de Paris			Equity	45	5,769	0.001%
JNLJPMorgan Global Allocation Fund	Railless Bank International AG			Equity	167	3,728	0.000%
JNLJPMorgan Global Allocation Fund	Oversea-Chinese Banking Corporation Limited			Equity	4,000	46,884	0.005%
JNLJPMorgan Global Allocation Fund	Loas Renner S/A.			Equity	57,203	190,779	0.019%
JNLJPMorgan Global Allocation Fund	Whitebread PLC			Equity	218	9,156	0.001%
JNLJPMorgan Global Allocation Fund	VINCI			Equity	34,387	4,019,629	0.390%
JNLJPMorgan Global Allocation Fund	First Solar, Inc.			Equity	304	75,630	0.007%
JNLJPMorgan Global Allocation Fund	Wilmar International Limited			Equity	3,400	8,829	0.001%
JNLJPMorgan Global Allocation Fund	Effitape			Equity	92	8,883	0.001%
JNLJPMorgan Global Allocation Fund	Engie			Equity	2,279	39,375	0.004%
JNLJPMorgan Global Allocation Fund	PESEN			Equity	45	5,911	0.001%
JNLJPMorgan Global Allocation Fund	Partners Group Holding AG			Equity	27	40,561	0.004%
JNLJPMorgan Global Allocation Fund	Live Nation Entertainment, Inc.			Equity	1,119	122,519	0.012%
JNLJPMorgan Global Allocation Fund	China Merchants Bank Co., Ltd.			Equity	95,000	460,511	0.045%
JNLJPMorgan Global Allocation Fund	MTU Aero Engines AG			Equity	605	20,285	0.002%
JNLJPMorgan Global Allocation Fund	Kone Corporation			Equity	442	26,436	0.003%
JNLJPMorgan Global Allocation Fund	Recordati Industria Chimica E Farmaceutica S.p.A. in Breve Recordati S.p.A.			Equity	121	6,840	0.001%
JNLJPMorgan Global Allocation Fund	Brambles Limited			Equity	1,738	23,242	0.002%
JNLJPMorgan Global Allocation Fund	Gabbert AG			Equity	43	28,102	0.003%
JNLJPMorgan Global Allocation Fund	Galp Energia, SGPS, S.A.			Equity	558	10,436	0.001%
JNLJPMorgan Global Allocation Fund	Prismian S.p.A.			Equity	340	24,634	0.002%
JNLJPMorgan Global Allocation Fund	Sandvik Aktiebolag			Equity	1,165	26,039	0.003%
JNLJPMorgan Global Allocation Fund	Aktiebolaget Industrivarden			Equity	193	7,103	0.001%
JNLJPMorgan Global Allocation Fund	Leonardo S.p.A.			Equity	501	11,209	0.001%
JNLJPMorgan Global Allocation Fund	SEEK Limited			Equity	405	7,021	0.001%
JNLJPMorgan Global Allocation Fund	Macquarie Group Limited			Equity	442	71,083	0.007%
JNLJPMorgan Global Allocation Fund	Hindalco Industries Limited			Equity	18,411	186,967	0.018%
JNLJPMorgan Global Allocation Fund	Gellfinx S.E.			Equity	378	6,746	0.001%
JNLJPMorgan Global Allocation Fund	Symrise AG			Equity	155	21,412	0.002%
JNLJPMorgan Global Allocation Fund	Aktiebolaget Volvo			Equity	34,260	906,019	0.088%
JNLJPMorgan Global Allocation Fund	Morsk Hydro ASA			Equity	2,635	10,622	0.001%
JNLJPMorgan Global Allocation Fund	Legrand			Equity	20,670	2,377,831	0.231%
JNLJPMorgan Global Allocation Fund	China Construction Bank Corporation			Equity	924,000	691,214	0.067%
JNLJPMorgan Global Allocation Fund	Kuhne & Nagel International AG			Equity	61	16,672	0.002%
JNLJPMorgan Global Allocation Fund	Interactive Brokers Group, Inc.			Equity	2,441	340,178	0.033%
JNLJPMorgan Global Allocation Fund	Metro Oy			Equity	877	9,511	0.001%
JNLJPMorgan Global Allocation Fund	3i Group PLC			Equity	32,614	1,445,072	0.140%
JNLJPMorgan Global Allocation Fund	London Stock Exchange Group PLC			Equity	5,614	766,647	0.074%
JNLJPMorgan Global Allocation Fund	Relx PLC			Equity	66,798	3,151,928	0.306%
JNLJPMorgan Global Allocation Fund	Relx PLC			Equity	29,248	1,382,704	0.134%
JNLJPMorgan Global Allocation Fund	Bandai Namco Holdings Inc.			Equity	800	18,349	0.002%
JNLJPMorgan Global Allocation Fund	Bureau Veritas			Equity	390	12,891	0.001%
JNLJPMorgan Global Allocation Fund	Schindler Holding AG			Equity	51	14,975	0.001%
JNLJPMorgan Global Allocation Fund	Neste Oy			Equity	528	10,199	0.001%
JNLJPMorgan Global Allocation Fund	Impex Corporation			Equity	1,100	15,035	0.001%
JNLJPMorgan Global Allocation Fund	Fukuoka Financial Group, Inc.			Equity	200	5,223	0.001%
JNLJPMorgan Global Allocation Fund	Orkla ASA			Equity	923	8,698	0.001%
JNLJPMorgan Global Allocation Fund	Smiths Group PLC			Equity	434	9,743	0.001%
JNLJPMorgan Global Allocation Fund	BIM Bitesiz Magazdilar Anonim Sirketi			Equity	13,873	201,858	0.020%
JNLJPMorgan Global Allocation Fund	SUMCO Corporation			Equity	300	3,232	0.000%
JNLJPMorgan Global Allocation Fund	Daiichi Sankyo Company, Limited			Equity	2,400	79,355	0.008%
JNLJPMorgan Global Allocation Fund	Remick Initial PLC			Equity	3,034	14,857	0.001%
JNLJPMorgan Global Allocation Fund	MatsukiyuCocokara & Co.			Equity	500	8,288	0.001%
JNLJPMorgan Global Allocation Fund	Ulta Beauty, Inc.			Equity	439	170,824	0.017%
JNLJPMorgan Global Allocation Fund	Anglo American PLC			Equity	1,515	49,299	0.005%
JNLJPMorgan Global Allocation Fund	Husqvarna Aktiebolag			Equity	412	2,863	0.000%
JNLJPMorgan Global Allocation Fund	Gensat Limited			Equity	2,305	90,418	0.009%
JNLJPMorgan Global Allocation Fund	DVS AIS			Equity	214	44,150	0.004%
JNLJPMorgan Global Allocation Fund	Aker BP ASA			Equity	379	8,102	0.001%
JNLJPMorgan Global Allocation Fund	TotalEnergies SE			Equity	2,655	175,097	0.017%
JNLJPMorgan Global Allocation Fund	Iberdrola S.A. S.A.			Equity	1,200	8,831	0.001%
JNLJPMorgan Global Allocation Fund	Iberdrola, Sociedad Anonima			Equity	7,249	112,108	0.011%
JNLJPMorgan Global Allocation Fund	L'Air Liquide, societe anonyme pour l'Etude et l'Exploitation des procedes Georges Claude			Equity	6,468	1,249,242	0.121%
JNLJPMorgan Global Allocation Fund	Schindler Holding AG			Equity	29	8,250	0.001%
JNLJPMorgan Global Allocation Fund	HEXON Co., Ltd.			Equity	500	9,863	0.001%
JNLJPMorgan Global Allocation Fund	eMemory Technology Inc.			Equity	1,449	120,490	0.012%
JNLJPMorgan Global Allocation Fund	Jerónimo Martins, SGPS, S.A.			Equity	5,595	109,919	0.011%
JNLJPMorgan Global Allocation Fund	ITC Limited			Equity	61,709	382,831	0.037%
JNLJPMorgan Global Allocation Fund	Entran PLC			Equity	798	8,150	0.001%
JNLJPMorgan Global Allocation Fund	Brenntag SE			Equity	153	11,415	0.001%
JNLJPMorgan Global Allocation Fund	Post Holdings, Inc.			Equity	1,094	126,631	0.012%
JNLJPMorgan Global Allocation Fund	Powsechyny Zaklad Ubezpieczen Spolka Akcyjna			Equity	826	9,816	0.001%
JNLJPMorgan Global Allocation Fund	NXP Semiconductors N.V.			Equity	184	44,403	0.004%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Evonik Industries AG			Equity	243	5,695	0.001%
JNLJPMorgan Global Allocation Fund	Sompo Holdings, Inc.			Equity	1,200	27,442	0.002%
JNLJPMorgan Global Allocation Fund	Raisi Drogasli S.A.			Equity	39,027	184,245	0.018%
JNLJPMorgan Global Allocation Fund	Hoshizaki Corporation			Equity	100	3,479	0.000%
JNLJPMorgan Global Allocation Fund	Alia Group Limited			Equity	338,600	2,946,118	0.286%
JNLJPMorgan Global Allocation Fund	Majhi Holdings Co., Ltd.			Equity	300	7,602	0.001%
JNLJPMorgan Global Allocation Fund	Da-ichi Life Holdings, Inc.			Equity	1,200	31,268	0.003%
JNLJPMorgan Global Allocation Fund	Glencore PLC			Equity	12,360	70,532	0.007%
JNLJPMorgan Global Allocation Fund	Gjensidige Forsikring ASA			Equity	290	5,428	0.001%
JNLJPMorgan Global Allocation Fund	Tesla Inc.			Equity	1,581	413,637	0.040%
JNLJPMorgan Global Allocation Fund	Tesla Inc.			Equity	13,629	3,566,726	0.346%
JNLJPMorgan Global Allocation Fund	Otsuka Holdings Co., Ltd.			Equity	600	34,067	0.003%
JNLJPMorgan Global Allocation Fund	Booz Allen Hamilton Holding Corporation			Equity	1,798	292,642	0.028%
JNLJPMorgan Global Allocation Fund	Aziati Group Ltd.			Equity	47	3,276	0.000%
JNLJPMorgan Global Allocation Fund	K.B. Financial Group Inc.			Equity	6,899	477,728	0.046%
JNLJPMorgan Global Allocation Fund	Swiss Re AG			Equity	350	48,357	0.005%
JNLJPMorgan Global Allocation Fund	Novozymes A/S			Equity	435	31,328	0.003%
JNLJPMorgan Global Allocation Fund	LPL Financial Holdings Inc.			Equity	372	86,538	0.008%
JNLJPMorgan Global Allocation Fund	Amadeus IT Holding, S.A.			Equity	544	79,286	0.007%
JNLJPMorgan Global Allocation Fund	Tata Motors Limited			Equity	15,794	184,485	0.018%
JNLJPMorgan Global Allocation Fund	HCA Healthcare, Inc.			Equity	452	183,706	0.018%
JNLJPMorgan Global Allocation Fund	Sandoz China Ltd.			Equity	3,200	8,072	0.001%
JNLJPMorgan Global Allocation Fund	Treasury Wine Estates Limited			Equity	1,002	9,453	0.001%
JNLJPMorgan Global Allocation Fund	Bajaj Auto Limited			Equity	1,636	241,674	0.023%
JNLJPMorgan Global Allocation Fund	Graphic Packaging Holding Company			Equity	8,108	240,727	0.023%
JNLJPMorgan Global Allocation Fund	Fresnillo PLC			Equity	218	1,791	0.000%
JNLJPMorgan Global Allocation Fund	Expedia Group, Inc.			Equity	533	78,895	0.008%
JNLJPMorgan Global Allocation Fund	Philips 66			Equity	941	123,694	0.012%
JNLJPMorgan Global Allocation Fund	ENEOS Holdings, Inc.			Equity	3,600	19,948	0.002%
JNLJPMorgan Global Allocation Fund	Edervet			Equity	308	11,656	0.001%
JNLJPMorgan Global Allocation Fund	MSAAD Insurance Group Holdings, Inc.			Equity	1,700	49,544	0.004%
JNLJPMorgan Global Allocation Fund	Garmin Ltd.			Equity	1,571	276,543	0.027%
JNLJPMorgan Global Allocation Fund	Air Lease Corporation			Equity	2,480	112,987	0.011%
JNLJPMorgan Global Allocation Fund	Fortune Brands Innovations, Inc.			Equity	1,208	108,152	0.011%
JNLJPMorgan Global Allocation Fund	Chubb Limited			Equity	386	111,670	0.011%
JNLJPMorgan Global Allocation Fund	Pandora AS			Equity	98	16,157	0.002%
JNLJPMorgan Global Allocation Fund	HKT Trust			Equity	4,000	5,108	0.000%
JNLJPMorgan Global Allocation Fund	International Consolidated Airlines Group, S.A.			Equity	4,527	12,433	0.001%
JNLJPMorgan Global Allocation Fund	United Utilities PLC			Equity	650	11,465	0.001%
JNLJPMorgan Global Allocation Fund	Swire Properties Limited			Equity	1,400	2,900	0.000%
JNLJPMorgan Global Allocation Fund	Julius Baer Gruppe AG			Equity	246	14,814	0.001%
JNLJPMorgan Global Allocation Fund	Kinder Morgan, Inc.			Equity	6,564	144,999	0.014%
JNLJPMorgan Global Allocation Fund	Philip Morris International Inc.			Equity	4,069	499,643	0.049%
JNLJPMorgan Global Allocation Fund	Rolls-Royce Holdings PLC			Equity	10,625	10,625	0.001%
JNLJPMorgan Global Allocation Fund	REC Limited			Equity	17,356	115,680	0.011%
JNLJPMorgan Global Allocation Fund	Japan Airlines Co., Ltd.			Equity	300	5,346	0.001%
JNLJPMorgan Global Allocation Fund	Meta Platforms, Inc.			Equity	3,856	2,207,329	0.214%
JNLJPMorgan Global Allocation Fund	Meta Platforms, Inc.			Equity	29,863	14,905,016	1.438%
JNLJPMorgan Global Allocation Fund	Wuliangye Yibin Co., Ltd.			Equity	6,600	150,792	0.015%
JNLJPMorgan Global Allocation Fund	Aurizon Holdings Limited			Equity	2,299	5,620	0.001%
JNLJPMorgan Global Allocation Fund	CDW Corp.			Equity	166	37,566	0.004%
JNLJPMorgan Global Allocation Fund	Intra Cellular Therapies, Inc.			Equity	2,118	154,974	0.015%
JNLJPMorgan Global Allocation Fund	Siemens Healthineers AG			Equity	338	20,290	0.002%
JNLJPMorgan Global Allocation Fund	Suntory Beverage & Food Limited			Equity	200	7,548	0.001%
JNLJPMorgan Global Allocation Fund	Compagnie Financiere Richemont SA			Equity	666	105,171	0.010%
JNLJPMorgan Global Allocation Fund	Ferrari N.V.			Equity	152	71,225	0.007%
JNLJPMorgan Global Allocation Fund	WPP 2012 Limited			Equity	1,342	13,728	0.001%
JNLJPMorgan Global Allocation Fund	Tele2 AB			Equity	690	7,816	0.001%
JNLJPMorgan Global Allocation Fund	Trade Desk, Inc., The			Equity	3,621	397,043	0.039%
JNLJPMorgan Global Allocation Fund	Murphy USA Inc.			Equity	144	70,873	0.007%
JNLJPMorgan Global Allocation Fund	Novavia SE			Equity	1,017	37,126	0.004%
JNLJPMorgan Global Allocation Fund	Koninklijke Ahold Delhaize N.V.			Equity	1,124	38,903	0.004%
JNLJPMorgan Global Allocation Fund	Concordia Financial Group, Ltd.			Equity	1,500	8,493	0.001%
JNLJPMorgan Global Allocation Fund	KKR & Co. Inc.			Equity	2,776	362,490	0.035%
JNLJPMorgan Global Allocation Fund	Coca-Cola Europacific Partners PLC			Equity	286	1,000	0.000%
JNLJPMorgan Global Allocation Fund	e.l.f. Beauty, Inc.			Equity	1,568	170,959	0.017%
JNLJPMorgan Global Allocation Fund	National Grid PLC			Equity	6,103	84,118	0.008%
JNLJPMorgan Global Allocation Fund	ASML Holding N.V.			Equity	6,814	5,525,311	0.537%
JNLJPMorgan Global Allocation Fund	Reddia Corporation SA			Equity	472	9,168	0.001%
JNLJPMorgan Global Allocation Fund	Tokyo Mitsubishi Holdings Co., Ltd.			Equity	800	5,623	0.001%
JNLJPMorgan Global Allocation Fund	Ganfeng Lithium Group Co., Ltd.			Equity	21,500	104,523	0.010%
JNLJPMorgan Global Allocation Fund	IOVA Holdings Inc.			Equity	607	143,841	0.014%
JNLJPMorgan Global Allocation Fund	Dino Polska Spółka Akcyjna			Equity	1,862	169,574	0.016%
JNLJPMorgan Global Allocation Fund	Hubbell Incorporated			Equity	582	249,300	0.024%
JNLJPMorgan Global Allocation Fund	T-Mobile US, Inc.			Equity	348	71,813	0.007%
JNLJPMorgan Global Allocation Fund	Mondelez International, Inc.			Equity	3,385	250,964	0.024%
JNLJPMorgan Global Allocation Fund	Mondelez International, Inc.			Equity	23,096	1,713,421	0.166%
JNLJPMorgan Global Allocation Fund	AbbVie Inc.			Equity	3,556	702,239	0.068%
JNLJPMorgan Global Allocation Fund	AbbVie Inc.			Equity	19,027	3,757,452	0.365%
JNLJPMorgan Global Allocation Fund	Coloplast A/S			Equity	179	23,386	0.002%
JNLJPMorgan Global Allocation Fund	The Sage Group PLC			Equity	1,238	16,885	0.002%
JNLJPMorgan Global Allocation Fund	Apex S&NV			Equity	201	10,120	0.001%
JNLJPMorgan Global Allocation Fund	Palo Alto Networks, Inc.			Equity	1,513	517,143	0.050%
JNLJPMorgan Global Allocation Fund	Genting Singapore Limited			Equity	6,700	4,556	0.000%
JNLJPMorgan Global Allocation Fund	Coca-Cola HBC AG			Equity	352	12,560	0.001%
JNLJPMorgan Global Allocation Fund	Midrex Group Co., Ltd.			Equity	33,400	33,400	0.003%
JNLJPMorgan Global Allocation Fund	Lamb Weston Holdings, Inc.			Equity	1,745	112,971	0.011%
JNLJPMorgan Global Allocation Fund	Convatec Group PLC			Equity	2,014	6,159	0.001%
JNLJPMorgan Global Allocation Fund	COMMERZBANK Aktiengesellschaft			Equity	1,212	22,390	0.002%
JNLJPMorgan Global Allocation Fund	Tapestry, Inc.			Equity	2,801	136,947	0.013%
JNLJPMorgan Global Allocation Fund	PT Telekomunikasi Indonesia (Persero) Tbk			Equity	1,031,200	203,807	0.020%
JNLJPMorgan Global Allocation Fund	Eaton Corporation Public Limited Company			Equity	188	62,311	0.006%
JNLJPMorgan Global Allocation Fund	Baker Hughes Company			Equity	79,488	2,873,491	0.279%
JNLJPMorgan Global Allocation Fund	Compass Group PLC			Equity	2,135	68,185	0.007%
JNLJPMorgan Global Allocation Fund	Inner Mongolia Yili Industrial Group Co., Ltd.			Equity	35,789	146,666	0.014%
JNLJPMorgan Global Allocation Fund	NN Group N.V.			Equity	339	16,849	0.002%
JNLJPMorgan Global Allocation Fund	Ahnener-Busch InBev			Equity	1,167	77,212	0.008%
JNLJPMorgan Global Allocation Fund	The Capra Group			Equity	271	93,885	0.009%
JNLJPMorgan Global Allocation Fund	TechnipFMC PLC			Equity	15,008	393,660	0.038%
JNLJPMorgan Global Allocation Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	1,402	244,612	0.024%
JNLJPMorgan Global Allocation Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	32,919	5,736,114	0.557%
JNLJPMorgan Global Allocation Fund	B2 S.p.A. - Borsini, Bolso, Baloso			Equity	80,194	159,598	0.015%
JNLJPMorgan Global Allocation Fund	Pirelli & C. S.p.A.			Equity	338	2,051	0.000%
JNLJPMorgan Global Allocation Fund	Sierby Corp.			Equity	17,000	252,034	0.024%
JNLJPMorgan Global Allocation Fund	ING Groep N.V.			Equity	4,031	73,351	0.007%
JNLJPMorgan Global Allocation Fund	China Yangtze Power Co., Ltd.			Equity	91,000	389,557	0.038%
JNLJPMorgan Global Allocation Fund	CICI Bank Limited			Equity	43,954	667,684	0.065%
JNLJPMorgan Global Allocation Fund	Moncler S.p.A.			Equity	265	16,849	0.002%
JNLJPMorgan Global Allocation Fund	Globant S.A.			Equity	278	55,083	0.005%
JNLJPMorgan Global Allocation Fund	Globant S.A.			Equity	943	186,846	0.018%
JNLJPMorgan Global Allocation Fund	SG Holdings Co., Ltd.			Equity	500	5,453	0.001%
JNLJPMorgan Global Allocation Fund	Tencent Holdings Limited			Equity	91,600	5,085,231	0.494%
JNLJPMorgan Global Allocation Fund	Alacadan S.A.			Equity	86,740	147,441	0.014%
JNLJPMorgan Global Allocation Fund	The Siam Cement Public Company Limited			Equity	17,800	133,344	0.013%
JNLJPMorgan Global Allocation Fund	Sika AG			Equity	200	66,367	0.006%
JNLJPMorgan Global Allocation Fund	Paylocity Holding Corporation			Equity	279	46,027	0.004%
JNLJPMorgan Global Allocation Fund	Broadcom Inc.			Equity	6,971	1,202,498	0.117%
JNLJPMorgan Global Allocation Fund	James Hardie Industries Public Limited Company			Equity	541	21,615	0.002%
JNLJPMorgan Global Allocation Fund	Foyat Glass Industry Group Co., Ltd.			Equity	48,000	322,941	0.031%
JNLJPMorgan Global Allocation Fund	WH Group Limited			Equity	9,440	7,424	0.001%
JNLJPMorgan Global Allocation Fund	Booking Holdings Inc.			Equity	122	513,879	0.050%
JNLJPMorgan Global Allocation Fund	Umicore			Equity	226	2,938	0.000%
JNLJPMorgan Global Allocation Fund	Wharf Real Estate Investment Company Limited			Equity	2,000	6,265	0.001%
JNLJPMorgan Global Allocation Fund	Infirma PLC			Equity	1,642	18,059	0.002%
JNLJPMorgan Global Allocation Fund	HDFC Bank Limited			Equity	10,234	640,239	0.062%
JNLJPMorgan Global Allocation Fund	Wiser Tech Global Limited			Equity	216	20,616	0.002%
JNLJPMorgan Global Allocation Fund	Vodafone Group Public Limited Company			Equity	26,167	26,244	0.000%
JNLJPMorgan Global Allocation Fund	Biomerieux SA			Equity	52	6,231	0.001%
JNLJPMorgan Global Allocation Fund	Bid Corporation (Pty) Ltd			Equity	6,270	160,663	0.016%
JNLJPMorgan Global Allocation Fund	Great Bowers Holdings, LLC			Equity	31,332	0	0.000%
JNLJPMorgan Global Allocation Fund	Arundel			Equity	76	5,677	0.001%
JNLJPMorgan Global Allocation Fund	CEMEX S.A.B. de C.V.			Equity	17,423	106,280	0.010%
JNLJPMorgan Global Allocation Fund	ITT Inc.			Equity	2,383	356,282	0.035%
JNLJPMorgan Global Allocation Fund	Essity Aktiebolag (publ)			Equity	757	23,646	0.002%
JNLJPMorgan Global Allocation Fund	ASE Technology Holding Co., Ltd.			Equity	44,000	208,070	0.020%
JNLJPMorgan Global Allocation Fund	Jefferies Financial Group Inc.			Equity	833	51,271	0.005%
JNLJPMorgan Global Allocation Fund	Arista Networks, Inc.			Equity	683	262,149	0.025%
JNLJPMorgan Global Allocation Fund	Auckland International Airport Limited			Equity	1,648	7,885	0.001%
JNLJPMorgan Global Allocation Fund	Exor Nederland N.V.			Equity	125	13,422	0.001%
JNLJPMorgan Global Allocation Fund	EastGroup Properties, Inc.			Equity	258	48,561	0.005%
JNLJPMorgan Global Allocation Fund	Poste Italiane - Societa' Per Azioni			Equity	763	10,699	0.001%
JNLJPMorgan Global Allocation Fund	Flutter Entertainment Public Limited Company			Equity	199	46,830	0.005%
JNLJPMorgan Global Allocation Fund	Covestro AG			Equity	228	14,198	0.001%
JNLJPMorgan Global Allocation Fund	CK Hutchison Holdings Limited			Equity	3,000	17,053	0.002%
JNLJPMorgan Global Allocation Fund	ASSA ABLOY AB			Equity	1,316	44,294	0.004%
JNLJPMorgan Global Allocation Fund	Recruit Holdings Co., Ltd.			Equity	1,900	115,798	0.011%
JNLJPMorgan Global Allocation Fund	Orsted A/S			Equity	233	15,451	0.002%
JNLJPMorgan Global Allocation Fund	Avia Coating Systems Ltd.			Equity	2,584	93,877	0.009%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Havells India Limited			Equity	5,961	143,694	0.014%
JNLJPMorgan Global Allocation Fund	Capitand Accordia REIT			Equity	4,700	10,499	0.001%
JNLJPMorgan Global Allocation Fund	Performance Food Group Company			Equity	4,494	352,195	0.034%
JNLJPMorgan Global Allocation Fund	Zillow Group, Inc.			Equity	1,135	72,470	0.007%
JNLJPMorgan Global Allocation Fund	Banca Mediolanum SpA			Equity	186	2,345	0.000%
JNLJPMorgan Global Allocation Fund	Wal - Mart de Mexico, S.A.B. de C.V.			Equity	600,321	1,813,329	0.169%
JNLJPMorgan Global Allocation Fund	Cellex Telecom, S.A.			Equity	735	29,786	0.003%
JNLJPMorgan Global Allocation Fund	Japan Post Bank Co., Ltd.			Equity	1,800	16,796	0.002%
JNLJPMorgan Global Allocation Fund	Block, Inc.			Equity	5,227	350,889	0.034%
JNLJPMorgan Global Allocation Fund	South32 Limited			Equity	5,593	14,770	0.001%
JNLJPMorgan Global Allocation Fund	Hewlett Packard Enterprise Company			Equity	16,130	339,846	0.032%
JNLJPMorgan Global Allocation Fund	Alphabet Inc.			Equity	9,944	1,662,537	0.162%
JNLJPMorgan Global Allocation Fund	Meridian Energy Limited			Equity	1,538	5,788	0.001%
JNLJPMorgan Global Allocation Fund	The Chemours Company			Equity	5,933	120,559	0.012%
JNLJPMorgan Global Allocation Fund	Yum China Holdings, Inc.			Equity	802	36,108	0.004%
JNLJPMorgan Global Allocation Fund	Yum China Holdings, Inc.			Equity	17,570	791,001	0.077%
JNLJPMorgan Global Allocation Fund	Yum China Holdings, Inc.			Equity	3,250	153,933	0.015%
JNLJPMorgan Global Allocation Fund	Medibank Private Limited			Equity	3,401	8,613	0.001%
JNLJPMorgan Global Allocation Fund	Apple Hospitality REIT, Inc.			Equity	3,612	53,927	0.005%
JNLJPMorgan Global Allocation Fund	Atlas Arteria Limited			Equity	1,363	4,808	0.000%
JNLJPMorgan Global Allocation Fund	HubSpot, Inc.			Equity	489	259,952	0.025%
JNLJPMorgan Global Allocation Fund	AENA, S.M.E., S.A.			Equity	90	19,791	0.002%
JNLJPMorgan Global Allocation Fund	AcordaMedical			Equity	602	15,950	0.002%
JNLJPMorgan Global Allocation Fund	Auto Trader Group PLC			Equity	1,096	12,751	0.001%
JNLJPMorgan Global Allocation Fund	CK Asset Holdings Limited			Equity	2,500	10,885	0.001%
JNLJPMorgan Global Allocation Fund	Svenska Handelsbanken AB			Equity	1,772	18,198	0.002%
JNLJPMorgan Global Allocation Fund	Industria de Diseno Textil, S.A			Equity	23,131	1,349,583	0.132%
JNLJPMorgan Global Allocation Fund	Acoso Corporation			Equity	2,133	82,291	0.008%
JNLJPMorgan Global Allocation Fund	Japan Post Holdings Co., Ltd.			Equity	2,700	26,309	0.003%
JNLJPMorgan Global Allocation Fund	Tryg A/S			Equity	394	9,347	0.001%
JNLJPMorgan Global Allocation Fund	Demetis AIS			Equity	108	4,226	0.000%
JNLJPMorgan Global Allocation Fund	Schibsted ASA			Equity	115	3,474	0.000%
JNLJPMorgan Global Allocation Fund	Natera, Inc.			Equity	2,524	320,422	0.031%
JNLJPMorgan Global Allocation Fund	Hilton Worldwide Holdings Inc.			Equity	730	168,265	0.016%
JNLJPMorgan Global Allocation Fund	UBS Group AG			Equity	105,724	3,274,028	0.318%
JNLJPMorgan Global Allocation Fund	CK Infrastructure Holdings Limited			Equity	500	5,403	0.001%
JNLJPMorgan Global Allocation Fund	Medtronic, Inc.			Equity	750	68,048	0.007%
JNLJPMorgan Global Allocation Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	23,034	1,013,008	0.098%
JNLJPMorgan Global Allocation Fund	Capri Holdings Limited			Equity	1,260	53,474	0.005%
JNLJPMorgan Global Allocation Fund	Equinix, Inc.			Equity	274	243,108	0.024%
JNLJPMorgan Global Allocation Fund	Stockland Corporation Ltd			Equity	2,945	10,683	0.001%
JNLJPMorgan Global Allocation Fund	American Homes 4 Rent			Equity	2,693	103,384	0.010%
JNLJPMorgan Global Allocation Fund	Adyen N.V.			Equity	38	59,544	0.006%
JNLJPMorgan Global Allocation Fund	Nippon Building Fund Inc.			Equity	10	9,180	0.001%
JNLJPMorgan Global Allocation Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	73	6,058	0.001%
JNLJPMorgan Global Allocation Fund	Maplefree Commercial Trust Treasury Company Pte. Ltd.			Equity	3,000	3,457	0.000%
JNLJPMorgan Global Allocation Fund	OUTFRONT Media Inc.			Equity	4,012	73,741	0.007%
JNLJPMorgan Global Allocation Fund	Capitand Group Pte. Ltd			Equity	9,964	9,892	0.001%
JNLJPMorgan Global Allocation Fund	Volkswagen Aktiengesellschaft			Equity	251	26,646	0.003%
JNLJPMorgan Global Allocation Fund	Prologis Inc.			Equity	20,512	2,590,255	0.252%
JNLJPMorgan Global Allocation Fund	Kimco Realty OP, LLC			Equity	2,889	69,405	0.007%
JNLJPMorgan Global Allocation Fund	SEGRO Public Limited Company			Equity	1,530	17,891	0.002%
JNLJPMorgan Global Allocation Fund	Public Storage Operating Company			Equity	345	125,535	0.012%
JNLJPMorgan Global Allocation Fund	DEXUS Funds Management Limited			Equity	1,344	7,052	0.001%
JNLJPMorgan Global Allocation Fund	Equity Lifestyle Properties, Inc.			Equity	2,083	149,828	0.015%
JNLJPMorgan Global Allocation Fund	Vornado Realty Trust			Equity	2,063	81,282	0.008%
JNLJPMorgan Global Allocation Fund	Ravens Inc.			Equity	1,683	54,159	0.005%
JNLJPMorgan Global Allocation Fund	Host Hotels & Resorts, Inc.			Equity	2,196	39,089	0.004%
JNLJPMorgan Global Allocation Fund	CBRE Group, Inc.			Equity	577	71,825	0.007%
JNLJPMorgan Global Allocation Fund	Weyerhaeuser Company			Equity	3,914	132,528	0.013%
JNLJPMorgan Global Allocation Fund	Nippon Property REIT, Inc.			Equity	3	5,153	0.001%
JNLJPMorgan Global Allocation Fund	GLP J-REIT			Equity	6	5,659	0.001%
JNLJPMorgan Global Allocation Fund	Japan Real Estate Investment Corporation			Equity	1	4,062	0.000%
JNLJPMorgan Global Allocation Fund	Digital Realty Trust, Inc.			Equity	1,679	271,713	0.026%
JNLJPMorgan Global Allocation Fund	Digital Realty Trust, Inc.			Equity	19,177	3,103,414	0.301%
JNLJPMorgan Global Allocation Fund	Welltower Inc.			Equity	20,603	2,637,802	0.256%
JNLJPMorgan Global Allocation Fund	Regency Centers Corporation			Equity	1,804	131,845	0.013%
JNLJPMorgan Global Allocation Fund	Japan Metropolitan Fund Investment Corporation			Equity	1,874	7,410	0.000%
JNLJPMorgan Global Allocation Fund	Goodman Funding Pty Ltd			Equity	2,163	155,541	0.015%
JNLJPMorgan Global Allocation Fund	Scintera Group Limited			Equity	6,500	16,457	0.002%
JNLJPMorgan Global Allocation Fund	Link Real Estate Investment Trust			Equity	3,200	15,943	0.002%
JNLJPMorgan Global Allocation Fund	Mirvac Limited			Equity	4,930	7,349	0.001%
JNLJPMorgan Global Allocation Fund	GPT Management Holdings Limited			Equity	2,391	6,936	0.001%
JNLJPMorgan Global Allocation Fund	Sartorius Aktiengesellschaft			Equity	32	8,996	0.001%
JNLJPMorgan Global Allocation Fund	Lamar Advertising Company			Equity	892	119,171	0.012%
JNLJPMorgan Global Allocation Fund	Hiscox Ltd.			Equity	728	11,105	0.001%
JNLJPMorgan Global Allocation Fund	Vicinity Centres RE Ltd			Equity	4,527	6,936	0.001%
JNLJPMorgan Global Allocation Fund	SBA Communications Corporation			Equity	1,249	300,634	0.029%
JNLJPMorgan Global Allocation Fund	Nomura Real Estate Master Fund, Inc.			Equity	4	4,100	0.000%
JNLJPMorgan Global Allocation Fund	Land Securities Group PLC			Equity	869	7,699	0.001%
JNLJPMorgan Global Allocation Fund	Softbank Corp.			Equity	35,000	46,718	0.004%
JNLJPMorgan Global Allocation Fund	InterContinental Hotels Group PLC			Equity	7,172	784,378	0.076%
JNLJPMorgan Global Allocation Fund	Akzo Nobel N.V.			Equity	211	14,912	0.001%
JNLJPMorgan Global Allocation Fund	ASPEED Technology Inc.			Equity	1,146	155,399	0.015%
JNLJPMorgan Global Allocation Fund	Acton Technology Corporation			Equity	11,000	184,464	0.018%
JNLJPMorgan Global Allocation Fund	Phoenix Group Holdings PLC			Equity	1,237	1,072	0.001%
JNLJPMorgan Global Allocation Fund	Intermediate Capital Group PLC			Equity	359	10,672	0.001%
JNLJPMorgan Global Allocation Fund	Saudi Arabia, Kingdom of	10/26/2026	3.25	Fixed Income	918,000	913,401	0.089%
JNLJPMorgan Global Allocation Fund	Duquesne Light Holdings, Inc.	9/1/2027	3.62	Fixed Income	750,000	736,895	0.072%
JNLJPMorgan Global Allocation Fund	Compassrose Finance LLC	3/1/2027	8.25	Fixed Income	486,000	486,000	0.048%
JNLJPMorgan Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/29/2031	7.75	Fixed Income	80,000,000	3,878,967	0.377%
JNLJPMorgan Global Allocation Fund	Xiaomi Corporation			Equity	62,600	177,558	0.017%
JNLJPMorgan Global Allocation Fund	Keurig Dr Pepper Inc.			Equity	6,046	152,575	0.015%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2035	1.30	Fixed Income	200,750,000	1,447,000	0.143%
JNLJPMorgan Global Allocation Fund	Charter Communications Operating, LLC	10/23/2035	6.38	Fixed Income	650,000	682,576	0.066%
JNLJPMorgan Global Allocation Fund	Amplifon S.p.A			Equity	157	4,509	0.000%
JNLJPMorgan Global Allocation Fund	ABSA Group			Equity	30,949	314,770	0.031%
JNLJPMorgan Global Allocation Fund	Contact Energy Limited			Equity	984	5,101	0.001%
JNLJPMorgan Global Allocation Fund	Roche Holding AG			Equity	39	13,315	0.001%
JNLJPMorgan Global Allocation Fund	Castellum Aktiefondag			Equity	535	7,841	0.001%
JNLJPMorgan Global Allocation Fund	Aker ASA			Equity	29	1,506	0.000%
JNLJPMorgan Global Allocation Fund	Arctad AB			Equity	139	3,665	0.001%
JNLJPMorgan Global Allocation Fund	Spectrum Management Holding Company, LLC	9/1/2041	5.50	Fixed Income	800,000	697,779	0.068%
JNLJPMorgan Global Allocation Fund	Lasertec Co. Ltd.			Equity	100	16,544	0.002%
JNLJPMorgan Global Allocation Fund	Embassy Office Parks Private Limited			Equity	25,738	119,908	0.012%
JNLJPMorgan Global Allocation Fund	Dow Inc.			Equity	19,914	1,087,902	0.106%
JNLJPMorgan Global Allocation Fund	Entirex Midstream, LLC	6/1/2029	5.38	Fixed Income	500,000	521,287	0.051%
JNLJPMorgan Global Allocation Fund	Alcon AG			Equity	615	61,920	0.006%
JNLJPMorgan Global Allocation Fund	Nexi S.p.A.			Equity	771	5,249	0.001%
JNLJPMorgan Global Allocation Fund	Croda International Public Limited Company			Equity	161	9,167	0.001%
JNLJPMorgan Global Allocation Fund	HeartCommunications, Inc.	5/1/2027	8.38	Fixed Income	365,000	206,216	0.020%
JNLJPMorgan Global Allocation Fund	Uber Technologies, Inc.			Equity	6,881	517,176	0.050%
JNLJPMorgan Global Allocation Fund	Uber Technologies, Inc.			Equity	64,671	4,860,672	0.472%
JNLJPMorgan Global Allocation Fund	Banco BTG Pactual S/A			Equity	40,739	250,370	0.024%
JNLJPMorgan Global Allocation Fund	Shares MSC EAFE ETF			Fund	850	71,085	0.007%
JNLJPMorgan Global Allocation Fund	Kontoor Brands, Inc.			Equity	887	72,539	0.007%
JNLJPMorgan Global Allocation Fund	Carl Zeiss Meditec AG			Equity	45	3,568	0.000%
JNLJPMorgan Global Allocation Fund	Adventist Corporation			Equity	900	42,524	0.004%
JNLJPMorgan Global Allocation Fund	Al Raja Banking and Investment Corporation			Equity	17,205	400,166	0.039%
JNLJPMorgan Global Allocation Fund	Saudi National Bank, The			Equity	38,504	352,645	0.034%
JNLJPMorgan Global Allocation Fund	CrowdStrike Holdings, Inc.			Equity	548	153,698	0.015%
JNLJPMorgan Global Allocation Fund	Hayman Holdings, LLC			Equity	100	16,544	0.002%
JNLJPMorgan Global Allocation Fund	D.S. Smith PLC	12/31/2024	2.00	Fixed Income	3,314,000	182	0.000%
JNLJPMorgan Global Allocation Fund	Howden Journey Group PLC			Equity	660	8,032	0.001%
JNLJPMorgan Global Allocation Fund	Buzzi S.p.A.			Equity	101	4,039	0.000%
JNLJPMorgan Global Allocation Fund	Ackermans			Equity	21	4,465	0.000%
JNLJPMorgan Global Allocation Fund	Kesko Oyj			Equity	324	6,916	0.001%
JNLJPMorgan Global Allocation Fund	Schibsted ASA			Equity	86	2,776	0.000%
JNLJPMorgan Global Allocation Fund	IBIDEN Co., Ltd.			Equity	200	6,226	0.001%
JNLJPMorgan Global Allocation Fund	SCS Corporation			Equity	300	6,261	0.001%
JNLJPMorgan Global Allocation Fund	Minerals Resources Limited			Equity	214	7,883	0.001%
JNLJPMorgan Global Allocation Fund	Swedish Orphan Biovitrum AB (Publ)			Equity	203	6,528	0.001%
JNLJPMorgan Global Allocation Fund	Seven Group Holdings Limited			Equity	249	7,414	0.001%
JNLJPMorgan Global Allocation Fund	DiaSorin S.p.A.			Equity	27	3,159	0.000%
JNLJPMorgan Global Allocation Fund	Mercury NZ Limited			Equity	808	3,305	0.000%
JNLJPMorgan Global Allocation Fund	Talans Aktiengesellschaft			Equity	73	6,154	0.001%
JNLJPMorgan Global Allocation Fund	B&M European Value Retail S.A.			Equity	1,121	6,235	0.001%
JNLJPMorgan Global Allocation Fund	ASM International N.V.			Equity	54	35,578	0.003%
JNLJPMorgan Global Allocation Fund	Japan Post Insurance Co., Ltd.			Equity	300	5,592	0.001%
JNLJPMorgan Global Allocation Fund	Banco BPM Societa' Per Azioni			Equity	1,647	11,124	0.001%
JNLJPMorgan Global Allocation Fund	Kawasaki Kisen Kaisha, Ltd.			Equity	500	7,931	0.001%
JNLJPMorgan Global Allocation Fund	Trelleborg AB			Equity	261	10,043	0.001%
JNLJPMorgan Global Allocation Fund	SCREEN Holdings Co., Ltd.			Equity	100	7,109	0.001%
JNLJPMorgan Global Allocation Fund	Rheinmetall Aktiengesellschaft			Equity	55	29,888	0.003%
JNLJPMorgan Global Allocation Fund	Elia Group			Equity	51	5,833	0.001%
JNLJPMorgan Global Allocation Fund	EVN AG			Equity	43	1,357	0.000%
JNLJPMorgan Global Allocation Fund	VIENNA INSURANCE GROUP AG Wiener Versicherung Gruppe			Equity	81	2,694	0.000%
JNLJPMorgan Global Allocation Fund	TIS Inc.			Equity	200	5,142	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Telekom Austria Aktiengesellschaft			Equity	152	1.487	0.000%
JNLJPMorgan Global Allocation Fund	HM Treasury	1/27/2046	4.25	Fixed Income	140,000	182.263	0.018%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2048	2.00	Fixed Income	32,584	32.584	0.003%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2050	2.20	Fixed Income	95,800.00	697.161	0.068%
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	8/15/2048	1.25	Fixed Income	95,000	82.954	0.008%
JNLJPMorgan Global Allocation Fund	Canada, Government of	1/21/2048	2.75	Fixed Income	145,000	103.262	0.010%
JNLJPMorgan Global Allocation Fund	HM Treasury	7/22/2052	3.75	Fixed Income	512,000	602.335	0.059%
JNLJPMorgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2057	2.25	Fixed Income	93,000	80.678	0.008%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2055	1.40	Fixed Income	33,000.00	193.440	0.019%
JNLJPMorgan Global Allocation Fund	HM Treasury	1/27/2055	4.25	Fixed Income	190,000	244.614	0.024%
JNLJPMorgan Global Allocation Fund	HM Treasury	7/22/2057	1.75	Fixed Income	272,000	195.272	0.019%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2066	1.75	Fixed Income	266,960	189.499	0.018%
JNLJPMorgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2066	2.15	Fixed Income	135,000	112.368	0.011%
JNLJPMorgan Global Allocation Fund	Estado Espanol	7/30/2066	3.45	Fixed Income	14,000	14.715	0.001%
JNLJPMorgan Global Allocation Fund	Canada, Government of	1/21/2064	1.75	Fixed Income	176,000	122.008	0.012%
JNLJPMorgan Global Allocation Fund	HM Treasury	7/22/2068	3.50	Fixed Income	254,000	279.225	0.027%
JNLJPMorgan Global Allocation Fund	Danmarks Nationalbank	11/15/2025	1.75	Fixed Income	803,000	121.189	0.012%
JNLJPMorgan Global Allocation Fund	Estado Espanol	4/30/2026	1.95	Fixed Income	5,000	3.345	0.000%
JNLJPMorgan Global Allocation Fund	OSMTH of the Kingdom Of Sweden	5/12/2028	0.75	Fixed Income	1,895,000	191.143	0.018%
JNLJPMorgan Global Allocation Fund	Estado Espanol	7/30/2028	1.40	Fixed Income	40,000	43.090	0.004%
JNLJPMorgan Global Allocation Fund	Danmarks Nationalbank	11/15/2027	0.50	Fixed Income	1,223,000	176.237	0.017%
JNLJPMorgan Global Allocation Fund	OSMTH of the Kingdom Of Sweden	6/1/2032	2.25	Fixed Income	1,525,000	155.296	0.015%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2034	1.50	Fixed Income	7,800.00	57.572	0.006%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	9/20/2034	1.40	Fixed Income	6,600.00	48.140	0.005%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2035	1.20	Fixed Income	94,300.00	672.557	0.065%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	9/01/2036	2.25	Fixed Income	408,000	399.765	0.039%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	4/21/2037	3.75	Fixed Income	297,000	203.173	0.020%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2037	0.70	Fixed Income	183,850.00	1,213.175	0.118%
JNLJPMorgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2038	1.90	Fixed Income	304,000	297.335	0.029%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	12/20/2037	0.60	Fixed Income	42,400.00	273.270	0.027%
JNLJPMorgan Global Allocation Fund	Estado Espanol	1/31/2037	4.20	Fixed Income	531,000	673.010	0.066%
JNLJPMorgan Global Allocation Fund	Staat der Nederlanden	11/15/2033	4.00	Fixed Income	281,000	381.104	0.037%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	2/1/2037	4.00	Fixed Income	522,000	613.969	0.060%
JNLJPMorgan Global Allocation Fund	OSMTH of the Kingdom Of Sweden	3/30/2039	3.50	Fixed Income	920,000	106.257	0.010%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	6/25/2039	1.75	Fixed Income	1,272,000	1,186.403	0.115%
JNLJPMorgan Global Allocation Fund	Danmarks Nationalbank	11/15/2039	4.50	Fixed Income	1,006,000	1,299.921	0.099%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2042	2.00	Fixed Income	23,550.00	174.843	0.017%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	9/20/2042	1.90	Fixed Income	126,550.00	923.753	0.090%
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	7/4/2042	3.25	Fixed Income	30,000	37.472	0.004%
JNLJPMorgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2046	3.75	Fixed Income	249,000	209.042	0.020%
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	8/15/2046	2.50	Fixed Income	340,000	381.241	0.037%
JNLJPMorgan Global Allocation Fund	Estado Espanol	10/31/2046	2.90	Fixed Income	310,000	321.889	0.031%
JNLJPMorgan Global Allocation Fund	Strabag SE			Equity	5	209	0.000%
JNLJPMorgan Global Allocation Fund	Allied Universal Holdco LLC	7/15/2027	9.75	Fixed Income	316,000	323.058	0.031%
JNLJPMorgan Global Allocation Fund	Blackstone Inc.			Equity	2,919	446.986	0.043%
JNLJPMorgan Global Allocation Fund	Estado Espanol	10/31/2026	1.30	Fixed Income	30,000	33.117	0.003%
JNLJPMorgan Global Allocation Fund	Wynnwin Corporation			Equity	2,000	109.538	0.011%
JNLJPMorgan Global Allocation Fund	Estado Espanol	4/30/2029	1.45	Fixed Income	10,000	10.729	0.001%
JNLJPMorgan Global Allocation Fund	D'Ieteren Group			Equity	29	6.143	0.001%
JNLJPMorgan Global Allocation Fund	Adnagh Packaging Finance Public Limited Company	8/15/2027	5.25	Fixed Income	302,000	220.929	0.021%
JNLJPMorgan Global Allocation Fund	iHeartCommunications, Inc.	8/15/2027	5.25	Fixed Income	980,000	674.614	0.066%
JNLJPMorgan Global Allocation Fund	Investment Ab Latis			Equity	1,746	1.466	0.000%
JNLJPMorgan Global Allocation Fund	Clear Channel Outdoor Holdings, Inc.	8/15/2027	5.13	Fixed Income	1,197,000	1,184.558	0.116%
JNLJPMorgan Global Allocation Fund	Evolution AB (publ)			Equity	235	23.090	0.002%
JNLJPMorgan Global Allocation Fund	FMG Resources (August 2006) Pty Ltd	9/15/2027	4.50	Fixed Income	173,000	170.131	0.017%
JNLJPMorgan Global Allocation Fund	Encompass Health Corporation	2/1/2028	4.50	Fixed Income	82,000	81.091	0.008%
JNLJPMorgan Global Allocation Fund	Prosus N.V.			Equity	1,723	17.475	0.001%
JNLJPMorgan Global Allocation Fund	WPC Eurobond B.V.	4/15/2028	1.35	Fixed Income	650,000	683.181	0.066%
JNLJPMorgan Global Allocation Fund	B&G Foods, Inc.	9/15/2027	5.25	Fixed Income	239,000	229.875	0.022%
JNLJPMorgan Global Allocation Fund	HDFC Bank Limited			Equity	36,777	756.335	0.073%
JNLJPMorgan Global Allocation Fund	Nedra Energy Operating Partners, LP	10/15/2026	3.88	Fixed Income	1,048,000	1,039.321	0.101%
JNLJPMorgan Global Allocation Fund	Holmen Aktiebolag			Equity	98	4.241	0.000%
JNLJPMorgan Global Allocation Fund	Connect Finco SARL	10/1/2026	6.75	Fixed Income	200,000	206.750	0.020%
JNLJPMorgan Global Allocation Fund	Beutelsweir Brewing Company APAC Limited			Equity	3,200	4.245	0.000%
JNLJPMorgan Global Allocation Fund	EQT AB			Equity	876	30.942	0.003%
JNLJPMorgan Global Allocation Fund	Inter-American Development Bank	10/10/2024	1.70	Fixed Income	50,000	37.245	0.004%
JNLJPMorgan Global Allocation Fund	Kobe Bussan Co., Ltd.			Equity	200	6.234	0.001%
JNLJPMorgan Global Allocation Fund	Alliant Holdings Intermediate, LLC	10/15/2027	6.75	Fixed Income	17,000	17.470	0.002%
JNLJPMorgan Global Allocation Fund	Live Nation Entertainment, Inc.	10/15/2027	4.75	Fixed Income	626,000	633.234	0.061%
JNLJPMorgan Global Allocation Fund	Hera S.p.A.			Equity	1,083	4.316	0.000%
JNLJPMorgan Global Allocation Fund	Orion Oyj			Equity	32	1.749	0.000%
JNLJPMorgan Global Allocation Fund	M&C PLC			Equity	5,725	7.811	0.001%
JNLJPMorgan Global Allocation Fund	United Rentals (North America), Inc.	11/15/2027	3.98	Fixed Income	959,000	947.622	0.092%
JNLJPMorgan Global Allocation Fund	LCPR Senior Secured Financing Designated Activity Company	10/15/2027	6.75	Fixed Income	806,000	856.260	0.083%
JNLJPMorgan Global Allocation Fund	Pivotrol Escrow Issuer LLC	11/15/2026	12.25	Fixed Income	345,000	360.375	0.035%
JNLJPMorgan Global Allocation Fund	GW & CR Security Corporation	11/1/2027	9.50	Fixed Income	5,000	5.200	0.001%
JNLJPMorgan Global Allocation Fund	ESR Group Limited			Equity	3,000	4.160	0.000%
JNLJPMorgan Global Allocation Fund	Salway Inc.	11/15/2027	4.63	Fixed Income	1,189,000	1,171.395	0.114%
JNLJPMorgan Global Allocation Fund	Light and Wonder International, Inc.	5/15/2028	7.00	Fixed Income	985,000	1,018.608	0.099%
JNLJPMorgan Global Allocation Fund	SBI Life Insurance Company Limited			Equity	9,169	202.300	0.020%
JNLJPMorgan Global Allocation Fund	Wesco Aircraft Holdings, Inc.	11/15/2026	9.00	Fixed Income	48,000	29.628	0.003%
JNLJPMorgan Global Allocation Fund	ASGN Incorporated	5/15/2028	4.63	Fixed Income	798,000	789.466	0.077%
JNLJPMorgan Global Allocation Fund	iHeartCommunications, Inc.	1/15/2028	4.75	Fixed Income	357,000	235.533	0.023%
JNLJPMorgan Global Allocation Fund	Kaiser Aluminum Corporation	3/1/2028	4.63	Fixed Income	769,000	747.419	0.073%
JNLJPMorgan Global Allocation Fund	Alibaba Group Holding Limited			Equity	86,932	1,170.380	0.114%
JNLJPMorgan Global Allocation Fund	Kesko Oyj			Equity	111	2.357	0.000%
JNLJPMorgan Global Allocation Fund	Aktiebolaget Volvo			Equity	229	6.112	0.001%
JNLJPMorgan Global Allocation Fund	Jiangsu Hengli Hydraulic Technology Co., Ltd.			Equity	19,900	178.563	0.017%
JNLJPMorgan Global Allocation Fund	EDP Renovaveis, S.A.			Equity	344	5.487	0.001%
JNLJPMorgan Global Allocation Fund	Fair Isaac Corporation	6/15/2028	4.00	Fixed Income	1,137,000	1,113.163	0.108%
JNLJPMorgan Global Allocation Fund	Clearway Energy Operating LLC	3/15/2028	4.75	Fixed Income	833,000	819.328	0.080%
JNLJPMorgan Global Allocation Fund	Colfarge Limited			Equity	2,054	172.852	0.017%
JNLJPMorgan Global Allocation Fund	Trust Financial Corporation			Equity	5,489	363.067	0.035%
JNLJPMorgan Global Allocation Fund	MOOG Inc.	12/15/2027	4.25	Fixed Income	935,000	938.091	0.089%
JNLJPMorgan Global Allocation Fund	GFL Environmental Inc.	12/15/2026	5.13	Fixed Income	206,000	208.620	0.020%
JNLJPMorgan Global Allocation Fund	Calpine Corporation	2/15/2028	4.50	Fixed Income	1,271,000	1,248.107	0.121%
JNLJPMorgan Global Allocation Fund	Archrock Partners, L.P.	4/1/2028	6.25	Fixed Income	229,000	237.232	0.023%
JNLJPMorgan Global Allocation Fund	Saudi Arabian Oil Company			Equity	24,694	178.472	0.017%
JNLJPMorgan Global Allocation Fund	Calpine Corporation	3/15/2028	5.13	Fixed Income	553,000	546.202	0.053%
JNLJPMorgan Global Allocation Fund	Transocean Inc.	2/1/2027	8.00	Fixed Income	152,000	153.949	0.015%
JNLJPMorgan Global Allocation Fund	Alina Financing S.A.	11/15/2027	5.00	Fixed Income	250,000	214.063	0.021%
JNLJPMorgan Global Allocation Fund	Avolon Holdings Funding Limited	11/15/2027	3.25	Fixed Income	700,000	677.766	0.066%
JNLJPMorgan Global Allocation Fund	Nationstar Mortgage Holdings Inc.	1/15/2028	6.00	Fixed Income	1,137,000	1,151.225	0.112%
JNLJPMorgan Global Allocation Fund	Ladder Capital Finance Holdings LLP	2/1/2027	4.25	Fixed Income	1,286,000	1,262.749	0.123%
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	8/15/2050		Fixed Income	750,936	447.953	0.044%
JNLJPMorgan Global Allocation Fund	Prime Security Services Borrower, LLC	1/15/2028	6.25	Fixed Income	815,000	825.847	0.081%
JNLJPMorgan Global Allocation Fund	Cargo Aircraft Management, Inc.	2/1/2038	4.75	Fixed Income	975,000	1042.544	0.092%
JNLJPMorgan Global Allocation Fund	Naviant Corporation	3/15/2027	5.00	Fixed Income	125,000	124.204	0.012%
JNLJPMorgan Global Allocation Fund	Corporation De Securite Garda World	2/15/2027	4.63	Fixed Income	155,000	153.102	0.015%
JNLJPMorgan Global Allocation Fund	Station Casinos LLC	2/15/2028	4.50	Fixed Income	1,030,000	1,000.798	0.097%
JNLJPMorgan Global Allocation Fund	Dealer Tire, LLC	7/1/2028	8.00	Fixed Income	256,000	259.233	0.025%
JNLJPMorgan Global Allocation Fund	PTC Inc.	2/15/2028	4.00	Fixed Income	248,000	241.965	0.024%
JNLJPMorgan Global Allocation Fund	Osac Holdings, Inc.	3/1/2028	6.25	Fixed Income	248,000	244.464	0.024%
JNLJPMorgan Global Allocation Fund	Lifepoint Health, Inc.	2/15/2027	4.38	Fixed Income	995,000	981.176	0.095%
JNLJPMorgan Global Allocation Fund	Buckeye Partners, L.P.	3/1/2028	4.50	Fixed Income	454,000	442.048	0.043%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	11/25/2029		Fixed Income	45,000	44.111	0.004%
JNLJPMorgan Global Allocation Fund	Zayo Group Holdings, Inc.	3/1/2027	4.00	Fixed Income	1,433,000	1,283.973	0.125%
JNLJPMorgan Global Allocation Fund	Zayo Group Holdings, Inc.	3/1/2028	6.13	Fixed Income	594,000	496.044	0.048%
JNLJPMorgan Global Allocation Fund	Seabody, Inc.	10/15/2027	7.38	Fixed Income	1,051,000	1,037.269	0.101%
JNLJPMorgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2050	1.70	Fixed Income	482,000	387.404	0.038%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2050	1.50	Fixed Income	110,000	82.615	0.008%
JNLJPMorgan Global Allocation Fund	Intersoll Rand Inc.			Equity	3,282	322.161	0.031%
JNLJPMorgan Global Allocation Fund	Trane Technologies Public Limited Company			Equity	1,502	583.872	0.057%
JNLJPMorgan Global Allocation Fund	kaoh Enterprises L.P.	5/15/2027	5.25	Fixed Income	722,000	706.214	0.069%
JNLJPMorgan Global Allocation Fund	AON Public Limited Company			Equity	9,994	3,457.824	0.336%
JNLJPMorgan Global Allocation Fund	Fincoabank Banca Finco S.P.A.			Equity	763	13.100	0.001%
JNLJPMorgan Global Allocation Fund	Carrier Global Corporation			Equity	4,215	339.255	0.033%
JNLJPMorgan Global Allocation Fund	RTX Corporation			Equity	1,152	139.576	0.014%
JNLJPMorgan Global Allocation Fund	Otis Worldwide Corporation			Equity	69,653	7,239.733	0.703%
JNLJPMorgan Global Allocation Fund	Grupo Aeroportuario del Sureste, S.A.B. de C.V.			Equity	814	230.167	0.022%
JNLJPMorgan Global Allocation Fund	Hilton Domestic Operating Company Inc.	5/2/2028	5.75	Fixed Income	514,000	529.616	0.051%
JNLJPMorgan Global Allocation Fund	Griffon Corporation	3/1/2028	5.75	Fixed Income	1,041,000	1,031.673	0.100%
JNLJPMorgan Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	4/27/2032	4.75	Fixed Income	395,000	388.566	0.038%
JNLJPMorgan Global Allocation Fund	HAL Trust			Equity	44	5.810	0.001%
JNLJPMorgan Global Allocation Fund	Sofina			Equity	18	5.095	0.000%
JNLJPMorgan Global Allocation Fund	Kongberg Gruppen ASA			Equity	107	10.487	0.001%
JNLJPMorgan Global Allocation Fund	Teva Pharmaceutical Industries Ltd			Equity	1,398	25.143	0.002%
JNLJPMorgan Global Allocation Fund	Reece Limited			Equity	450	8.902	0.001%
JNLJPMorgan Global Allocation Fund	PTT Exploration And Production Public Company Limited			Equity	46,200	188.183	0.018%
JNLJPMorgan Global Allocation Fund	Aktiebolaget Industrivarlden			Equity	19	5.878	0.001%
JNLJPMorgan Global Allocation Fund	Essity Aktiebolag (publ)			Equity	28	8.75	0.000%
JNLJPMorgan Global Allocation Fund	argenx SE			Equity	73	39.	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJP Morgan Global Allocation Fund	Aktiebolaget SKF			Equity	17	340	0.000%
JNLJP Morgan Global Allocation Fund	Svenstka Cellulosa Aktiebolaget SCA			Equity	23	234	0.000%
JNLJP Morgan Global Allocation Fund	Publichnoe Aktsionnoe Obshchestvo Severstal			Equity	15,486	0	0.000%
JNLJP Morgan Global Allocation Fund	Vertin Holdings Co			Equity	2,416	240,368	0.023%
JNLJP Morgan Global Allocation Fund	Owens-Brockway Glass Container Inc.	5/13/2027	6.63	Fixed Income	426,000	438,822	0.043%
JNLJP Morgan Global Allocation Fund	Staat der Nederlanden	1/15/2040	0.50	Fixed Income	515,000	421,385	0.041%
JNLJP Morgan Global Allocation Fund	Amptel Limited			Equity	286	6,050	0.001%
JNLJP Morgan Global Allocation Fund	Cushman & Wakefield U.S. Borrower, LLC	5/15/2028	6.75	Fixed Income	977,000	1,011,169	0.088%
JNLJP Morgan Global Allocation Fund	Edgewell Personal Care Colombia S A S	6/1/2028	5.50	Fixed Income	369,000	373,457	0.036%
JNLJP Morgan Global Allocation Fund	Molina Healthcare, Inc.	6/15/2028	4.38	Fixed Income	877,000	863,898	0.084%
JNLJP Morgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2050	0.40	Fixed Income	58,340,000	263,349	0.028%
JNLJP Morgan Global Allocation Fund	Chacha Food Company, Limited			Equity	25,800	122,108	0.012%
JNLJP Morgan Global Allocation Fund	JDE Peet's N.V.	6/15/2028		Equity	146	3,044	0.000%
JNLJP Morgan Global Allocation Fund	Wesco Distribution, Inc.	6/15/2028	7.25	Fixed Income	1,057,000	1,104,812	0.107%
JNLJP Morgan Global Allocation Fund	Avast! Coating Systems, LLC	7/14/2025	2.63	Fixed Income	1,774,000	779,499	0.076%
JNLJP Morgan Global Allocation Fund	Univision Communications Inc.	6/1/2027	6.63	Fixed Income	1,205,000	1,235,291	0.120%
JNLJP Morgan Global Allocation Fund	NetEase, Inc.			Equity	20,900	386,206	0.038%
JNLJP Morgan Global Allocation Fund	TransDigm Inc.	11/15/2027	5.50	Fixed Income	1,247,000	1,268,719	0.123%
JNLJP Morgan Global Allocation Fund	EQM Midstream Partners, LP	7/1/2027	6.50	Fixed Income	431,000	449,821	0.044%
JNLJP Morgan Global Allocation Fund	Cleveland-Cliffs Inc.	6/1/2027	5.88	Fixed Income	758,000	774,256	0.075%
JNLJP Morgan Global Allocation Fund	Energizer Holdings, Inc.	6/15/2028	4.75	Fixed Income	308,000	303,497	0.029%
JNLJP Morgan Global Allocation Fund	Iron Mountain Incorporated	7/15/2028	5.00	Fixed Income	786,000	783,571	0.076%
JNLJP Morgan Global Allocation Fund	PG&E Corporation	7/1/2028	5.00	Fixed Income	586,000	588,550	0.057%
JNLJP Morgan Global Allocation Fund	Eldorado Resorts, Inc.	7/1/2027	8.13	Fixed Income	1,159,000	1,207,050	0.117%
JNLJP Morgan Global Allocation Fund	Comscope, LLC.	7/1/2028	7.13	Fixed Income	117,000	99,043	0.010%
JNLJP Morgan Global Allocation Fund	Qatar, The Amir Diwan of The State of	4/16/2025	3.40	Fixed Income	1,180,000	1,190,094	0.116%
JNLJP Morgan Global Allocation Fund	Estrade Espanol	10/31/2030	1.25	Fixed Income	620,000	648,285	0.063%
JNLJP Morgan Global Allocation Fund	TPG Corporation Limited			Equity	512	1,774	0.000%
JNLJP Morgan Global Allocation Fund	TK Elevator U.S. Newco, Inc.	7/15/2027	5.25	Fixed Income	306,000	306,248	0.030%
JNLJP Morgan Global Allocation Fund	Willcott Holdings Corporation			Equity	2,787	104,791	0.010%
JNLJP Morgan Global Allocation Fund	AB Sagas			Equity	265	7,549	0.001%
JNLJP Morgan Global Allocation Fund	Davide Campan-Milano N.V.			Equity	5,846	5,846	0.001%
JNLJP Morgan Global Allocation Fund	Avantor, Inc.	7/15/2028	4.63	Fixed Income	808,000	797,941	0.078%
JNLJP Morgan Global Allocation Fund	Saudi Arabia, Kingdom of	10/22/2025	2.90	Fixed Income	1,060,000	1,056,413	0.103%
JNLJP Morgan Global Allocation Fund	Inter-American Development Bank	1/26/2026	4.40	Fixed Income	490,000	370,648	0.036%
JNLJP Morgan Global Allocation Fund	KW	9/11/2026	3.20	Fixed Income	880,000	890,000	0.088%
JNLJP Morgan Global Allocation Fund	RHP Hotel Properties, LP	10/15/2027	4.75	Fixed Income	92,000	92,806	0.009%
JNLJP Morgan Global Allocation Fund	Dexia	10/27/2025	1.25	Fixed Income	1,000,000	1,108,877	0.108%
JNLJP Morgan Global Allocation Fund	Development Bank of Japan Inc.	10/10/2025	0.88	Fixed Income	960,000	1,056,949	0.103%
JNLJP Morgan Global Allocation Fund	Export-Import Bank of Korea, The	5/26/2026	2.63	Fixed Income	1,053,000	1,033,499	0.100%
JNLJP Morgan Global Allocation Fund	Yemasek Financial (I) Limited	8/1/2028	3.63	Fixed Income	250,000	249,625	0.024%
JNLJP Morgan Global Allocation Fund	Silgan Holdings Inc.	2/1/2028	4.13	Fixed Income	283,000	281,863	0.027%
JNLJP Morgan Global Allocation Fund	Travel + Leisure Co.	7/31/2026	6.63	Fixed Income	429,000	441,755	0.043%
JNLJP Morgan Global Allocation Fund	Cabine Corporation	2/1/2029	4.63	Fixed Income	289,000	293,000	0.027%
JNLJP Morgan Global Allocation Fund	El Paso Electric Company			Equity	789	9,473	0.001%
JNLJP Morgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	7/1/2025	1.85	Fixed Income	3,000	3,331	0.000%
JNLJP Morgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2030	0.10	Fixed Income	3,000	2,937	0.000%
JNLJP Morgan Global Allocation Fund	Group 1 Automotive, Inc.	8/15/2028	4.00	Fixed Income	985,000	989,211	0.094%
JNLJP Morgan Global Allocation Fund	Nationstar Mortgage Holdings Inc.	8/15/2028	5.50	Fixed Income	562,000	560,727	0.054%
JNLJP Morgan Global Allocation Fund	Element Solutions Inc.	9/1/2028	3.88	Fixed Income	473,000	452,281	0.044%
JNLJP Morgan Global Allocation Fund	Harvest Midstream L L P	9/1/2028	7.50	Fixed Income	689,000	709,025	0.069%
JNLJP Morgan Global Allocation Fund	Prime Security Services Borrower, LLC	8/13/2027	3.38	Fixed Income	994,000	956,417	0.093%
JNLJP Morgan Global Allocation Fund	Bunge Limited Finance Corp.	8/1/2025	1.63	Fixed Income	125,000	121,979	0.012%
JNLJP Morgan Global Allocation Fund	XHR LP	8/15/2025	6.38	Fixed Income	208,000	209,727	0.020%
JNLJP Morgan Global Allocation Fund	Williams Scotsman International, Inc.	8/15/2028	4.63	Fixed Income	616,000	602,569	0.059%
JNLJP Morgan Global Allocation Fund	Windstream Escrow, LLC	8/15/2028	7.75	Fixed Income	675,000	684,056	0.066%
JNLJP Morgan Global Allocation Fund	Salway Inc.	3/15/2025	3.50	Fixed Income	1,575,000	1,190,038	0.116%
JNLJP Morgan Global Allocation Fund	FirstCash, Inc.	9/1/2028	4.63	Fixed Income	741,000	718,391	0.070%
JNLJP Morgan Global Allocation Fund	Worley Limited			Equity	440	4,586	0.000%
JNLJP Morgan Global Allocation Fund	Asahi Intec Co., Ltd.			Equity	300	5,266	0.001%
JNLJP Morgan Global Allocation Fund	MonettaRO Co., Ltd.			Equity	300	4,898	0.000%
JNLJP Morgan Global Allocation Fund	SalMar ASA			Equity	94	4,934	0.000%
JNLJP Morgan Global Allocation Fund	Indutrade Aktiebolag			Equity	331	10,304	0.001%
JNLJP Morgan Global Allocation Fund	Regional, S.A.B. De C.V.			Equity	14,205	82,438	0.008%
JNLJP Morgan Global Allocation Fund	Spirax Group PLC			Equity	93	9,316	0.000%
JNLJP Morgan Global Allocation Fund	Evraz PLC			Equity	1,158	0	0.000%
JNLJP Morgan Global Allocation Fund	Pinduduo (Shanghai) Network Technology Co., Ltd.			Equity	4,183	563,910	0.055%
JNLJP Morgan Global Allocation Fund	Versus USA Inc.	9/1/2025	7.50	Fixed Income	410,000	387,162	0.038%
JNLJP Morgan Global Allocation Fund	KE Holdings Inc.			Equity	6,263	6,243,637	0.012%
JNLJP Morgan Global Allocation Fund	ANGI Group, LLC	8/15/2028	3.88	Fixed Income	504,000	464,797	0.045%
JNLJP Morgan Global Allocation Fund	Santander UK Group Holdings PLC	8/21/2026	1.53	Fixed Income	200,000	194,352	0.019%
JNLJP Morgan Global Allocation Fund	Bovd Gaming Corporation	12/1/2027	4.75	Fixed Income	495,000	498,104	0.048%
JNLJP Morgan Global Allocation Fund	On Semiconductor Corporation	9/1/2028	6.75	Fixed Income	988,000	954,623	0.093%
JNLJP Morgan Global Allocation Fund	New Fortress Energy Inc.	9/15/2025	3.65	Fixed Income	1,301,000	1,246,949	0.121%
JNLJP Morgan Global Allocation Fund	Pike Corporation	9/1/2028	5.50	Fixed Income	341,000	335,367	0.033%
JNLJP Morgan Global Allocation Fund	Halma Public Limited Company			Equity	475	16,608	0.002%
JNLJP Morgan Global Allocation Fund	Storebrand ASA			Equity	553	6,084	0.001%
JNLJP Morgan Global Allocation Fund	Spirit Airlines, Inc.	9/20/2025	8.00	Fixed Income	463,000	261,251	0.025%
JNLJP Morgan Global Allocation Fund	The Republic of Korea, Government of	9/16/2025		Fixed Income	490,000	528,954	0.051%
JNLJP Morgan Global Allocation Fund	NuStar Logistics, L.P.	10/1/2025	5.75	Fixed Income	889,000	915,133	0.089%
JNLJP Morgan Global Allocation Fund	Rocket Mortgage, LLC	3/1/2028	6.63	Fixed Income	605,000	573,887	0.056%
JNLJP Morgan Global Allocation Fund	Rackade Holdings LLC	9/15/2025	4.50	Fixed Income	1,000,000	1,055,365	0.083%
JNLJP Morgan Global Allocation Fund	Export-Import Bank of Korea, The	9/21/2025	0.75	Fixed Income	1,618,000	1,562,019	0.152%
JNLJP Morgan Global Allocation Fund	Park Intermediate Holdings LLC	10/1/2028	5.88	Fixed Income	661,000	679,084	0.066%
JNLJP Morgan Global Allocation Fund	Nexstar Media Group, Inc.	11/1/2028	4.75	Fixed Income	141,000	137,307	0.013%
JNLJP Morgan Global Allocation Fund	Snowflake Inc.			Equity	924	1,08,131	0.010%
JNLJP Morgan Global Allocation Fund	Methanex Corporation	10/15/2027	5.13	Fixed Income	106,000	107,383	0.010%
JNLJP Morgan Global Allocation Fund	Reynolds Group Issuer Inc.	10/15/2027	4.00	Fixed Income	1,037,000	1,017,131	0.099%
JNLJP Morgan Global Allocation Fund	Energizer Holdings, Inc.	3/31/2029	4.38	Fixed Income	1,064,000	1,007,942	0.088%
JNLJP Morgan Global Allocation Fund	Consolidated Communications, Inc.	10/1/2028	6.50	Fixed Income	1,036,000	1,036,000	0.098%
JNLJP Morgan Global Allocation Fund	Staat der Nederlanden	1/15/2052		Fixed Income	216,000	118,753	0.012%
JNLJP Morgan Global Allocation Fund	GCI, LLC	10/15/2028	4.75	Fixed Income	965,000	947,724	0.092%
JNLJP Morgan Global Allocation Fund	Pennymac Financial Services, Inc.	10/15/2025	5.38	Fixed Income	611,000	625,511	0.061%
JNLJP Morgan Global Allocation Fund	Siemens Energy AG			Equity	634	23,377	0.002%
JNLJP Morgan Global Allocation Fund	Allegru spA			Equity	771	6,963	0.001%
JNLJP Morgan Global Allocation Fund	DISH DBS Corporation	7/1/2028	7.38	Fixed Income	1,214,000	929,533	0.090%
JNLJP Morgan Global Allocation Fund	Commonwealth of Australia	5/21/2041	2.75	Fixed Income	60,000	34,023	0.003%
JNLJP Morgan Global Allocation Fund	Frontier Communications Parent, Inc.	10/15/2027	5.88	Fixed Income	932,000	981,028	0.093%
JNLJP Morgan Global Allocation Fund	TIM S.A.			Equity	68,077	238,484	0.023%
JNLJP Morgan Global Allocation Fund	Treasury, United States Department of	1/31/2025	4.13	Fixed Income	10,123,000	10,174,371	0.988%
JNLJP Morgan Global Allocation Fund	KW	3/31/2027		Fixed Income	2,360,000	2,482,835	0.241%
JNLJP Morgan Global Allocation Fund	Gouvernement De France	11/25/2052	2.00	Fixed Income	1,060,000	2,099,290	0.204%
JNLJP Morgan Global Allocation Fund	Uniti Group Inc.	3/1/2028	10.50	Fixed Income	1,193,000	1,279,005	0.124%
JNLJP Morgan Global Allocation Fund	Safeway Inc.	2/15/2028	6.50	Fixed Income	37,000	37,978	0.004%
JNLJP Morgan Global Allocation Fund	Alliant Holdings Intermediate, LLC	4/1/2028	6.75	Fixed Income	1,019,000	1,067,087	0.104%
JNLJP Morgan Global Allocation Fund	American Airlines, Inc.	2/15/2028	7.25	Fixed Income	1,124,000	1,148,629	0.113%
JNLJP Morgan Global Allocation Fund	TransDigm Inc.	8/15/2028	6.75	Fixed Income	1,201,000	1,247,626	0.121%
JNLJP Morgan Global Allocation Fund	Mausser Packaging Solutions Holding Company	4/15/2027	9.25	Fixed Income	351,000	375,097	0.036%
JNLJP Morgan Global Allocation Fund	Estado Espanol	7/30/2039	3.90	Fixed Income	520,000	622,413	0.060%
JNLJP Morgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2039	0.40	Fixed Income	6,950,000	42,437	0.004%
JNLJP Morgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2039	0.30	Fixed Income	18,850,000	112,781	0.011%
JNLJP Morgan Global Allocation Fund	Edison International	6/15/2053	8.13	Fixed Income	328,000	352,264	0.034%
JNLJP Morgan Global Allocation Fund	Linde Public Limited Company			Equity	2,168	1,033,051	0.100%
JNLJP Morgan Global Allocation Fund	Credit Suisse Group AG	3/1/2029	7.75	Fixed Income	550,000	728,059	0.071%
JNLJP Morgan Global Allocation Fund	América Móvil, S.A.B. De C.V.			Equity	150,601	123,525	0.012%
JNLJP Morgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2033	1.70	Fixed Income	129,550,000	978,205	0.095%
JNLJP Morgan Global Allocation Fund	Enlink Midstream, LLC	9/1/2030	6.50	Fixed Income	200,000	216,618	0.021%
JNLJP Morgan Global Allocation Fund	Matador Resources Company	4/15/2028	6.88	Fixed Income	158,000	165,618	0.016%
JNLJP Morgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2033	1.10	Fixed Income	26,900,000	193,016	0.019%
JNLJP Morgan Global Allocation Fund	Triumph Group, Inc.	3/15/2028	9.00	Fixed Income	931,000	978,193	0.095%
JNLJP Morgan Global Allocation Fund	SGS SA			Equity	184	20,545	0.002%
JNLJP Morgan Global Allocation Fund	Canadian Pacific Kansas City Limited			Equity	7,600	651,067	0.063%
JNLJP Morgan Global Allocation Fund	Ontario Teachers' Finance Trust	4/25/2028	4.25	Fixed Income	1,067,000	1,100,193	0.107%
JNLJP Morgan Global Allocation Fund	Melrose Industries PLC			Equity	1,499	9,162	0.001%
JNLJP Morgan Global Allocation Fund	Claros Global LP	5/15/2028	6.75	Fixed Income	1,017,000	1,074,299	0.104%
JNLJP Morgan Global Allocation Fund	HM Treasury	1/31/2033	3.25	Fixed Income	235,000	301,168	0.029%
JNLJP Morgan Global Allocation Fund	DSM Firmenich AG			Equity	218	38,386	0.004%
JNLJP Morgan Global Allocation Fund	Federal Home Loan Mortgage Corporation	1/1/2053	6.00	Fixed Income	846,358	872,376	0.085%
JNLJP Morgan Global Allocation Fund	Kenvue Inc.			Equity	2,528	58,473	0.006%
JNLJP Morgan Global Allocation Fund	Equipmentshare Com Inc	5/15/2028	9.00	Fixed Income	1,121,000	1,209,233	0.117%
JNLJP Morgan Global Allocation Fund	Heartland Dental, LLC	4/30/2028		Fixed Income	831,000	1,034,604	0.100%
JNLJP Morgan Global Allocation Fund	Global Atlantic Financial Company	10/15/2025	4.75	Fixed Income	169,000	157,620	0.015%
JNLJP Morgan Global Allocation Fund	Ball Corporation	3/15/2028	6.88	Fixed Income	991,000	1,041,836	0.101%
JNLJP Morgan Global Allocation Fund	Boliden AB			Equity	341	11,547	0.001%
JNLJP Morgan Global Allocation Fund	Venture Global LNG, Inc.	6/1/2028	8.13	Fixed Income	1,193,000	1,276,013	0.124%
JNLJP Morgan Global Allocation Fund	Diamond Escrow Issuer, LLC	11/15/2028	9.75	Fixed Income	632,000	705,731	0.069%
JNLJP Morgan Global Allocation Fund	Adient Global Holdings Ltd	4/15/2028	7.00	Fixed Income	257,000	272,027	0.026%
JNLJP Morgan Global Allocation Fund	CSC Holdings, LLC	5/15/2028	11.25	Fixed Income	973,000	980,900	0.095%
JNLJP Morgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2033	0.50	Fixed Income	103,350,000	706,433	0.069%
JNLJP Morgan Global Allocation Fund	Ferrovial SE			Equity	609	21,124	0.002%
JNLJP Morgan Global Allocation Fund	OneMain Finance Corporation	1/15/2029	9.00	Fixed Income	219,000	236,202	0.023%
JNLJP Morgan Global Allocation Fund	Civitas Resources, Inc.	7/1/2028	8.38	Fixed Income	945,000	1,007,392	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Service Public Federal Chancellerie Du Premier Ministre	6/22/2071	0.65	Fixed Income	50,000	23,554	0.002%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	5/21/2030	2.50	Fixed Income	55,000	26,051	0.004%
JNLJPMorgan Global Allocation Fund	Staat der Nederlanden	7/15/2030	4.00	Fixed Income	30,000	29,457	0.003%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	10/30/2031	4.00	Fixed Income	1,600,000	1,926,412	0.187%
JNLJPMorgan Global Allocation Fund	Western Alliance Bancorporation	6/15/2031	3.00	Fixed Income	781,000	725,820	0.071%
JNLJPMorgan Global Allocation Fund	FTAI Infra Escrow Holdings, LLC	6/1/2027	10.50	Fixed Income	264,000	291,065	0.028%
JNLJPMorgan Global Allocation Fund	Midcap Financial Issuer Trust	5/1/2028	6.50	Fixed Income	561,000	559,245	0.054%
JNLJPMorgan Global Allocation Fund	AmeriGas Partners, L.P.	6/1/2028	9.38	Fixed Income	722,000	781,121	0.076%
JNLJPMorgan Global Allocation Fund	Univision Communications Inc.	8/15/2028	8.00	Fixed Income	584,000	603,234	0.059%
JNLJPMorgan Global Allocation Fund	Freedom Mortgage Corporation	5/1/2026	7.63	Fixed Income	1,108,000	1,153,935	0.112%
JNLJPMorgan Global Allocation Fund	Freedom Mortgage Corporation	11/15/2027	6.63	Fixed Income	810,000	823,079	0.080%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2046	0.30	Fixed Income	205,000,000	1,043,659	0.101%
JNLJPMorgan Global Allocation Fund	Central Parent Inc.	6/15/2029	8.00	Fixed Income	578,000	614,965	0.060%
JNLJPMorgan Global Allocation Fund	Crescent Energy Finance LLC	2/15/2028	9.25	Fixed Income	549,000	579,780	0.056%
JNLJPMorgan Global Allocation Fund	Sirius XM Radio Inc.	1/15/2029	1.00	Fixed Income	1,377,000	1,310,917	0.127%
JNLJPMorgan Global Allocation Fund	Clear Channel Outdoor Holdings, Inc.	9/15/2028	9.00	Fixed Income	572,000	610,386	0.059%
JNLJPMorgan Global Allocation Fund	CineMark USA, Inc.	7/15/2028	5.25	Fixed Income	577,000	573,698	0.056%
JNLJPMorgan Global Allocation Fund	Sagcor Financial Corporation Limited	5/1/2028	5.30	Fixed Income	473,000	478,219	0.046%
JNLJPMorgan Global Allocation Fund	Tennessco Inc.	11/1/2028	8.00	Fixed Income	1,403,000	1,310,685	0.127%
JNLJPMorgan Global Allocation Fund	Huntington Bancshares Incorporated	8/21/2029	6.21	Fixed Income	450,000	479,064	0.047%
JNLJPMorgan Global Allocation Fund	SM Entertainment Co., Ltd.	7/15/2028	Equity	2,257	115,584	0.011%	
JNLJPMorgan Global Allocation Fund	Sabre GLBL Inc.	6/1/2027	8.63	Fixed Income	1,200,000	1,189,432	0.116%
JNLJPMorgan Global Allocation Fund	KW	5/29/2026	2.88	Fixed Income	750,000	850,003	0.083%
JNLJPMorgan Global Allocation Fund	U.S. Foods Inc.	9/15/2028	6.88	Fixed Income	487,000	509,179	0.049%
JNLJPMorgan Global Allocation Fund	Novo Nordisk A/S	Equity	50,349	5,966,393	0.580%		
JNLJPMorgan Global Allocation Fund	Bausch + Lomb Corporation	10/1/2028	8.38	Fixed Income	1,085,000	1,193,079	0.116%
JNLJPMorgan Global Allocation Fund	AngloGold Ashanti PLC	Equity	1,895	1,301,773	0.128%		
JNLJPMorgan Global Allocation Fund	Solo Royalties Operating Partnership, LP	11/1/2028	7.88	Fixed Income	293,000	316,061	0.031%
JNLJPMorgan Global Allocation Fund	AmeriTex HoldCo Intermediate LLC	10/15/2028	10.25	Fixed Income	405,000	442,637	0.043%
JNLJPMorgan Global Allocation Fund	Sampo Oyj	Equity	653	30,457	0.003%		
JNLJPMorgan Global Allocation Fund	Aegion Ltd.	Equity	1,588	10,672	0.001%		
JNLJPMorgan Global Allocation Fund	Kyoto Financial Group, Inc.	Equity	400	6,261	0.001%		
JNLJPMorgan Global Allocation Fund	Sandoz Group AG	Equity	493	20,572	0.002%		
JNLJPMorgan Global Allocation Fund	Niagara Mohawk Power Corporation	10/1/2024	3.51	Fixed Income	726,000	738,734	0.072%
JNLJPMorgan Global Allocation Fund	Suncor LP	9/15/2028	7.00	Fixed Income	248,000	258,212	0.025%
JNLJPMorgan Global Allocation Fund	Venture Global LNG, Inc.	2/1/2027	9.50	Fixed Income	1,137,000	1,129,000	0.109%
JNLJPMorgan Global Allocation Fund	HM Treasury	10/22/2053	3.75	Fixed Income	55,000	65,127	0.006%
JNLJPMorgan Global Allocation Fund	Tenaris S.A.	Equity	485	7,691	0.001%		
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	8/15/2052	Fixed Income	80,000	45,507	0.004%	
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	12/1/2028	1.25	Fixed Income	785,000	799,894	0.081%
JNLJPMorgan Global Allocation Fund	Canada, Government of	12/1/2055	2.75	Fixed Income	390,000	268,700	0.026%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	4/1/2031	0.90	Fixed Income	200,000	196,808	0.019%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	12/20/2038	0.50	Fixed Income	6,500,000	40,521	0.004%
JNLJPMorgan Global Allocation Fund	KW	10/10/2028	3.13	Fixed Income	780,000	862,123	0.084%
JNLJPMorgan Global Allocation Fund	Jefferies Finance LLC	9/15/2028	5.00	Fixed Income	1,176,000	1,126,626	0.109%
JNLJPMorgan Global Allocation Fund	B&G Foods, Inc.	9/15/2028	8.00	Fixed Income	613,000	643,219	0.062%
JNLJPMorgan Global Allocation Fund	American Airlines, Inc.	5/15/2029	8.50	Fixed Income	1,108,000	1,210,382	0.118%
JNLJPMorgan Global Allocation Fund	Sandoz-Palata	5/12/2033	5.38	Fixed Income	100,000	119,865	0.012%
JNLJPMorgan Global Allocation Fund	Sandoz-Palata	6/5/2035	1.75	Fixed Income	100,000	87,696	0.009%
JNLJPMorgan Global Allocation Fund	Gobierno Federal de los Estados Unidos Mexicanos	9/27/2034	6.75	Fixed Income	550,000	596,325	0.058%
JNLJPMorgan Global Allocation Fund	Charter Communications Operating, LLC	2/1/2034	6.65	Fixed Income	50,000	52,918	0.005%
JNLJPMorgan Global Allocation Fund	CWT Travel Group Incorporated	Equity	1,115	9,903	0.001%		
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	8/15/2053	1.80	Fixed Income	450,000	434,855	0.042%
JNLJPMorgan Global Allocation Fund	HM Treasury	1/31/2029	0.50	Fixed Income	1,900,000	2,218,215	0.215%
JNLJPMorgan Global Allocation Fund	Kinekt Holdings LP	12/15/2028	6.63	Fixed Income	750,000	793,665	0.077%
JNLJPMorgan Global Allocation Fund	MexErga Energy Operating Partners, LP	11/15/2029	7.25	Fixed Income	100,000	84,485	0.008%
JNLJPMorgan Global Allocation Fund	Credit Acceptance Corporation	12/15/2028	9.25	Fixed Income	178,000	193,125	0.019%
JNLJPMorgan Global Allocation Fund	Estado Espanol	10/31/2033	3.55	Fixed Income	1,013,000	1,228,069	0.119%
JNLJPMorgan Global Allocation Fund	CVR Energy, Inc.	1/15/2029	8.50	Fixed Income	554,000	566,548	0.055%
JNLJPMorgan Global Allocation Fund	Svenskt	Equity	90	7,420	0.001%		
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	11/15/2027	0.85	Fixed Income	20,000	21,538	0.002%
JNLJPMorgan Global Allocation Fund	CG Power and Industrial Solutions Limited	Equity	12,888	117,526	0.011%		
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2041	2.20	Fixed Income	21,050,000	161,433	0.016%
JNLJPMorgan Global Allocation Fund	Tallgrass Energy Partners, LP	2/15/2029	7.38	Fixed Income	955,000	974,543	0.095%
JNLJPMorgan Global Allocation Fund	Malindrooth International Finance S.A.	11/14/2028	14.75	Fixed Income	952,000	1,099,984	0.106%
JNLJPMorgan Global Allocation Fund	Labl Inc.	11/1/2028	5.00	Fixed Income	240,506	240,506	0.023%
JNLJPMorgan Global Allocation Fund	CSC Holdings, LLC	1/31/2029	11.75	Fixed Income	1,007,000	991,883	0.096%
JNLJPMorgan Global Allocation Fund	KEHE Distributors, LLC	2/15/2029	9.00	Fixed Income	986,000	1,037,094	0.101%
JNLJPMorgan Global Allocation Fund	Freedom Mortgage Corporation	2/1/2029	3.13	Fixed Income	238,000	251,249	0.024%
JNLJPMorgan Global Allocation Fund	NGL Energy Operating LLC	2/15/2029	8.13	Fixed Income	414,000	428,799	0.042%
JNLJPMorgan Global Allocation Fund	Mondi PLC	Equity	546	10,398	0.001%		
JNLJPMorgan Global Allocation Fund	Daqin N.V.	Equity	275	12,442	0.001%		
JNLJPMorgan Global Allocation Fund	Estado Espanol	7/9/2035	1.95	Fixed Income	240,000	240,113	0.023%
JNLJPMorgan Global Allocation Fund	Champions Financing Inc.	2/15/2029	8.75	Fixed Income	928,000	955,983	0.093%
JNLJPMorgan Global Allocation Fund	Hillensbrand, Inc.	2/15/2029	6.25	Fixed Income	827,000	849,230	0.082%
JNLJPMorgan Global Allocation Fund	Amw/Smith, Group, Inc.	2/15/2029	6.38	Fixed Income	28,000	28,898	0.003%
JNLJPMorgan Global Allocation Fund	TransDigm Inc.	3/1/2029	6.38	Fixed Income	1,228,000	1,274,055	0.124%
JNLJPMorgan Global Allocation Fund	AAR Escrow Issuer, LLC	3/15/2029	6.75	Fixed Income	511,000	532,845	0.052%
JNLJPMorgan Global Allocation Fund	The Cooper Companies, Inc.	Equity	2,570	283,574	0.028%		
JNLJPMorgan Global Allocation Fund	Westco Distribution, Inc.	3/15/2029	6.38	Fixed Income	413,000	427,982	0.042%
JNLJPMorgan Global Allocation Fund	Five Point Operating Company, LP	1/15/2028	18.00	Fixed Income	19,000	19,142	0.002%
JNLJPMorgan Global Allocation Fund	DeVry Limited	Equity	12,944	65,626	0.006%		
JNLJPMorgan Global Allocation Fund	Delek Logistics Partners, LP	3/15/2029	8.63	Fixed Income	944,000	997,467	0.097%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	4/1/2027	1.10	Fixed Income	40,000	43,349	0.004%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2054	3.00	Fixed Income	350,000	355,045	0.034%
JNLJPMorgan Global Allocation Fund	Estado Espanol	10/30/27	1.50	Fixed Income	10,980	10,980	0.001%
JNLJPMorgan Global Allocation Fund	Canada, Government of	3/1/2027	1.25	Fixed Income	250,000	178,514	0.017%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2055	0.80	Fixed Income	48,700,000	230,284	0.022%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	9/1/2035	3.35	Fixed Income	1,168,000	166,887	0.016%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	9/20/2040	2.00	Fixed Income	68,400,000	68,186	0.001%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	12/20/2043	1.70	Fixed Income	61,550,000	433,202	0.042%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2044	1.70	Fixed Income	60,400,000	422,313	0.041%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2043	1.80	Fixed Income	51,050,000	365,519	0.036%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2043	1.50	Fixed Income	58,800,000	428,026	0.042%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	6/20/2047	0.80	Fixed Income	10,350,000	58,082	0.006%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	9/20/2050	0.60	Fixed Income	56,950,000	284,744	0.028%
JNLJPMorgan Global Allocation Fund	USA Compression Finance Corp.	3/15/2029	7.13	Fixed Income	54,000	55,783	0.005%
JNLJPMorgan Global Allocation Fund	Goldman Sachs Bank USA	3/18/2027	5.79	Fixed Income	160,000	160,243	0.016%
JNLJPMorgan Global Allocation Fund	Stanwood Property Trust, Inc.	4/1/2029	7.25	Fixed Income	366,000	397,426	0.039%
JNLJPMorgan Global Allocation Fund	Encore Capital Group, Inc.	4/1/2029	9.25	Fixed Income	722,000	810,681	0.079%
JNLJPMorgan Global Allocation Fund	NCL Corporation Ltd.	1/15/2029	8.13	Fixed Income	497,000	539,443	0.052%
JNLJPMorgan Global Allocation Fund	Edgewell Personal Care Colombia S A S	4/1/2029	4.13	Fixed Income	252,000	243,987	0.024%
JNLJPMorgan Global Allocation Fund	Medline Borrower, Ltd.	4/1/2029	6.25	Fixed Income	1,113,000	1,183,293	0.115%
JNLJPMorgan Global Allocation Fund	Galearia Group AG	Equity	66	6,156	0.001%		
JNLJPMorgan Global Allocation Fund	Corpay Inc.	Equity	1,061	331,838	0.032%		
JNLJPMorgan Global Allocation Fund	Level 3 Financing, Inc.	4/15/2029	10.50	Fixed Income	1,156,000	1,274,994	0.124%
JNLJPMorgan Global Allocation Fund	AMC Networks, Inc.	11/15/2029	10.25	Fixed Income	1,259,000	1,323,726	0.129%
JNLJPMorgan Global Allocation Fund	Phinia Inc.	4/15/2029	6.75	Fixed Income	667,000	709,508	0.069%
JNLJPMorgan Global Allocation Fund	Estado Espanol	10/31/2054	4.00	Fixed Income	10,000	11,995	0.001%
JNLJPMorgan Global Allocation Fund	Newbold Digital Holdings Group, Inc.	10/15/2028	11.75	Fixed Income	1,090,000	1,133,456	0.110%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2031	1.00	Fixed Income	157,700,000	1,095,974	0.104%
JNLJPMorgan Global Allocation Fund	Staat der Nederlanden	7/15/2034	2.50	Fixed Income	50,000	56,266	0.005%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2050	0.50	Fixed Income	330,000	245,040	0.024%
JNLJPMorgan Global Allocation Fund	GE Vernova Inc.	Equity	412	105,116	0.010%		
JNLJPMorgan Global Allocation Fund	Herbalife International, Inc.	4/15/2029	12.25	Fixed Income	1,114,000	1,175,404	0.114%
JNLJPMorgan Global Allocation Fund	Volvo Cars AB	Equity	722	1,987	0.000%		
JNLJPMorgan Global Allocation Fund	Commission De L'union Europeenne - Commissee Van De Europese Unie	3/4/2053	3.00	Fixed Income	238,434	254,417	0.025%
JNLJPMorgan Global Allocation Fund	Mausser Packaging Solutions Holding Company	4/15/2027	7.88	Fixed Income	1,216,000	1,269,766	0.123%
JNLJPMorgan Global Allocation Fund	Rocket Software, Inc.	11/28/2028	9.00	Fixed Income	1,189,000	1,289,453	0.125%
JNLJPMorgan Global Allocation Fund	The Necessity Retail REIT, Inc.	9/30/2028	4.50	Fixed Income	949,000	891,621	0.087%
JNLJPMorgan Global Allocation Fund	Suncor LP	5/1/2029	7.00	Fixed Income	111,000	119,291	0.012%
JNLJPMorgan Global Allocation Fund	Svenska Handelsbanken AB	4/22/2025	Cash Equivalent	250,000	243,855	0.024%	
JNLJPMorgan Global Allocation Fund	CVC Capital Partners PLC	Equity	770	7,251	0.002%		
JNLJPMorgan Global Allocation Fund	U.S. Acute Care Solutions, LLC	5/15/2029	9.75	Fixed Income	1,009,000	1,083,887	0.105%
JNLJPMorgan Global Allocation Fund	Estado Espanol	5/31/2027	2.50	Fixed Income	20,000	22,538	0.002%
JNLJPMorgan Global Allocation Fund	Canada, Government of	6/1/2027	1.00	Fixed Income	190,000	134,948	0.013%
JNLJPMorgan Global Allocation Fund	Zoomlink Technologies LLC	2/1/2029	3.88	Fixed Income	518,000	581,978	0.057%
JNLJPMorgan Global Allocation Fund	Commonwealth of Australia	4/21/2029	3.25	Fixed Income	200,000	138,150	0.013%
JNLJPMorgan Global Allocation Fund	Estado Espanol	7/30/2029	0.80	Fixed Income	30,000	30,961	0.003%
JNLJPMorgan Global Allocation Fund	Segretariato Generale Della Presidenza Della Repubblica	12/15/2029	3.85	Fixed Income	50,000	59,144	0.006%
JNLJPMorgan Global Allocation Fund	Danmarks Nationalbank	11/15/2033	2.25	Fixed Income	580,000	86,670	0.008%
JNLJPMorgan Global Allocation Fund	Simmons Foods, Inc.	3/1/2029	4.63	Fixed Income	748,000	712,470	0.069%
JNLJPMorgan Global Allocation Fund	Saah AB	Equity	440	9,383	0.001%		
JNLJPMorgan Global Allocation Fund	KW	8/5/2027	2.38	Fixed Income	400,000	448,220	0.044%
JNLJPMorgan Global Allocation Fund	Sandoz-Palata	10/24/2036	7.00	Fixed Income	409,200,000	1,305,279	0.127%
JNLJPMorgan Global Allocation Fund	Labcorp Holdings Inc.	Equity	1,095	244,711	0.024%		
JNLJPMorgan Global Allocation Fund	California Resources Corporation	6/15/2029	8.25	Fixed Income	437,000	457,291	0.044%
JNLJPMorgan Global Allocation Fund	Gray Television, Inc.	7/15/2029	10.50	Fixed Income	1,228,000	1,326,250	0.129%
JNLJPMorgan Global Allocation Fund	Crompton Greaves Consumer Electricals Limited	Equity	27,115	135,214	0.013%		
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Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Global Allocation Fund	Danske Bank A/S	11/9/2028	4.50	Fixed Income	600,000	721,925	0.070%
JNLJPMorgan Global Allocation Fund	Woolworths Group Limited	11/15/2028	0.00	Fixed Income	750,000	114,254	0.072%
JNLJPMorgan Global Allocation Fund	Vieria Finance B.V.	9/24/2028	1.00	Fixed Income	750,000	768,258	0.075%
JNLJPMorgan Global Allocation Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.	2/16/2029	4.45	Fixed Income	650,000	771,642	0.075%
JNLJPMorgan Global Allocation Fund	Societe Generale	6/12/2029	0.50	Fixed Income	100,000	100,353	0.010%
JNLJPMorgan Global Allocation Fund	CreditBank, S.A.	7/19/2029	5.00	Fixed Income	600,000	716,403	0.070%
JNLJPMorgan Global Allocation Fund	Westlake Corporation	7/17/2029	1.63	Fixed Income	450,000	463,931	0.045%
JNLJPMorgan Global Allocation Fund	AIB Group Public Limited Company	7/23/2029	4.63	Fixed Income	600,000	707,028	0.069%
JNLJPMorgan Global Allocation Fund	WarnerMedia Holdings, Inc.	1/17/2030	4.30	Fixed Income	650,000	737,702	0.072%
JNLJPMorgan Global Allocation Fund	Calnet Finance PLC	3/19/2030	0.63	Fixed Income	400,000	387,383	0.038%
JNLJPMorgan Global Allocation Fund	Volkswagen International Finance N.V.	5/15/2030	4.38	Fixed Income	500,000	516,175	0.051%
JNLJPMorgan Global Allocation Fund	Vonovia SE	4/7/2030	2.25	Fixed Income	100,000	106,425	0.010%
JNLJPMorgan Global Allocation Fund	Goldman Sachs Group, Inc., The	1/21/2030	0.88	Fixed Income	350,000	348,894	0.034%
JNLJPMorgan Global Allocation Fund	TRATON Finance Luxembourg S.A.	3/27/2030	3.75	Fixed Income	600,000	663,809	0.066%
JNLJPMorgan Global Allocation Fund	Intesa Sanpaolo SPA	5/19/2030	4.88	Fixed Income	100,000	122,546	0.012%
JNLJPMorgan Global Allocation Fund	WPC Eurobond B.V.	6/1/2030	0.95	Fixed Income	100,000	97,655	0.009%
JNLJPMorgan Global Allocation Fund	Banco de Sabadell, S.A.	9/13/2030	4.25	Fixed Income	600,000	696,840	0.068%
JNLJPMorgan Global Allocation Fund	Realty Income Corporation	7/6/2030	4.88	Fixed Income	500,000	600,338	0.059%
JNLJPMorgan Global Allocation Fund	Vonovia SE	7/9/2030	1.00	Fixed Income	600,000	683,543	0.067%
JNLJPMorgan Global Allocation Fund	Societe Generale	12/6/2030	4.25	Fixed Income	500,000	591,269	0.057%
JNLJPMorgan Global Allocation Fund	Volkswagen Leasing Gesellschaft Mit Beschränkter Haftung	4/11/2031	4.00	Fixed Income	50,000	57,016	0.006%
JNLJPMorgan Global Allocation Fund	Intesa Sanpaolo SPA	8/29/2031	5.13	Fixed Income	500,000	616,926	0.060%
JNLJPMorgan Global Allocation Fund	Bank of Ireland Group Public Limited Company	7/4/2031	5.00	Fixed Income	600,000	732,362	0.071%
JNLJPMorgan Global Allocation Fund	Barclays PLC	1/31/2033	4.51	Fixed Income	850,000	1,025,908	0.100%
JNLJPMorgan Global Allocation Fund	Autosroads per Italia S.P.A.	6/14/2033	5.13	Fixed Income	600,000	733,256	0.071%
JNLJPMorgan Global Allocation Fund	Heidelberg Materials Finance Luxembourg S.A.	11/21/2033	4.88	Fixed Income	50,000	62,928	0.006%
JNLJPMorgan Global Allocation Fund	KeyCorp	3/6/2035	6.16	Fixed Income	700,000	764,029	0.074%
JNLJPMorgan Global Allocation Fund	Southern Power Company	6/20/2026	1.95	Fixed Income	650,000	714,112	0.069%
JNLJPMorgan Global Allocation Fund	Bankinter Sociedad Anonima	7/8/2026	0.88	Fixed Income	700,000	754,112	0.073%
JNLJPMorgan Global Allocation Fund	UBS Switzerland AG	3/5/2029	3.30	Fixed Income	1,500,000	1,749,803	0.170%
JNLJPMorgan Global Allocation Fund	TSB Bank PLC	3/5/2029	3.32	Fixed Income	1,400,000	1,633,180	0.158%
JNLJPMorgan Global Allocation Fund	Banca Monte dei Paschi di Siena S.p.A.	4/23/2029	3.50	Fixed Income	700,000	813,984	0.079%
JNLJPMorgan Global Allocation Fund	Buckeye Partners, L.P.	7/1/2029	6.88	Fixed Income	54,000	56,336	0.005%
JNLJPMorgan Global Allocation Fund	Banco Santander Totta, S.A.	2/15/2031	3.25	Fixed Income	1,200,000	1,399,275	0.136%
JNLJPMorgan Global Allocation Fund	Toronto-Dominion Bank, The	2/16/2029	3.19	Fixed Income	1,000,000	1,160,187	0.113%
JNLJPMorgan Global Allocation Fund	National Australia Bank Limited	2/5/2031	3.15	Fixed Income	700,000	816,729	0.079%
JNLJPMorgan Global Allocation Fund	Williams Scotsman, Inc.	6/15/2029	6.63	Fixed Income	91,000	95,308	0.009%
JNLJPMorgan Global Allocation Fund	Hertz Vehicle Financing II LP	7/15/2029	12.63	Fixed Income	300,000	337,035	0.033%
JNLJPMorgan Global Allocation Fund	Smurfit Westrock Public Limited Company			Equity	2,208	109,119	0.011%
JNLJPMorgan Global Allocation Fund	Lineage, Inc.			Equity	200	15,752	0.002%
JNLJPMorgan Global Allocation Fund	Hawaiian Brand Intellectual Property, Ltd.	4/15/2029	11.00	Fixed Income	921,625	943,538	0.092%
JNLJPMorgan Global Allocation Fund	Cabinet Office, Government of Japan	3/20/2052	1.00	Fixed Income	215,750,000	1,170,389	0.114%
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	8/15/2054	2.50	Fixed Income	859,234	979,579	0.095%
JNLJPMorgan Global Allocation Fund	Bundesrepublik Deutschland	12/1/2024	2.10	Fixed Income	6,167,737	6,597,788	0.074%
JNLJPMorgan Global Allocation Fund	Genesis Energy, L.P.	1/15/2029	8.25	Fixed Income	46,000	48,417	0.005%
JNLJPMorgan Global Allocation Fund	Chevron Phillips Chemical Company LLC	12/1/2026	3.40	Fixed Income	52,000	51,667	0.005%
JNLJPMorgan Global Allocation Fund	The Berkeley Group Holdings PLC			Equity	133	8,398	0.001%
JNLJPMorgan Global Allocation Fund	Sinus XM Holdings Inc.			Equity	2,180	51,557	0.005%
JNLJPMorgan Global Allocation Fund	Citigroup Inc.	9/19/2030	4.54	Fixed Income	410,000	411,177	0.040%
JNLJPMorgan Global Allocation Fund	Gouvernement De France	5/25/2032		Fixed Income	2,250,000	2,042,740	0.198%
JNLJPMorgan Global Allocation Fund	NMGS Holding Company, Inc.	10/1/2028	8.50	Fixed Income	237,000	242,405	0.024%
JNLJPMorgan Global Allocation Fund	P. R. Donnelly & Sons Company	8/1/2029	9.19	Fixed Income	1,187,109	1,159,159	0.115%
JNLJPMorgan Global Allocation Fund	OVC, Inc.	4/15/2029	6.88	Fixed Income	485,000	403,056	0.039%
JNLJPMorgan Global Allocation Fund	JPMorgan Income ETF			Fund	979,180	45,424,160	4.413%
JNLJPMorgan Global Allocation Fund	Treasury, United States Department of	9/15/2027	3.38	Fixed Income	50,000	49,750	0.005%
Total Non Derivatives							1,026,286,097
Derivatives							
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold GBP			Derivative		2,973	0.000%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold USD			Derivative		7,244	0.001%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold USD			Derivative		9,671	0.001%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold JPY			Derivative		7,826	0.001%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold JPY			Derivative		6,990	0.001%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold USD			Derivative		1,286	0.000%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold JPY			Derivative		1,529	0.000%
JNLJPMorgan Global Allocation Fund	Bought AUD / Sold CAD			Derivative		1,990	0.000%
JNLJPMorgan Global Allocation Fund	Bought CAD / Sold USD			Derivative		1,924	0.000%
JNLJPMorgan Global Allocation Fund	Bought CAD / Sold SEK			Derivative		1,839	0.000%
JNLJPMorgan Global Allocation Fund	Bought CAD / Sold USD			Derivative		255	0.000%
JNLJPMorgan Global Allocation Fund	Bought CAD / Sold JPY			Derivative		1,214	0.000%
JNLJPMorgan Global Allocation Fund	Bought CAD / Sold USD			Derivative		336	0.000%
JNLJPMorgan Global Allocation Fund	Bought CAD / Sold EUR			Derivative		(195)	0.000%
JNLJPMorgan Global Allocation Fund	Bought CHF / Sold AUD			Derivative		(6,457)	-0.001%
JNLJPMorgan Global Allocation Fund	Bought CHF / Sold USD			Derivative		1,365	0.000%
JNLJPMorgan Global Allocation Fund	Bought CHF / Sold EUR			Derivative		325	0.000%
JNLJPMorgan Global Allocation Fund	Bought CLP / Sold USD			Derivative		3,910	0.000%
JNLJPMorgan Global Allocation Fund	Bought COP / Sold USD			Derivative		(2,249)	0.000%
JNLJPMorgan Global Allocation Fund	Bought CZK / Sold USD			Derivative		1,152	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold HUF			Derivative		439	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold USD			Derivative		819	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold USD			Derivative		16,174	0.002%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold USD			Derivative		(531)	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold SEK			Derivative		(265)	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold USD			Derivative		(195)	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold USD			Derivative		199	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold CHF			Derivative		(885)	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold JPY			Derivative		1,252	0.000%
JNLJPMorgan Global Allocation Fund	Bought EUR / Sold SEK			Derivative		(87)	0.000%
JNLJPMorgan Global Allocation Fund	Bought GBP / Sold USD			Derivative		(2)	0.000%
JNLJPMorgan Global Allocation Fund	Bought GBP / Sold EUR			Derivative		0	0.000%
JNLJPMorgan Global Allocation Fund	Bought GBP / Sold USD			Derivative		0	0.000%
JNLJPMorgan Global Allocation Fund	Bought GBP / Sold EUR			Derivative		0	0.000%
JNLJPMorgan Global Allocation Fund	Bought GBP / Sold EUR			Derivative		269	0.000%
JNLJPMorgan Global Allocation Fund	Bought HKD / Sold USD			Derivative		0	0.000%
JNLJPMorgan Global Allocation Fund	Bought HKD / Sold USD			Derivative		(245)	0.000%
JNLJPMorgan Global Allocation Fund	Bought IDR / Sold USD			Derivative		43,827	0.004%
JNLJPMorgan Global Allocation Fund	Bought ILS / Sold USD			Derivative		(2,795)	0.000%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold CAD			Derivative		(3,080)	0.000%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold USD			Derivative		(2,461)	0.000%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold USD			Derivative		(394,356)	-0.038%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold USD			Derivative		(2,061)	0.000%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold USD			Derivative		938	0.000%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold USD			Derivative		140	0.000%
JNLJPMorgan Global Allocation Fund	Bought JPY / Sold USD			Derivative		161	0.000%
JNLJPMorgan Global Allocation Fund	Bought KRW / Sold USD			Derivative		60,565	0.006%
JNLJPMorgan Global Allocation Fund	Bought NOK / Sold USD			Derivative		3,109	0.000%
JNLJPMorgan Global Allocation Fund	Bought NZD / Sold USD			Derivative		11,735	0.001%
JNLJPMorgan Global Allocation Fund	Bought NZD / Sold USD			Derivative		1,168	0.000%
JNLJPMorgan Global Allocation Fund	Bought NZD / Sold EUR			Derivative		1,983	0.000%
JNLJPMorgan Global Allocation Fund	Bought PEN / Sold USD			Derivative		3,054	0.000%
JNLJPMorgan Global Allocation Fund	Bought PLN / Sold USD			Derivative		2,881	0.000%
JNLJPMorgan Global Allocation Fund	Bought RON / Sold USD			Derivative		220	0.000%
JNLJPMorgan Global Allocation Fund	Bought SEK / Sold EUR			Derivative		2,231	0.000%
JNLJPMorgan Global Allocation Fund	Bought SEK / Sold USD			Derivative		5,999	0.001%
JNLJPMorgan Global Allocation Fund	Bought SGD / Sold USD			Derivative		7,569	0.001%
JNLJPMorgan Global Allocation Fund	Bought THB / Sold USD			Derivative		17	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold AUD			Derivative		(4,340)	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold JPY			Derivative		2,340	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold NZD			Derivative		(7,359)	-0.001%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold GBP			Derivative		(23,164)	-0.002%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold AUD			Derivative		(181,058)	-0.018%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold DKK			Derivative		(214)	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold HUF			Derivative		1,278	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold AUD			Derivative		(5,461)	-0.001%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold EUR			Derivative		(3,854)	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold MXN			Derivative		39,440	0.004%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold EUR			Derivative		333	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold MXN			Derivative		1,861	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold JPY			Derivative		394	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold CAD			Derivative		793	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold CHF			Derivative		(372)	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold CHF			Derivative		(520)	0.000%
JNLJPMorgan Global Allocation Fund	Bought USD / Sold JPY			Derivative		(2,281)	0.000%
JNLJPMorgan Global Allocation Fund	CADUSD Spot Rate FUTURE - PHYSICALLY DELIVERED			Derivative	23	4,655	0.000%
JNLJPMorgan Global Allocation Fund	EURUSD Spot Rate FUTURE - PHYSICALLY DELIVERED			Derivative	24	24,734	0.002%
JNLJPMorgan Global Allocation Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	367	2,231,568	0.217%
JNLJPMorgan Global Allocation Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	220	99,654	0.009%
JNLJPMorgan Global Allocation Fund	JPYUSD Spot Rate FUTURE - PHYSICALLY DELIVERED			Derivative	111	(27,255)	-0.003%
JNLJPMorgan Global Allocation Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	208	480,340	0.047%
JNLJPMorgan Global Allocation Fund	MSCI Emerging Markets Index FUTURE - CASH SETTLED			Derivative	725	508,258	0.049%
JNLJPMorgan Global Allocation Fund	MSCI EAFE Index FUTURE - CASH SETTLED			Derivative	127	99,654	0.009%
JNLJPMorgan Global Allocation Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	631	(129,497)	-0.013%
JNLJPMorgan Global Allocation Fund	Japan 10 Year Bond FUTURE - CASH SETTLED			Derivative	48	15,565	0.002%
JNLJPMorgan Global Allocation Fund	Italy Short Term Government BTP Bond FUTURE - PHYSICALLY DELIVERED			Derivative	46	39,063	0.004%
JNLJPMorgan Global Allocation Fund	Canada 10 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	374	12,171	0.001%
JNLJPMorgan Global Allocation Fund	Euro Schatz FUTURE - PHYSICALLY DELIVERED			Derivative	69	38,615	0.004%
JNLJPMorgan Global Allocation Fund	3M EURIBOR FUTURE - CASH SETTLED			Derivative	-55	(136)	0.000%
JNLJPMorgan Global Allocation Fund	3M EURIBOR FUTURE - CASH SETTLED			Derivative	55	4,640	0.000%
JNLJPMorgan Global Allocation Fund	3M EURIBOR FUTURE - CASH SETTLED			Derivative	55	1,544	0.000%

Fund Name	Investment	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/JPMorgan Global Allocation Fund	3M EURIBOR FUTURE - CASH SETTLED			Derivative	-55	(684)	0.000%
JNL/JPMorgan Global Allocation Fund	Long Gilt FUTURE - PHYSICALLY DELIVERED			Derivative	11	(10,873)	-0.01%
JNL/JPMorgan Global Allocation Fund	Italy Government BTP Bond FUTURE - PHYSICALLY DELIVERED			Derivative	23	43,753	0.04%
JNL/JPMorgan Global Allocation Fund	Japan 10 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	5	16,099	0.002%
JNL/JPMorgan Global Allocation Fund	MSO EAFE Index FUTURE - CASH SETTLED			Derivative	2	4,552	0.000%
JNL/JPMorgan Global Allocation Fund	Euro BOB FUTURE - PHYSICALLY DELIVERED			Derivative	29	32,139	0.003%
JNL/JPMorgan Global Allocation Fund	Euro Bund FUTURE - PHYSICALLY DELIVERED			Derivative	-17	(774)	0.000%
JNL/JPMorgan Global Allocation Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-31	4,242	0.000%
JNL/JPMorgan Global Allocation Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-31	(10,408)	-0.001%
JNL/JPMorgan Global Allocation Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-31	(8,620)	-0.001%
JNL/JPMorgan Global Allocation Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-31	4,255	0.000%
JNL/JPMorgan Global Allocation Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	137	(77,296)	-0.008%
JNL/JPMorgan Global Allocation Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-54	(15,323)	-0.001%
JNL/JPMorgan Global Allocation Fund	Euro Box3 30 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	4	6,754	0.001%
JNL/JPMorgan Global Allocation Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	47	(27,144)	-0.004%
JNL/JPMorgan Global Allocation Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-66	36,964	0.004%
JNL/JPMorgan Global Allocation Fund	Australia 10 Year Bond FUTURE - CASH SETTLED			Derivative	17	(6,998)	-0.001%
JNL/JPMorgan Global Allocation Fund	Canada 5 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	6	3,293	0.000%
JNL/JPMorgan Global Allocation Fund	Australia 3 Year Bond FUTURE - CASH SETTLED			Derivative	1	(2)	0.000%
Total Derivatives						3,091,281	
Total All Investments						1,029,377,378	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLJPMorgan Hedged Equity Fund	Cash			Cash Equivalent	761.893	761.893	0.081%
JNLJPMorgan Hedged Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	8,140.041	8,140.041	0.867%
JNLJPMorgan Hedged Equity Fund	DoorDash, Inc.			Equity	4,584	654,274	0.070%
JNLJPMorgan Hedged Equity Fund	Marvell Technology, Inc.			Equity	6,476	467,049	0.050%
JNLJPMorgan Hedged Equity Fund	Warner Music Group Corp.			Equity	32,969	1,033,930	0.110%
JNLJPMorgan Hedged Equity Fund	Seagate Technology Holdings Public Limited Company			Equity	42,756	4,712,994	0.502%
JNLJPMorgan Hedged Equity Fund	Yum! Brands, Inc.			Equity	34,160	4,772,494	0.508%
JNLJPMorgan Hedged Equity Fund	United Rentals, Inc.			Equity	2,066	1,672,902	0.178%
JNLJPMorgan Hedged Equity Fund	FedEx Corporation			Equity	10,726	2,950,294	0.314%
JNLJPMorgan Hedged Equity Fund	Concast Corporation			Equity	189,883	6,852,393	0.729%
JNLJPMorgan Hedged Equity Fund	Adobe Inc.			Equity	2,905	1,504,151	0.160%
JNLJPMorgan Hedged Equity Fund	Analog Devices, Inc.			Equity	32,038	7,374,186	0.785%
JNLJPMorgan Hedged Equity Fund	Baxter International Inc.			Equity	16,907	846,862	0.089%
JNLJPMorgan Hedged Equity Fund	Berkshire Hathaway Inc.			Equity	29,559	13,604,594	1.448%
JNLJPMorgan Hedged Equity Fund	Best Buy Co., Inc.			Equity	20,629	2,150,367	0.229%
JNLJPMorgan Hedged Equity Fund	Bristol-Myers Squibb Company			Equity	106,573	5,514,087	0.587%
JNLJPMorgan Hedged Equity Fund	Advanced Micro Devices, Inc.			Equity	32,260	5,293,221	0.563%
JNLJPMorgan Hedged Equity Fund	AutoZone, Inc.			Equity	2,162	6,810,388	0.725%
JNLJPMorgan Hedged Equity Fund	Honeywell International Inc.			Equity	42,717	8,830,031	0.940%
JNLJPMorgan Hedged Equity Fund	Boston Scientific Corporation			Equity	58,136	4,871,797	0.519%
JNLJPMorgan Hedged Equity Fund	Abbott Laboratories			Equity	12,194	1,390,238	0.148%
JNLJPMorgan Hedged Equity Fund	AMETEK, Inc.			Equity	3,294	565,513	0.060%
JNLJPMorgan Hedged Equity Fund	Amazon.com, Inc.			Equity	201,746	37,591,332	4.002%
JNLJPMorgan Hedged Equity Fund	Apple Inc.			Equity	289,605	67,477,965	7.183%
JNLJPMorgan Hedged Equity Fund	Eastman Chemical Company			Equity	2,435	274,571	0.029%
JNLJPMorgan Hedged Equity Fund	Target Corporation			Equity	9,802	3,387,466	0.349%
JNLJPMorgan Hedged Equity Fund	Biogen Inc.			Equity	6,856	1,328,967	0.141%
JNLJPMorgan Hedged Equity Fund	EOG Resources, Inc.			Equity	38,557	4,739,812	0.505%
JNLJPMorgan Hedged Equity Fund	BioMarin Pharmaceutical Inc.			Equity	4,430	311,385	0.033%
JNLJPMorgan Hedged Equity Fund	Deere & Company			Equity	16,490	6,886,012	0.735%
JNLJPMorgan Hedged Equity Fund	CMS Energy Corporation			Equity	31,361	2,215,027	0.238%
JNLJPMorgan Hedged Equity Fund	Fifth Third Bancorp			Equity	95,958	4,146,345	0.441%
JNLJPMorgan Hedged Equity Fund	NRG Energy, Inc.			Equity	4,394	400,293	0.043%
JNLJPMorgan Hedged Equity Fund	Fair Isaac Corporation			Equity	477	927,059	0.099%
JNLJPMorgan Hedged Equity Fund	The Estée Lauder Companies Inc.			Equity	7,597	5,767,898	0.614%
JNLJPMorgan Hedged Equity Fund	NVIDIA Corporation			Equity	510,508	62,001,172	6.600%
JNLJPMorgan Hedged Equity Fund	Intuit Inc.			Equity	9,650	5,992,650	0.638%
JNLJPMorgan Hedged Equity Fund	Church & Dwight Co., Inc.			Equity	18,513	1,938,681	0.206%
JNLJPMorgan Hedged Equity Fund	McKesson Corporation			Equity	2,503	1,239,510	0.132%
JNLJPMorgan Hedged Equity Fund	Danaher Corporation			Equity	19,551	5,440,848	0.579%
JNLJPMorgan Hedged Equity Fund	Cognizant Technology Solutions Corporation			Equity	55,417	4,277,084	0.455%
JNLJPMorgan Hedged Equity Fund	Salesforce, Inc.			Equity	29,539	8,096,935	0.862%
JNLJPMorgan Hedged Equity Fund	EQT Corporation			Equity	12,384	1,653,750	0.176%
JNLJPMorgan Hedged Equity Fund	Humana Inc.			Equity	5,536	1,758,372	0.187%
JNLJPMorgan Hedged Equity Fund	NextEra Energy, Inc.			Equity	85,311	7,211,339	0.768%
JNLJPMorgan Hedged Equity Fund	Exxon Mobil Corporation			Equity	112,752	13,216,789	1.407%
JNLJPMorgan Hedged Equity Fund	Cadence Design Systems, Inc.			Equity	8,235	1,818,842	0.191%
JNLJPMorgan Hedged Equity Fund	CSX Corporation			Equity	110,196	3,805,068	0.405%
JNLJPMorgan Hedged Equity Fund	Coca-Cola Company, The			Equity	103,180	7,467,029	0.795%
JNLJPMorgan Hedged Equity Fund	Citigroup Inc.			Equity	40,667	2,545,754	0.271%
JNLJPMorgan Hedged Equity Fund	Morgan Stanley			Equity	17,695	1,933,327	0.211%
JNLJPMorgan Hedged Equity Fund	Bank of America Corporation			Equity	268,661	10,660,468	1.135%
JNLJPMorgan Hedged Equity Fund	Neurocrine Biosciences, Inc.			Equity	5,838	672,654	0.072%
JNLJPMorgan Hedged Equity Fund	Ross Stores, Inc.			Equity	23,590	3,550,531	0.378%
JNLJPMorgan Hedged Equity Fund	Mexco Corporation			Equity	27,607	2,317,332	0.247%
JNLJPMorgan Hedged Equity Fund	Mall, Inc.			Equity	34,268	2,826,425	0.301%
JNLJPMorgan Hedged Equity Fund	Nucor Corporation			Equity	6,947	1,048,163	0.112%
JNLJPMorgan Hedged Equity Fund	U.S. Bancorp			Equity	70,385	3,253,899	0.346%
JNLJPMorgan Hedged Equity Fund	Royal Caribbean Cruises Ltd.			Equity	20,184	3,587,908	0.382%
JNLJPMorgan Hedged Equity Fund	Costco Wholesale Corporation			Equity	6,509	5,767,898	0.614%
JNLJPMorgan Hedged Equity Fund	Travelers Companies, Inc., The			Equity	18,455	4,320,685	0.460%
JNLJPMorgan Hedged Equity Fund	Johnson & Johnson			Equity	33,105	5,364,996	0.571%
JNLJPMorgan Hedged Equity Fund	Lam Research Corporation			Equity	4,698	3,840,448	0.409%
JNLJPMorgan Hedged Equity Fund	Lennox Corporation			Equity	7,711	6,445,658	0.684%
JNLJPMorgan Hedged Equity Fund	Merck & Co., Inc.			Equity	30,232	3,460,017	0.368%
JNLJPMorgan Hedged Equity Fund	McDonald's Corporation			Equity	15,510	4,722,950	0.503%
JNLJPMorgan Hedged Equity Fund	United Parcel Service, Inc.			Equity	38,409	5,236,683	0.557%
JNLJPMorgan Hedged Equity Fund	PepsiCo, Inc.			Equity	41,174	7,097,639	0.751%
JNLJPMorgan Hedged Equity Fund	PACCAR Inc			Equity	13,205	1,303,069	0.139%
JNLJPMorgan Hedged Equity Fund	Fidelity National Information Services, Inc.			Equity	56,259	4,711,691	0.502%
JNLJPMorgan Hedged Equity Fund	Altria Group, Inc.			Equity	26,080	1,357,725	0.145%
JNLJPMorgan Hedged Equity Fund	ConocoPhillips			Equity	61,585	6,883,458	0.735%
JNLJPMorgan Hedged Equity Fund	Regeneron Pharmaceuticals, Inc.			Equity	5,072	5,331,889	0.568%
JNLJPMorgan Hedged Equity Fund	Martin Marietta Materials, Inc.			Equity	2,131	1,447,011	0.152%
JNLJPMorgan Hedged Equity Fund	ELI Lilly and Company			Equity	13,666	12,107,256	1.289%
JNLJPMorgan Hedged Equity Fund	Goldman Sachs Group Inc., The			Equity	10,659	5,777,377	0.612%
JNLJPMorgan Hedged Equity Fund	Procter & Gamble Company, The			Equity	17,099	2,961,547	0.315%
JNLJPMorgan Hedged Equity Fund	Charles Schwab Corporation, The			Equity	50,027	3,242,250	0.345%
JNLJPMorgan Hedged Equity Fund	Microsoft Corporation			Equity	159,910	68,378,973	7.279%
JNLJPMorgan Hedged Equity Fund	Micro Technology, Inc.			Equity	54,376	5,639,335	0.600%
JNLJPMorgan Hedged Equity Fund	PG&E Corporation			Equity	232,185	4,592,619	0.489%
JNLJPMorgan Hedged Equity Fund	The Progressive Corporation			Equity	27,638	7,013,419	0.747%
JNLJPMorgan Hedged Equity Fund	Low's Companies, Inc.			Equity	37,129	10,056,390	1.071%
JNLJPMorgan Hedged Equity Fund	Northrop Grumman Corporation			Equity	3,342	1,764,810	0.188%
JNLJPMorgan Hedged Equity Fund	PGI Industries, Inc.			Equity	15,443	2,095,580	0.224%
JNLJPMorgan Hedged Equity Fund	Wells Fargo & Company			Equity	134,099	7,575,253	0.806%
JNLJPMorgan Hedged Equity Fund	Texas Instruments Incorporated			Equity	40,756	8,418,967	0.896%
JNLJPMorgan Hedged Equity Fund	LKQ Corporation			Equity	8,638	844,829	0.089%
JNLJPMorgan Hedged Equity Fund	Styler Corporation			Equity	16,937	6,850,388	0.725%
JNLJPMorgan Hedged Equity Fund	Western Digital Corporation			Equity	27,513	1,878,863	0.200%
JNLJPMorgan Hedged Equity Fund	Toll Brothers, Inc.			Equity	3,924	606,219	0.065%
JNLJPMorgan Hedged Equity Fund	Textron Inc.			Equity	32,425	2,872,855	0.306%
JNLJPMorgan Hedged Equity Fund	Vetter Pharmaceuticals Incorporated			Equity	11,738	1,459,109	0.154%
JNLJPMorgan Hedged Equity Fund	Principal Financial Group, Inc.			Equity	22,054	1,894,439	0.202%
JNLJPMorgan Hedged Equity Fund	Union Pacific Corporation			Equity	6,895	1,699,480	0.181%
JNLJPMorgan Hedged Equity Fund	Thermo Fisher Scientific Inc.			Equity	14,768	9,140,766	0.973%
JNLJPMorgan Hedged Equity Fund	Chevron Corporation			Equity	9,780	1,440,301	0.153%
JNLJPMorgan Hedged Equity Fund	The Southern Company			Equity	92,016	8,298,003	0.883%
JNLJPMorgan Hedged Equity Fund	UnitedHealth Group Incorporated			Equity	25,814	15,092,930	1.607%
JNLJPMorgan Hedged Equity Fund	CME Group Inc.			Equity	24,871	5,487,786	0.584%
JNLJPMorgan Hedged Equity Fund	NetScout, Inc.			Equity	1,165	1,326,390	0.089%
JNLJPMorgan Hedged Equity Fund	Ameritox Financial, Inc.			Equity	4,005	1,981,589	0.200%
JNLJPMorgan Hedged Equity Fund	Delta Air Lines, Inc.			Equity	34,924	1,773,790	0.189%
JNLJPMorgan Hedged Equity Fund	MasterCard Incorporated			Equity	31,409	15,509,764	1.651%
JNLJPMorgan Hedged Equity Fund	Chipotle Mexican Grill, Inc.			Equity	79,899	4,603,780	0.490%
JNLJPMorgan Hedged Equity Fund	DeScom, Inc.			Equity	3,650	244,686	0.026%
JNLJPMorgan Hedged Equity Fund	Lululemon Athletica Inc.			Equity	4,156	1,127,731	0.120%
JNLJPMorgan Hedged Equity Fund	TransDigm Group Incorporated			Equity	3,193	4,556,826	0.485%
JNLJPMorgan Hedged Equity Fund	NXP Semiconductors N.V.			Equity	30,325	7,307,050	0.778%
JNLJPMorgan Hedged Equity Fund	Tetris Inc.			Equity	45,550	11,917,247	1.269%
JNLJPMorgan Hedged Equity Fund	Accenture Public Limited Company			Equity	13,720	4,849,746	0.516%
JNLJPMorgan Hedged Equity Fund	O'Reilly Automotive, Inc.			Equity	976	1,123,962	0.120%
JNLJPMorgan Hedged Equity Fund	Motorola Solutions, Inc.			Equity	3,217	1,449,612	0.154%
JNLJPMorgan Hedged Equity Fund	HCA Healthcare, Inc.			Equity	3,077	1,250,385	0.133%
JNLJPMorgan Hedged Equity Fund	Expedia Group, Inc.			Equity	16,251	2,405,473	0.256%
JNLJPMorgan Hedged Equity Fund	Apliv PLC			Equity	16,932	1,219,273	0.130%
JNLJPMorgan Hedged Equity Fund	LyondellBasell Industries N.V.			Equity	22,972	2,203,015	0.235%
JNLJPMorgan Hedged Equity Fund	Visa Inc.			Equity	42,734	11,749,113	1.251%
JNLJPMorgan Hedged Equity Fund	Philip Morris International Inc.			Equity	23,565	2,892,604	0.308%
JNLJPMorgan Hedged Equity Fund	Meta Platforms, Inc.			Equity	47,735	27,325,423	2.909%
JNLJPMorgan Hedged Equity Fund	ServiceNow, Inc.			Equity	10,076	9,011,874	0.959%
JNLJPMorgan Hedged Equity Fund	Diamondback Energy, Inc.			Equity	19,070	3,115,268	0.332%
JNLJPMorgan Hedged Equity Fund	KKR & Co. Inc.			Equity	12,620	1,647,920	0.175%
JNLJPMorgan Hedged Equity Fund	T-Mobile US, Inc.			Equity	15,679	3,235,518	0.344%
JNLJPMorgan Hedged Equity Fund	Mondelez International, Inc.			Equity	103,843	10,688,920	1.132%
JNLJPMorgan Hedged Equity Fund	AbbVie Inc.			Equity	62,098	12,383,113	1.305%
JNLJPMorgan Hedged Equity Fund	Sarepta Therapeutics, Inc.			Equity	2,838	354,438	0.038%
JNLJPMorgan Hedged Equity Fund	Eaton Corporation Public Limited Company			Equity	10,000	3,314,400	0.353%
JNLJPMorgan Hedged Equity Fund	Baker Hughes Company			Equity	39,101	1,413,501	0.150%
JNLJPMorgan Hedged Equity Fund	Former Charter Communications Parent, Inc.			Equity	5,826	1,520,498	0.160%
JNLJPMorgan Hedged Equity Fund	Visa Corp.			Equity	6,527	773,711	0.082%
JNLJPMorgan Hedged Equity Fund	Burlington Stores, Inc.			Equity	8,544	2,251,173	0.240%
JNLJPMorgan Hedged Equity Fund	Broadcom Inc.			Equity	56,693	9,779,543	1.041%
JNLJPMorgan Hedged Equity Fund	Leidos Holdings, Inc.			Equity	21,795	3,552,585	0.378%
JNLJPMorgan Hedged Equity Fund	Booking Holdings Inc.			Equity	1,443	6,078,089	0.647%
JNLJPMorgan Hedged Equity Fund	Elevance Health, Inc.			Equity	7,463	3,880,760	0.413%
JNLJPMorgan Hedged Equity Fund	Alphabet Inc.			Equity	112,901	18,724,631	1.993%
JNLJPMorgan Hedged Equity Fund	Block, Inc.			Equity	10,560	708,893	0.075%
JNLJPMorgan Hedged Equity Fund	Hewlett Packard Enterprise Company			Equity	89,365	1,840,025	0.196%
JNLJPMorgan Hedged Equity Fund	Alphabet Inc.			Equity	85,253	14,253,449	1.517%
JNLJPMorgan Hedged Equity Fund	Monster Beverage 1990 Corporation			Equity	58,439	3,048,763	0.325%
JNLJPMorgan Hedged Equity Fund	Hilton Worldwide Holdings Inc.			Equity	13,039	3,005,490	0.320%
JNLJPMorgan Hedged Equity Fund	Medtronic, Inc.			Equity	50,306	4,564,263	0.486%
JNLJPMorgan Hedged Equity Fund	Equinix, Inc.			Equity	526	466,893	0.050%
JNLJPMorgan Hedged Equity Fund	Prologis Inc.			Equity	41,157	5,197,306	0.553%
JNLJPMorgan Hedged Equity Fund	Equity Lifestyle Properties, Inc.			Equity	28,631	2,056,207	0.219%
JNLJPMorgan Hedged Equity Fund	Ventus, Inc.			Equity	58,505	3,751,926	0.399%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan Hedged Equity Fund	Digital Realty Trust, Inc.			Equity	21,075	3,410,567	0.363%
JNLJPMorgan Hedged Equity Fund	Welltower Inc.			Equity	18,937	2,424,504	0.258%
JNLJPMorgan Hedged Equity Fund	SBA Communications Corporation			Equity	13,327	3,207,809	0.341%
JNLJPMorgan Hedged Equity Fund	Dow Inc.			Equity	73,705	4,026,504	0.429%
JNLJPMorgan Hedged Equity Fund	Uber Technologies, Inc.			Equity	78,724	5,916,896	0.630%
JNLJPMorgan Hedged Equity Fund	Trust Financial Corporation			Equity	114,587	4,900,886	0.522%
JNLJPMorgan Hedged Equity Fund	Ingersoll Rand Inc.			Equity	16,254	1,595,493	0.170%
JNLJPMorgan Hedged Equity Fund	Trane Technologies Public Limited Company			Equity	22,255	8,651,186	0.921%
JNLJPMorgan Hedged Equity Fund	AOON Public Limited Company			Equity	9,860	3,411,461	0.363%
JNLJPMorgan Hedged Equity Fund	Howmet Aerospace Inc.			Equity	51,863	5,199,266	0.553%
JNLJPMorgan Hedged Equity Fund	Cerner Global Corporation			Equity	58,073	4,674,296	0.498%
JNLJPMorgan Hedged Equity Fund	Otis Worldwide Corporation			Equity	47,488	4,935,903	0.525%
JNLJPMorgan Hedged Equity Fund	Linde Public Limited Company			Equity	17,244	8,222,974	0.875%
JNLJPMorgan Hedged Equity Fund	Kenvue Inc.			Equity	95,474	2,208,314	0.235%
JNLJPMorgan Hedged Equity Fund	Corpay Inc.			Equity	11,491	3,593,925	0.383%
JNLJPMorgan Hedged Equity Fund	Sirius XM Holdings Inc.			Equity	24,094	569,823	0.061%
JNLJPMorgan Hedged Equity Fund	Te Connectivity Public Limited Company			Equity	5,908	892,049	0.095%
Total Non Derivatives						938,743,433	
Derivatives							
JNLJPMorgan Hedged Equity Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	25	123,024	0.013%
JNLJPMorgan Hedged Equity Fund	S&P 500 Index OPTION			Derivative	-1,659	(8,875,650)	-0.945%
JNLJPMorgan Hedged Equity Fund	S&P 500 Index OPTION			Derivative	-1,659	(2,753,940)	-0.293%
JNLJPMorgan Hedged Equity Fund	S&P 500 Index OPTION			Derivative	1,659	12,160,470	1.294%
Total Derivatives						653,904	
Total All Investments						939,397,337	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLJPMorgan MidCap Growth Fund	Cash			Cash Equivalent	771.716	771.716	0.024%
JNLJPMorgan MidCap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	20,534.492	20,730.938	0.638%
JNLJPMorgan MidCap Growth Fund	Vaccyte, Inc.			Equity	41,673	4,164.974	0.146%
JNLJPMorgan MidCap Growth Fund	DoorDash, Inc.			Equity	251,060	35,833.794	1.102%
JNLJPMorgan MidCap Growth Fund	Conibese Global, Inc.			Equity	46,241	8,995.099	0.264%
JNLJPMorgan MidCap Growth Fund	Marvell Technology, Inc.			Equity	294,605	21,261.337	0.654%
JNLJPMorgan MidCap Growth Fund	ApplLovin Corporation			Equity	193,913	25,315.342	0.779%
JNLJPMorgan MidCap Growth Fund	Confluent, Inc.			Equity	895,743	18,255.242	0.562%
JNLJPMorgan MidCap Growth Fund	On Holding AG			Equity	345,289	17,316.243	0.533%
JNLJPMorgan MidCap Growth Fund	Remedy Global, Inc.			Equity	292,720	3,785.621	0.118%
JNLJPMorgan MidCap Growth Fund	NU Holdings Ltd.			Equity	2,722,450	37,161.443	1.143%
JNLJPMorgan MidCap Growth Fund	ESAB Corporation			Equity	210,788	22,425.735	0.690%
JNLJPMorgan MidCap Growth Fund	Robitron Markets, Inc.			Equity	1,020,377	23,897.229	0.735%
JNLJPMorgan MidCap Growth Fund	Altesian Corporation			Equity	100,078	15,893.387	0.489%
JNLJPMorgan MidCap Growth Fund	Elastic N.V.			Equity	244,929	18,800.750	0.578%
JNLJPMorgan MidCap Growth Fund	MonzoDB, Inc.			Equity	138,103	37,336.146	1.149%
JNLJPMorgan MidCap Growth Fund	Mettler-Toledo International Inc.			Equity	12,648	18,968.205	0.584%
JNLJPMorgan MidCap Growth Fund	Take Two Interactive Software, Inc.			Equity	188,177	28,924.887	0.890%
JNLJPMorgan MidCap Growth Fund	AutoZone, Inc.			Equity	7,269	22,897.641	0.704%
JNLJPMorgan MidCap Growth Fund	Quanta Services, Inc.			Equity	189,956	56,635.381	1.742%
JNLJPMorgan MidCap Growth Fund	AME-TEK, Inc.			Equity	154,460	26,522.327	0.816%
JNLJPMorgan MidCap Growth Fund	Amphenol Corporation			Equity	349,410	22,826.921	0.702%
JNLJPMorgan MidCap Growth Fund	IDEXX Laboratories, Inc.			Equity	36,992	18,689.098	0.579%
JNLJPMorgan MidCap Growth Fund	Copart, Inc.			Equity	486,905	25,513.822	0.785%
JNLJPMorgan MidCap Growth Fund	EOG Resources, Inc.			Equity	255,810	31,446.723	0.967%
JNLJPMorgan MidCap Growth Fund	FactSet Research Systems Inc.			Equity	61,238	28,160.294	0.869%
JNLJPMorgan MidCap Growth Fund	Moody's Corporation			Equity	76,204	36,165.656	1.113%
JNLJPMorgan MidCap Growth Fund	Constellation Brands, Inc.			Equity	108,930	28,070.172	0.863%
JNLJPMorgan MidCap Growth Fund	Cassey's General Stores, Inc.			Equity	84,726	31,832.405	0.979%
JNLJPMorgan MidCap Growth Fund	Mckesson Corporation			Equity	55,087	27,287.278	0.839%
JNLJPMorgan MidCap Growth Fund	ASON, Inc.			Equity	310,102	33,441.400	1.029%
JNLJPMorgan MidCap Growth Fund	HEICO Corporation			Equity	282,635	57,589.708	1.772%
JNLJPMorgan MidCap Growth Fund	Eagle Materials Inc.			Equity	105,895	30,486.573	0.938%
JNLJPMorgan MidCap Growth Fund	Arthur J. Gallagher & Co.			Equity	100,862	28,379.541	0.873%
JNLJPMorgan MidCap Growth Fund	Gartner, Inc.			Equity	116,189	58,079.185	1.811%
JNLJPMorgan MidCap Growth Fund	J.B. Hunt Transport Services, Inc.			Equity	127,100	21,903.143	0.674%
JNLJPMorgan MidCap Growth Fund	Cintas Corporation			Equity	77,871	16,032.081	0.493%
JNLJPMorgan MidCap Growth Fund	Entegris, Inc.			Equity	404,755	45,547.080	1.401%
JNLJPMorgan MidCap Growth Fund	Ross Stores, Inc.			Equity	228,186	31,244.275	0.957%
JNLJPMorgan MidCap Growth Fund	Pool Corporation			Equity	93,981	35,412.041	1.089%
JNLJPMorgan MidCap Growth Fund	Rambus Inc.			Equity	360,516	15,220.986	0.468%
JNLJPMorgan MidCap Growth Fund	Raymond James Financial, Inc.			Equity	180,342	22,084.881	0.679%
JNLJPMorgan MidCap Growth Fund	Exelixis, Inc.			Equity	639,007	16,582.007	0.506%
JNLJPMorgan MidCap Growth Fund	Insmed Incorporated			Equity	277,742	20,275.166	0.624%
JNLJPMorgan MidCap Growth Fund	On Semiconductor Corporation			Equity	376,285	27,322.054	0.840%
JNLJPMorgan MidCap Growth Fund	Agilent Technologies, Inc.			Equity	121,437	18,030.966	0.555%
JNLJPMorgan MidCap Growth Fund	Telechne Technologies Incorporated			Equity	65,104	24,118.057	0.742%
JNLJPMorgan MidCap Growth Fund	Exact Sciences Corporation			Equity	377,188	25,694.047	0.790%
JNLJPMorgan MidCap Growth Fund	Inspire Medical Systems, Inc.			Equity	102,642	21,662.594	0.666%
JNLJPMorgan MidCap Growth Fund	Ares Management Corporation			Equity	346,193	53,950.717	1.660%
JNLJPMorgan MidCap Growth Fund	Viking Therapeutics, Inc.			Equity	198,705	12,680.045	0.387%
JNLJPMorgan MidCap Growth Fund	Cheniere Energy, Inc.			Equity	205,126	36,889.860	1.135%
JNLJPMorgan MidCap Growth Fund	Tractor Supply Company			Equity	193,674	56,345.577	1.733%
JNLJPMorgan MidCap Growth Fund	West Pharmaceutical Services, Inc.			Equity	95,385	28,630.762	0.881%
JNLJPMorgan MidCap Growth Fund	Tyler Technologies, Inc.			Equity	56,064	32,141.958	0.989%
JNLJPMorgan MidCap Growth Fund	Westinghouse Air Brake Technologies Corporation			Equity	153,862	23,371.132	0.720%
JNLJPMorgan MidCap Growth Fund	Centene Corporation			Equity	255,390	19,225.759	0.591%
JNLJPMorgan MidCap Growth Fund	Simpson Manufacturing Co., Inc.			Equity	137,375	26,275.716	0.808%
JNLJPMorgan MidCap Growth Fund	Sala, Inc.			Equity	95,569	40,113.981	1.259%
JNLJPMorgan MidCap Growth Fund	Woodward, Inc.			Equity	87,891	15,074.185	0.463%
JNLJPMorgan MidCap Growth Fund	Synopsys, Inc.			Equity	45,285	22,931.871	0.705%
JNLJPMorgan MidCap Growth Fund	Thor Industries, Inc.			Equity	189,697	20,845.803	0.641%
JNLJPMorgan MidCap Growth Fund	Tetalyne, Inc.			Equity	331,971	44,460.876	1.368%
JNLJPMorgan MidCap Growth Fund	Las Vegas Sands Corp.			Equity	321,462	31,294.462	0.957%
JNLJPMorgan MidCap Growth Fund	Amylin Pharmaceuticals, Inc.			Equity	194,970	53,622.599	1.650%
JNLJPMorgan MidCap Growth Fund	Monolithic Power Systems, Inc.			Equity	46,294	42,856.671	1.318%
JNLJPMorgan MidCap Growth Fund	Dominos Pizza, Inc.			Equity	73,568	31,644.540	0.973%
JNLJPMorgan MidCap Growth Fund	DexCom, Inc.			Equity	365,259	24,468.963	0.751%
JNLJPMorgan MidCap Growth Fund	Interactive Brokers Group, Inc.			Equity	259,607	36,178.832	1.113%
JNLJPMorgan MidCap Growth Fund	Amicus Therapeutics, Inc.			Equity	859,752	9,182.151	0.282%
JNLJPMorgan MidCap Growth Fund	MSCI Inc.			Equity	62,985	36,715.846	1.129%
JNLJPMorgan MidCap Growth Fund	Ultra Beauty, Inc.			Equity	33,284	22,482.260	0.690%
JNLJPMorgan MidCap Growth Fund	Acadia Healthcare Company, Inc.			Equity	306,120	19,411.069	0.597%
JNLJPMorgan MidCap Growth Fund	Booz Allen Hamilton Holding Corporation			Equity	362,085	58,932.955	1.813%
JNLJPMorgan MidCap Growth Fund	LPL Financial Holdings Inc.			Equity	112,417	26,151.567	0.804%
JNLJPMorgan MidCap Growth Fund	Bright Horizons Family Solutions, Inc.			Equity	265,347	37,183.075	1.144%
JNLJPMorgan MidCap Growth Fund	Garmin Ltd.			Equity	159,844	28,137.339	0.866%
JNLJPMorgan MidCap Growth Fund	Air Lease Corporation			Equity	391,557	17,832.212	0.549%
JNLJPMorgan MidCap Growth Fund	Intra-Cellular Therapies, Inc.			Equity	385,558	28,211.279	0.868%
JNLJPMorgan MidCap Growth Fund	Fluter Desk, Inc., The			Equity	726,014	79,607.435	2.449%
JNLJPMorgan MidCap Growth Fund	KKR & Co. Inc.			Equity	247,555	32,325.732	0.994%
JNLJPMorgan MidCap Growth Fund	e.l.f. Beauty, Inc.			Equity	201,142	21,930.512	0.675%
JNLJPMorgan MidCap Growth Fund	IOVIA Holdings Inc.			Equity	108,728	25,765.274	0.793%
JNLJPMorgan MidCap Growth Fund	Hubbell Incorporated			Equity	58,624	25,111.590	0.772%
JNLJPMorgan MidCap Growth Fund	Palo Alto Networks, Inc.			Equity	61,108	20,898.714	0.643%
JNLJPMorgan MidCap Growth Fund	Sarepta Therapeutics, Inc.			Equity	52,299	6,531.622	0.201%
JNLJPMorgan MidCap Growth Fund	TechnipFMC PLC			Equity	1,298,308	34,054.619	1.048%
JNLJPMorgan MidCap Growth Fund	Visita Corp.			Equity	164,653	19,517.967	0.600%
JNLJPMorgan MidCap Growth Fund	Pfizer & Decor Holdings, Inc.			Equity	165,765	20,583.164	0.635%
JNLJPMorgan MidCap Growth Fund	Globant S.A.			Equity	150,424	29,805.011	0.917%
JNLJPMorgan MidCap Growth Fund	Burlington Stores, Inc.			Equity	125,078	32,955.551	1.014%
JNLJPMorgan MidCap Growth Fund	Veeva Systems Inc.			Equity	120,859	25,364.678	0.780%
JNLJPMorgan MidCap Growth Fund	Mine Safety Appliances Company, LLC			Equity	122,093	21,651.973	0.666%
JNLJPMorgan MidCap Growth Fund	ITT Inc.			Equity	285,939	42,750.740	1.315%
JNLJPMorgan MidCap Growth Fund	Planet Fitness, Inc.			Equity	271,099	22,018.661	0.677%
JNLJPMorgan MidCap Growth Fund	Apellis Pharmaceuticals, Inc.			Equity	381,303	10,996.779	0.338%
JNLJPMorgan MidCap Growth Fund	Fluter Entertainment Public Limited Company			Equity	115,125	27,316.360	0.840%
JNLJPMorgan MidCap Growth Fund	HubSpot, Inc.			Equity	103,649	55,099.808	1.695%
JNLJPMorgan MidCap Growth Fund	Nutanix, Inc.			Equity	317,371	18,804.232	0.578%
JNLJPMorgan MidCap Growth Fund	Natera, Inc.			Equity	340,636	43,243.740	1.330%
JNLJPMorgan MidCap Growth Fund	Hilton Worldwide Holdings Inc.			Equity	242,337	55,858.679	1.718%
JNLJPMorgan MidCap Growth Fund	CyberArk Software Ltd.			Equity	79,737	23,252.107	0.715%
JNLJPMorgan MidCap Growth Fund	Tradeweb Markets Inc.			Equity	272,334	33,679.546	1.036%
JNLJPMorgan MidCap Growth Fund	CrowdStrike Holdings, Inc.			Equity	48,861	13,704.045	0.422%
JNLJPMorgan MidCap Growth Fund	Orto Innovation Inc.			Equity	109,252	22,676.345	0.698%
JNLJPMorgan MidCap Growth Fund	Revolution Medicines, Inc.			Equity	224,269	10,170.599	0.313%
JNLJPMorgan MidCap Growth Fund	Datadog, Inc.			Equity	424,123	48,799.592	1.501%
JNLJPMorgan MidCap Growth Fund	Ingersoll Rand Inc.			Equity	283,310	27,809.710	0.855%
JNLJPMorgan MidCap Growth Fund	Trans Technologies Public Limited Company			Equity	78,053	30,341.543	0.933%
JNLJPMorgan MidCap Growth Fund	Verrin Holdings Co			Equity	633,998	63,076.461	1.940%
JNLJPMorgan MidCap Growth Fund	Rocket Companies, Inc.			Equity	1,409,708	27,052.297	0.832%
JNLJPMorgan MidCap Growth Fund	Snowflake Inc.			Equity	79,282	9,106.331	0.280%
JNLJPMorgan MidCap Growth Fund	Palantir Technologies Inc.			Equity	502,838	18,705.574	0.575%
JNLJPMorgan MidCap Growth Fund	The Cooper Companies, Inc.			Equity	272,863	30,118.737	0.927%
JNLJPMorgan MidCap Growth Fund	GE Vernova Inc.			Equity	50,834	12,961.653	0.399%
JNLJPMorgan MidCap Growth Fund	Rubrik, Inc.			Equity	167,760	5,393.484	0.166%
Total Non Derivatives						3,250,749,250	
Derivatives						0	
Total All Investments						3,250,749,250	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLPMorgan U.S. Government & Quality Bond Fund	Cash			Cash Equivalent	73.662	73.662	0.005%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	11,159.547	9,306.063	0.683%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/1/2035	1.78	Fixed Income	15,000.000	11,787.302	0.865%
JNLPMorgan U.S. Government & Quality Bond Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	53,873.545	54,096.850	3.969%
JNLPMorgan U.S. Government & Quality Bond Fund	State Street Corporation	3/30/2031	3.15	Fixed Income	2,000.000	1,890.716	0.138%
JNLPMorgan U.S. Government & Quality Bond Fund	Hydrexid & Capital America	11/10/2028	1.80	Fixed Income	3,875.000	3,565.442	0.252%
JNLPMorgan U.S. Government & Quality Bond Fund	Kroger Co., The	1/15/2031	1.70	Fixed Income	5,000.000	4,248.854	0.312%
JNLPMorgan U.S. Government & Quality Bond Fund	BNP Paribas	1/13/2027	1.32	Fixed Income	6,470.000	6,211.259	0.456%
JNLPMorgan U.S. Government & Quality Bond Fund	i-Mobile USA, Inc.	4/15/2030	3.88	Fixed Income	10,000.000	9,907.131	0.727%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.00	Fixed Income	7,241.017	6,058.125	0.444%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	9/20/2051	3.50	Fixed Income	6,790.265	6,311.972	0.463%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	11/15/2041	2.00	Fixed Income	50,000.000	37,135.527	2.724%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	11/30/2028	1.50	Fixed Income	25,000.000	23,126.025	1.697%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	2/15/2042	2.38	Fixed Income	15,000.000	11,776.258	0.860%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	3/15/2025	1.75	Fixed Income	10,000.000	9,892.110	0.726%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/25/2031	1.76	Fixed Income	7,500.000	6,372.674	0.468%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2033	1.94	Fixed Income	10,000.000	8,357.624	0.613%
JNLPMorgan U.S. Government & Quality Bond Fund	Progress Residential 2022-SFFR3 Trust	4/19/2027	3.20	Fixed Income	3,977.254	3,868.939	0.284%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	5/15/2025	2.75	Fixed Income	10,000.000	10,010.122	0.734%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.00	Fixed Income	7,475.875	6,811.312	0.500%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.00	Fixed Income	10,371.005	9,462.044	0.694%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.50	Fixed Income	9,532.527	8,917.458	0.654%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	5/25/2032	2.58	Fixed Income	4,265.000	3,822.299	0.280%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	10/31/2027	4.13	Fixed Income	10,000.000	10,331.997	0.758%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.50	Fixed Income	21,614.266	21,402.980	1.570%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.50	Fixed Income	23,113.561	22,959.523	1.684%
JNLPMorgan U.S. Government & Quality Bond Fund	Nutrien Ltd.	11/7/2025	5.95	Fixed Income	1,225.000	1,272.949	0.093%
JNLPMorgan U.S. Government & Quality Bond Fund	Toyota Motor Credit Corporation	11/10/2027	5.45	Fixed Income	3,500.000	3,722.952	0.273%
JNLPMorgan U.S. Government & Quality Bond Fund	Bank of America Corporation	11/10/2028	6.20	Fixed Income	8,315.000	8,976.471	0.659%
JNLPMorgan U.S. Government & Quality Bond Fund	Aerens Illinois Company	12/1/2052	5.80	Fixed Income	625.000	588.375	0.043%
JNLPMorgan U.S. Government & Quality Bond Fund	S&P Equipment Leasing 2022-2 LLC	10/21/2036	6.50	Fixed Income	9,548.678	9,076.477	0.667%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/1/2031	1.90	Fixed Income	35,000.000	30,212.351	2.216%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2052	4.50	Fixed Income	21,343.558	21,268.316	1.560%
JNLPMorgan U.S. Government & Quality Bond Fund	KeyBank National Association	11/15/2027	5.85	Fixed Income	8,000.000	8,460.989	0.621%
JNLPMorgan U.S. Government & Quality Bond Fund	Penske Truck Leasing Co., L.P.	11/15/2027	5.88	Fixed Income	9,316.000	9,316.000	0.684%
JNLPMorgan U.S. Government & Quality Bond Fund	ONEOK, Inc.	11/15/2032	6.10	Fixed Income	1,520.000	1,672.014	0.123%
JNLPMorgan U.S. Government & Quality Bond Fund	Philip Morris International, Inc.	11/17/2032	5.75	Fixed Income	5,000.000	5,472.566	0.401%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	3.00	Fixed Income	13,351.930	12,176.493	0.893%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	5/15/2046	3.00	Fixed Income	5,594.000	4,392.748	0.321%
JNLPMorgan U.S. Government & Quality Bond Fund	PG&E Recovery Funding LLC	7/15/2047	5.54	Fixed Income	5,115.000	5,489.603	0.403%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/1/2050	4.00	Fixed Income	3,953.649	3,860.583	0.283%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	6,592.848	5,742.638	0.421%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/1/2047	4.00	Fixed Income	6,982.944	6,278.525	0.459%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2032	3.54	Fixed Income	1,822.000	1,757.886	0.129%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/1/2045	3.50	Fixed Income	1,988.456	1,890.407	0.139%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/25/2045	3.00	Fixed Income	13,756.569	12,211.009	0.896%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.00	Fixed Income	1,296.912	1,290.912	0.094%
JNLPMorgan U.S. Government & Quality Bond Fund	CSAL 2015-C3 Commercial Mortgage Trust	7/17/2025	3.72	Fixed Income	8,775.000	8,691.487	0.638%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	1/1/2046	3.50	Fixed Income	5,197.052	4,913.083	0.360%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	2/15/2048	3.00	Fixed Income	10,000.000	8,169.565	0.599%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2047	3.50	Fixed Income	1,985.436	1,840.160	0.135%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2046	3.00	Fixed Income	753.099	692.213	0.051%
JNLPMorgan U.S. Government & Quality Bond Fund	GS Mortgage Securities Trust 2017-GS7	7/12/2027	3.43	Fixed Income	10,500.000	10,103.663	0.741%
JNLPMorgan U.S. Government & Quality Bond Fund	UBS-BAMLL Trust	6/12/2030	3.66	Fixed Income	144.507	134.627	0.010%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	7/20/2063	6.01	Fixed Income	1,117.343	1,119.375	0.082%
JNLPMorgan U.S. Government & Quality Bond Fund	WACVI Trust 2005-6	6/25/2036	5.14	Fixed Income	5.147	5.147	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Alternative Loan Trust 2006-OA9	7/20/2046	5.50	Fixed Income	148.047	123.234	0.009%
JNLPMorgan U.S. Government & Quality Bond Fund	Alternative Loan Trust 2006-OA17	12/20/2046	5.27	Fixed Income	257.263	233.943	0.017%
JNLPMorgan U.S. Government & Quality Bond Fund	Morgan Stanley Mortgage Loan Trust 2004-SAR	10/25/2034	6.07	Fixed Income	36.758	29.865	0.002%
JNLPMorgan U.S. Government & Quality Bond Fund	Structured Asset Mortgage Investments II Trust 2006-AR7	11/1/2039	5.39	Fixed Income	218.901	177.877	0.013%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/25/2040		Fixed Income	24.557	19.648	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	MASTR Adjustable Rate Mortgages Trust 2004-10	2/25/2034	4.02	Fixed Income	187.642	161.931	0.012%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	4/15/2029	6.00	Fixed Income	48	48	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Nomura Credit & Capital, Inc.	3/25/2034	6.00	Fixed Income	1,046.627	906.365	0.067%
JNLPMorgan U.S. Government & Quality Bond Fund	U.S. Department of Veterans Affairs	2/15/2031	6.75	Fixed Income	318.530	338.973	0.025%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	5/15/2032	6.00	Fixed Income	168	175	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/25/2028	3.66	Fixed Income	3,350.612	3,302.419	0.242%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	9/1/2033	6.00	Fixed Income	266.303	235.603	0.018%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	12/16/2033	6.00	Fixed Income	389.651	402.497	0.030%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	1/15/2034	6.00	Fixed Income	984	1,022	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	1/15/2034	6.00	Fixed Income	1,680	1,741	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	9/1/2034	6.00	Fixed Income	42,116	42,116	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	9/15/2034	6.00	Fixed Income	2,621	2,730	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	9/15/2034	6.00	Fixed Income	6,070	6,334	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	4/15/2035	6.00	Fixed Income	1,077	7,307	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2027	5.50	Fixed Income	213.500	213.500	0.016%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	4/15/2035	6.00	Fixed Income	12.763	13,317	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	5/15/2035	6.00	Fixed Income	35.344	36.808	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2028	6.00	Fixed Income	6,827	7,011	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	5/15/2035	6.00	Fixed Income	846	801	0.006%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	6/15/2035	6.00	Fixed Income	234	244	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	7/15/2035	6.00	Fixed Income	34,715	36,153	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	7/15/2035	6.00	Fixed Income	66,332	69,093	0.005%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	11/15/2036	6.00	Fixed Income	66,914	69,714	0.005%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2031	7.00	Fixed Income	90	90	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2032	7.00	Fixed Income	3,420	3,615	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2032	7.00	Fixed Income	2,932	3,091	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	12/20/2037	5.50	Fixed Income	539.132	559.115	0.041%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2034	7.00	Fixed Income	291	291	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	4/15/2032	4.50	Fixed Income	54,407	54,867	0.004%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2032	7.00	Fixed Income	153	161	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/1/2025	4.00	Fixed Income	18,501	18,475	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2025	4.50	Fixed Income	23,663	23,663	0.002%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2026	6.50	Fixed Income	142	147	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	7/15/2033	5.00	Fixed Income	328.349	336.099	0.025%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2033	5.00	Fixed Income	42,898	44,004	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/23/2035	6.00	Fixed Income	4,000.000	3,503.511	0.257%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2029	7.00	Fixed Income	2,129	2,223	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/1/2029	8.00	Fixed Income	543	565	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	1/1/2030	8.00	Fixed Income	1,323	1,381	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/1/2030	8.00	Fixed Income	607	607	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2034	5.00	Fixed Income	178.890	183.812	0.013%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/1/2030	8.00	Fixed Income	143	148	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Healthpeak OP, LLC	2/1/2025	3.40	Fixed Income	93.000	93.023	0.007%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/15/2035	5.00	Fixed Income	461.952	474.705	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2030	6.00	Fixed Income	560	560	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	1/1/2031	8.00	Fixed Income	153	160	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	1/1/2031	8.00	Fixed Income	4,306	4,487	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/1/2031	6.00	Fixed Income	6,218	6,445	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/1/2031	7.50	Fixed Income	2,073	2,203	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2031	8.00	Fixed Income	181	191	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	7/15/2036	5.50	Fixed Income	407.448	424.167	0.031%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	4/15/2037	5.50	Fixed Income	139.492	145.459	0.011%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2033	3.50	Fixed Income	12.692	12.812	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	7/15/2037	6.00	Fixed Income	274.701	289.906	0.021%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2035	5.50	Fixed Income	62.858	64.721	0.005%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/25/2036		Fixed Income	295.683	299.978	0.018%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2035	5.00	Fixed Income	12,304	12,640	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2035	5.00	Fixed Income	1,218	1,248	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2035	6.00	Fixed Income	15,157	15,891	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2035	6.00	Fixed Income	833	875	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2035	6.00	Fixed Income	11,481	12,063	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	6.00	Fixed Income	19,959	20,979	0.002%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	6.00	Fixed Income	6,895		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	6.00	Fixed Income	5,962	6,290	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	5.50	Fixed Income	11,169	11,169	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	5.50	Fixed Income	6,121	6,370	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	6.00	Fixed Income	2,153	2,261	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	5.50	Fixed Income	885	924	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	5.50	Fixed Income	1,549	1,622	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	6.00	Fixed Income	4,574	4,824	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	6.00	Fixed Income	77,316	81,253	0.006%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	6.00	Fixed Income	1,129,853	1,187,686	0.087%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2027	3.59	Fixed Income	1,866,145	1,846,234	0.135%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	5.50	Fixed Income	2,991	3,130	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	6.00	Fixed Income	6,273	6,616	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	6.00	Fixed Income	11,997	12,619	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	5.50	Fixed Income	609	636	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	5.50	Fixed Income	3,816	3,989	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	8/1/2036	6.00	Fixed Income	2,804	2,943	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	8/1/2036	5.50	Fixed Income	3,756	3,930	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	8/1/2036	6.00	Fixed Income	6,591	6,938	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	8/1/2036	5.50	Fixed Income	542	572	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2036	6.00	Fixed Income	10,136	10,680	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2036	6.00	Fixed Income	1,472	1,550	0.000%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/1/2036	6.00	Fixed Income	26,766	28,218	0.002%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/25/2041	7.50	Fixed Income	1,277,623	1,352,033	0.099%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/25/2043	4.68	Fixed Income	830,718	825,359	0.061%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/25/2049	5.99	Fixed Income	100,619	106,314	0.008%
JNLPMorgan U.S. Government & Quality Bond Fund	Eleven Madison Trust 2015-11MD Mortgage Trust	9/11/2025	3.67	Fixed Income	2,989,000	2,916,975	0.214%
JNLPMorgan U.S. Government & Quality Bond Fund	Enterprise Products Operating, LLC	2/15/2024	3.70	Fixed Income	1,013,239	1,013,239	0.074%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/15/2026	5.50	Fixed Income	132,035	132,693	0.010%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	1/31/2026	2.63	Fixed Income	25,000,000	24,727,751	1.814%
JNLPMorgan U.S. Government & Quality Bond Fund	BBGMS Trust 2015-VFM	3/12/2026	2.47	Fixed Income	666,841	648,990	0.048%
JNLPMorgan U.S. Government & Quality Bond Fund	FHLBanks Office of Finance	6/12/2026	5.75	Fixed Income	5,000,000	5,248,279	0.385%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	6/15/2036	4.50	Fixed Income	221,865	221,834	0.016%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	8/15/2026	4.50	Fixed Income	10,313	10,327	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	11/15/2026	2.00	Fixed Income	17,000,000	16,559,986	1.215%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	2/15/2027	2.25	Fixed Income	65,000,000	63,186,009	4.635%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	7/1/2027	2.50	Fixed Income	40,000,000	38,664,190	2.876%
JNLPMorgan U.S. Government & Quality Bond Fund	Worldwide Plaza Trust 2017-WWP	11/12/2027	3.53	Fixed Income	3,939,000	2,646,888	0.194%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2025	3.18	Fixed Income	4,535,326	4,499,027	0.330%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	1/1/2026	3.10	Fixed Income	7,500,000	6,787,770	0.542%
JNLPMorgan U.S. Government & Quality Bond Fund	Resolution Funding Corporation	11/20/2040	5.00	Fixed Income	10,660,000	16,848,507	1.296%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2027	3.33	Fixed Income	2,206,700	2,182,951	0.160%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2027	3.04	Fixed Income	1,921,431	1,887,536	0.138%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	10/15/2030	5.00	Fixed Income	62,720	62,877	0.005%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/25/2027	3.10	Fixed Income	1,897,787	1,901,511	0.138%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	4/15/2031	3.00	Fixed Income	290,074	288,606	0.021%
JNLPMorgan U.S. Government & Quality Bond Fund	Credit Suisse Securities (USA) LLC	9/25/2034	6.00	Fixed Income	124,212	123,581	0.009%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	5/16/2038	1.19	Fixed Income	546,681	38,220	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	5/15/2033	3.00	Fixed Income	3,474,454	3,316,889	0.249%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	2/15/2035	5.00	Fixed Income	2,665,077	2,736,627	0.201%
JNLPMorgan U.S. Government & Quality Bond Fund	Tennessee Valley Authority	7/15/2037		Fixed Income	6,000,000	3,380,457	0.248%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	6/15/2036	4.00	Fixed Income	376,014	371,983	0.027%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	12/15/2037	1.05	Fixed Income	840,371	85,716	0.006%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/25/2032	3.50	Fixed Income	5,556,156	5,443,266	0.399%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/25/2032	3.00	Fixed Income	2,769,246	2,624,017	0.193%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/25/2033	3.00	Fixed Income	5,031,337	4,836,166	0.355%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/25/2034	4.50	Fixed Income	1,670,568	1,675,183	0.123%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/25/2034	3.00	Fixed Income	2,138,598	2,088,571	0.153%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	4/20/2039	3.00	Fixed Income	75,776	75,526	0.006%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/1/2035	5.50	Fixed Income	376,040	381,592	0.029%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	6/20/2039	4.50	Fixed Income	997,267	996,877	0.073%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	5/20/2040	5.00	Fixed Income	881,241	699,200	0.051%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/25/2035	3.50	Fixed Income	3,734,744	3,629,324	0.269%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/25/2035	3.50	Fixed Income	4,156,205	3,998,457	0.293%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2035	3.00	Fixed Income	5,053,066	4,718,595	0.344%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	5/20/2040	3.00	Fixed Income	11,660,182	11,660,182	0.861%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/25/2036	3.50	Fixed Income	5,617,703	5,315,525	0.390%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/5/2040	3.00	Fixed Income	2,726,633	2,579,968	0.189%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2036	5.50	Fixed Income	56,274	58,796	0.004%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/25/2037	6.00	Fixed Income	17,412	17,412	0.001%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	7/15/2040	5.50	Fixed Income	385,035	396,342	0.029%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2040	4.50	Fixed Income	271,788	275,508	0.020%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	11/5/2041	3.50	Fixed Income	1,160,101	1,152,550	0.085%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	4/20/2042	5.00	Fixed Income	4,622,684	4,436,314	0.328%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	8/15/2042	3.00	Fixed Income	2,145,660	2,044,617	0.150%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	11/15/2043	3.75	Fixed Income	48,000,000	45,837,389	3.363%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	2/15/2044	1.38	Fixed Income	33,250,000	40,992,063	3.007%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/25/2043	5.00	Fixed Income	1,867,812	1,953,678	0.066%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/1/2039	5.00	Fixed Income	2,133,110	2,199,146	0.161%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	2/15/2045	2.50	Fixed Income	5,143,000	4,161,281	0.305%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/25/2040	4.50	Fixed Income	42,473	42,388	0.003%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2040	4.00	Fixed Income	473,863	472,124	0.036%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/1/2040	5.00	Fixed Income	1,592,243	1,642,888	0.121%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	12/25/2040	4.50	Fixed Income	1,398,399	1,372,233	0.101%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	5/15/2045	3.00	Fixed Income	27,500,000	23,175,287	1.700%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	7/15/2045	3.00	Fixed Income	3,715,000	3,159,652	0.232%
JNLPMorgan U.S. Government & Quality Bond Fund	Government National Mortgage Association	10/1/2045	3.00	Fixed Income	12,871,881	11,633,411	0.864%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/25/2042	3.00	Fixed Income	497,353	483,621	0.036%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2042	4.00	Fixed Income	12,845,453	12,647,302	0.928%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/25/2042	5.75	Fixed Income	363,081	375,870	0.028%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/25/2042	5.00	Fixed Income	4,000,000	3,912,812	0.290%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/25/2042	3.00	Fixed Income	2,642,585	2,447,360	0.180%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2043	3.00	Fixed Income	1,759,044	1,631,901	0.120%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2045	3.00	Fixed Income	2,262,881	2,160,774	0.159%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2045	3.50	Fixed Income	2,086,826	2,086,236	0.156%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2045	4.00	Fixed Income	713,738	700,729	0.051%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	8/15/2049	2.25	Fixed Income	5,000,000	3,478,431	0.255%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/25/2037	3.00	Fixed Income	5,061,314	4,590,773	0.337%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Farm Credit Banks Funding Corporation	4/28/2037	3.25	Fixed Income	7,602,000	6,978,527	0.525%
JNLPMorgan U.S. Government & Quality Bond Fund	Wells Fargo Commercial Mortgage Trust 2019-CS3	9/1/2029	3.04	Fixed Income	6,000,000	5,601,663	0.411%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2046	3.50	Fixed Income	3,819,804	3,605,120	0.264%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	5/25/2048	2.50	Fixed Income	1,846,993	1,715,389	0.126%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/1/2042	3.50	Fixed Income	4,345,711	4,047,067	0.301%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/1/2043	3.50	Fixed Income	4,247,816	4,053,709	0.297%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2049	2.50	Fixed Income	3,600,643	3,194,395	0.234%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	9/25/2049	2.50	Fixed Income	4,968,378	3,961,682	0.291%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	4/25/2034	2.85	Fixed Income	9,900,000	7,795,592	0.572%
JNLPMorgan U.S. Government & Quality Bond Fund	GS Mortgage Securities Trust 2020-GC45	12/14/2039	3.91	Fixed Income	10,000,000	9,199,868	0.675%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	1/1/2050	3.50	Fixed Income	1,740,639	1,640,634	0.120%
JNLPMorgan U.S. Government & Quality Bond Fund	Morgan Stanley	12/22/2031	2.70	Fixed Income	4,300,000	3,960,383	0.291%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2046	2.50	Fixed Income	5,195,609	4,872,321	0.357%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	2/15/2050	2.00	Fixed Income	30,000,000	19,623,505	1.440%
JNLPMorgan U.S. Government & Quality Bond Fund	Citigroup Commercial Mortgage Trust 2020-GC46	2/15/2030	2.72	Fixed Income	8,750,000	7,885,390	0.578%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	2/1/2050	3.00	Fixed Income	1,798,963	1,637,218	0.120%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2049	3.50	Fixed Income	718,539	677,257	0.050%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/25/2050	2.00	Fixed Income	8,843,372	7,551,763	0.538%
JNLPMorgan U.S. Government & Quality Bond Fund	Bank 2020-BNK26	2/15/2030	2.40	Fixed Income	5,000,000	4,465,298	0.328%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	8/25/2059	3.00	Fixed Income	6,557,010	5,854,741	0.430%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	7/25/2049	3.00	Fixed Income	8,720,684	8,055,392	0.591%
JNLPMorgan U.S. Government & Quality Bond Fund	Archer Daniels Midland Company	3/27/2039	3.25	Fixed Income	2,625,000	2,503,690	0.187%
JNLPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	3/31/2027	0.63	Fixed Income	25,000,000	23,238,709	1.705%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	9/25/2049	2.50	Fixed Income	4,371,412	3,918,282	0.287%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2034	2.41	Fixed Income	10,103,747	8,743,380	0.641%
JNLPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	8/1/2033	2.52	Fixed Income	7,040,000	6,463,397	0.481%
JNLPMorgan U.S. Government &							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLJPMorgan U.S. Government & Quality Bond Fund	FirstKey Homes 2020-SFR1 Trust	9/18/2025	1.34	Fixed Income	6,164,664	5,970,855	0.438%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	3/25/2035	2.01	Fixed Income	9,937,024	7,932,404	0.582%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2037	2.04	Fixed Income	5,214,144	4,050,095	0.297%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2050	2.00	Fixed Income	13,435,235	11,203,783	0.822%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	5/25/2050	1.16	Fixed Income	4,473,047	4,117,766	0.302%
JNLJPMorgan U.S. Government & Quality Bond Fund	CP Allie Buyer, Inc.	11/17/2025	1.27	Fixed Income	7,943,762	7,067,996	0.563%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.50	Fixed Income	6,810,499	5,940,734	0.436%
JNLJPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	2/15/2043	3.88	Fixed Income	13,000,000	12,609,338	0.925%
JNLJPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	5/15/2043	3.88	Fixed Income	5,000,000	4,887,245	0.359%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	11/1/2052	5.00	Fixed Income	11,294,864	11,368,457	0.834%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.00	Fixed Income	11,809,788	11,853,522	0.870%
JNLJPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	6/30/2028	4.00	Fixed Income	20,000,000	20,502,174	1.504%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	8/25/2032	3.53	Fixed Income	6,000,000	5,775,521	0.424%
JNLJPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	6/30/2026	4.63	Fixed Income	20,000,000	20,540,014	1.507%
JNLJPMorgan U.S. Government & Quality Bond Fund	Treasury, United States Department of	8/15/2034	3.98	Fixed Income	10,000,000	10,118,240	0.742%
JNLJPMorgan U.S. Government & Quality Bond Fund	Federal Home Loan Mortgage Corporation	5/25/2064	3.50	Fixed Income	3,063,931	2,776,351	0.204%
Total Non Derivatives						1,363,108,473	
Derivatives							
Total Derivatives						0	
Total All Investments						1,363,108,473	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLJPMorgan U.S. Value Fund	Cash			Cash Equivalent	690.507	690.507	0.039%
JNLJPMorgan U.S. Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,359,374	4,386,629	0.251%
JNLJPMorgan U.S. Value Fund	Ball Corporation			Equity	107,680	7,312,549	0.418%
JNLJPMorgan U.S. Value Fund	Comcast Corporation			Equity	534,462	22,324,478	1.276%
JNLJPMorgan U.S. Value Fund	International Business Machines Corporation			Equity	51,389	11,361,090	0.649%
JNLJPMorgan U.S. Value Fund	Analog Devices, Inc.			Equity	139,162	31,800,748	1.818%
JNLJPMorgan U.S. Value Fund	Berkshire Hathaway Inc.			Equity	88,379	40,677,319	2.325%
JNLJPMorgan U.S. Value Fund	Bristol-Myers Squibb Company			Equity	433,115	22,409,370	1.281%
JNLJPMorgan U.S. Value Fund	Advanced Micro Devices, Inc.			Equity	82,648	13,560,884	0.775%
JNLJPMorgan U.S. Value Fund	AutoZone, Inc.			Equity	5,842	17,772,526	1.012%
JNLJPMorgan U.S. Value Fund	American Express Company			Equity	95,136	25,800,883	1.475%
JNLJPMorgan U.S. Value Fund	Boston Scientific Corporation			Equity	227,525	19,066,595	1.090%
JNLJPMorgan U.S. Value Fund	Air Products and Chemicals, Inc.			Equity	96,777	29,707,604	1.689%
JNLJPMorgan U.S. Value Fund	Becton, Dickinson and Company			Equity	45,894	11,065,436	0.632%
JNLJPMorgan U.S. Value Fund	Home Depot, Inc., The			Equity	65,519	26,548,299	1.517%
JNLJPMorgan U.S. Value Fund	M&T Bank Corporation			Equity	105,429	18,779,013	1.073%
JNLJPMorgan U.S. Value Fund	EOG Resources, Inc.			Equity	189,293	23,669,788	1.350%
JNLJPMorgan U.S. Value Fund	Entergy Corporation			Equity	47,042	6,191,198	0.354%
JNLJPMorgan U.S. Value Fund	Deere & Company			Equity	31,911	13,364,327	0.764%
JNLJPMorgan U.S. Value Fund	CMS Energy Corporation			Equity	246,222	17,390,660	0.994%
JNLJPMorgan U.S. Value Fund	General Dynamics Corporation			Equity	95,709	28,923,260	1.653%
JNLJPMorgan U.S. Value Fund	Walt Disney Company, The			Equity	80,489	7,742,237	0.443%
JNLJPMorgan U.S. Value Fund	Humana Inc.			Equity	31,302	9,942,298	0.569%
JNLJPMorgan U.S. Value Fund	Fiserv, Inc.			Equity	96,810	17,391,917	0.994%
JNLJPMorgan U.S. Value Fund	NextEra Energy, Inc.			Equity	268,143	22,666,128	1.296%
JNLJPMorgan U.S. Value Fund	Exxon Mobil Corporation			Equity	268,617	31,457,285	1.800%
JNLJPMorgan U.S. Value Fund	First Citizens BancShares, Inc.			Equity	3,979	7,325,140	0.419%
JNLJPMorgan U.S. Value Fund	CSX Corporation			Equity	946,587	32,685,649	1.868%
JNLJPMorgan U.S. Value Fund	Republic Services, Inc.			Equity	45,883	9,215,142	0.527%
JNLJPMorgan U.S. Value Fund	Dow Chemical Corporation			Equity	136,923	26,637,096	1.522%
JNLJPMorgan U.S. Value Fund	Morgan Stanley			Equity	267,872	5,922,977	0.341%
JNLJPMorgan U.S. Value Fund	Bank of America Corporation			Equity	968,947	38,447,817	2.198%
JNLJPMorgan U.S. Value Fund	BlackRock, Inc.			Equity	21,297	20,221,714	1.156%
JNLJPMorgan U.S. Value Fund	MetLife, Inc.			Equity	246,553	20,335,691	1.162%
JNLJPMorgan U.S. Value Fund	XCEL Energy Inc.			Equity	178,543	11,572,791	0.672%
JNLJPMorgan U.S. Value Fund	U.S. Bancorp			Equity	112,399	5,196,206	0.297%
JNLJPMorgan U.S. Value Fund	Johnson & Johnson			Equity	147,229	23,859,932	1.364%
JNLJPMorgan U.S. Value Fund	Merck & Co., Inc.			Equity	85,368	9,760,441	0.559%
JNLJPMorgan U.S. Value Fund	McDonald's Corporation			Equity	68,111	12,740,493	0.735%
JNLJPMorgan U.S. Value Fund	Public Service Enterprise Group Incorporated			Equity	225,363	20,104,633	1.149%
JNLJPMorgan U.S. Value Fund	Zimmer Biomet Holdings, Inc.			Equity	48,341	5,230,013	0.299%
JNLJPMorgan U.S. Value Fund	United Parcel Service, Inc.			Equity	193,853	26,429,918	1.511%
JNLJPMorgan U.S. Value Fund	Marsh & McLennan Companies, Inc.			Equity	46,985	10,483,884	0.599%
JNLJPMorgan U.S. Value Fund	Hartford Financial Services Group, Inc., The			Equity	161,090	19,026,537	1.087%
JNLJPMorgan U.S. Value Fund	The PNC Financial Services Group, Inc.			Equity	101,267	18,719,205	1.070%
JNLJPMorgan U.S. Value Fund	PepsiCo, Inc.			Equity	71,740	12,199,387	0.697%
JNLJPMorgan U.S. Value Fund	Parker-Hannifin Corporation			Equity	30,443	19,034,493	1.094%
JNLJPMorgan U.S. Value Fund	ConocoPhillips			Equity	370,663	39,023,401	2.230%
JNLJPMorgan U.S. Value Fund	Regeneron Pharmaceuticals, Inc.			Equity	13,356	14,040,361	0.803%
JNLJPMorgan U.S. Value Fund	Eli Lilly and Company			Equity	10,392	9,206,688	0.526%
JNLJPMorgan U.S. Value Fund	Goldman Sachs Group, Inc., The			Equity	16,637	8,073,145	0.471%
JNLJPMorgan U.S. Value Fund	Pfizer Inc.			Equity	245,770	7,112,584	0.407%
JNLJPMorgan U.S. Value Fund	Procter & Gamble Company, The			Equity	126,031	21,826,569	1.248%
JNLJPMorgan U.S. Value Fund	Charles Schwab Corporation, The			Equity	456,543	29,588,552	1.691%
JNLJPMorgan U.S. Value Fund	Microsoft Corporation			Equity	59,145	25,450,096	1.455%
JNLJPMorgan U.S. Value Fund	Micron Technology, Inc.			Equity	55,599	5,766,172	0.330%
JNLJPMorgan U.S. Value Fund	Capital One Financial Corporation			Equity	59,384	8,891,566	0.508%
JNLJPMorgan U.S. Value Fund	Ares Management Corporation			Equity	97,294	15,162,297	0.867%
JNLJPMorgan U.S. Value Fund	Lowe's Companies, Inc.			Equity	116,733	31,617,433	1.897%
JNLJPMorgan U.S. Value Fund	Northrop Grumman Corporation			Equity	23,523	12,421,791	0.710%
JNLJPMorgan U.S. Value Fund	Wells Fargo & Company			Equity	769,012	43,441,488	2.483%
JNLJPMorgan U.S. Value Fund	Texas Instruments Incorporated			Equity	150,378	31,063,583	1.775%
JNLJPMorgan U.S. Value Fund	Legacy Vulcan Corp.			Equity	85,335	21,370,444	1.221%
JNLJPMorgan U.S. Value Fund	Western Digital Corporation			Equity	193,838	13,237,197	0.757%
JNLJPMorgan U.S. Value Fund	Vertex Pharmaceuticals Incorporated			Equity	31,382	14,595,141	0.834%
JNLJPMorgan U.S. Value Fund	Union Pacific Corporation			Equity	77,407	19,079,277	1.091%
JNLJPMorgan U.S. Value Fund	Thermo Fisher Scientific Inc.			Equity	11,757	7,277,154	0.416%
JNLJPMorgan U.S. Value Fund	Walmart Inc.			Equity	314,596	25,403,827	1.452%
JNLJPMorgan U.S. Value Fund	Chevron Corporation			Equity	221,274	32,587,022	1.863%
JNLJPMorgan U.S. Value Fund	UnitedHealth Group Incorporated			Equity	80,276	46,935,772	2.683%
JNLJPMorgan U.S. Value Fund	Universal Health Services, Inc.			Equity	46,717	10,698,660	0.612%
JNLJPMorgan U.S. Value Fund	TXU Companies, Inc. The			Equity	215,797	25,364,779	1.450%
JNLJPMorgan U.S. Value Fund	NXP Semiconductors N.V.			Equity	76,684	18,483,377	1.056%
JNLJPMorgan U.S. Value Fund	O'Reilly Automotive, Inc.			Equity	11,249	12,954,348	0.740%
JNLJPMorgan U.S. Value Fund	Chubb Limited			Equity	70,533	20,405,768	1.166%
JNLJPMorgan U.S. Value Fund	Philip Morris International Inc.			Equity	242,897	29,815,607	1.704%
JNLJPMorgan U.S. Value Fund	Meta Platforms, Inc.			Equity	30,918	17,698,700	1.012%
JNLJPMorgan U.S. Value Fund	T-Mobile US, Inc.			Equity	41,237	8,509,667	0.486%
JNLJPMorgan U.S. Value Fund	Mondelēz International, Inc.			Equity	187,947	13,934,391	0.796%
JNLJPMorgan U.S. Value Fund	AbbVie Inc.			Equity	149,974	19,616,866	1.133%
JNLJPMorgan U.S. Value Fund	Edison Corporation Public Limited Company			Equity	82,571	27,387,132	1.564%
JNLJPMorgan U.S. Value Fund	The Cigna Group			Equity	45,773	15,857,598	0.906%
JNLJPMorgan U.S. Value Fund	Booking Holdings Inc.			Equity	2,587	10,896,754	0.623%
JNLJPMorgan U.S. Value Fund	Acacia Coating Systems Ltd.			Equity	721,130	26,097,695	1.492%
JNLJPMorgan U.S. Value Fund	Alphabet Inc.			Equity	70,183	11,733,896	0.671%
JNLJPMorgan U.S. Value Fund	Medtronic, Inc.			Equity	161,395	14,643,368	0.837%
JNLJPMorgan U.S. Value Fund	ProLogis Inc.			Equity	40,996	5,176,875	0.296%
JNLJPMorgan U.S. Value Fund	Host Hotels & Resorts, Inc.			Equity	425,956	7,562,017	0.433%
JNLJPMorgan U.S. Value Fund	AvantorBay Communities, Inc.			Equity	26,424	5,986,927	0.343%
JNLJPMorgan U.S. Value Fund	Ventris, Inc.			Equity	187,777	12,042,139	0.688%
JNLJPMorgan U.S. Value Fund	Blackstone Inc.			Equity	112,998	17,303,384	0.989%
JNLJPMorgan U.S. Value Fund	Walter Energy Inc.			Equity	1,503,000	0	0.000%
JNLJPMorgan U.S. Value Fund	Carrier Global Corporation	1/1/2200		Fixed Income	426,063	34,293,911	1.960%
JNLJPMorgan U.S. Value Fund	RTX Corporation			Equity	186,601	22,608,577	1.292%
Total Non Derivatives						1,749,574,158	
Derivatives							
Total Derivatives						0	
Total All Investments						1,749,574,158	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Lazard International Strategic Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	14,231,223	14,254,946	2.874%
JNL/Lazard International Strategic Equity Fund	The Phoenix Holdings Ltd			Equity	480,490	5,404,957	1.090%
JNL/Lazard International Strategic Equity Fund	Hexagon Aksebolag			Equity	443,384	4,769,221	0.962%
JNL/Lazard International Strategic Equity Fund	JD Sports Fashion PLC			Equity	3,344,239	6,905,455	1.392%
JNL/Lazard International Strategic Equity Fund	Ashstead Group Public Limited Company			Equity	83,282	6,457,330	1.302%
JNL/Lazard International Strategic Equity Fund	CRH Public Limited Company			Equity	108,862	10,095,882	2.035%
JNL/Lazard International Strategic Equity Fund	Infineon Technologies AG			Equity	186,300	6,544,046	1.319%
JNL/Lazard International Strategic Equity Fund	KBC Groep			Equity	64,480	5,129,796	1.034%
JNL/Lazard International Strategic Equity Fund	MERCK Kommanditgesellschaft auf Aktien			Equity	61,813	10,888,277	2.197%
JNL/Lazard International Strategic Equity Fund	Siemens Aktiengesellschaft			Equity	38,999	7,898,736	1.592%
JNL/Lazard International Strategic Equity Fund	Torontor Industries Ltd.			Equity	109,971	10,774,389	2.172%
JNL/Lazard International Strategic Equity Fund	EDP, S.A.			Equity	1,443,039	6,589,229	1.328%
JNL/Lazard International Strategic Equity Fund	Permot Ricard			Equity	28,184	4,253,860	0.858%
JNL/Lazard International Strategic Equity Fund	Carlsberg A/S			Equity	82,609	9,841,047	1.984%
JNL/Lazard International Strategic Equity Fund	Airbus SE			Equity	48,145	7,047,601	1.421%
JNL/Lazard International Strategic Equity Fund	DISCO Corporation			Equity	17,400	4,644,592	0.938%
JNL/Lazard International Strategic Equity Fund	Keyence Corporation			Equity	19,600	9,379,955	1.891%
JNL/Lazard International Strategic Equity Fund	Mitsubishi Electric Corporation			Equity	206,400	3,384,491	0.682%
JNL/Lazard International Strategic Equity Fund	Hoya Corporation			Equity	59,800	8,279,124	1.669%
JNL/Lazard International Strategic Equity Fund	Mizuho Financial Group, Inc.			Equity	96,600	1,994,635	0.402%
JNL/Lazard International Strategic Equity Fund	FANUC Corporation			Equity	123,600	3,621,747	0.730%
JNL/Lazard International Strategic Equity Fund	Israel Discount Bank Limited			Equity	1,727,983	9,650,482	1.947%
JNL/Lazard International Strategic Equity Fund	ABB Ltd			Equity	189,477	10,993,828	2.216%
JNL/Lazard International Strategic Equity Fund	Shimadzu Corporation			Equity	179,400	6,002,013	1.210%
JNL/Lazard International Strategic Equity Fund	Renesas Electronics Corporation			Equity	488,400	7,116,050	1.435%
JNL/Lazard International Strategic Equity Fund	Nippon Sanso Holdings Corporation			Equity	333,800	12,217,872	2.463%
JNL/Lazard International Strategic Equity Fund	Teichtron Industries Company Limited			Equity	525,500	7,896,890	1.592%
JNL/Lazard International Strategic Equity Fund	Suzuki Motor Corporation			Equity	453,500	5,082,520	1.027%
JNL/Lazard International Strategic Equity Fund	Experian PLC			Equity	158,888	8,373,580	1.688%
JNL/Lazard International Strategic Equity Fund	Gemshiemer AG			Equity	47,267	4,216,118	0.850%
JNL/Lazard International Strategic Equity Fund	Engie			Equity	449,888	7,772,328	1.557%
JNL/Lazard International Strategic Equity Fund	MTU Aero Engines AG			Equity	27,187	8,484,422	1.711%
JNL/Lazard International Strategic Equity Fund	London Stock Exchange Group PLC			Equity	76,628	10,464,315	2.110%
JNL/Lazard International Strategic Equity Fund	Relx PLC			Equity	315,384	14,881,698	3.000%
JNL/Lazard International Strategic Equity Fund	Element Fleet Management Corp.			Equity	19,657	418,450	0.084%
JNL/Lazard International Strategic Equity Fund	Accenture Public Limited Company			Equity	14,249	5,036,737	1.015%
JNL/Lazard International Strategic Equity Fund	Suncor Energy Inc.			Equity	98,270	3,627,223	0.731%
JNL/Lazard International Strategic Equity Fund	WPP 2012 Limited			Equity	539,085	5,523,948	1.114%
JNL/Lazard International Strategic Equity Fund	Coca-Cola Europacific Partners PLC			Equity	156,807	12,365,330	2.491%
JNL/Lazard International Strategic Equity Fund	ASML Holding N.V.			Equity	22,029	18,402,945	3.710%
JNL/Lazard International Strategic Equity Fund	Icon Public Limited Company			Equity	53,802	15,457,853	3.116%
JNL/Lazard International Strategic Equity Fund	Compass Group PLC			Equity	263,078	8,438,948	1.701%
JNL/Lazard International Strategic Equity Fund	Wix Com Ltd			Equity	30,203	5,049,036	1.018%
JNL/Lazard International Strategic Equity Fund	James Hardie Industries Public Limited Company			Equity	145,411	5,809,887	1.171%
JNL/Lazard International Strategic Equity Fund	Informa PLC			Equity	888,214	9,768,950	1.969%
JNL/Lazard International Strategic Equity Fund	Ryanair Holdings Public Limited Company			Equity	105,910	4,785,014	0.965%
JNL/Lazard International Strategic Equity Fund	Medtronic, Inc.			Equity	81,715	7,414,002	1.495%
JNL/Lazard International Strategic Equity Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	372,450	16,379,905	3.302%
JNL/Lazard International Strategic Equity Fund	Baycurrent Inc.			Equity	206,800	7,663,172	1.545%
JNL/Lazard International Strategic Equity Fund	Banco Comercial Portugues S.A.			Equity	10,140,748	4,587,827	0.925%
JNL/Lazard International Strategic Equity Fund	CTS Evonim AG & Co. KGaA			Equity	68,891	7,179,775	1.447%
JNL/Lazard International Strategic Equity Fund	Kobe Bussan Co., Ltd.			Equity	174,400	5,435,670	1.096%
JNL/Lazard International Strategic Equity Fund	AON Public Limited Company			Equity	39,585	13,696,014	2.761%
JNL/Lazard International Strategic Equity Fund	BAWAG Group AG			Equity	71,495	5,547,326	1.118%
JNL/Lazard International Strategic Equity Fund	Davide Campari-Milano N.V.			Equity	157,049	1,330,569	0.268%
JNL/Lazard International Strategic Equity Fund	Santo Company, Ltd.			Equity	244,200	7,080,350	1.427%
JNL/Lazard International Strategic Equity Fund	VAT Group AG			Equity	16,098	8,209,690	1.655%
JNL/Lazard International Strategic Equity Fund	ULVAC, Inc.			Equity	105,900	5,632,066	1.135%
JNL/Lazard International Strategic Equity Fund	Hensoldt AG			Equity	214,023	7,044,580	1.420%
JNL/Lazard International Strategic Equity Fund	Canadian Pacific Kansas City Limited			Equity	112,799	9,663,124	1.948%
JNL/Lazard International Strategic Equity Fund	Novo Nordisk A/S			Equity	192,929	22,862,226	4.609%
JNL/Lazard International Strategic Equity Fund	Sampo Oyj			Equity	219,493	10,237,559	2.064%
JNL/Lazard International Strategic Equity Fund	Trill Holdings Inc.			Equity	1,800	43,535	0.009%
Total Non Derivatives						496,016,023	
Derivatives							
Total Derivatives						0	
Total All Investments						496,016,023	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Loomis Sayles Global Growth Fund	Cash			Cash Equivalent	99,984	99,984	0.012%
JNL Loomis Sayles Global Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	6,738,674	6,766,928	0.902%
JNL Loomis Sayles Global Growth Fund	Dowdity, Inc.			Equity	228,050	9,936,139	1.324%
JNL Loomis Sayles Global Growth Fund	Yum! Brands, Inc.			Equity	30,122	4,208,345	0.561%
JNL Loomis Sayles Global Growth Fund	Boeing Company, The			Equity	140,590	21,375,304	2.848%
JNL Loomis Sayles Global Growth Fund	Autodesk, Inc.			Equity	24,370	6,713,448	0.895%
JNL Loomis Sayles Global Growth Fund	Amazon.com, Inc.			Equity	236,267	44,023,630	5.866%
JNL Loomis Sayles Global Growth Fund	Deere & Company			Equity	10,615	4,445,562	0.592%
JNL Loomis Sayles Global Growth Fund	Expeditions International of Washington, Inc.			Equity	35,718	4,693,345	0.625%
JNL Loomis Sayles Global Growth Fund	Salesforce, Inc.			Equity	56,012	15,353,622	2.046%
JNL Loomis Sayles Global Growth Fund	Oracle Corporation			Equity	196,876	33,547,670	4.470%
JNL Loomis Sayles Global Growth Fund	Qualcomm Incorporated			Equity	60,141	10,226,977	1.363%
JNL Loomis Sayles Global Growth Fund	Microsoft Corporation			Equity	66,284	28,522,005	3.800%
JNL Loomis Sayles Global Growth Fund	Vertex Pharmaceuticals Incorporated			Equity	29,187	13,574,290	1.808%
JNL Loomis Sayles Global Growth Fund	SEI Investments Company			Equity	76,097	5,265,151	0.702%
JNL Loomis Sayles Global Growth Fund	Netflix, Inc.			Equity	44,363	31,465,345	4.193%
JNL Loomis Sayles Global Growth Fund	FANUC Corporation			Equity	414,300	12,139,884	1.618%
JNL Loomis Sayles Global Growth Fund	Abrilam Pharmaceuticals, Inc.			Equity	69,202	19,032,626	2.536%
JNL Loomis Sayles Global Growth Fund	Nestle S.A.			Equity	54,345	5,456,231	0.727%
JNL Loomis Sayles Global Growth Fund	Societe d'exploitation Hoteliere			Equity	48,966	4,007,959	0.534%
JNL Loomis Sayles Global Growth Fund	Roche Holding AG			Equity	29,489	9,394,077	1.252%
JNL Loomis Sayles Global Growth Fund	Expensia PLC			Equity	347,681	19,323,187	2.441%
JNL Loomis Sayles Global Growth Fund	Novartis AG			Equity	216,940	25,007,183	3.332%
JNL Loomis Sayles Global Growth Fund	Mercadolibre, Inc.			Equity	25,744	52,825,658	7.039%
JNL Loomis Sayles Global Growth Fund	Under Armour, Inc.			Equity	428,358	3,816,670	0.509%
JNL Loomis Sayles Global Growth Fund	Unilever PLC			Equity	91,069	5,913,073	0.788%
JNL Loomis Sayles Global Growth Fund	Reckitt Benckiser Group PLC			Equity	36,388	2,223,351	0.296%
JNL Loomis Sayles Global Growth Fund	NXP Semiconductors N.V.			Equity	50,196	12,099,136	1.612%
JNL Loomis Sayles Global Growth Fund	Tesla Inc.			Equity	136,909	35,819,502	4.773%
JNL Loomis Sayles Global Growth Fund	Visa Inc.			Equity	88,917	24,447,729	3.258%
JNL Loomis Sayles Global Growth Fund	Meta Platforms, Inc.			Equity	101,154	57,804,586	7.716%
JNL Loomis Sayles Global Growth Fund	CRISPR Therapeutics AG			Equity	188,031	8,833,696	1.177%
JNL Loomis Sayles Global Growth Fund	Baidu, Inc.			Equity	81,138	8,543,020	1.138%
JNL Loomis Sayles Global Growth Fund	Alibaba Group Holding Limited			Equity	83,700	8,862,244	1.184%
JNL Loomis Sayles Global Growth Fund	American Beverage Co Ambev			Equity	5,236,511	12,777,087	1.702%
JNL Loomis Sayles Global Growth Fund	Tencent Holdings Limited			Equity	379,300	21,057,075	2.806%
JNL Loomis Sayles Global Growth Fund	Shopify Inc.			Equity	329,809	26,430,893	3.522%
JNL Loomis Sayles Global Growth Fund	Alphabet Inc.			Equity	223,532	37,072,782	4.940%
JNL Loomis Sayles Global Growth Fund	Block, Inc.			Equity	94,612	6,384,730	0.848%
JNL Loomis Sayles Global Growth Fund	Yum China Holdings, Inc.			Equity	165,165	7,435,728	0.991%
JNL Loomis Sayles Global Growth Fund	Adyen N.V.			Equity	16,677	26,131,931	3.482%
JNL Loomis Sayles Global Growth Fund	Budweiser Brewing Company APAC Limited			Equity	910,094	1,207,226	0.161%
JNL Loomis Sayles Global Growth Fund	Trip.com Group Limited			Equity	340,840	20,256,121	2.699%
JNL Loomis Sayles Global Growth Fund	Novo Nordisk A/S			Equity	177,253	21,004,609	2.799%
JNL Loomis Sayles Global Growth Fund	Arm Holdings PLC			Equity	103,714	14,832,139	1.976%
JNL Loomis Sayles Global Growth Fund	Pluxee France			Equity	48,967	1,032,043	0.138%
Total Non Derivatives						750,489,931	
Derivatives							
Total Derivatives						0	
Total All Investments						750,489,931	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non-Derivatives							
JNLLord Abbett Short Duration Income Fund	Cash			Cash Equivalent	1,345,197	1,345,197	0.195%
JNLLord Abbett Short Duration Income Fund	Rolls-Royce PLC	10/15/2027	5.75	Fixed Income	400,000	422,961	0.061%
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	10/24/2026	1.20	Fixed Income	2,263,000	2,195,931	0.318%
JNLLord Abbett Short Duration Income Fund	PVH Corp.	7/10/2025	4.63	Fixed Income	1,159,000	1,166,757	0.169%
JNLLord Abbett Short Duration Income Fund	United Airlines Pass Through Trust 2020-1A	10/15/2027	5.88	Fixed Income	718,206	743,307	0.087%
JNLLord Abbett Short Duration Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	10,474,657	10,493,788	1.571%
JNLLord Abbett Short Duration Income Fund	Petroleos Mexicanos	1/23/2027	6.49	Fixed Income	1,003,000	1,000,832	0.145%
JNLLord Abbett Short Duration Income Fund	FirstEnergy Corp.	3/1/2025	2.05	Fixed Income	510,000	504,916	0.073%
JNLLord Abbett Short Duration Income Fund	Ford Motor Credit Company LLC	11/13/2025	3.38	Fixed Income	1,539,000	1,530,000	0.222%
JNLLord Abbett Short Duration Income Fund	Hadron, Inc.	11/19/2029	3.90	Fixed Income	1,928,000	1,884,784	0.273%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	4/15/2026	4.25	Fixed Income	2,307,000	2,327,966	0.337%
JNLLord Abbett Short Duration Income Fund	NRG Energy, Inc.	12/22/2025	2.00	Fixed Income	1,063,000	1,032,949	0.150%
JNLLord Abbett Short Duration Income Fund	DCP Midstream Operating, LP	7/15/2025	5.38	Fixed Income	443,000	449,283	0.065%
JNLLord Abbett Short Duration Income Fund	Societe Generale	12/14/2026	1.49	Fixed Income	500,000	491,241	0.070%
JNLLord Abbett Short Duration Income Fund	Genesis Energy, L.P.	7/15/2027	8.00	Fixed Income	574,000	596,366	0.086%
JNLLord Abbett Short Duration Income Fund	Dryden S3 CLO Ltd., Series 2017-53A	1/15/2031	6.68	Fixed Income	449,485	456,272	0.066%
JNLLord Abbett Short Duration Income Fund	Enlink Midstream, LLC	11/15/2028	5.63	Fixed Income	1,336,000	1,384,594	0.201%
JNLLord Abbett Short Duration Income Fund	One New York Plaza Trust 2020-1NYP	1/15/2026	6.16	Fixed Income	250,000	239,441	0.035%
JNLLord Abbett Short Duration Income Fund	Asurion LLC	12/31/2049		Fixed Income	725,000	724,174	0.105%
JNLLord Abbett Short Duration Income Fund	American Tower Corporation	1/31/2028	1.50	Fixed Income	545,000	497,948	0.072%
JNLLord Abbett Short Duration Income Fund	Macquarie Group Limited	1/12/2027	1.34	Fixed Income	645,000	620,427	0.090%
JNLLord Abbett Short Duration Income Fund	Crestwood Midstream Partners LP	7/1/2029	6.00	Fixed Income	1,100,000	1,117,503	0.165%
JNLLord Abbett Short Duration Income Fund	T-Mobile USA, Inc.	2/15/2026	2.25	Fixed Income	1,008,000	982,348	0.142%
JNLLord Abbett Short Duration Income Fund	Antero Resources Corporation	2/1/2029	7.63	Fixed Income	504,000	526,151	0.076%
JNLLord Abbett Short Duration Income Fund	Permian Resources Operating, LLC	1/15/2026	5.38	Fixed Income	292,000	294,219	0.043%
JNLLord Abbett Short Duration Income Fund	Aviation Capital Group LLC	1/30/2026	1.95	Fixed Income	1,026,000	1,026,957	0.149%
JNLLord Abbett Short Duration Income Fund	CrowdStrike Holdings, Inc.	2/15/2029	3.00	Fixed Income	724,000	671,388	0.097%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	2/21/2026	2.13	Fixed Income	243,000	234,369	0.034%
JNLLord Abbett Short Duration Income Fund	California Resources Corporation	9/1/2026	7.13	Fixed Income	194,000	196,183	0.028%
JNLLord Abbett Short Duration Income Fund	Aethlon United BR LP	2/15/2026	8.25	Fixed Income	654,000	659,652	0.097%
JNLLord Abbett Short Duration Income Fund	Asurion LLC	12/31/2026	1.37	Fixed Income	289,000	285,033	0.038%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	4/7/2025	5.88	Fixed Income	401,000	413,698	0.060%
JNLLord Abbett Short Duration Income Fund	Boeing Company, The	2/24/2026	2.20	Fixed Income	895,000	864,848	0.125%
JNLLord Abbett Short Duration Income Fund	Chesapeake Energy Corporation	5/1/2026	5.50	Fixed Income	981,000	988,740	0.143%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	2/21/2029	2.20	Fixed Income	343,000	339,587	0.048%
JNLLord Abbett Short Duration Income Fund	Network BSL CLO 2 Ltd	7/25/2030	6.52	Fixed Income	214,834	217,424	0.032%
JNLLord Abbett Short Duration Income Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2016-C29	3/1/2026	3.33	Fixed Income	450,000	440,934	0.064%
JNLLord Abbett Short Duration Income Fund	Bread Financial Payments, Inc.	1/15/2026	7.00	Fixed Income	558,000	559,247	0.081%
JNLLord Abbett Short Duration Income Fund	SCF Equipment Leasing 2021-1 LLC	8/20/2029	1.37	Fixed Income	661,884	653,293	0.094%
JNLLord Abbett Short Duration Income Fund	TCI-Flatoron Cio 2018-1 Ltd	1/29/2032	6.59	Fixed Income	171,418	173,469	0.025%
JNLLord Abbett Short Duration Income Fund	Toyota Auto Loan Extended Note Trust 2021-1	2/25/2026	1.07	Fixed Income	4,000,000	3,820,421	0.554%
JNLLord Abbett Short Duration Income Fund	Calentium Pharma Solutions Inc.	5/18/2026	7.03	Fixed Income	2,535,792	2,536,586	0.368%
JNLLord Abbett Short Duration Income Fund	Suncor Energy Inc.	5/15/2026	7.88	Fixed Income	671,000	671,546	0.096%
JNLLord Abbett Short Duration Income Fund	Octagon Investment Partners XIV Ltd	7/16/2029	6.51	Fixed Income	57,846	58,674	0.009%
JNLLord Abbett Short Duration Income Fund	Galaxy XIX CLO, Ltd.	7/24/2030	6.49	Fixed Income	287,383	291,172	0.042%
JNLLord Abbett Short Duration Income Fund	BlueMountain Fuji US Cio 1 Ltd	7/20/2029	6.52	Fixed Income	1,783,184	1,808,087	0.262%
JNLLord Abbett Short Duration Income Fund	Canvusa Auto Receivables Trust 2021-N1	11/10/2025	0.70	Fixed Income	69,854	64,694	0.009%
JNLLord Abbett Short Duration Income Fund	Greenko Dutch B.V.	3/29/2026	3.85	Fixed Income	345,800	333,860	0.048%
JNLLord Abbett Short Duration Income Fund	TCI-Flatoron Cio 2017-1 Ltd	11/18/2030	6.32	Fixed Income	217,498	219,400	0.032%
JNLLord Abbett Short Duration Income Fund	American Tower Corporation	4/15/2026	1.60	Fixed Income	160,000	154,552	0.022%
JNLLord Abbett Short Duration Income Fund	ATC Holding Co.	10/1/2028	6.98	Fixed Income	1,745,420	1,754,497	0.245%
JNLLord Abbett Short Duration Income Fund	Fortress Transportation And Infrastructure Investors LLC	5/1/2028	5.50	Fixed Income	259,000	263,905	0.038%
JNLLord Abbett Short Duration Income Fund	Verra Finance B.V.	4/21/2026	2.00	Fixed Income	353,000	341,792	0.050%
JNLLord Abbett Short Duration Income Fund	Dryden 47 Senior Loan Fund	4/15/2028	6.54	Fixed Income	350,199	355,234	0.051%
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	7/22/2027	1.73	Fixed Income	607,000	580,733	0.084%
JNLLord Abbett Short Duration Income Fund	Glencore Funding LLC	12/27/2023	6.63	Fixed Income	533,000	515,183	0.075%
JNLLord Abbett Short Duration Income Fund	DPL Inc.	7/1/2025	4.13	Fixed Income	369,000	368,776	0.053%
JNLLord Abbett Short Duration Income Fund	Bairings CLO Ltd. 2019-III	4/21/2031	6.61	Fixed Income	1,967,448	1,995,533	0.289%
JNLLord Abbett Short Duration Income Fund	Puget Energy, Inc.	5/15/2025	3.85	Fixed Income	1,073,000	1,079,712	0.157%
JNLLord Abbett Short Duration Income Fund	Wier Group PLC (C17e)	3/21/2026	2.20	Fixed Income	1,000,000	969,725	0.141%
JNLLord Abbett Short Duration Income Fund	EQT Corporation	5/15/2026	3.13	Fixed Income	1,787,000	1,760,386	0.255%
JNLLord Abbett Short Duration Income Fund	Fleetcor Technologies Operating Company, LLC	4/21/2028	7.10	Fixed Income	2,007,662	2,004,604	0.291%
JNLLord Abbett Short Duration Income Fund	Cedar Funding XI Cio Ltd	6/1/2032	6.85	Fixed Income	1,440,000	1,450,942	0.210%
JNLLord Abbett Short Duration Income Fund	Nelson Student Loan Trust 2021-A	4/20/2061	1.36	Fixed Income	389,544	393,925	0.056%
JNLLord Abbett Short Duration Income Fund	Vornado Realty L.P.	6/1/2026	2.15	Fixed Income	284,000	271,806	0.039%
JNLLord Abbett Short Duration Income Fund	BDS 2021-FL7 Ltd	6/16/2026	6.20	Fixed Income	383,917	383,056	0.056%
JNLLord Abbett Short Duration Income Fund	GS Mortgage Securities Corporation Trust 2021-ROSS	6/16/2036	6.36	Fixed Income	650,000	620,891	0.090%
JNLLord Abbett Short Duration Income Fund	GS Mortgage Securities Corporation Trust 2021-ROSS	6/16/2036	6.16	Fixed Income	760,000	708,768	0.101%
JNLLord Abbett Short Duration Income Fund	Navient Private Education Refi Loan Trust 2021-C	10/15/2069	1.06	Fixed Income	813,607	734,977	0.107%
JNLLord Abbett Short Duration Income Fund	Landmark Funding Trust 2021-B	5/20/2026	1.90	Fixed Income	1,490,000	1,403,695	0.203%
JNLLord Abbett Short Duration Income Fund	International Flavors & Fragrances Inc.	10/1/2025	1.23	Fixed Income	1,712,000	1,668,028	0.242%
JNLLord Abbett Short Duration Income Fund	T-Mobile USA, Inc.	1/15/2027	3.75	Fixed Income	823,000	804,984	0.116%
JNLLord Abbett Short Duration Income Fund	Chord Energy Corporation	6/1/2026	6.38	Fixed Income	1,098,000	1,124,243	0.163%
JNLLord Abbett Short Duration Income Fund	LFT CRE 2021-FL1 LLC	6/17/2039	6.38	Fixed Income	567,635	565,249	0.082%
JNLLord Abbett Short Duration Income Fund	LFT CRE 2021-FL1 LLC	6/17/2039	6.96	Fixed Income	1,150,000	1,131,684	0.164%
JNLLord Abbett Short Duration Income Fund	Microchip Technology Incorporated	9/1/2025	4.25	Fixed Income	324,000	324,174	0.047%
JNLLord Abbett Short Duration Income Fund	Bombardier Inc.	6/15/2026	7.13	Fixed Income	87,000	90,242	0.013%
JNLLord Abbett Short Duration Income Fund	Westlake Automobile Receivables Trust 2021-2	7/15/2026	0.89	Fixed Income	38,777	38,711	0.006%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	6/15/2028	2.00	Fixed Income	654,000	601,705	0.087%
JNLLord Abbett Short Duration Income Fund	HAT Holdings LLC	6/15/2026	3.38	Fixed Income	1,392,000	1,362,110	0.197%
JNLLord Abbett Short Duration Income Fund	Romaek CLO Ltd	10/23/2033	6.57	Fixed Income	964,130	977,381	0.142%
JNLLord Abbett Short Duration Income Fund	ABP Finance B.V.	7/15/2026	2.00	Fixed Income	635,000	610,761	0.089%
JNLLord Abbett Short Duration Income Fund	Hertz Vehicle Financing III LLC	12/25/2026	1.68	Fixed Income	1,241,000	1,169,157	0.169%
JNLLord Abbett Short Duration Income Fund	Centene Corporation	7/15/2028	2.45	Fixed Income	1,757,000	1,701,410	0.242%
JNLLord Abbett Short Duration Income Fund	KR9 CLO 2-1 LTD.	4/20/2033	6.28	Fixed Income	1,598,740	1,598,740	0.228%
JNLLord Abbett Short Duration Income Fund	Univision Communications Inc.	3/15/2026	8.61	Fixed Income	339,544	339,261	0.049%
JNLLord Abbett Short Duration Income Fund	DIRECTV Financing, LLC	8/15/2027	5.88	Fixed Income	559,000	552,300	0.080%
JNLLord Abbett Short Duration Income Fund	DirectTV Financing, LLC	12/31/2049	6.27	Fixed Income	633,000	632,525	0.089%
JNLLord Abbett Short Duration Income Fund	DIRET 2021-FL2 Ltd	2/17/2033	6.27	Fixed Income	728,523	728,192	0.105%
JNLLord Abbett Short Duration Income Fund	KINDR Trust 2021-KIND	8/15/2026	6.16	Fixed Income	1,011,554	1,000,092	0.145%
JNLLord Abbett Short Duration Income Fund	UBS Group AG	8/10/2027	1.49	Fixed Income	313,000	296,105	0.043%
JNLLord Abbett Short Duration Income Fund	DirectTV Financing, LLC	7/22/2027	10.36	Fixed Income	851,970	851,566	0.123%
JNLLord Abbett Short Duration Income Fund	Ready Capital Mortgage Financing 2021-FL6, LLC	4/25/2036	5.92	Fixed Income	1,110,240	1,095,169	0.158%
JNLLord Abbett Short Duration Income Fund	Uber Technologies, Inc.	8/15/2029	4.50	Fixed Income	2,071,000	2,062,621	0.299%
JNLLord Abbett Short Duration Income Fund	MFI 2021-FL7 Ltd	10/21/2036	6.21	Fixed Income	536,683	535,419	0.078%
JNLLord Abbett Short Duration Income Fund	Univision Communications Inc.	12/31/2049	6.91	Fixed Income	841,079	840,187	0.122%
JNLLord Abbett Short Duration Income Fund	Aviation Capital Group LLC	9/20/2026	1.95	Fixed Income	2,216,000	2,191,037	0.305%
JNLLord Abbett Short Duration Income Fund	HGI CRE CLO 2021-FL2, Ltd.	9/19/2036	6.21	Fixed Income	796,456	796,467	0.115%
JNLLord Abbett Short Duration Income Fund	Barclays PLC	5/12/2026	5.20	Fixed Income	1,618,000	1,659,518	0.241%
JNLLord Abbett Short Duration Income Fund	Bank of Ireland Group Public Limited Company	9/30/2027	2.03	Fixed Income	1,172,000	1,117,397	0.162%
JNLLord Abbett Short Duration Income Fund	ACRES Commercial Realty 2021-FL1 Issuer, Ltd.	10/20/2026	6.28	Fixed Income	768,192	754,669	0.109%
JNLLord Abbett Short Duration Income Fund	HONO 2021-LULU Mortgage Trust	12/15/2036	6.38	Fixed Income	200,000	194,777	0.028%
JNLLord Abbett Short Duration Income Fund	Rockcliff Energy II LLC	10/15/2029	5.50	Fixed Income	1,050,000	1,024,284	0.148%
JNLLord Abbett Short Duration Income Fund	Cedar Funding X CLO Ltd	10/20/2032	6.40	Fixed Income	1,400,000	1,419,281	0.206%
JNLLord Abbett Short Duration Income Fund	Aqua Financing Trust 2021-A	2/17/2027	1.54	Fixed Income	587,851	524,434	0.076%
JNLLord Abbett Short Duration Income Fund	CNO Global Funding	10/7/2036	1.75	Fixed Income	1,016,000	969,256	0.141%
JNLLord Abbett Short Duration Income Fund	Carlyle US CLO 2019-1, Ltd.	4/21/2031	6.62	Fixed Income	1,479,139	1,499,937	0.217%
JNLLord Abbett Short Duration Income Fund	Macquarie Group Limited	10/14/2025	1.20	Fixed Income	442,000	443,784	0.064%
JNLLord Abbett Short Duration Income Fund	BPCE	3/15/2025	4.50	Fixed Income	1,871,000	1,868,440	0.271%
JNLLord Abbett Short Duration Income Fund	Onkarm Direct Auto Receivables Trust 2021-1	7/14/2028	0.82	Fixed Income	612,406	600,933	0.087%
JNLLord Abbett Short Duration Income Fund	Aon Corporation	1/1/2027	8.21	Fixed Income	617,000	677,401	0.098%
JNLLord Abbett Short Duration Income Fund	Castlake Aviation Limited	12/31/2049		Fixed Income	409,000	409,626	0.059%
JNLLord Abbett Short Duration Income Fund	Landmark Funding Trust 2021-2	4/20/2032	2.00	Fixed Income	1,710,000	1,598,706	0.232%
JNLLord Abbett Short Duration Income Fund	Goldman Sachs Group, Inc. The	10/21/2027	1.95	Fixed Income	3,170,000	3,049,331	0.442%
JNLLord Abbett Short Duration Income Fund	AerCap Ireland Capital Designated Activity Company	10/29/2024	1.75	Fixed Income	2,475,000	2,486,423	0.360%
JNLLord Abbett Short Duration Income Fund	GS Mortgage Securities Corporation Trust 2021-ARDN	11/17/2036	6.46	Fixed Income	600,000	597,053	0.087%
JNLLord Abbett Short Duration Income Fund	Mariner Finance Issuance Trust 2021-B	10/20/2027	2.10	Fixed Income	2,585,000	2,442,017	0.354%
JNLLord Abbett Short Duration Income Fund	BX Commercial Mortgage Trust 2021-ACNT	11/15/2038	6.06	Fixed Income	1,013,830	1,010,864	0.147%
JNLLord Abbett Short Duration Income Fund	Continental Resources, Inc.	11/15/2026	2.27	Fixed Income	1,639,000	1,566,729	0.227%
JNLLord Abbett Short Duration Income Fund	Rolls-Royce PLC	10/14/2026	3.63	Fixed Income	485,000	487,061	0.071%
JNLLord Abbett Short Duration Income Fund	Barclays PLC	11/24/2027	2.28	Fixed Income	680,000	653,181	0.095%
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	12/6/2025	1.53	Fixed Income	442,000	441,073	0.064%
JNLLord Abbett Short Duration Income Fund	GLP Financing, LLC	6/1/2025	5.25	Fixed Income	628,000	638,309	0.093%
JNLLord Abbett Short Duration Income Fund	BSPT 2021-FL7 Issuer, Ltd.	12/15/2038	6.53	Fixed Income	816,067	814,935	0.118%
JNLLord Abbett Short Duration Income Fund	Range Resources Corporation	1/15/2029	8.25	Fixed Income	946,000	995,822	0.144%
JNLLord Abbett Short Duration Income Fund	Devon Energy Corporation	10/20/2027	5.25	Fixed Income	1,045,000	1,056,598	0.160%
JNLLord Abbett Short Duration Income Fund	Nutrition & Biosciences, Inc.	11/7/2025	7.16	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	3/25/2024	7.38	Fixed Income	106,903	107,998	0.016%
JNLLord Abbett Short Duration Income Fund	Carvana Auto Receivables Trust 2022-P1	6/10/2025	3.36	Fixed Income	1,981,035	1,970,853	0.271%
JNLLord Abbett Short Duration Income Fund	Danske Bank A/S	4/1/2028	4.30	Fixed Income	367,000	373,479	0.054%
JNLLord Abbett Short Duration Income Fund	Petroleos Mexicanos	10/16/2025	6.88	Fixed Income	1,236,000	1,276,943	0.185%
JNLLord Abbett Short Duration Income Fund	American Tower Corporation	3/15/2027	3.65	Fixed Income	336,000	331,083	0.048%
JNLLord Abbett Short Duration Income Fund	PT Freepont Indonesia	4/14/2027	4.76	Fixed Income	1,000,000	1,026,000	0.148%
JNLLord Abbett Short Duration Income Fund	Cardifone Energy Holdings, LLC	4/15/2027	8.00	Fixed Income	189,000	200,499	0.029%
JNLLord Abbett Short Duration Income Fund	Verra Finance B.V.	4/21/2027	4.90	Fixed Income	791,000	815,358	0.118%
JNLLord Abbett Short Duration Income Fund	Octane Receivables Trust 2021-1	3/20/2025	4.18	Fixed Income	368,449	367,578	0.053%
JNLLord Abbett Short Duration Income Fund	VICI Properties Inc.	9/1/2026	4.50	Fixed Income	956,400	954,542	0.138%
JNLLord Abbett Short Duration Income Fund	VICI Properties Inc.	2/15/2029	3.88	Fixed Income	457,000	459,292	0.064%
JNLLord Abbett Short Duration Income Fund	VICI Properties Inc.	6/15/2025	4.63	Fixed Income	724,000	729,522	0.106%
JNLLord Abbett Short Duration Income Fund	LIFE 2022-BMR2 Mortgage Trust	5/1/2038	6.39	Fixed Income	450,000	438,916	0.064%
JNLLord Abbett Short Duration Income Fund	The Southern Company	8/1/2027	5.11	Fixed Income	673,000	684,095	0.101%
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	5/27/2042	7.48	Fixed Income	1,611,287	1,638,904	0.238%
JNLLord Abbett Short Duration Income Fund	Carvana Auto Receivables Trust 2022-P2	9/10/2026	4.68	Fixed Income	1,170,000	1,176,453	0.171%
JNLLord Abbett Short Duration Income Fund	EOM Midstream Partners, LP	6/1/2027	7.50	Fixed Income	65,000	68,546	0.010%
JNLLord Abbett Short Duration Income Fund	Aus Budget Rental Car Funding (AESOP) LLC	2/20/2026	2.02	Fixed Income	2,079,000	2,014,673	0.292%
JNLLord Abbett Short Duration Income Fund	Landmark Funding Trust 2022-1	6/25/2025	5.12	Fixed Income	1,420,000	1,405,547	0.207%
JNLLord Abbett Short Duration Income Fund	Carlyle Global Market Strategies CLO 2014-3-R Ltd	7/28/2031	6.58	Fixed Income	2,163,453	2,192,777	0.318%
JNLLord Abbett Short Duration Income Fund	Exeter Automobile Receivables Trust 2022-3	12/15/2026	4.86	Fixed Income	896,605	898,369	0.130%
JNLLord Abbett Short Duration Income Fund	Entegris Escrow Corporation	4/15/2029	4.75	Fixed Income	1,444,000	1,454,488	0.211%
JNLLord Abbett Short Duration Income Fund	Chinasec US Holdings LLC	7/15/2027	6.17	Fixed Income	1,722,000	1,806,292	0.262%
JNLLord Abbett Short Duration Income Fund	F&G Global Funding	7/7/2025	5.15	Fixed Income	1,915,000	1,937,819	0.281%
JNLLord Abbett Short Duration Income Fund	Morgan Stanley	7/17/2026	4.68	Fixed Income	175,000	176,453	0.026%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	7/25/2028	4.81	Fixed Income	1,074,000	1,096,356	0.159%
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	7/22/2028	4.95	Fixed Income	1,070,000	1,096,147	0.159%
JNLLord Abbett Short Duration Income Fund	U.S. Bancorp	7/22/2028	4.55	Fixed Income	764,000	776,598	0.113%
JNLLord Abbett Short Duration Income Fund	Imperial Brands Finance PLC	7/27/2027	6.13	Fixed Income	805,000	846,135	0.123%
JNLLord Abbett Short Duration Income Fund	Block, Inc.	6/1/2026	2.75	Fixed Income	406,000	397,223	0.058%
JNLLord Abbett Short Duration Income Fund	Trust Financial Corporation	7/28/2026	4.28	Fixed Income	747,000	749,828	0.109%
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	7/25/2042	7.93	Fixed Income	711,599	720,474	0.106%
JNLLord Abbett Short Duration Income Fund	Huntington Bancshares Incorporated	8/4/2028	4.44	Fixed Income	403,000	406,082	0.059%
JNLLord Abbett Short Duration Income Fund	Connecticut Avenue Securities Trust 2022-R08	7/25/2042	7.83	Fixed Income	353,897	363,691	0.053%
JNLLord Abbett Short Duration Income Fund	Brooklyn Union Gas Company, The	8/5/2027	4.63	Fixed Income	1,510,000	1,523,218	0.221%
JNLLord Abbett Short Duration Income Fund	OTE Energy Company	1/1/2024	2.92	Fixed Income	297,000	292,393	0.043%
JNLLord Abbett Short Duration Income Fund	AG TMT Escrow Issuer LLC	9/30/2027	8.63	Fixed Income	824,000	844,482	0.122%
JNLLord Abbett Short Duration Income Fund	Citizens Bank, National Association	8/9/2028	4.58	Fixed Income	759,000	763,080	0.111%
JNLLord Abbett Short Duration Income Fund	Octane Receivables Trust 2022-2	2/22/2028	5.11	Fixed Income	291,120	291,538	0.042%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	8/15/2027	4.54	Fixed Income	528,000	530,903	0.077%
JNLLord Abbett Short Duration Income Fund	Global Payments Inc.	8/15/2027	4.95	Fixed Income	841,000	860,486	0.125%
JNLLord Abbett Short Duration Income Fund	UBS Group AG	8/11/2028	6.44	Fixed Income	2,029,000	2,148,648	0.311%
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	8/25/2042	7.58	Fixed Income	300,657	308,152	0.045%
JNLLord Abbett Short Duration Income Fund	MAT Bank Corporation	8/16/2028	4.90	Fixed Income	637,000	641,216	0.092%
JNLLord Abbett Short Duration Income Fund	Santander Drive Auto Receivables Trust 2022-5	10/16/2028	4.74	Fixed Income	1,445,000	1,446,826	0.210%
JNLLord Abbett Short Duration Income Fund	Sirrahcom Resources Ltd.	8/1/2026	6.88	Fixed Income	1,125,000	1,131,578	0.164%
JNLLord Abbett Short Duration Income Fund	ITC Holdings Corp.	9/22/2027	4.95	Fixed Income	551,000	560,364	0.081%
JNLLord Abbett Short Duration Income Fund	Bank of Ireland Group Public Limited Company	9/16/2026	6.25	Fixed Income	1,739,000	1,795,316	0.260%
JNLLord Abbett Short Duration Income Fund	EQT Corporation	4/1/2028	5.70	Fixed Income	564,000	598,562	0.087%
JNLLord Abbett Short Duration Income Fund	Maniner Finance Insurance Trust 2022-A	10/20/2037	6.45	Fixed Income	2,670,000	2,677,378	0.388%
JNLLord Abbett Short Duration Income Fund	Citizens Bank, National Association	10/24/2025	6.06	Fixed Income	329,000	337,695	0.049%
JNLLord Abbett Short Duration Income Fund	First Investors Auto Owner Trust 2022-2	8/15/2028	6.26	Fixed Income	688,000	710,738	0.102%
JNLLord Abbett Short Duration Income Fund	Citizens Bank National Association	9/14/2027	1.55	Fixed Income	1,160,000	1,088,966	0.158%
JNLLord Abbett Short Duration Income Fund	Flagship Credit Auto Trust 2022-4	9/15/2026	6.15	Fixed Income	313,518	314,527	0.046%
JNLLord Abbett Short Duration Income Fund	NavWest Group PLC	11/10/2026	7.47	Fixed Income	1,512,000	1,597,664	0.232%
JNLLord Abbett Short Duration Income Fund	Public Service Enterprise Group Incorporated	7/28/2027	5.85	Fixed Income	527,000	550,578	0.082%
JNLLord Abbett Short Duration Income Fund	The Huntington National Bank	11/18/2025	7.93	Fixed Income	297,000	303,289	0.044%
JNLLord Abbett Short Duration Income Fund	Citigroup Commercial Mortgage Trust 2016-GC37	1/1/2026	3.31	Fixed Income	1,000,000	981,151	0.142%
JNLLord Abbett Short Duration Income Fund	Evergy Missouri West, Inc.	12/15/2027	5.15	Fixed Income	717,000	746,092	0.108%
JNLLord Abbett Short Duration Income Fund	Ilumina, Inc.	12/12/2025	5.80	Fixed Income	666,000	686,385	0.099%
JNLLord Abbett Short Duration Income Fund	Southwest Gas Corporation	12/1/2027	5.90	Fixed Income	703,000	743,191	0.108%
JNLLord Abbett Short Duration Income Fund	Ilumina, Inc.	12/13/2027	5.75	Fixed Income	896,000	945,792	0.137%
JNLLord Abbett Short Duration Income Fund	OneMain Financial Insurance Trust 2022-3	4/14/2026	5.94	Fixed Income	4,180,000	4,236,695	0.614%
JNLLord Abbett Short Duration Income Fund	JPMorgan Chase & Co.	12/15/2025	5.55	Fixed Income	1,615,000	1,642,272	0.238%
JNLLord Abbett Short Duration Income Fund	UBS Group AG	11/27/2027	6.13	Fixed Income	1,027,000	1,069,000	0.154%
JNLLord Abbett Short Duration Income Fund	Santander UK Group Holdings PLC	10/1/2029	6.53	Fixed Income	955,000	1,021,597	0.148%
JNLLord Abbett Short Duration Income Fund	Danske Bank A/S	1/9/2026	6.47	Fixed Income	1,265,000	1,287,835	0.187%
JNLLord Abbett Short Duration Income Fund	Crown Castle Inc.	11/1/2028	5.00	Fixed Income	596,000	613,052	0.089%
JNLLord Abbett Short Duration Income Fund	BNP Paribas	11/13/2029	5.13	Fixed Income	721,000	729,037	0.103%
JNLLord Abbett Short Duration Income Fund	BPCE	1/18/2027	5.98	Fixed Income	846,000	867,940	0.126%
JNLLord Abbett Short Duration Income Fund	Westlake Automobile Receivables Trust 2023-1	6/15/2026	5.51	Fixed Income	191,217	191,777	0.028%
JNLLord Abbett Short Duration Income Fund	Connecticut Avenue Securities Trust 2023-R01	12/26/2042	7.68	Fixed Income	1,529,990	1,574,163	0.228%
JNLLord Abbett Short Duration Income Fund	Morgan Stanley	2/1/2028	5.12	Fixed Income	623,000	645,964	0.093%
JNLLord Abbett Short Duration Income Fund	KeyBank National Association	1/26/2026	4.70	Fixed Income	1,404,000	1,417,358	0.205%
JNLLord Abbett Short Duration Income Fund	Trust Financial Corporation	1/26/2029	4.87	Fixed Income	477,000	486,323	0.070%
JNLLord Abbett Short Duration Income Fund	Manufacturers and Traders Trust Company	1/27/2026	4.65	Fixed Income	2,603,000	2,623,793	0.380%
JNLLord Abbett Short Duration Income Fund	Manufacturers and Traders Trust Company	12/7/2028	4.70	Fixed Income	397,000	402,257	0.058%
JNLLord Abbett Short Duration Income Fund	U.S. Bancorp	2/1/2029	4.65	Fixed Income	883,000	898,528	0.130%
JNLLord Abbett Short Duration Income Fund	Hexcel Corporation	8/15/2025	4.95	Fixed Income	1,052,000	1,058,288	0.153%
JNLLord Abbett Short Duration Income Fund	Netflix, Inc.	4/15/2028	4.88	Fixed Income	590,000	617,394	0.089%
JNLLord Abbett Short Duration Income Fund	B.A.T. Capital Corporation	8/15/2027	3.56	Fixed Income	289,000	288,505	0.042%
JNLLord Abbett Short Duration Income Fund	Government of the Republic of Panama	9/30/2027	8.88	Fixed Income	177,000	186,266	0.029%
JNLLord Abbett Short Duration Income Fund	Targa Resources Partners LP	1/15/2028	5.00	Fixed Income	311,000	314,026	0.046%
JNLLord Abbett Short Duration Income Fund	ESKOM Holdings	2/11/2025	7.13	Fixed Income	2,085,000	2,105,514	0.305%
JNLLord Abbett Short Duration Income Fund	Vornado Realty L.P.	11/15/2025	3.50	Fixed Income	559,000	559,594	0.081%
JNLLord Abbett Short Duration Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/15/2027	4.50	Fixed Income	700,000	701,845	0.102%
JNLLord Abbett Short Duration Income Fund	Freeport-McMoRan	11/14/2024	4.55	Fixed Income	561,000	570,024	0.083%
JNLLord Abbett Short Duration Income Fund	Southwestern Energy Company	1/23/2025	5.70	Fixed Income	740,000	748,335	0.108%
JNLLord Abbett Short Duration Income Fund	Plains All American Pipeline, L.P.	11/1/2024	3.60	Fixed Income	555,000	560,251	0.081%
JNLLord Abbett Short Duration Income Fund	ENLink Midstream Partners, LP	8/1/2025	4.15	Fixed Income	760,000	763,520	0.109%
JNLLord Abbett Short Duration Income Fund	NaviCorp Corporation	6/25/2025	6.75	Fixed Income	875,000	896,447	0.130%
JNLLord Abbett Short Duration Income Fund	Reynolds American Inc.	6/12/2025	4.45	Fixed Income	909,000	918,997	0.133%
JNLLord Abbett Short Duration Income Fund	Credit Agricole SA	3/17/2025	4.38	Fixed Income	841,000	838,205	0.122%
JNLLord Abbett Short Duration Income Fund	HCA Inc.	4/15/2025	5.13	Fixed Income	1,012,000	1,049,387	0.152%
JNLLord Abbett Short Duration Income Fund	ZF North America Capital, Inc.	4/29/2025	4.75	Fixed Income	1,000,000	1,011,875	0.147%
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	4/21/2025	3.95	Fixed Income	241,000	244,873	0.035%
JNLLord Abbett Short Duration Income Fund	Synchrony Financial	7/23/2025	4.50	Fixed Income	796,000	802,082	0.116%
JNLLord Abbett Short Duration Income Fund	Intesa Sanpaolo SPA	1/15/2026	5.71	Fixed Income	260,000	260,588	0.039%
JNLLord Abbett Short Duration Income Fund	Santander UK Group Holdings PLC	9/15/2025	4.75	Fixed Income	397,000	395,731	0.057%
JNLLord Abbett Short Duration Income Fund	Ally Financial Inc.	11/20/2025	5.75	Fixed Income	2,328,000	2,390,244	0.346%
JNLLord Abbett Short Duration Income Fund	Oriniv Exploration Inc.	1/1/2026	5.38	Fixed Income	1,196,000	1,219,961	0.177%
JNLLord Abbett Short Duration Income Fund	Coccollet S.A.	6/26/2026	5.38	Fixed Income	695,000	612,649	0.089%
JNLLord Abbett Short Duration Income Fund	Calpine Corporation	6/30/2026	5.25	Fixed Income	800,000	799,272	0.116%
JNLLord Abbett Short Duration Income Fund	Cleco Corporate Holdings LLC	5/1/2026	3.74	Fixed Income	2,094,000	2,089,839	0.303%
JNLLord Abbett Short Duration Income Fund	GLP Financing, LLC	4/1/2026	5.38	Fixed Income	469,000	482,162	0.070%
JNLLord Abbett Short Duration Income Fund	Teva Pharmaceutical Finance Netherlands III B.V.	10/1/2026	3.15	Fixed Income	2,274,000	2,222,083	0.326%
JNLLord Abbett Short Duration Income Fund	HCA Inc.	6/15/2026	5.25	Fixed Income	1,326,000	1,356,357	0.197%
JNLLord Abbett Short Duration Income Fund	Anglo American Capital PLC	4/10/2027	4.75	Fixed Income	333,000	342,111	0.050%
JNLLord Abbett Short Duration Income Fund	Penske Truck Leasing Co., L.P.	11/15/2026	3.40	Fixed Income	284,000	282,407	0.041%
JNLLord Abbett Short Duration Income Fund	Penske Truck Leasing Co., L.P.	4/1/2027	4.20	Fixed Income	1,404,000	1,424,676	0.207%
JNLLord Abbett Short Duration Income Fund	Departamento Administrativo De La Presidencia De La Republica	4/25/2027	3.88	Fixed Income	630,000	618,397	0.090%
JNLLord Abbett Short Duration Income Fund	Intel Corporation	5/11/2027	3.15	Fixed Income	132,000	129,267	0.019%
JNLLord Abbett Short Duration Income Fund	EPR Properties	12/15/2026	4.75	Fixed Income	564,000	570,105	0.083%
JNLLord Abbett Short Duration Income Fund	Crown Castle Inc.	9/1/2027	3.65	Fixed Income	507,000	498,728	0.072%
JNLLord Abbett Short Duration Income Fund	Anglo American Capital PLC	3/15/2028	4.50	Fixed Income	1,337,000	1,335,844	0.194%
JNLLord Abbett Short Duration Income Fund	Continental Resources, Inc.	1/15/2028	4.38	Fixed Income	868,000	863,380	0.125%
JNLLord Abbett Short Duration Income Fund	NGPL PipeCo LLC	8/15/2027	4.88	Fixed Income	946,000	953,893	0.138%
JNLLord Abbett Short Duration Income Fund	EQT Corporation	10/1/2027	3.90	Fixed Income	1,089,000	1,090,659	0.158%
JNLLord Abbett Short Duration Income Fund	American Tower Corporation	1/15/2028	3.50	Fixed Income	1,415,000	1,392,311	0.202%
JNLLord Abbett Short Duration Income Fund	Citigroup Inc.	1/10/2028	3.89	Fixed Income	817,000	815,879	0.118%
JNLLord Abbett Short Duration Income Fund	Discovery Communications, LLC	3/20/2028	3.95	Fixed Income	227,000	216,826	0.031%
JNLLord Abbett Short Duration Income Fund	UBS Group AG	11/2/2029	3.87	Fixed Income	523,000	514,894	0.075%
JNLLord Abbett Short Duration Income Fund	NavWest Group PLC	5/18/2029	4.99	Fixed Income	470,000	480,766	0.070%
JNLLord Abbett Short Duration Income Fund	Goldman Sachs Group, Inc., The	5/1/2029	4.22	Fixed Income	2,501,000	2,530,067	0.367%
JNLLord Abbett Short Duration Income Fund	BBKMS 2018-TALL Mortgage Trust	3/16/2037	6.02	Fixed Income	550,000	520,049	0.075%
JNLLord Abbett Short Duration Income Fund	Citigroup Inc.	6/10/2025	4.40	Fixed Income	1,854,000	1,872,122	0.271%
JNLLord Abbett Short Duration Income Fund	Bombardier Inc.	4/15/2027	4.98	Fixed Income	290,000	310,701	0.045%
JNLLord Abbett Short Duration Income Fund	Clarios Global LP	5/15/2027	8.50	Fixed Income	647,000	670,711	0.097%
JNLLord Abbett Short Duration Income Fund	Creswood Midstream Partners LP	5/1/2027	5.63	Fixed Income	1,869,000	1,921,842	0.279%
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Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	10/22/2025	2.46	Fixed Income	1,108,000	1,118,084	0.162%
JNLLord Abbett Short Duration Income Fund	Boeing Company, The	3/1/2029	3.20	Fixed Income	568,000	577,128	0.076%
JNLLord Abbett Short Duration Income Fund	Charter Communications Operating, LLC	2/1/2027	7.08	Fixed Income	2,584,480	2,633,499	0.382%
JNLLord Abbett Short Duration Income Fund	Safeway Inc.	1/15/2027	4.63	Fixed Income	957,000	942,831	0.137%
JNLLord Abbett Short Duration Income Fund	LPL Holdings, Inc.	11/15/2027	4.63	Fixed Income	1,089,000	1,094,571	0.159%
JNLLord Abbett Short Duration Income Fund	Bayer US Finance II LLC	12/15/2025	4.25	Fixed Income	3,834,000	3,854,657	0.558%
JNLLord Abbett Short Duration Income Fund	LPL Holdings, Inc.	1/17/2026	7.05	Fixed Income	565,800	567,176	0.082%
JNLLord Abbett Short Duration Income Fund	VICI Properties Inc.	12/1/2026	4.25	Fixed Income	1,141,000	1,146,913	0.166%
JNLLord Abbett Short Duration Income Fund	NCL Corporation Ltd.	12/15/2024	3.63	Fixed Income	444,000	446,737	0.065%
JNLLord Abbett Short Duration Income Fund	ENR Properties	6/1/2027	4.50	Fixed Income	536,000	536,448	0.078%
JNLLord Abbett Short Duration Income Fund	Standard Chartered PLC	12/30/2024	2.82	Fixed Income	1,240,000	1,235,432	0.179%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	2/15/2027	3.25	Fixed Income	378,000	365,994	0.053%
JNLLord Abbett Short Duration Income Fund	Aramark Services, Inc.	12/4/2026	7.11	Fixed Income	1,768,500	1,767,187	0.256%
JNLLord Abbett Short Duration Income Fund	Greywolf CLO VII, Ltd.	10/20/2031	6.72	Fixed Income	198,081	200,900	0.029%
JNLLord Abbett Short Duration Income Fund	Targa Resources Partners LP	1/15/2029	6.88	Fixed Income	2,585,000	2,607,124	0.391%
JNLLord Abbett Short Duration Income Fund	Targa Resources Partners LP	7/15/2027	6.50	Fixed Income	1,355,000	1,389,440	0.201%
JNLLord Abbett Short Duration Income Fund	VICI Properties Inc.	2/15/2025	3.50	Fixed Income	1,949,000	1,947,106	0.282%
JNLLord Abbett Short Duration Income Fund	VICI Properties Inc.	2/15/2027	3.75	Fixed Income	441,000	432,047	0.063%
JNLLord Abbett Short Duration Income Fund	Navient Corporation	1/15/2027	5.00	Fixed Income	144,000	143,084	0.021%
JNLLord Abbett Short Duration Income Fund	Santander Holdings USA, Inc.	10/5/2026	3.24	Fixed Income	217,000	214,633	0.031%
JNLLord Abbett Short Duration Income Fund	Elanco Animal Health Incorporated	12/31/2049		Fixed Income	468,497	467,293	0.068%
JNLLord Abbett Short Duration Income Fund	Intel Corporation	11/15/2029	2.45	Fixed Income	330,000	300,471	0.044%
JNLLord Abbett Short Duration Income Fund	Buckeye Partners, L.P.	3/1/2025	4.13	Fixed Income	659,000	655,878	0.095%
JNLLord Abbett Short Duration Income Fund	Western Midstream Operating, LP	8/15/2028	4.75	Fixed Income	385,000	387,441	0.056%
JNLLord Abbett Short Duration Income Fund	Citigroup Inc.	4/8/2026	3.11	Fixed Income	3,779,000	3,779,214	0.551%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	4/30/2026	2.19	Fixed Income	679,000	674,254	0.098%
JNLLord Abbett Short Duration Income Fund	CH2 Financial Group, Inc.	5/30/2025	5.25	Fixed Income	609,000	621,377	0.089%
JNLLord Abbett Short Duration Income Fund	Boeing Company, The	5/1/2025	4.88	Fixed Income	367,000	372,996	0.054%
JNLLord Abbett Short Duration Income Fund	Barclays PLC	5/7/2026	2.85	Fixed Income	350,000	349,628	0.051%
JNLLord Abbett Short Duration Income Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-1CON	1/5/2034	3.88	Fixed Income	456,770	453,926	0.066%
JNLLord Abbett Short Duration Income Fund	Centene Corporation	12/15/2027	4.25	Fixed Income	2,735,000	2,705,132	0.392%
JNLLord Abbett Short Duration Income Fund	CFC Funding 2012-1, Ltd.	12/1/2033	6.84	Fixed Income	151,821	154,120	0.022%
JNLLord Abbett Short Duration Income Fund	The AES Corporation	7/15/2025	3.30	Fixed Income	1,648,000	1,632,590	0.237%
JNLLord Abbett Short Duration Income Fund	National Fuel Gas Company	1/15/2026	5.50	Fixed Income	1,576,000	1,607,330	0.233%
JNLLord Abbett Short Duration Income Fund	GS Mortgage Securities Trust 2015-GC28	11/10/2025	3.40	Fixed Income	247,511	246,549	0.036%
JNLLord Abbett Short Duration Income Fund	Presidencia de la Republica Dominicana	10/20/2028	6.88	Fixed Income	168,000	173,142	0.025%
JNLLord Abbett Short Duration Income Fund	Citgo Petroleum Corporation	6/15/2025	7.00	Fixed Income	708,000	722,627	0.105%
JNLLord Abbett Short Duration Income Fund	BNP Paribas	6/9/2026	2.22	Fixed Income	1,563,000	1,544,475	0.224%
JNLLord Abbett Short Duration Income Fund	TransDigm Inc.	11/15/2027	5.50	Fixed Income	384,000	390,679	0.057%
JNLLord Abbett Short Duration Income Fund	Ford Motor Credit Company LLC	6/16/2029	5.13	Fixed Income	600,000	608,234	0.089%
JNLLord Abbett Short Duration Income Fund	BankUnited, Inc.	11/17/2025	4.88	Fixed Income	1,080,000	1,092,748	0.158%
JNLLord Abbett Short Duration Income Fund	Bank of America Corporation	6/19/2026	1.32	Fixed Income	1,426,000	1,396,029	0.202%
JNLLord Abbett Short Duration Income Fund	General Motors Financial Company, Inc.	6/20/2025	2.75	Fixed Income	408,000	405,476	0.059%
JNLLord Abbett Short Duration Income Fund	Gartner, Inc.	7/1/2028	4.58	Fixed Income	408,000	403,869	0.058%
JNLLord Abbett Short Duration Income Fund	Mileage Plus Holdings, LLC	6/20/2027	6.50	Fixed Income	686,686	688,933	0.125%
JNLLord Abbett Short Duration Income Fund	Aviation Capital Group LLC	12/15/2024	5.50	Fixed Income	974,000	989,329	0.143%
JNLLord Abbett Short Duration Income Fund	Tenetschevill Finance Company S A R L	8/15/2025	2.63	Fixed Income	1,100,000	1,076,449	0.156%
JNLLord Abbett Short Duration Income Fund	ABN AMRO Bank N.V.	7/28/2025	4.75	Fixed Income	2,778,000	2,791,086	0.405%
JNLLord Abbett Short Duration Income Fund	Pacific Gas And Electric Company	1/1/2026	3.15	Fixed Income	1,553,863	1,537,260	0.223%
JNLLord Abbett Short Duration Income Fund	Mas Tec, Inc.	8/15/2028	4.50	Fixed Income	573,000	566,632	0.082%
JNLLord Abbett Short Duration Income Fund	Arcaelis Limited	8/11/2025	5.25	Fixed Income	790,000	796,234	0.115%
JNLLord Abbett Short Duration Income Fund	Elanco Animal Health Incorporated	2/4/2027	7.05	Fixed Income	1,398,141	1,402,010	0.203%
JNLLord Abbett Short Duration Income Fund	Booz Allen Hamilton Inc.	9/1/2028	3.88	Fixed Income	766,000	745,327	0.108%
JNLLord Abbett Short Duration Income Fund	Safeway Inc.	3/15/2026	3.25	Fixed Income	687,000	665,790	0.097%
JNLLord Abbett Short Duration Income Fund	Apache Corporation	11/10/2028	4.38	Fixed Income	2,186,000	2,182,689	0.316%
JNLLord Abbett Short Duration Income Fund	Occidental Petroleum Corporation	9/1/2028	6.38	Fixed Income	600,000	634,218	0.092%
JNLLord Abbett Short Duration Income Fund	Octagon Investment Partners XVII, Ltd.	12/7/2031	6.58	Fixed Income	120,313	121,953	0.018%
JNLLord Abbett Short Duration Income Fund	Macquarie Bank Limited	6/10/2025	4.88	Fixed Income	2,021,000	2,046,871	0.291%
JNLLord Abbett Short Duration Income Fund	Danske Bank A/S	9/11/2026	1.62	Fixed Income	3,851,000	3,739,070	0.542%
JNLLord Abbett Short Duration Income Fund	Uber Technologies, Inc.	1/15/2028	6.25	Fixed Income	224,000	229,248	0.033%
JNLLord Abbett Short Duration Income Fund	SkyMiles P Ltd	10/20/2028	4.75	Fixed Income	85,137	95,198	0.014%
JNLLord Abbett Short Duration Income Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	447,000	455,519	0.066%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	1/15/2026	5.50	Fixed Income	1,949,000	1,981,532	0.287%
JNLLord Abbett Short Duration Income Fund	Elevance Health, Inc.	2/8/2026	4.90	Fixed Income	991,889	997,017	0.143%
JNLLord Abbett Short Duration Income Fund	Safeway Inc.	2/15/2029	6.18	Fixed Income	1,182,000	1,192,240	0.173%
JNLLord Abbett Short Duration Income Fund	TransDigm Inc.	8/15/2028	6.75	Fixed Income	354,000	367,738	0.053%
JNLLord Abbett Short Duration Income Fund	Mitsubishi UFJ Financial Group Inc.	2/20/2026	5.72	Fixed Income	594,000	599,472	0.087%
JNLLord Abbett Short Duration Income Fund	Angen Inc.	3/20/2026	5.51	Fixed Income	1,098,000	1,102,781	0.160%
JNLLord Abbett Short Duration Income Fund	A.T.&T. Inc.	2/20/2026	5.50	Fixed Income	1,161,000	1,166,452	0.169%
JNLLord Abbett Short Duration Income Fund	Santander Drive Auto Receivables Trust 2022-7	9/15/2027	6.69	Fixed Income	2,755,000	2,852,895	0.414%
JNLLord Abbett Short Duration Income Fund	Constellation Energy Generation, LLC	3/1/2028	5.60	Fixed Income	634,000	664,384	0.096%
JNLLord Abbett Short Duration Income Fund	Enterprise Fleet Financing 2023-1, LLC	3/20/2026	5.51	Fixed Income	805,805	811,774	0.118%
JNLLord Abbett Short Duration Income Fund	NexGen Energy Capital Holdings, Inc.	3/1/2025	5.93	Fixed Income	503,000	507,683	0.073%
JNLLord Abbett Short Duration Income Fund	Humana Inc.	3/13/2026	5.70	Fixed Income	630,000	631,570	0.092%
JNLLord Abbett Short Duration Income Fund	The Cigna Group	3/15/2026	5.69	Fixed Income	572,000	572,422	0.083%
JNLLord Abbett Short Duration Income Fund	Equitable Financial Life Global Funding	3/3/2028	5.45	Fixed Income	1,075,000	1,110,095	0.161%
JNLLord Abbett Short Duration Income Fund	Black Hills Corporation	3/15/2028	5.95	Fixed Income	724,000	761,957	0.110%
JNLLord Abbett Short Duration Income Fund	WarnerMedia Holdings, Inc.	3/15/2026	6.41	Fixed Income	1,476,000	1,478,828	0.214%
JNLLord Abbett Short Duration Income Fund	NextGear Floorplan Master Owner Trust	3/16/2026	5.74	Fixed Income	2,510,000	2,561,090	0.371%
JNLLord Abbett Short Duration Income Fund	Federation des caisses Desjardins du Quebec	3/14/2028	5.70	Fixed Income	440,000	456,215	0.066%
JNLLord Abbett Short Duration Income Fund	System Energy Resources, Inc.	4/15/2028	6.00	Fixed Income	1,500,000	1,614,978	0.244%
JNLLord Abbett Short Duration Income Fund	Southwest Gas Corporation	3/23/2029	5.45	Fixed Income	564,000	582,707	0.084%
JNLLord Abbett Short Duration Income Fund	NiSource Inc.	3/30/2028	5.25	Fixed Income	281,000	289,165	0.042%
JNLLord Abbett Short Duration Income Fund	Pennsylvania Electric Company	3/30/2026	5.15	Fixed Income	479,000	483,636	0.070%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	3/30/2026	5.50	Fixed Income	776,000	787,941	0.114%
JNLLord Abbett Short Duration Income Fund	Vestlake Automobile Receivables Trust 2022-2	10/20/2027	4.85	Fixed Income	615,715	615,715	0.089%
JNLLord Abbett Short Duration Income Fund	Aviation Capital Group LLC	4/15/2028	6.25	Fixed Income	533,000	571,486	0.083%
JNLLord Abbett Short Duration Income Fund	General Motors Financial Company, Inc.	4/6/2026	5.40	Fixed Income	302,000	313,709	0.045%
JNLLord Abbett Short Duration Income Fund	Matador Resources Company	4/15/2028	6.88	Fixed Income	1,304,000	1,366,877	0.198%
JNLLord Abbett Short Duration Income Fund	ZF North America Capital, Inc.	4/14/2028	6.88	Fixed Income	1,450,000	1,451,000	0.211%
JNLLord Abbett Short Duration Income Fund	Triumph Group, Inc.	3/15/2028	9.00	Fixed Income	1,315,000	1,381,657	0.200%
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	4/25/2043	7.38	Fixed Income	2,729,403	2,774,403	0.402%
JNLLord Abbett Short Duration Income Fund	Canadian Imperial Bank of Commerce	4/28/2028	5.90	Fixed Income	727,000	760,417	0.110%
JNLLord Abbett Short Duration Income Fund	Connecticut Avenue Securities Trust 2022-R02	4/27/2043	7.78	Fixed Income	680,912	704,022	0.102%
JNLLord Abbett Short Duration Income Fund	WarnerMedia Holdings, Inc.	3/15/2027	3.76	Fixed Income	1,462,000	1,416,026	0.205%
JNLLord Abbett Short Duration Income Fund	WarnerMedia Holdings, Inc.	3/15/2029	4.05	Fixed Income	309,000	293,280	0.043%
JNLLord Abbett Short Duration Income Fund	WarnerMedia Holdings, Inc.	3/15/2025	3.79	Fixed Income	556,000	554,075	0.080%
JNLLord Abbett Short Duration Income Fund	WarnerMedia Holdings, Inc.	3/1/2025	3.64	Fixed Income	1,093,000	1,093,193	0.158%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	5/4/2028	6.38	Fixed Income	249,000	266,822	0.039%
JNLLord Abbett Short Duration Income Fund	Barclays PLC	5/9/2027	5.83	Fixed Income	856,000	891,681	0.129%
JNLLord Abbett Short Duration Income Fund	Take-Two Interactive Software, Inc.	3/28/2028	4.95	Fixed Income	351,000	358,169	0.052%
JNLLord Abbett Short Duration Income Fund	Civitas Resources, Inc.	10/15/2028	5.04	Fixed Income	1,250,000	1,265,041	0.183%
JNLLord Abbett Short Duration Income Fund	DTE Energy Company	6/1/2028	4.88	Fixed Income	973,000	1,008,801	0.146%
JNLLord Abbett Short Duration Income Fund	GM Financial Automobile Leasing Trust 2023-2	5/20/2027	5.54	Fixed Income	2,775,000	2,807,974	0.407%
JNLLord Abbett Short Duration Income Fund	National Fuel Gas Company	10/1/2026	5.50	Fixed Income	562,000	588,777	0.085%
JNLLord Abbett Short Duration Income Fund	The AES Corporation	8/1/2028	5.45	Fixed Income	711,000	714,875	0.108%
JNLLord Abbett Short Duration Income Fund	Ovintiv Canada ULC	5/15/2029	5.45	Fixed Income	1,211,000	1,274,800	0.185%
JNLLord Abbett Short Duration Income Fund	Ovintiv Canada ULC	5/15/2025	5.45	Fixed Income	539,000	554,287	0.080%
JNLLord Abbett Short Duration Income Fund	Electricite de France	5/23/2028	5.70	Fixed Income	872,000	925,063	0.134%
JNLLord Abbett Short Duration Income Fund	Venture Global LNG, Inc.	6/1/2028	8.13	Fixed Income	836,000	894,182	0.130%
JNLLord Abbett Short Duration Income Fund	American Tower Corporation	7/15/2028	5.25	Fixed Income	583,000	607,038	0.088%
JNLLord Abbett Short Duration Income Fund	Truist Financial Corporation	6/8/2027	6.05	Fixed Income	514,000	537,180	0.078%
JNLLord Abbett Short Duration Income Fund	Bacardi Limited	1/15/2029	5.25	Fixed Income	653,000	676,761	0.098%
JNLLord Abbett Short Duration Income Fund	National Grid PLC	6/12/2028	5.60	Fixed Income	503,000	533,407	0.077%
JNLLord Abbett Short Duration Income Fund	U.S. Bancorp	6/12/2029	5.78	Fixed Income	840,000	894,971	0.130%
JNLLord Abbett Short Duration Income Fund	NaWest Group PLC	9/13/2029	5.81	Fixed Income	1,248,000	1,311,080	0.190%
JNLLord Abbett Short Duration Income Fund	Dell Equipment Finance Trust 2023-2	3/24/2025	5.84	Fixed Income	1,249,237	1,253,511	0.182%
JNLLord Abbett Short Duration Income Fund	Discover Card Execution Note Trust	6/15/2026	4.93	Fixed Income	1,040,000	1,057,033	0.153%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	6/26/2026	5.65	Fixed Income	822,000	851,181	0.123%
JNLLord Abbett Short Duration Income Fund	SFS Auto Receivables Securitization Trust 2023- 1	12/20/2026	5.47	Fixed Income	695,000	706,144	0.102%
JNLLord Abbett Short Duration Income Fund	Civitas Resources, Inc.	7/1/2028	8.38	Fixed Income	702,000	748,341	0.108%
JNLLord Abbett Short Duration Income Fund	HCA Inc.	6/30/2026	6.72	Fixed Income	1,191,500	1,191,731	0.173%
JNLLord Abbett Short Duration Income Fund	Hyatt Hotels Corporation	1/30/2027	5.75	Fixed Income	1,191,000	1,199,608	0.174%
JNLLord Abbett Short Duration Income Fund	AG Global Funding	7/2/2026	5.75	Fixed Income	380,000	394,865	0.057%
JNLLord Abbett Short Duration Income Fund	Standard Chartered PLC	7/6/2027	6.19	Fixed Income	306,000	318,988	0.046%
JNLLord Abbett Short Duration Income Fund	Sumitomo Mitsui Financial Group, Inc.	7/13/2028	6.80	Fixed Income	407,000	433,187	0.063%
JNLLord Abbett Short Duration Income Fund	Octagon Loan Funding Ltd	11/18/2031	6.54	Fixed Income	1,427,000	1,440,149	0.208%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	7/25/2029	5.57	Fixed Income	1,270,000	1,334,521	0.193%
JNLLord Abbett Short Duration Income Fund	Concentrix Corporation	8/2/2026	6.65	Fixed Income	725,000	754,643	0.109%
JNLLord Abbett Short Duration Income Fund	Mutual Of Omaha Cps Global Funding	7/27/2026	5.50	Fixed Income	3		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLLord Abbett Short Duration Income Fund	Citizens Auto Receivables Trust 2023-2	4/15/2025	6.09	Fixed Income	521,139	524,389	0.076%
JNLLord Abbett Short Duration Income Fund	Valley Stream Park CLO LTD	10/20/2024	6.34	Fixed Income	2,193,000	2,190,809	0.312%
JNLLord Abbett Short Duration Income Fund	ABN AMRO Bank N.V.	9/18/2027	6.34	Fixed Income	600,000	621,511	0.090%
JNLLord Abbett Short Duration Income Fund	Nissan Motor Acceptance Corporation LLC	9/15/2026	6.95	Fixed Income	1,286,000	1,333,264	0.193%
JNLLord Abbett Short Duration Income Fund	Affirm Asset Securitization Trust 2023-B	4/15/2026	6.82	Fixed Income	1,395,000	1,427,506	0.207%
JNLLord Abbett Short Duration Income Fund	Dryden 113 CLO Ltd	10/22/2035	6.91	Fixed Income	850,000	864,000	0.126%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	9/21/2028	6.10	Fixed Income	745,000	787,821	0.114%
JNLLord Abbett Short Duration Income Fund	P&G Annuities & Life, Inc.	11/13/2028	7.40	Fixed Income	1,030,000	1,105,416	0.160%
JNLLord Abbett Short Duration Income Fund	Elmwood CLO VII Ltd	11/17/2034	6.92	Fixed Income	1,280,000	1,299,548	0.188%
JNLLord Abbett Short Duration Income Fund	Silo Royalties Operating Partnership, LP	11/17/2028	7.88	Fixed Income	828,000	893,168	0.129%
JNLLord Abbett Short Duration Income Fund	Western Midstream Operating, LP	11/15/2029	6.35	Fixed Income	246,000	274,976	0.040%
JNLLord Abbett Short Duration Income Fund	Glencore Funding LLC	10/6/2028	6.13	Fixed Income	513,000	558,806	0.081%
JNLLord Abbett Short Duration Income Fund	Wyndham Hotels & Resorts, Inc.	4/8/2027	7.10	Fixed Income	1,541,888	1,540,265	0.223%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	10/23/2029	6.30	Fixed Income	523,000	514,079	0.083%
JNLLord Abbett Short Duration Income Fund	The PNC Financial Services Group, Inc.	10/20/2027	6.82	Fixed Income	493,000	529,688	0.077%
JNLLord Abbett Short Duration Income Fund	U.S. Bancorp	10/26/2027	6.79	Fixed Income	896,000	963,187	0.140%
JNLLord Abbett Short Duration Income Fund	Coronado Finance Pty Ltd	5/15/2026	10.75	Fixed Income	1,400,000	1,513,280	0.219%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	11/16/2029	6.50	Fixed Income	763,000	827,584	0.120%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	11/16/2025	6.25	Fixed Income	834,000	871,331	0.126%
JNLLord Abbett Short Duration Income Fund	Volkswagen Group of America, Inc.	11/16/2026	6.00	Fixed Income	400,000	420,686	0.061%
JNLLord Abbett Short Duration Income Fund	Charter Communications Operating, LLC	11/10/2026	6.15	Fixed Income	1,696,000	1,784,722	0.259%
JNLLord Abbett Short Duration Income Fund	Alliant Energy Finance, LLC	3/30/2029	5.95	Fixed Income	1,348,000	1,425,650	0.207%
JNLLord Abbett Short Duration Income Fund	LPL Holdings, Inc.	11/17/2028	6.75	Fixed Income	756,000	829,853	0.120%
JNLLord Abbett Short Duration Income Fund	Eversource Energy	2/1/2029	5.95	Fixed Income	550,000	587,162	0.085%
JNLLord Abbett Short Duration Income Fund	Ameren Corporation	12/1/2026	5.70	Fixed Income	991,000	1,037,115	0.150%
JNLLord Abbett Short Duration Income Fund	Teapey, Inc.	11/27/2026	7.00	Fixed Income	494,000	523,230	0.076%
JNLLord Abbett Short Duration Income Fund	RR 24 Ltd	11/15/2036	7.03	Fixed Income	2,170,000	2,209,490	0.320%
JNLLord Abbett Short Duration Income Fund	Teapey, Inc.	11/27/2025	7.05	Fixed Income	840,000	877,426	0.127%
JNLLord Abbett Short Duration Income Fund	Bayer US Finance LLC	1/21/2029	6.25	Fixed Income	797,000	852,129	0.124%
JNLLord Abbett Short Duration Income Fund	HAT Holdings I LLC	6/15/2027	8.00	Fixed Income	376,000	406,155	0.059%
JNLLord Abbett Short Duration Income Fund	Kinross Holdings LP	12/15/2028	6.63	Fixed Income	530,000	559,857	0.081%
JNLLord Abbett Short Duration Income Fund	American Electric Power Company, Inc.	11/5/2029	5.80	Fixed Income	888,000	955,201	0.139%
JNLLord Abbett Short Duration Income Fund	Affirm Asset Securitization Trust 2023-B	9/15/2025	6.82	Fixed Income	1,205,000	1,233,079	0.179%
JNLLord Abbett Short Duration Income Fund	Ameren Corporation	11/15/2029	5.00	Fixed Income	676,000	699,249	0.101%
JNLLord Abbett Short Duration Income Fund	Standard Chartered PLC	2/8/2028	6.75	Fixed Income	393,000	415,745	0.060%
JNLLord Abbett Short Duration Income Fund	Lloyds Banking Group PLC	1/5/2029	5.40	Fixed Income	781,000	807,690	0.116%
JNLLord Abbett Short Duration Income Fund	Williams Companies, Inc., The	3/15/2029	4.90	Fixed Income	659,000	670,530	0.097%
JNLLord Abbett Short Duration Income Fund	UBS Group AG	2/8/2030	5.43	Fixed Income	279,000	290,012	0.042%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	1/8/2027	5.25	Fixed Income	669,000	689,224	0.100%
JNLLord Abbett Short Duration Income Fund	CA Global Funding Trust	1/8/2029	5.40	Fixed Income	821,000	859,167	0.125%
JNLLord Abbett Short Duration Income Fund	Hyundai Capital America	1/8/2029	5.30	Fixed Income	409,000	425,184	0.062%
JNLLord Abbett Short Duration Income Fund	SK Hynix Inc.	1/16/2027	5.50	Fixed Income	307,000	316,825	0.046%
JNLLord Abbett Short Duration Income Fund	Penske Truck Leasing Co., L.P.	11/2/2027	5.35	Fixed Income	852,000	878,539	0.127%
JNLLord Abbett Short Duration Income Fund	AG Global Funding	11/2/2029	4.80	Fixed Income	418,000	434,785	0.063%
JNLLord Abbett Short Duration Income Fund	SFS Auto Receivables Securitization Trust 2024-1	5/21/2029	4.95	Fixed Income	445,000	450,759	0.065%
JNLLord Abbett Short Duration Income Fund	Mutual Of Omaha Cps Global Funding	12/1/2028	5.45	Fixed Income	620,000	652,708	0.095%
JNLLord Abbett Short Duration Income Fund	Liberty Utilities Co.	1/31/2029	5.58	Fixed Income	688,000	717,022	0.104%
JNLLord Abbett Short Duration Income Fund	Verizon Master Trust	1/28/2029	4.93	Fixed Income	1,340,000	1,372,300	0.199%
JNLLord Abbett Short Duration Income Fund	Santander Drive Auto Receivables Trust 2024-1	6/16/2025	5.71	Fixed Income	673,674	676,204	0.098%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	3/1/2029	5.75	Fixed Income	481,000	497,953	0.072%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	1/23/2030	5.20	Fixed Income	988,000	1,028,213	0.149%
JNLLord Abbett Short Duration Income Fund	BX Commercial Mortgage Trust 2024-XL4	3/17/2026	5.40	Fixed Income	1,069,210	1,072,345	0.150%
JNLLord Abbett Short Duration Income Fund	Hyundai Auto Lease Securitization Trust 2024-A	5/15/2026	5.02	Fixed Income	840,000	848,191	0.123%
JNLLord Abbett Short Duration Income Fund	Ford Credit Auto Lease Trust 2024-A	7/15/2026	5.29	Fixed Income	1,835,000	1,860,578	0.270%
JNLLord Abbett Short Duration Income Fund	Citizens Financial Group, Inc.	1/23/2030	5.84	Fixed Income	469,000	493,057	0.071%
JNLLord Abbett Short Duration Income Fund	Benchmark 2024-V5 Mortgage Trust	11/2/2025	5.81	Fixed Income	690,000	725,991	0.105%
JNLLord Abbett Short Duration Income Fund	Federation des caisses Desjardins du Quebec	4/26/2029	5.20	Fixed Income	888,000	934,399	0.133%
JNLLord Abbett Short Duration Income Fund	Trust Financial Corporation	1/24/2030	5.44	Fixed Income	409,000	427,835	0.062%
JNLLord Abbett Short Duration Income Fund	Minsterul Finantelor Publice	1/30/2029	5.88	Fixed Income	662,000	685,172	0.099%
JNLLord Abbett Short Duration Income Fund	SBNA Auto Lease Trust 2024-A	3/20/2026	5.39	Fixed Income	1,090,000	1,100,915	0.160%
JNLLord Abbett Short Duration Income Fund	Kindler Morgan Kanex, Inc.	2/1/2029	5.80	Fixed Income	882,000	887,680	0.128%
JNLLord Abbett Short Duration Income Fund	Rakuten Group, Inc.	2/15/2027	11.25	Fixed Income	991,000	1,100,308	0.159%
JNLLord Abbett Short Duration Income Fund	Bank's 2023-5YR2	6/16/2028	6.66	Fixed Income	890,000	955,313	0.138%
JNLLord Abbett Short Duration Income Fund	Sizzling Pallet, LLC	11/28/2025	8.50	Fixed Income	1,100,000	1,137,043	0.165%
JNLLord Abbett Short Duration Income Fund	General Motors Financial Company, Inc.	9/8/2027	5.40	Fixed Income	589,000	622,960	0.088%
JNLLord Abbett Short Duration Income Fund	Citigroup Inc.	2/13/2030	5.17	Fixed Income	1,268,000	1,310,921	0.190%
JNLLord Abbett Short Duration Income Fund	Affirm Asset Securitization Trust 2024-A	9/15/2026	6.61	Fixed Income	565,000	572,763	0.083%
JNLLord Abbett Short Duration Income Fund	Janus Street Group, LLC	1/26/2028	7.86	Fixed Income	1,104,278	1,103,248	0.160%
JNLLord Abbett Short Duration Income Fund	OTC Energy Company	3/1/2029	5.10	Fixed Income	785,000	810,136	0.118%
JNLLord Abbett Short Duration Income Fund	BNP Paribas	5/20/2030	5.50	Fixed Income	898,000	947,759	0.137%
JNLLord Abbett Short Duration Income Fund	Huntington Auto Trust 2024-1	9/15/2027	5.23	Fixed Income	1,190,000	1,211,548	0.176%
JNLLord Abbett Short Duration Income Fund	Neuberger Berman Loan Advisers CLO 35 Ltd	1/19/2033	6.58	Fixed Income	2,230,000	2,261,023	0.328%
JNLLord Abbett Short Duration Income Fund	Westlake Flooring Master Trust	2/17/2029	5.43	Fixed Income	1,230,000	1,280,378	0.186%
JNLLord Abbett Short Duration Income Fund	Solventum Corporation	2/25/2027	5.45	Fixed Income	795,000	815,363	0.118%
JNLLord Abbett Short Duration Income Fund	IQVIA Inc.	2/1/2029	6.25	Fixed Income	347,000	372,727	0.054%
JNLLord Abbett Short Duration Income Fund	Solventum Corporation	3/31/2029	5.40	Fixed Income	1,283,000	1,324,370	0.192%
JNLLord Abbett Short Duration Income Fund	Ryder System, Inc.	3/15/2027	5.10	Fixed Income	216,000	221,549	0.032%
JNLLord Abbett Short Duration Income Fund	Danske Bank A/S	3/1/2028	5.43	Fixed Income	637,000	654,519	0.095%
JNLLord Abbett Short Duration Income Fund	Pacific Gas And Electric Company	5/15/2029	5.55	Fixed Income	494,000	529,488	0.077%
JNLLord Abbett Short Duration Income Fund	GATX Corporation	3/15/2027	5.40	Fixed Income	293,000	300,141	0.044%
JNLLord Abbett Short Duration Income Fund	Tyson Foods, Inc.	5/15/2029	5.10	Fixed Income	219,000	219,584	0.032%
JNLLord Abbett Short Duration Income Fund	Radson Group Inc.	5/15/2025	6.20	Fixed Income	607,000	656,597	0.094%
JNLLord Abbett Short Duration Income Fund	Benefit Street Partners CLO IV Ltd	4/20/2034	6.63	Fixed Income	1,290,000	1,309,328	0.190%
JNLLord Abbett Short Duration Income Fund	Element Fleet Management Corp.	3/1/2027	5.64	Fixed Income	500,000	514,363	0.075%
JNLLord Abbett Short Duration Income Fund	BMX 2023-SC2 Mortgage Trust	10/17/2028	7.30	Fixed Income	620,000	617,829	0.088%
JNLLord Abbett Short Duration Income Fund	Ford Motor Credit Company LLC	3/8/2027	5.80	Fixed Income	1,112,000	1,135,223	0.165%
JNLLord Abbett Short Duration Income Fund	Barco Bilbao Vizcaya Argentaria, S.A.	3/1/2029	5.38	Fixed Income	800,000	833,447	0.121%
JNLLord Abbett Short Duration Income Fund	BX Commercial Mortgage Trust 2024-XL5	3/15/2026	6.49	Fixed Income	1,923,100	1,927,446	0.279%
JNLLord Abbett Short Duration Income Fund	CaixaBank, S.A.	3/15/2030	6.67	Fixed Income	380,000	395,718	0.057%
JNLLord Abbett Short Duration Income Fund	Match Group, Inc.	3/15/2027	6.71	Fixed Income	1,881,211	1,937,001	0.286%
JNLLord Abbett Short Duration Income Fund	Motorola Solutions, Inc.	4/15/2029	5.00	Fixed Income	264,000	277,546	0.040%
JNLLord Abbett Short Duration Income Fund	Citizens Auto Receivables Trust 2023-1	6/15/2026	5.84	Fixed Income	2,177,000	2,213,384	0.321%
JNLLord Abbett Short Duration Income Fund	Bank of Ireland Group Public Limited Company	3/20/2030	5.60	Fixed Income	854,000	886,738	0.129%
JNLLord Abbett Short Duration Income Fund	Benchmark 2024-V8 Mortgage Trust	3/16/2029	5.30	Fixed Income	1,784,000	1,850,176	0.261%
JNLLord Abbett Short Duration Income Fund	Volkswagen Group of America, Inc.	3/20/2026	5.40	Fixed Income	950,000	962,232	0.139%
JNLLord Abbett Short Duration Income Fund	BX Trust 2024-CYNN	4/15/2029	6.74	Fixed Income	1,058,309	1,061,150	0.154%
JNLLord Abbett Short Duration Income Fund	AGCO Corporation	3/21/2027	5.45	Fixed Income	153,000	156,290	0.023%
JNLLord Abbett Short Duration Income Fund	BAE Systems PLC	3/26/2027	5.00	Fixed Income	428,000	432,810	0.063%
JNLLord Abbett Short Duration Income Fund	BAE Systems PLC	3/26/2029	5.13	Fixed Income	318,000	327,360	0.047%
JNLLord Abbett Short Duration Income Fund	Volkswagen Auto Lease Trust 2024-A	10/20/2026	5.21	Fixed Income	1,205,000	1,224,447	0.177%
JNLLord Abbett Short Duration Income Fund	Glencore Funding LLC	4/4/2027	5.34	Fixed Income	895,000	930,102	0.135%
JNLLord Abbett Short Duration Income Fund	Glencore Funding LLC	4/4/2029	5.37	Fixed Income	678,000	690,244	0.098%
JNLLord Abbett Short Duration Income Fund	Marathon Oil Corporation	4/1/2029	5.30	Fixed Income	630,000	670,545	0.097%
JNLLord Abbett Short Duration Income Fund	Algonquin Power & Utilities Corp.	6/15/2026	6.37	Fixed Income	1,068,000	1,098,094	0.159%
JNLLord Abbett Short Duration Income Fund	Bayview Opportunity Master Fund VII 2024-CAR1, LLC	12/26/2031	5.98	Fixed Income	669,381	668,074	0.097%
JNLLord Abbett Short Duration Income Fund	HSBC Holdings PLC	3/10/2026	3.00	Fixed Income	1,048,000	1,039,491	0.151%
JNLLord Abbett Short Duration Income Fund	General Motors Financial Company, Inc.	7/15/2029	5.75	Fixed Income	509,000	536,511	0.077%
JNLLord Abbett Short Duration Income Fund	Enbridge Inc.	4/25/2029	5.30	Fixed Income	383,000	406,282	0.059%
JNLLord Abbett Short Duration Income Fund	Boeing Company, The	6/15/2026	2.25	Fixed Income	163,000	156,679	0.023%
JNLLord Abbett Short Duration Income Fund	Engie	4/10/2029	5.25	Fixed Income	330,000	348,846	0.051%
JNLLord Abbett Short Duration Income Fund	Brighthouse Financial, Inc.	4/8/2027	5.55	Fixed Income	935,000	979,014	0.142%
JNLLord Abbett Short Duration Income Fund	MET Tower Global Funding	4/12/2029	5.25	Fixed Income	374,000	400,007	0.058%
JNLLord Abbett Short Duration Income Fund	Tiaa Asset Management, LLC	1/15/2030	5.55	Fixed Income	325,000	344,240	0.050%
JNLLord Abbett Short Duration Income Fund	AEON Funding Company LLC	4/16/2027	5.50	Fixed Income	1,260,000	1,316,740	0.191%
JNLLord Abbett Short Duration Income Fund	PSJ Financing Corp.	4/15/2027	5.34	Fixed Income	710,000	729,473	0.106%
JNLLord Abbett Short Duration Income Fund	Diamondback Energy, Inc.	4/18/2027	5.20	Fixed Income	249,000	259,577	0.038%
JNLLord Abbett Short Duration Income Fund	Chesapeake Funding II LLC	9/15/2027	5.52	Fixed Income	1,823,682	1,946,940	0.282%
JNLLord Abbett Short Duration Income Fund	Diamondback Energy, Inc.	1/30/2030	5.15	Fixed Income	261,000	270,163	0.039%
JNLLord Abbett Short Duration Income Fund	AerCap Ireland Capital Designated Activity Company	4/15/2027	6.45	Fixed Income	289,000	311,311	0.045%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	4/22/2028	5.71	Fixed Income	629,000	665,495	0.096%
JNLLord Abbett Short Duration Income Fund	Mausser Packaging Solutions Holding Company	4/15/2027	7.88	Fixed Income	194,000	202,578	0.029%
JNLLord Abbett Short Duration Income Fund	American Express Credit Account Master Trust	4/15/2027	5.23	Fixed Income	1,805,000	1,862,031	0.270%
JNLLord Abbett Short Duration Income Fund	American Express Credit Account Master Trust	4/16/2029	5.24	Fixed Income	645,000	678,494	0.098%
JNLLord Abbett Short Duration Income Fund	AMMC CLO 23 Ltd	4/17/2035	1.47	Fixed Income	2,500,000	2,518,660	0.365%
JNLLord Abbett Short Duration Income Fund	Santander Drive Auto Receivables Trust 2024-2	8/17/2026	5.63	Fixed Income	1,215,000	1,240,712	0.180%
JNLLord Abbett Short Duration Income Fund	Carmax Auto Owner Trust 2024-2	1/16/2029	5.50	Fixed Income	715,000	736,294	0.107%
JNLLord Abbett Short Duration Income Fund	Carmax Auto Owner Trust 2024-2	11/15/2029	5.30	Fixed Income	385,000	401,116	0.058%
JNLLord Abbett Short Duration Income Fund	LG Electronics Inc.	4/24/2027	5.63	Fixed Income	233,000	244,930	0.036%
JNLLord Abbett Short Duration Income Fund	Tengscherevill Finance Company S.A.R.L.	8/15/2026	4.00	Fixed Income	1,402,000	1,377,943	0.200%
JNLLord Abbett Short Duration Income Fund	GXO Logistics Inc.	5/6/2029	6.2				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLLord Abbett Short Duration Income Fund	CenterPoint Energy, Inc.	6/1/2029	5.40	Fixed Income	642,000	679,693	0.099%
JNLLord Abbett Short Duration Income Fund	Alsecan Corporation	5/15/2029	5.25	Fixed Income	785,000	785,000	0.13%
JNLLord Abbett Short Duration Income Fund	Avolon Holdings Funding Limited	11/15/2029	5.75	Fixed Income	458,000	482,259	0.070%
JNLLord Abbett Short Duration Income Fund	LPL Holdings, Inc.	5/20/2027	5.70	Fixed Income	251,000	261,451	0.038%
JNLLord Abbett Short Duration Income Fund	Navistar Financial Dealer Note Master Owner Trust II	4/27/2026	5.59	Fixed Income	1,675,000	1,707,704	0.248%
JNLLord Abbett Short Duration Income Fund	NavWest Markets PLC	5/17/2027	5.42	Fixed Income	633,000	652,521	0.066%
JNLLord Abbett Short Duration Income Fund	Ford Motor Credit Company LLC	5/17/2027	5.85	Fixed Income	621,000	646,408	0.094%
JNLLord Abbett Short Duration Income Fund	Honda Auto Receivables 2024-2 Owner Trust	8/18/2027	5.27	Fixed Income	985,000	1,006,620	0.146%
JNLLord Abbett Short Duration Income Fund	SFS Auto Receivables Securitization Trust 2024-2	11/20/2029	5.33	Fixed Income	620,000	637,650	0.092%
JNLLord Abbett Short Duration Income Fund	SBNA Auto Lease Trust 2024-B	9/21/2026	5.56	Fixed Income	1,025,000	1,044,782	0.151%
JNLLord Abbett Short Duration Income Fund	Hyundai Auto Lease Securitization Trust 2024-B	8/17/2026	5.41	Fixed Income	885,000	901,869	0.131%
JNLLord Abbett Short Duration Income Fund	Mercedes-Benz Auto Lease Trust 2024-A	6/15/2027	5.32	Fixed Income	1,650,000	1,697,802	0.246%
JNLLord Abbett Short Duration Income Fund	AEP Texas Inc.	5/15/2029	5.45	Fixed Income	321,000	340,855	0.049%
JNLLord Abbett Short Duration Income Fund	P&G Annuities & Life, Inc.	6/4/2029	6.50	Fixed Income	449,000	472,336	0.068%
JNLLord Abbett Short Duration Income Fund	Shinzo 2024 First Securitization Specialty Co. Ltd	5/29/2027	5.36	Fixed Income	807,000	844,518	0.122%
JNLLord Abbett Short Duration Income Fund	AmeriCredit Automobile Receivables Trust 2024-1	10/18/2025	5.75	Fixed Income	1,305,000	1,314,725	0.191%
JNLLord Abbett Short Duration Income Fund	Coca-Cola Consolidated, Inc.	6/1/2029	5.25	Fixed Income	374,000	395,347	0.057%
JNLLord Abbett Short Duration Income Fund	Exeter Automobile Receivables Trust 2024-3	9/16/2030	5.98	Fixed Income	450,000	463,450	0.067%
JNLLord Abbett Short Duration Income Fund	RGA Global Funding	5/24/2029	5.45	Fixed Income	502,000	532,380	0.077%
JNLLord Abbett Short Duration Income Fund	Connecticut Avenue Securities Trust 2024-R04	5/25/2044	6.28	Fixed Income	583,041	583,141	0.085%
JNLLord Abbett Short Duration Income Fund	Anglo American Capital PLC	3/16/2029	3.88	Fixed Income	200,000	194,072	0.028%
JNLLord Abbett Short Duration Income Fund	Principal Life Global Funding II	1/25/2029	5.10	Fixed Income	655,000	680,936	0.099%
JNLLord Abbett Short Duration Income Fund	CHO Global Funding	6/4/2027	5.88	Fixed Income	843,000	899,560	0.143%
JNLLord Abbett Short Duration Income Fund	Solvay Finance (America), LLC	6/4/2029	5.65	Fixed Income	722,000	765,317	0.111%
JNLLord Abbett Short Duration Income Fund	Gencap Luxembourg S. a.r.l.	6/4/2029	6.00	Fixed Income	194,000	206,726	0.030%
JNLLord Abbett Short Duration Income Fund	Alliant Energy Finance, LLC	6/6/2027	5.40	Fixed Income	244,000	254,352	0.037%
JNLLord Abbett Short Duration Income Fund	Carnival Corporation	9/9/2027	5.77	Fixed Income	224,423	234,823	0.034%
JNLLord Abbett Short Duration Income Fund	SCF Equipment Leasing 2024-1 LLC	10/20/2028	5.52	Fixed Income	255,000	263,225	0.038%
JNLLord Abbett Short Duration Income Fund	Brighthouse Financial, Inc.	6/10/2029	5.65	Fixed Income	748,000	784,938	0.114%
JNLLord Abbett Short Duration Income Fund	Hyatt Hotels Corporation	6/30/2029	5.25	Fixed Income	388,000	402,740	0.058%
JNLLord Abbett Short Duration Income Fund	P&G Global Funding	6/10/2027	5.88	Fixed Income	653,000	679,171	0.088%
JNLLord Abbett Short Duration Income Fund	Energen Holdings, Inc.	12/22/2027	6.32	Fixed Income	1,617,612	1,619,444	0.235%
JNLLord Abbett Short Duration Income Fund	Towd Point Mortgage Trust 2019-HY1	8/25/2028	6.97	Fixed Income	685,000	700,051	0.101%
JNLLord Abbett Short Duration Income Fund	Health Care Service Corporation, A Mutual Legal Reserve Company	6/15/2029	5.20	Fixed Income	313,000	327,751	0.048%
JNLLord Abbett Short Duration Income Fund	Westlake Automobile Receivables Trust 2024-2	4/15/2030	5.91	Fixed Income	765,000	780,704	0.113%
JNLLord Abbett Short Duration Income Fund	Affirm Asset Securitization Trust 2024-A	8/15/2029	5.91	Fixed Income	1,155,000	1,170,810	0.17%
JNLLord Abbett Short Duration Income Fund	BA Credit Card Trust	5/17/2027	4.93	Fixed Income	1,760,000	1,805,995	0.262%
JNLLord Abbett Short Duration Income Fund	Cresline Denali CLO XVII Ltd	10/15/2031	6.47	Fixed Income	1,886,858	1,915,075	0.278%
JNLLord Abbett Short Duration Income Fund	GDX Logistics Inc.	7/15/2026	1.65	Fixed Income	1,040,000	992,728	0.144%
JNLLord Abbett Short Duration Income Fund	Santander Drive Auto Receivables Trust 2023-3	5/15/2028	5.77	Fixed Income	680,000	699,075	0.101%
JNLLord Abbett Short Duration Income Fund	Anglo American Capital PLC	3/17/2028	2.25	Fixed Income	277,000	257,231	0.037%
JNLLord Abbett Short Duration Income Fund	Take-Two Interactive Software, Inc.	6/12/2029	5.40	Fixed Income	135,000	142,242	0.021%
JNLLord Abbett Short Duration Income Fund	AMMC CLO 25 Ltd	4/15/2035	6.68	Fixed Income	1,550,000	1,574,041	0.228%
JNLLord Abbett Short Duration Income Fund	Santander Drive Auto Receivables Trust 2024-3	5/15/2028	5.77	Fixed Income	680,000	699,075	0.086%
JNLLord Abbett Short Duration Income Fund	Merchants Fleet Funding LLC	8/20/2027	5.82	Fixed Income	1,485,000	1,512,079	0.219%
JNLLord Abbett Short Duration Income Fund	General Motors Financial Company, Inc.	7/15/2027	5.35	Fixed Income	454,000	471,419	0.068%
JNLLord Abbett Short Duration Income Fund	Huntington National Bank, The	2/20/2028	6.15	Fixed Income	580,853	590,507	0.086%
JNLLord Abbett Short Duration Income Fund	Daimler Trucks Finance North America LLC	9/25/2027	5.13	Fixed Income	436,000	445,233	0.065%
JNLLord Abbett Short Duration Income Fund	NiSource Inc.	7/1/2029	5.20	Fixed Income	378,000	396,695	0.058%
JNLLord Abbett Short Duration Income Fund	Enel Finance International N.V.	6/26/2029	5.13	Fixed Income	675,000	700,049	0.101%
JNLLord Abbett Short Duration Income Fund	Aviation Capital Group LLC	7/15/2029	5.38	Fixed Income	345,000	356,321	0.052%
JNLLord Abbett Short Duration Income Fund	Oxane Receivables Trust 2024-2	7/20/2032	5.80	Fixed Income	665,000	683,713	0.096%
JNLLord Abbett Short Duration Income Fund	BlueMountain CLO Ltd	12/20/2032	6.42	Fixed Income	938,783	948,081	0.137%
JNLLord Abbett Short Duration Income Fund	Chase Auto Owner Trust 2024-3	7/25/2029	5.22	Fixed Income	860,000	878,540	0.127%
JNLLord Abbett Short Duration Income Fund	Mitsubishi Corporation	7/22/2029	5.00	Fixed Income	496,000	519,757	0.075%
JNLLord Abbett Short Duration Income Fund	Manier Finance Issuance Trust 2021-A	3/20/2026	1.86	Fixed Income	1,615,000	1,639,362	0.233%
JNLLord Abbett Short Duration Income Fund	San Capital Credit CLO 2019-2, Limited	10/17/2038	6.42	Fixed Income	1,500,000	1,520,617	0.220%
JNLLord Abbett Short Duration Income Fund	Broadcom Inc.	7/12/2027	5.05	Fixed Income	924,000	954,412	0.138%
JNLLord Abbett Short Duration Income Fund	Kraton Corporation	7/15/2027	5.00	Fixed Income	774,000	798,008	0.116%
JNLLord Abbett Short Duration Income Fund	Broadcom Inc.	7/12/2029	5.05	Fixed Income	642,000	668,821	0.087%
JNLLord Abbett Short Duration Income Fund	COIN Trust 2024-DPW1	5/15/2041	6.34	Fixed Income	500,000	501,542	0.07%
JNLLord Abbett Short Duration Income Fund	JPMorgan Chase & Co.	7/22/2028	4.98	Fixed Income	916,000	943,090	0.137%
JNLLord Abbett Short Duration Income Fund	MidOcean Credit CLO VI	4/20/2033	6.51	Fixed Income	1,660,000	1,681,978	0.244%
JNLLord Abbett Short Duration Income Fund	Wells Fargo Commercial Mortgage Trust 2024-SC1	7/15/2057	5.93	Fixed Income	800,000	845,208	0.123%
JNLLord Abbett Short Duration Income Fund	Morgan Stanley Bank, National Association	7/14/2028	4.97	Fixed Income	420,000	442,805	0.064%
JNLLord Abbett Short Duration Income Fund	Morgan Stanley	7/19/2030	5.04	Fixed Income	383,000	397,469	0.058%
JNLLord Abbett Short Duration Income Fund	Connecticut Avenue Securities Trust 2024-R05	7/25/2044	6.28	Fixed Income	792,544	792,410	0.115%
JNLLord Abbett Short Duration Income Fund	U.S. Bancorp	7/23/2030	5.10	Fixed Income	646,000	671,241	0.097%
JNLLord Abbett Short Duration Income Fund	American Express Company	7/26/2027	5.64	Fixed Income	584,000	595,139	0.085%
JNLLord Abbett Short Duration Income Fund	Chase Auto Owner Trust 2024-4	1/25/2028	4.94	Fixed Income	885,000	899,547	0.130%
JNLLord Abbett Short Duration Income Fund	Whistler Pipeline LLC	9/30/2029	5.40	Fixed Income	571,000	586,438	0.085%
JNLLord Abbett Short Duration Income Fund	KIND Commercial Mortgage Trust 2024-1	8/17/2026	7.24	Fixed Income	550,000	552,627	0.080%
JNLLord Abbett Short Duration Income Fund	Citizens Auto Receivables Trust 2023-2	6/15/2027	5.92	Fixed Income	1,485,000	1,485,868	0.208%
JNLLord Abbett Short Duration Income Fund	Freemius Medical Care US Finance III, Inc.	6/15/2029	3.75	Fixed Income	742,000	711,722	0.103%
JNLLord Abbett Short Duration Income Fund	Greenko Solar (Mauritius) Limited	1/29/2025	5.55	Fixed Income	1,000,000	1,006,616	0.146%
JNLLord Abbett Short Duration Income Fund	Standard Chartered PLC	2/12/2030	3.52	Fixed Income	431,000	429,281	0.062%
JNLLord Abbett Short Duration Income Fund	Madison Park Funding LVI Ltd	7/27/2034	6.38	Fixed Income	2,010,000	2,029,259	0.284%
JNLLord Abbett Short Duration Income Fund	KKR CLO 15 Ltd.	11/18/2032	6.77	Fixed Income	1,340,000	1,352,341	0.196%
JNLLord Abbett Short Duration Income Fund	Bain Capital Credit, LP	4/19/2034	6.35	Fixed Income	2,250,000	2,269,113	0.329%
JNLLord Abbett Short Duration Income Fund	Comenity Bank	7/15/2027	4.62	Fixed Income	1,160,000	1,177,220	0.171%
JNLLord Abbett Short Duration Income Fund	Quanta Services Inc.	8/9/2027	4.75	Fixed Income	458,000	465,865	0.068%
JNLLord Abbett Short Duration Income Fund	M&I Equipment (2024-LEAF), LLC	8/16/2028	4.79	Fixed Income	330,000	332,889	0.048%
JNLLord Abbett Short Duration Income Fund	IDEX Corporation	9/1/2029	4.95	Fixed Income	174,000	179,093	0.026%
JNLLord Abbett Short Duration Income Fund	GE HealthCare Technologies Inc.	8/14/2029	4.80	Fixed Income	195,000	199,758	0.029%
JNLLord Abbett Short Duration Income Fund	Volkswagen Group of America, Inc.	8/14/2026	4.90	Fixed Income	315,000	318,618	0.046%
JNLLord Abbett Short Duration Income Fund	Essential Utilities, Inc.	5/15/2027	4.80	Fixed Income	267,000	271,580	0.039%
JNLLord Abbett Short Duration Income Fund	NavWest Group PLC	8/15/2030	4.96	Fixed Income	519,000	529,424	0.077%
JNLLord Abbett Short Duration Income Fund	C2W Finance Corporation	3/1/2030	5.10	Fixed Income	132,000	134,923	0.020%
JNLLord Abbett Short Duration Income Fund	629/782 LLC	9/1/2027	4.91	Fixed Income	640,000	646,827	0.084%
JNLLord Abbett Short Duration Income Fund	State Street Corporation	2/20/2029	4.50	Fixed Income	380,000	385,256	0.054%
JNLLord Abbett Short Duration Income Fund	629/782 LLC	10/1/2029	5.03	Fixed Income	777,000	782,801	0.113%
JNLLord Abbett Short Duration Income Fund	CSAL 2015-C3 Commercial Mortgage Trust	3/17/2025	3.45	Fixed Income	1,115,944	1,108,779	0.161%
JNLLord Abbett Short Duration Income Fund	Wells Fargo & Company	4/17/2025	3.50	Fixed Income	1,510,000	1,493,542	0.217%
JNLLord Abbett Short Duration Income Fund	KKR CLO 23 Ltd	10/20/2032	6.58	Fixed Income	2,050,000	2,058,967	0.288%
JNLLord Abbett Short Duration Income Fund	AIG Global Funding	8/20/2027	4.65	Fixed Income	469,000	476,874	0.069%
JNLLord Abbett Short Duration Income Fund	Intel Corporation	8/5/2027	3.75	Fixed Income	374,000	368,760	0.053%
JNLLord Abbett Short Duration Income Fund	JPMDB Commercial Mortgage Securities Trust 2017-C7	7/16/2027	3.15	Fixed Income	1,979,363	1,920,370	0.278%
JNLLord Abbett Short Duration Income Fund	Kroger Co., The	8/15/2027	4.60	Fixed Income	509,000	515,498	0.075%
JNLLord Abbett Short Duration Income Fund	Wells Fargo Commercial Mortgage Trust 2017-C40	8/17/2027	3.32	Fixed Income	3,790,000	3,660,301	0.531%
JNLLord Abbett Short Duration Income Fund	Kroger Co., The	9/15/2029	4.65	Fixed Income	516,000	520,966	0.076%
JNLLord Abbett Short Duration Income Fund	Kroger Co., The	8/15/2026	4.70	Fixed Income	409,000	413,781	0.060%
JNLLord Abbett Short Duration Income Fund	Treasury, United States Department of	8/17/2026	3.75	Fixed Income	8,498,000	8,597,240	1.28%
JNLLord Abbett Short Duration Income Fund	Verallo Corporation	9/18/2028	5.35	Fixed Income	815,000	850,398	0.123%
JNLLord Abbett Short Duration Income Fund	Barclays PLC	9/10/2028	4.84	Fixed Income	329,000	332,864	0.048%
JNLLord Abbett Short Duration Income Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	9/10/2029	5.25	Fixed Income	200,000	203,492	0.029%
JNLLord Abbett Short Duration Income Fund	Verallo Corporation	9/18/2028	5.50	Fixed Income	924,000	944,538	0.137%
JNLLord Abbett Short Duration Income Fund	AerCap Ireland Capital Designated Activity Company	9/10/2029	4.63	Fixed Income	661,000	663,432	0.096%
JNLLord Abbett Short Duration Income Fund	Ford Motor Credit Company LLC	9/6/2029	5.30	Fixed Income	1,046,000	1,045,749	0.152%
JNLLord Abbett Short Duration Income Fund	General Motors Financial Company, Inc.	10/6/2029	4.90	Fixed Income	655,000	657,611	0.095%
JNLLord Abbett Short Duration Income Fund	FirstEnergy Transmission, LLC	11/5/2030	4.55	Fixed Income	196,000	200,242	0.029%
JNLLord Abbett Short Duration Income Fund	Oxyden LPA CLO Ltd	8/20/2034	6.29	Fixed Income	1,580,000	1,596,705	0.230%
JNLLord Abbett Short Duration Income Fund	Pacific Gas And Electric Company	9/4/2025	6.09	Fixed Income	783,000	787,129	0.11%
JNLLord Abbett Short Duration Income Fund	Ford Motor Credit Company LLC	11/5/2026	5.13	Fixed Income	1,310,000	1,319,947	0.194%
JNLLord Abbett Short Duration Income Fund	HF Sinclair Corporation	2/1/2028	5.00	Fixed Income	1,168,000	1,170,186	0.170%
JNLLord Abbett Short Duration Income Fund	CHO Global Funding	9/9/2029	4.95	Fixed Income	262,000	264,065	0.038%
JNLLord Abbett Short Duration Income Fund	Cadence Design Systems, Inc.	9/10/2029	4.30	Fixed Income	450,000	452,170	0.066%
JNLLord Abbett Short Duration Income Fund	Illuma, Inc.	9/9/2026	4.65	Fixed Income	421,000	424,947	0.062%
JNLLord Abbett Short Duration Income Fund	Verizon Master Trust	8/20/2032	4.35	Fixed Income	1,050,000	1,054,822	0.153%
JNLLord Abbett Short Duration Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	6.00	Fixed Income	3,871,394	4,059,774	0.589%
JNLLord Abbett Short Duration Income Fund	Federal National Mortgage Association, Inc.	10/1/2038	6.00	Fixed Income	3,258,630	3,426,040	0.497%
JNLLord Abbett Short Duration Income Fund	Helmerich & Payne, Inc.	12/1/2027	4.65	Fixed Income	526,000	526,848	0.076%
JNLLord Abbett Short Duration Income Fund	Helmerich & Payne, Inc.	12/1/2029	4.85	Fixed Income	1,043,000	1,029,555	0.149%
JNLLord Abbett Short Duration Income Fund	Macquarie Airfinance Holdings Limited	3/17/2030	5.15	Fixed Income	176,000	176,507	0.025%
JNLLord Abbett Short Duration Income Fund	Toyota Lease Owner Trust 2024-B	2/20/2027	4.21	Fixed Income	1,125,000	1,125,967	0.163%
JNLLord Abbett Short Duration Income Fund	Wells Fargo Commercial Mortgage Trust 2019-C50	4/17/2029	3.73	Fixed Income	130,000	125,613	0.018%
JNLLord Abbett Short Duration Income Fund	Benchmark 2018-B2 Mortgage Trust	11/18/2028	3.88	Fixed Income	130,000	126,448	0.018%
JNLLord Abbett Short Duration Income Fund	Benchmark 2019-B11 Mortgage Trust	5/17/2028	3.54	Fixed Income	310,000	292,139	0.042%
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	7/1/2029	4.15	Fixed Income	290,000	292,442	0.042%
JNLLord Abbett Short Duration Income Fund	Federal Home Loan Mortgage Corporation	7/1/2029	4.50	Fixed Income	350,000	353,111	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Lord Abbett Short Duration Income Fund	NBN Co Limited	10/1/2029	4.25	Fixed Income	200,000	199,411	0.029%
JNL/Lord Abbett Short Duration Income Fund	First Citizens BancShares, Inc.	3/15/2030	3.38	Fixed Income	221,000	217,422	0.032%
JNL/Lord Abbett Short Duration Income Fund	Morgan Stanley Capital I Trust 2024-NSTB	9/25/2057	3.90	Fixed Income	1,400,000	1,355,775	0.197%
JNL/Lord Abbett Short Duration Income Fund	American Equity Investment Life Holding Company	1/01/2029	1.75	Fixed Income	196,000	192,765	0.028%
JNL/Lord Abbett Short Duration Income Fund	Danske Bank A/S	10/2/2030	4.61	Fixed Income	773,000	770,573	0.112%
JNL/Lord Abbett Short Duration Income Fund	Buckeye Partners, L.P.	11/2/2026	6.71	Fixed Income	578,539	578,404	0.084%
Total Non Derivatives						689,542,727	
Derivatives							
JNL/Lord Abbett Short Duration Income Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	432	24,647	0.004%
JNL/Lord Abbett Short Duration Income Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	914	261,995	0.041%
Total Derivatives						306,633	
Total All Investments						689,849,360	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Bond Index Fund	JNL Bond Index Fund			Fund	110,609,465	1,066,275,239	100.000%
Total Non Derivatives						1,066,275,239	
Derivatives							
Total Derivatives						0	
Total All Investments						1,066,275,239	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Communication Services Sector Fund	Cash			Cash Equivalent	466.109	466.109	0.061%
JNL/Mellon Communication Services Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	7,786.118	7,802.350	1.016%
JNL/Mellon Communication Services Sector Fund	DoorDash, Inc.			Equity	50.348	7,186.170	0.936%
JNL/Mellon Communication Services Sector Fund	Playtika Holding Corp.			Equity	12.716	101.982	0.013%
JNL/Mellon Communication Services Sector Fund	Roblox Corporation			Equity	86.142	3,812.645	0.497%
JNL/Mellon Communication Services Sector Fund	Warner Music Group Corp.			Equity	22.037	689.758	0.090%
JNL/Mellon Communication Services Sector Fund	Endeavor Group Holdings, Inc.			Equity	30.422	868.852	0.113%
JNL/Mellon Communication Services Sector Fund	Frontier Communications Parent, Inc.			Equity	29.945	1,063.946	0.139%
JNL/Mellon Communication Services Sector Fund	IAC Inc.			Equity	12.486	571.997	0.089%
JNL/Mellon Communication Services Sector Fund	Warner Bros. Discovery, Inc.			Equity	363.934	3,002.456	0.391%
JNL/Mellon Communication Services Sector Fund	Verizon Communications Inc.			Equity	691.338	31,047.990	4.044%
JNL/Mellon Communication Services Sector Fund	Comcast Corporation			Equity	635.255	26,534.601	3.456%
JNL/Mellon Communication Services Sector Fund	Take-Two Interactive Software, Inc.			Equity	26.889	4,133.108	0.538%
JNL/Mellon Communication Services Sector Fund	The Interpublic Group of Companies, Inc.			Equity	61.875	1,960.269	0.255%
JNL/Mellon Communication Services Sector Fund	Walt Disney Company, The			Equity	298.630	28,725.220	3.741%
JNL/Mellon Communication Services Sector Fund	Omnicon Group Inc.			Equity	32.217	3,353.361	0.437%
JNL/Mellon Communication Services Sector Fund	Electronic Arts Inc.			Equity	40.024	5,741.043	0.748%
JNL/Mellon Communication Services Sector Fund	The New York Times Company			Equity	25.603	1,405.319	0.186%
JNL/Mellon Communication Services Sector Fund	Nextstar Media Group, Inc.			Equity	5.095	842.458	0.110%
JNL/Mellon Communication Services Sector Fund	AT&T Inc.			Equity	1,175.775	25,867.050	3.369%
JNL/Mellon Communication Services Sector Fund	Netflix, Inc.			Equity	70.573	50,055.312	6.519%
JNL/Mellon Communication Services Sector Fund	Cogent Communications Holdings, Inc.			Equity	7.123	540.778	0.070%
JNL/Mellon Communication Services Sector Fund	Live Nation Entertainment, Inc.			Equity	24.342	2,665.206	0.347%
JNL/Mellon Communication Services Sector Fund	Indium Communications Inc.			Equity	18.768	571.486	0.074%
JNL/Mellon Communication Services Sector Fund	Yelp Inc.			Equity	11.263	395.106	0.051%
JNL/Mellon Communication Services Sector Fund	Meta Platforms, Inc.			Equity	360.369	296,289.530	28.867%
JNL/Mellon Communication Services Sector Fund	News Corporation			Equity	62.200	1,662.779	0.217%
JNL/Mellon Communication Services Sector Fund	News Corporation			Equity	17.713	496.848	0.065%
JNL/Mellon Communication Services Sector Fund	T-Mobile US, Inc.			Equity	80.202	16,550.485	2.155%
JNL/Mellon Communication Services Sector Fund	Snap Inc.			Equity	178.460	1,909.522	0.249%
JNL/Mellon Communication Services Sector Fund	Twilio Inc.			Equity	27.640	1,802.681	0.235%
JNL/Mellon Communication Services Sector Fund	Former Charter Communications Parent, Inc.			Equity	16.151	5,234.216	0.682%
JNL/Mellon Communication Services Sector Fund	Zillow Group, Inc.			Equity	8.871	549.381	0.072%
JNL/Mellon Communication Services Sector Fund	Sphere Entertainment Co.			Equity	2.752	573.132	0.075%
JNL/Mellon Communication Services Sector Fund	Zillow Group, Inc.			Equity	26.541	1,694.643	0.221%
JNL/Mellon Communication Services Sector Fund	Alphabet Inc.			Equity	963.475	159,792.329	20.811%
JNL/Mellon Communication Services Sector Fund	Liberty Broadband Corporation			Equity	2.868	220.334	0.029%
JNL/Mellon Communication Services Sector Fund	Alphabet Inc.			Equity	855.965	143,108.788	18.638%
JNL/Mellon Communication Services Sector Fund	Liberty Broadband Corporation			Equity	17.833	1,378.299	0.180%
JNL/Mellon Communication Services Sector Fund	Fox Corporation			Equity	21.916	850.341	0.111%
JNL/Mellon Communication Services Sector Fund	Fox Corporation			Equity	38.148	1,614.805	0.210%
JNL/Mellon Communication Services Sector Fund	Roku Inc.			Equity	19.718	1,472.146	0.192%
JNL/Mellon Communication Services Sector Fund	Pinterest, Inc.			Equity	97.644	3,160.736	0.412%
JNL/Mellon Communication Services Sector Fund	Paramount Global			Equity	968	21.209	0.003%
JNL/Mellon Communication Services Sector Fund	Paramount Global			Equity	92.260	984.414	0.128%
JNL/Mellon Communication Services Sector Fund	Match Group, Inc.			Equity	43.567	1,648.575	0.215%
JNL/Mellon Communication Services Sector Fund	Vitamin Oilsa Holdings, Inc.			Equity	6.379	319	0.000%
JNL/Mellon Communication Services Sector Fund	Liberty Media Corporation			Equity	7.776	399.142	0.052%
JNL/Mellon Communication Services Sector Fund	Liberty Media Corporation			Equity	3.094	153.184	0.020%
JNL/Mellon Communication Services Sector Fund	Liberty Media Corporation			Equity	3.752	268.381	0.035%
JNL/Mellon Communication Services Sector Fund	Liberty Media Corporation			Equity	34.529	2,673.580	0.348%
JNL/Mellon Communication Services Sector Fund	TKO Group Holdings Inc.			Equity	11.591	1,433.923	0.187%
JNL/Mellon Communication Services Sector Fund	Liberty Global Ltd.			Equity	27.372	591.509	0.077%
JNL/Mellon Communication Services Sector Fund	Liberty Global Ltd.			Equity	26.992	569.801	0.074%
JNL/Mellon Communication Services Sector Fund	Digital World Acquisition Corp.			Equity	6.914	111.108	0.014%
JNL/Mellon Communication Services Sector Fund	Sirius XM Holdings Inc.			Equity	39.407	931.976	0.121%
Total Non Derivatives						767,672,788	
Derivatives							
JNL/Mellon Communication Services Sector Fund	S&P Communication Services Select Sector Index FUTURE - CASH SETTLED			Derivative	54	155.683	0.020%
Total Derivatives						155.683	
Total All Investments						767,828,471	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Consumer Discretionary Sector Fund	Cash			Cash Equivalent	314.655	314.655	0.021%
JNL/Mellon Consumer Discretionary Sector Fund	JNL Government Money Market Fund	1,970.810	4.82	Cash Equivalent	1,984.764	1,984.764	0.135%
JNL/Mellon Consumer Discretionary Sector Fund	Airbnb, Inc.			Equity	124,712	15,814.729	1.072%
JNL/Mellon Consumer Discretionary Sector Fund	Travel + Leisure Co.			Equity	19,685	907.085	0.061%
JNL/Mellon Consumer Discretionary Sector Fund	Coupons, Inc.			Equity	352,365	8,650.561	0.568%
JNL/Mellon Consumer Discretionary Sector Fund	Academy Sports & Outdoors, Inc.			Equity	21,145	1,226.489	0.084%
JNL/Mellon Consumer Discretionary Sector Fund	Bath & Body Works, Inc.			Equity	64,728	2,066.118	0.140%
JNL/Mellon Consumer Discretionary Sector Fund	Lucid Group, Inc.			Equity	257,939	910.525	0.062%
JNL/Mellon Consumer Discretionary Sector Fund	Life Time Group Holdings, Inc.			Equity	15,079	441.489	0.030%
JNL/Mellon Consumer Discretionary Sector Fund	Rivian Automotive, Inc.			Equity	26,414	2,339.405	0.158%
JNL/Mellon Consumer Discretionary Sector Fund	DK Crown Holdings Inc.			Equity	139,080	5,451.936	0.370%
JNL/Mellon Consumer Discretionary Sector Fund	Mobileye Global Inc.			Equity	26,773	366.790	0.025%
JNL/Mellon Consumer Discretionary Sector Fund	YEI Holdings, Inc.			Equity	25,289	1,037.808	0.070%
JNL/Mellon Consumer Discretionary Sector Fund	Yum! Brands, Inc.			Equity	82,516	11,528.310	0.751%
JNL/Mellon Consumer Discretionary Sector Fund	Boyd Gaming Corporation			Equity	20,247	1,312.411	0.089%
JNL/Mellon Consumer Discretionary Sector Fund	Group 1 Automotive, Inc.			Equity	3,908	1,496.920	0.101%
JNL/Mellon Consumer Discretionary Sector Fund	Ball Corporation			Equity	92,137	6,257.024	0.424%
JNL/Mellon Consumer Discretionary Sector Fund	Choice Hotels International, Inc.			Equity	9,277	1,078.493	0.072%
JNL/Mellon Consumer Discretionary Sector Fund	Avery Dennison Corporation			Equity	23,717	5,235.765	0.355%
JNL/Mellon Consumer Discretionary Sector Fund	Autoliv, Inc.			Equity	20,677	1,930.611	0.131%
JNL/Mellon Consumer Discretionary Sector Fund	Abercrombie & Fitch Co.			Equity	14,487	2,026.731	0.137%
JNL/Mellon Consumer Discretionary Sector Fund	Best Buy Co., Inc.			Equity	57,380	5,982.345	0.406%
JNL/Mellon Consumer Discretionary Sector Fund	Albany International Corp.			Equity	8,945	797.305	0.054%
JNL/Mellon Consumer Discretionary Sector Fund	AutoZone, Inc.			Equity	5,000	15,750.200	1.068%
JNL/Mellon Consumer Discretionary Sector Fund	Brunswick Corporation			Equity	20,130	1,687.297	0.114%
JNL/Mellon Consumer Discretionary Sector Fund	BorgWarner Inc.			Equity	66,504	2,113.430	0.144%
JNL/Mellon Consumer Discretionary Sector Fund	American Eagle Outfitters, Inc.			Equity	52,431	1,173.930	0.080%
JNL/Mellon Consumer Discretionary Sector Fund	Amazon.com, Inc.			Equity	1,546,504	288,160.090	19.531%
JNL/Mellon Consumer Discretionary Sector Fund	H & R Block, Inc.			Equity	40,748	2,605.231	0.177%
JNL/Mellon Consumer Discretionary Sector Fund	Home Depot, Inc., The			Equity	290,708	117,794.882	7.848%
JNL/Mellon Consumer Discretionary Sector Fund	Crown Holdings, Inc.			Equity	34,859	3,342.528	0.227%
JNL/Mellon Consumer Discretionary Sector Fund	Dillard's, Inc.			Equity	1,277	490.291	0.033%
JNL/Mellon Consumer Discretionary Sector Fund	Marriott International, Inc.			Equity	67,913	16,883.172	1.144%
JNL/Mellon Consumer Discretionary Sector Fund	Deckers Outdoor Corporation			Equity	45,174	7,202.994	0.488%
JNL/Mellon Consumer Discretionary Sector Fund	Columbia Sportswear Company			Equity	9,626	890.108	0.059%
JNL/Mellon Consumer Discretionary Sector Fund	Hasbro, Inc.			Equity	38,463	2,781.644	0.189%
JNL/Mellon Consumer Discretionary Sector Fund	The Goodyear Tire & Rubber Company			Equity	85,420	755.967	0.051%
JNL/Mellon Consumer Discretionary Sector Fund	D.R. Horton, Inc.			Equity	87,240	16,642.775	1.128%
JNL/Mellon Consumer Discretionary Sector Fund	Garden Restaurants, Inc.			Equity	35,271	5,789.019	0.392%
JNL/Mellon Consumer Discretionary Sector Fund	Tempur Sealy International, Inc.			Equity	49,799	2,719.025	0.184%
JNL/Mellon Consumer Discretionary Sector Fund	Casey's General Stores, Inc.			Equity	10,988	4,128.301	0.280%
JNL/Mellon Consumer Discretionary Sector Fund	Sealed Air Corporation			Equity	42,913	1,557.742	0.106%
JNL/Mellon Consumer Discretionary Sector Fund	Skechers U.S.A., Inc.			Equity	39,239	6,025.874	0.418%
JNL/Mellon Consumer Discretionary Sector Fund	Harley-Davidson, Inc.			Equity	40,113	1,545.554	0.105%
JNL/Mellon Consumer Discretionary Sector Fund	Genlex Corporation			Equity	65,475	1,943.953	0.132%
JNL/Mellon Consumer Discretionary Sector Fund	eBay Inc.			Equity	148,976	9,699.827	0.657%
JNL/Mellon Consumer Discretionary Sector Fund	Genuine Parts Company			Equity	41,031	5,173.733	0.351%
JNL/Mellon Consumer Discretionary Sector Fund	Gree, Inc.			Equity	7,561	477.855	0.032%
JNL/Mellon Consumer Discretionary Sector Fund	Gap, Inc., The			Equity	64,664	1,425.841	0.097%
JNL/Mellon Consumer Discretionary Sector Fund	Gree, Inc.			Equity	248	17.519	0.001%
JNL/Mellon Consumer Discretionary Sector Fund	Topgolf Callaway Brands Corp.			Equity	49,414	489.146	0.034%
JNL/Mellon Consumer Discretionary Sector Fund	International Paper Company			Equity	100,406	4,904.833	0.332%
JNL/Mellon Consumer Discretionary Sector Fund	Churchill Downs Incorporated			Equity	20,821	2,815.207	0.191%
JNL/Mellon Consumer Discretionary Sector Fund	Macy's, Inc.			Equity	81,954	1,300.094	0.088%
JNL/Mellon Consumer Discretionary Sector Fund	Carroll Corporation			Equity	295,556	5,450.875	0.370%
JNL/Mellon Consumer Discretionary Sector Fund	Packaging Corporation of America			Equity	25,095	5,854.407	0.393%
JNL/Mellon Consumer Discretionary Sector Fund	Ross Stores, Inc.			Equity	95,745	14,410.580	0.977%
JNL/Mellon Consumer Discretionary Sector Fund	AutoNation, Inc.			Equity	7,767	1,389.672	0.094%
JNL/Mellon Consumer Discretionary Sector Fund	Royal Caribbean Cruises Ltd.			Equity	69,168	12,296.100	0.833%
JNL/Mellon Consumer Discretionary Sector Fund	Ulta Motors, Inc.			Equity	9,022	2,548.108	0.172%
JNL/Mellon Consumer Discretionary Sector Fund	Kohl's Corporation			Equity	31,287	660.156	0.045%
JNL/Mellon Consumer Discretionary Sector Fund	Lennar Corporation			Equity	69,049	12,945.307	0.877%
JNL/Mellon Consumer Discretionary Sector Fund	PulteGroup, Inc.			Equity	61,725	8,872.100	0.601%
JNL/Mellon Consumer Discretionary Sector Fund	Molten Manufacturing Company			Equity	14,444	1,018.019	0.069%
JNL/Mellon Consumer Discretionary Sector Fund	Lennar Corporation			Equity	2,930	506.714	0.034%
JNL/Mellon Consumer Discretionary Sector Fund	McDonald's Corporation			Equity	211,811	64,498.568	4.372%
JNL/Mellon Consumer Discretionary Sector Fund	Mohawk Industries, Inc.			Equity	15,739	2,529.943	0.171%
JNL/Mellon Consumer Discretionary Sector Fund	PEAN Entertainment, Inc.			Equity	39,735	1,730.542	0.097%
JNL/Mellon Consumer Discretionary Sector Fund	MGM Resorts International			Equity	71,398	2,790.948	0.189%
JNL/Mellon Consumer Discretionary Sector Fund	Nordstrom, Inc.			Equity	30,492	685.765	0.046%
JNL/Mellon Consumer Discretionary Sector Fund	Polaris Inc.			Equity	15,189	1,264.332	0.086%
JNL/Mellon Consumer Discretionary Sector Fund	Steven Madden, Ltd.			Equity	20,340	1,967.457	0.088%
JNL/Mellon Consumer Discretionary Sector Fund	Mattel, Inc.			Equity	100,155	1,907.953	0.129%
JNL/Mellon Consumer Discretionary Sector Fund	NVR, Inc.			Equity	888	8,712.878	0.591%
JNL/Mellon Consumer Discretionary Sector Fund	KB Home			Equity	19,707	1,688.693	0.114%
JNL/Mellon Consumer Discretionary Sector Fund	NIKE, Inc.			Equity	347,510	30,852.076	2.091%
JNL/Mellon Consumer Discretionary Sector Fund	Meritage Homes Corporation			Equity	10,536	2,160.618	0.146%
JNL/Mellon Consumer Discretionary Sector Fund	Lowe's Companies, Inc.			Equity	167,159	45,275.015	3.069%
JNL/Mellon Consumer Discretionary Sector Fund	Ford Motor Company			Equity	1,149,507	12,138.794	0.823%
JNL/Mellon Consumer Discretionary Sector Fund	MH Homes, Inc.			Equity	8,224	1,409.255	0.096%
JNL/Mellon Consumer Discretionary Sector Fund	Rollins, Inc.			Equity	89,951	4,347.400	0.295%
JNL/Mellon Consumer Discretionary Sector Fund	Advance Auto Parts, Inc.			Equity	18,084	705.095	0.048%
JNL/Mellon Consumer Discretionary Sector Fund	Tractor Supply Company			Equity	31,757	9,239.064	0.626%
JNL/Mellon Consumer Discretionary Sector Fund	LtQ Corporation			Equity	78,250	3,123.740	0.212%
JNL/Mellon Consumer Discretionary Sector Fund	Tail Resorts, Inc.			Equity	10,993	1,915.187	0.130%
JNL/Mellon Consumer Discretionary Sector Fund	Cavco Industries, Inc.			Equity	2,277	975.102	0.066%
JNL/Mellon Consumer Discretionary Sector Fund	Toll Brothers, Inc.			Equity	30,000	4,634.700	0.314%
JNL/Mellon Consumer Discretionary Sector Fund	Urban Outfitters, Inc.			Equity	16,449	618.688	0.042%
JNL/Mellon Consumer Discretionary Sector Fund	Sonoco Products Company			Equity	28,719	1,668.910	0.109%
JNL/Mellon Consumer Discretionary Sector Fund	Asbury Automotive Group, Inc.			Equity	6,034	1,439.652	0.098%
JNL/Mellon Consumer Discretionary Sector Fund	Light & Wonder, Inc.			Equity	26,496	2,403.982	0.163%
JNL/Mellon Consumer Discretionary Sector Fund	Skyline Champion Corporation			Equity	15,661	1,580.296	0.107%
JNL/Mellon Consumer Discretionary Sector Fund	Salgan Holdings, Inc.			Equity	24,315	1,276.138	0.087%
JNL/Mellon Consumer Discretionary Sector Fund	Penske Automotive Group, Inc.			Equity	5,728	930.342	0.063%
JNL/Mellon Consumer Discretionary Sector Fund	Wynn Resorts, Limited			Equity	28,097	2,693.940	0.183%
JNL/Mellon Consumer Discretionary Sector Fund	Starbucks Corporation			Equity	333,113	32,475.186	2.201%
JNL/Mellon Consumer Discretionary Sector Fund	V.F. Corporation			Equity	90,901	1,833.175	0.121%
JNL/Mellon Consumer Discretionary Sector Fund	Rush Enterprises, Inc.			Equity	2,424	116.231	0.008%
JNL/Mellon Consumer Discretionary Sector Fund	Williams-Sonoma, Inc.			Equity	35,443	5,490.830	0.372%
JNL/Mellon Consumer Discretionary Sector Fund	Dick's Sporting Goods, Inc.			Equity	17,104	3,588.789	0.243%
JNL/Mellon Consumer Discretionary Sector Fund	Thor Industries, Inc.			Equity	15,232	1,673.844	0.112%
JNL/Mellon Consumer Discretionary Sector Fund	Whitpool Corporation			Equity	15,953	1,706.971	0.116%
JNL/Mellon Consumer Discretionary Sector Fund	Rush Enterprises, Inc.			Equity	18,467	975.612	0.066%
JNL/Mellon Consumer Discretionary Sector Fund	Carter's, Inc.			Equity	11,015	715.755	0.049%
JNL/Mellon Consumer Discretionary Sector Fund	Service Corporation International			Equity	43,075	3,389.910	0.230%
JNL/Mellon Consumer Discretionary Sector Fund	LIX Companies, Inc. The			Equity	331,853	39,009.528	2.644%
JNL/Mellon Consumer Discretionary Sector Fund	CarMax, Inc.			Equity	46,576	3,604.051	0.244%
JNL/Mellon Consumer Discretionary Sector Fund	Las Vegas Sands Corp.			Equity	118,741	5,977.422	0.405%
JNL/Mellon Consumer Discretionary Sector Fund	Ennis Roadhouse, Inc.			Equity	19,747	3,487.320	0.236%
JNL/Mellon Consumer Discretionary Sector Fund	Domino's Pizza, Inc.			Equity	10,100	4,344.414	0.294%
JNL/Mellon Consumer Discretionary Sector Fund	MercadoLibre, Inc.			Equity	14,312	29,367.652	1.990%
JNL/Mellon Consumer Discretionary Sector Fund	Chipotle Mexican Grill, Inc.			Equity	399,726	23,032.212	1.561%
JNL/Mellon Consumer Discretionary Sector Fund	Crocs, Inc.			Equity	17,730	2,567.481	0.174%
JNL/Mellon Consumer Discretionary Sector Fund	GameStop Corp.			Equity	115,236	2,642.361	0.179%
JNL/Mellon Consumer Discretionary Sector Fund	Lululemon Athletica Inc.			Equity	32,556	8,834.071	0.599%
JNL/Mellon Consumer Discretionary Sector Fund	Ulta Beauty, Inc.			Equity	14,015	5,453.517	0.370%
JNL/Mellon Consumer Discretionary Sector Fund	Tesla Inc.			Equity	815,307	213,308.710	14.458%
JNL/Mellon Consumer Discretionary Sector Fund	Signet Jewelers Limited			Equity	12,748	1,314.829	0.089%
JNL/Mellon Consumer Discretionary Sector Fund	O'Reilly Automotive, Inc.			Equity	16,866	19,422.886	1.316%
JNL/Mellon Consumer Discretionary Sector Fund	Ralph Lauren Corporation			Equity	11,887	2,314.339	0.157%
JNL/Mellon Consumer Discretionary Sector Fund	Bright Horizons Family Solutions, Inc.			Equity	16,968	2,377.726	0.161%
JNL/Mellon Consumer Discretionary Sector Fund	Graphic Packaging Holding Company			Equity	90,216	2,681.761	0.182%
JNL/Mellon Consumer Discretionary Sector Fund	Allison Systems, Inc.			Equity	25,826	2,481.104	0.169%
JNL/Mellon Consumer Discretionary Sector Fund	The Wendy's Company			Equity	49,641	869.710	0.059%
JNL/Mellon Consumer Discretionary Sector Fund	Expedia Group, Inc.			Equity	36,967	5,471.855	0.371%
JNL/Mellon Consumer Discretionary Sector Fund	PVH Corp.			Equity	10,899	1,033.523	0.070%
JNL/Mellon Consumer Discretionary Sector Fund	General Motors Company			Equity	329,353	14,768.189	1.001%
JNL/Mellon Consumer Discretionary Sector Fund	Apliv PLC			Equity	70,436	5,072.096	0.344%
JNL/Mellon Consumer Discretionary Sector Fund	Visteon Corporation			Equity	7,968	758.872	0.051%
JNL/Mellon Consumer Discretionary Sector Fund	Hyatt Hotels Corporation			Equity	12,362	1,889.496	0.128%
JNL/Mellon Consumer Discretionary Sector Fund	Leas Corporation			Equity	16,926	1,947.473	0.129%
JNL/Mellon Consumer Discretionary Sector Fund	Marriott Vacations Worldwide Corporation			Equity	8,838	656.133	0.044%
JNL/Mellon Consumer Discretionary Sector Fund	Acushnet Holdings Corp.			Equity	9,173	584.779	0.040%
JNL/Mellon Consumer Discretionary Sector Fund	Berry Global Group, Inc.			Equity	34,079	2,316.890	0.157%
JNL/Mellon Consumer Discretionary Sector Fund	Taylor Morrison Home II Corporation			Equity	29,787	2,092.835	0.142%
JNL/Mellon Consumer Discretionary Sector Fund	Adient Public Limited Company			Equity	25,928	585.195	0.040%
JNL/Mellon Consumer Discretionary Sector Fund	Murphy USA Inc.			Equity	5,878	2,897.090	0.196%
JNL/Mellon Consumer Discretionary Sector Fund	Five Below, Inc.			Equity	16,084	1,421.021	0.096%
JNL/Mellon Consumer Discretionary Sector Fund	TRI Pointe Homes Holdings, Inc.			Equity	26,613	1,205.135	0.082%
JNL/Mellon Consumer Discretionary Sector Fund	Tapestry, Inc.			Equity	67,768	3,183.741	0.216%
JNL/Mellon Consumer Discretionary Sector Fund	Norwegian Cruise Line Holdings Ltd.			Equity	124,469	2,552.859	0.173%
JNL/Mellon Consumer Discretionary Sector Fund	United Parks And Resorts Inc.			Equity	10,780	545.468	0.037%
JNL/Mellon Consumer Discretionary Sector Fund	Thor & Oscar Holdings, Inc.			Equity	30,847	830.272	0.056%
JNL/Mellon Consumer Discretionary Sector Fund	Burlington Stores, Inc.			Equity	18,530	4,882.284	0.331%
JNL/Mellon Consumer Discretionary Sector Fund	Booking Holdings, Inc.			Equity	9,847	41,476.746	2.811%
JNL/Mellon Consumer Discretionary Sector Fund	Installed Building Products, Inc.			Equity	7,019	1,728.569	0.117%
JNL/Mellon Consumer Discretionary Sector Fund	Wyndham Hotels & Resorts, Inc.			Equity	23,095	1,804.643	0.122%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon Consumer Discretionary Sector Fund	Planet Fitness, Inc.			Equity	26,041	2,115,050	0.143%
JNL/Mellon Consumer Discretionary Sector Fund	Shake Shack, Inc.			Equity	11,310	1,167,305	0.079%
JNL/Mellon Consumer Discretionary Sector Fund	ETSY, Inc.			Equity	34,541	1,918,062	0.130%
JNL/Mellon Consumer Discretionary Sector Fund	Red Rock Resorts, Inc.			Equity	14,618	795,804	0.054%
JNL/Mellon Consumer Discretionary Sector Fund	Hilton Grand Vacations Inc.			Equity	21,242	771,509	0.052%
JNL/Mellon Consumer Discretionary Sector Fund	Wayfair Inc.			Equity	27,490	1,544,368	0.105%
JNL/Mellon Consumer Discretionary Sector Fund	Wingstop Inc.			Equity	9,653	3,600,340	0.244%
JNL/Mellon Consumer Discretionary Sector Fund	Hilton Worldwide Holdings Inc.			Equity	71,820	16,554,510	1.122%
JNL/Mellon Consumer Discretionary Sector Fund	RH			Equity	4,316	1,443,400	0.098%
JNL/Mellon Consumer Discretionary Sector Fund	Boji Barn Holdings, Inc.			Equity	8,833	1,477,584	0.100%
JNL/Mellon Consumer Discretionary Sector Fund	LCI Industries			Equity	7,245	873,312	0.059%
JNL/Mellon Consumer Discretionary Sector Fund	Capri Holdings Limited			Equity	33,179	1,408,117	0.095%
JNL/Mellon Consumer Discretionary Sector Fund	Kontoor Brands, Inc.			Equity	16,357	1,337,675	0.091%
JNL/Mellon Consumer Discretionary Sector Fund	Amcor Pty Ltd			Equity	422,055	4,781,893	0.324%
JNL/Mellon Consumer Discretionary Sector Fund	Reynolds Consumer Products Inc.			Equity	15,491	461,770	0.033%
JNL/Mellon Consumer Discretionary Sector Fund	Carvana Co.			Equity	33,567	5,844,350	0.396%
JNL/Mellon Consumer Discretionary Sector Fund	Caesars Entertainment, Inc.			Equity	61,294	2,558,412	0.173%
JNL/Mellon Consumer Discretionary Sector Fund	CAVA Group, Inc.			Equity	20,681	2,561,342	0.174%
JNL/Mellon Consumer Discretionary Sector Fund	Savers Value Village, Inc.			Equity	9,689	101,928	0.007%
JNL/Mellon Consumer Discretionary Sector Fund	Maplebear Inc.			Equity	42,711	1,740,046	0.118%
JNL/Mellon Consumer Discretionary Sector Fund	Smurfit Westrock Public Limited Company			Equity	146,261	7,228,219	0.490%
Total Non Derivatives						1,475,373,085	
Derivatives							
JNL/Mellon Consumer Discretionary Sector Fund	S&P Consumer Discretionary Select Sector Index FUTURE - CASH SETTLED			Derivative	38	20,696	0.001%
Total Derivatives						20,696	
Total All Investments						1,475,393,781	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Consumer Staples Sector Fund	Cash			Cash Equivalent	182.102	182.102	0.042%
JNL/Mellon Consumer Staples Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,058.106	2,075.644	0.478%
JNL/Mellon Consumer Staples Sector Fund	Celsius Holdings, Inc.			Equity	55.015	1,725.270	0.388%
JNL/Mellon Consumer Staples Sector Fund	Sirde, Inc.			Equity	21.922	1,870.166	0.431%
JNL/Mellon Consumer Staples Sector Fund	Bellring Intermediate Holdings, Inc.			Equity	39.867	2,420.724	0.558%
JNL/Mellon Consumer Staples Sector Fund	Archer-Daniels-Midland Company			Equity	76.243	4,554.757	1.050%
JNL/Mellon Consumer Staples Sector Fund	Brown-Forman Corporation			Equity	36.404	1,756.400	0.405%
JNL/Mellon Consumer Staples Sector Fund	Brown-Forman Corporation			Equity	64.238	3,172.842	0.731%
JNL/Mellon Consumer Staples Sector Fund	Boston Beer Company, Inc., The			Equity	6.271	1,813.197	0.418%
JNL/Mellon Consumer Staples Sector Fund	The Clorox Company			Equity	22.750	3,706.203	0.854%
JNL/Mellon Consumer Staples Sector Fund	Target Corporation			Equity	60.541	9,435.920	2.175%
JNL/Mellon Consumer Staples Sector Fund	Hormel Foods Corporation			Equity	75.817	2,403.399	0.554%
JNL/Mellon Consumer Staples Sector Fund	The Estee Lauder Companies Inc.			Equity	41.272	4,114.406	0.948%
JNL/Mellon Consumer Staples Sector Fund	Constellation Brands, Inc.			Equity	23.915	6,162.656	1.420%
JNL/Mellon Consumer Staples Sector Fund	J&J Snack Foods Corp.			Equity	10.013	1,729.587	0.399%
JNL/Mellon Consumer Staples Sector Fund	Campbell Soup Company			Equity	50.658	2,478.189	0.571%
JNL/Mellon Consumer Staples Sector Fund	General Mills, Inc.			Equity	81.656	6,030.296	1.390%
JNL/Mellon Consumer Staples Sector Fund	Church & Dwight Co., Inc.			Equity	41.336	4,328.706	0.998%
JNL/Mellon Consumer Staples Sector Fund	Dollar Tree, Inc.			Equity	39.723	2,793.321	0.644%
JNL/Mellon Consumer Staples Sector Fund	The Hershey Company			Equity	23.755	4,555.734	1.050%
JNL/Mellon Consumer Staples Sector Fund	Coca-Cola Consolidated, Inc.			Equity	1.638	2,156.263	0.497%
JNL/Mellon Consumer Staples Sector Fund	Conagra Brands, Inc.			Equity	98.547	3,204.748	0.739%
JNL/Mellon Consumer Staples Sector Fund	Colgate-Palmolive Company			Equity	104.216	10,818.663	2.494%
JNL/Mellon Consumer Staples Sector Fund	Coca-Cola Company, The			Equity	454.222	32,876.028	7.578%
JNL/Mellon Consumer Staples Sector Fund	Darling Ingredients Inc.			Equity	51.700	1,921.172	0.443%
JNL/Mellon Consumer Staples Sector Fund	Costco Wholesale Corporation			Equity	50.949	45,187.307	10.411%
JNL/Mellon Consumer Staples Sector Fund	McCormick & Company, Incorporated			Equity	45.685	3,759.876	0.867%
JNL/Mellon Consumer Staples Sector Fund	Lancaster Colony Corporation			Equity	10.573	1,866.875	0.430%
JNL/Mellon Consumer Staples Sector Fund	Kellanova			Equity	46.905	3,785.703	0.873%
JNL/Mellon Consumer Staples Sector Fund	Powers Foods, Inc.			Equity	83.304	1,921.923	0.442%
JNL/Mellon Consumer Staples Sector Fund	PepperCo, Inc.			Equity	161.145	27,402.027	6.316%
JNL/Mellon Consumer Staples Sector Fund	Alma Group, Inc.			Equity	216.188	11,269.095	2.597%
JNL/Mellon Consumer Staples Sector Fund	BJ's Wholesale Club Holdings, Inc.			Equity	31.413	2,590.944	0.597%
JNL/Mellon Consumer Staples Sector Fund	Inter Parfums, Inc.			Equity	13.014	1,685.053	0.388%
JNL/Mellon Consumer Staples Sector Fund	Kroger Co., The			Equity	101.860	5,836.378	1.345%
JNL/Mellon Consumer Staples Sector Fund	Kimberly-Clark Corporation			Equity	47.327	6,789.929	1.565%
JNL/Mellon Consumer Staples Sector Fund	Procter & Gamble Company, The			Equity	270.808	46,903.946	10.811%
JNL/Mellon Consumer Staples Sector Fund	National Beverage Corp.			Equity	34.120	1,601.593	0.369%
JNL/Mellon Consumer Staples Sector Fund	Newell Brands Inc.			Equity	245.604	1,896.239	0.435%
JNL/Mellon Consumer Staples Sector Fund	Walmart Inc.			Equity	500.642	40,426.842	9.318%
JNL/Mellon Consumer Staples Sector Fund	The J. M. Smucker Company			Equity	24.167	2,926.624	0.675%
JNL/Mellon Consumer Staples Sector Fund	Sysco Corporation			Equity	73.578	5,743.499	1.324%
JNL/Mellon Consumer Staples Sector Fund	Tyson Foods, Inc.			Equity	53.319	3,175.680	0.732%
JNL/Mellon Consumer Staples Sector Fund	Molson Coors Beverage Company			Equity	45.737	2,630.792	0.606%
JNL/Mellon Consumer Staples Sector Fund	Post Holdings, Inc.			Equity	18.297	2,117.878	0.488%
JNL/Mellon Consumer Staples Sector Fund	Inoreldon Incorporated			Equity	17.803	2,446.666	0.564%
JNL/Mellon Consumer Staples Sector Fund	Dollar General Corporation			Equity	41.494	3,509.148	0.809%
JNL/Mellon Consumer Staples Sector Fund	Grand Canyon Education, Inc.			Equity	12.908	1,831.000	0.422%
JNL/Mellon Consumer Staples Sector Fund	Pilgrim's Pride Corporation			Equity	34.720	1,598.856	0.369%
JNL/Mellon Consumer Staples Sector Fund	Philip Morris International Inc.			Equity	184.023	22,588.823	5.207%
JNL/Mellon Consumer Staples Sector Fund	US Foods Holding Corp.			Equity	49.483	3,043.205	0.701%
JNL/Mellon Consumer Staples Sector Fund	e.l.f. Beauty, Inc.			Equity	15.364	1,675.137	0.386%
JNL/Mellon Consumer Staples Sector Fund	Sprouts Farmers Market, Inc.			Equity	24.793	2,737.395	0.631%
JNL/Mellon Consumer Staples Sector Fund	Mondelēz International, Inc.			Equity	168.972	12,527.584	2.888%
JNL/Mellon Consumer Staples Sector Fund	Lamba Weston Holdings, Inc.			Equity	39.008	2,525.378	0.582%
JNL/Mellon Consumer Staples Sector Fund	Coty Inc.			Equity	193.769	1,819.491	0.419%
JNL/Mellon Consumer Staples Sector Fund	Simply Good Foods Company, The			Equity	54.917	1,909.464	0.440%
JNL/Mellon Consumer Staples Sector Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	22.703	2,206.732	0.509%
JNL/Mellon Consumer Staples Sector Fund	Kraft Heinz Company, The			Equity	136.410	4,859.575	1.120%
JNL/Mellon Consumer Staples Sector Fund	Freshpet, Inc.			Equity	15.462	2,114.728	0.487%
JNL/Mellon Consumer Staples Sector Fund	Performance Food Group Company			Equity	36.270	2,842.480	0.655%
JNL/Mellon Consumer Staples Sector Fund	Monster Beverage 1990 Corporation			Equity	108.360	5,653.141	1.303%
JNL/Mellon Consumer Staples Sector Fund	Keurig Dr Pepper Inc.			Equity	159.632	6,019.723	1.387%
JNL/Mellon Consumer Staples Sector Fund	Spectrum Brands Holdings, Inc.			Equity	18.027	1,715.089	0.395%
JNL/Mellon Consumer Staples Sector Fund	Grocery Outlet Holding Corp.			Equity	86.281	1,514.232	0.349%
JNL/Mellon Consumer Staples Sector Fund	Albertsons Companies, Inc.			Equity	115.892	2,141.684	0.494%
JNL/Mellon Consumer Staples Sector Fund	Kenvue Inc.			Equity	257.425	5,954.240	1.372%
JNL/Mellon Consumer Staples Sector Fund	Bunge Limited			Equity	29.702	2,870.401	0.662%
Total Non Derivatives						433,879,558	
Derivatives							
JNL/Mellon Consumer Staples Sector Fund	S&P Consumer Staples Select Sector Index FUTURE - CASH SETTLED			Derivative	36	(24,566)	-0.006%
Total Derivatives						(24,566)	
Total All Investments						433,854,992	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon DowSM Index Fund	Cash			Cash Equivalent	730,010	730,010	0.055%
JNL/Mellon DowSM Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	12,302,470	12,334,724	0.921%
JNL/Mellon DowSM Index Fund	Verizon Communications Inc.			Equity	205,680	9,237,089	0.690%
JNL/Mellon DowSM Index Fund	International Business Machines Corporation			Equity	205,680	45,471,734	3.396%
JNL/Mellon DowSM Index Fund	Boeing Company, The			Equity	205,680	31,271,587	2.336%
JNL/Mellon DowSM Index Fund	American Express Company			Equity	205,680	55,780,416	4.166%
JNL/Mellon DowSM Index Fund	Honeywell International Inc.			Equity	205,680	42,516,113	3.176%
JNL/Mellon DowSM Index Fund	Amgen Inc.			Equity	205,680	66,272,153	4.950%
JNL/Mellon DowSM Index Fund	Amazon.com, Inc.			Equity	205,680	38,324,354	2.862%
JNL/Mellon DowSM Index Fund	Apple Inc.			Equity	205,680	47,923,440	3.579%
JNL/Mellon DowSM Index Fund	Home Depot, Inc., The			Equity	205,680	83,341,536	6.225%
JNL/Mellon DowSM Index Fund	Cisco Systems, Inc.			Equity	205,680	10,946,290	0.818%
JNL/Mellon DowSM Index Fund	Intel Corporation			Equity	205,680	4,825,253	0.360%
JNL/Mellon DowSM Index Fund	JPMorgan Chase & Co.			Equity	205,680	43,369,685	3.238%
JNL/Mellon DowSM Index Fund	Caterpillar Inc.			Equity	205,680	80,445,562	6.009%
JNL/Mellon DowSM Index Fund	Walt Disney Company, The			Equity	205,680	19,784,359	1.478%
JNL/Mellon DowSM Index Fund	Salesforce, Inc.			Equity	205,680	56,379,356	4.211%
JNL/Mellon DowSM Index Fund	Coca Cola Company, The			Equity	205,680	14,881,118	1.111%
JNL/Mellon DowSM Index Fund	Travelers Companies, Inc., The			Equity	205,680	48,153,802	3.597%
JNL/Mellon DowSM Index Fund	Johnson & Johnson			Equity	205,680	33,332,501	2.490%
JNL/Mellon DowSM Index Fund	Merck & Co., Inc.			Equity	205,680	23,517,297	1.757%
JNL/Mellon DowSM Index Fund	McDonald's Corporation			Equity	205,680	62,631,617	4.678%
JNL/Mellon DowSM Index Fund	Goldman Sachs Group, Inc., The			Equity	205,680	101,834,225	7.606%
JNL/Mellon DowSM Index Fund	Procter & Gamble Company, The			Equity	205,680	35,623,776	2.661%
JNL/Mellon DowSM Index Fund	Microsoft Corporation			Equity	205,680	88,504,104	6.610%
JNL/Mellon DowSM Index Fund	3M Company			Equity	205,680	28,116,456	2.100%
JNL/Mellon DowSM Index Fund	NIKE, Inc.			Equity	205,680	18,259,674	1.364%
JNL/Mellon DowSM Index Fund	Walmart Inc.			Equity	205,680	16,608,660	1.241%
JNL/Mellon DowSM Index Fund	Chevron Corporation			Equity	205,680	30,290,494	2.262%
JNL/Mellon DowSM Index Fund	UnitedHealth Group Incorporated			Equity	205,680	120,256,982	8.962%
JNL/Mellon DowSM Index Fund	Visa Inc.			Equity	205,680	56,551,716	4.224%
JNL/Mellon DowSM Index Fund	Dow Inc.			Equity	205,680	11,236,298	0.839%
Total Non Derivatives						1,338,752,381	
Derivatives							
JNL/Mellon DowSM Index Fund	Dow Jones Industrial Average Index FUTURE - CASH SETTLED			Derivative	63	94,653	0.007%
Total Derivatives						94,653	
Total All Investments						1,338,847,034	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Emerging Markets Index Fund	JNL Emerging Markets Index Fund			Fund	91,930,283	871,499,078	100.000%
Total Non Derivatives						871,499,078	
Derivatives							
Total Derivatives						0	
Total All Investments						871,499,078	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Energy Sector Fund	Cash			Cash Equivalent	1,682,743	1,682,743	0.094%
JNL/Mellon Energy Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	9,685,548	9,723,021	0.541%
JNL/Mellon Energy Sector Fund	California Resources Corporation			Equity	57,285	3,005,744	0.167%
JNL/Mellon Energy Sector Fund	Chord Energy Corporation			Equity	58,817	7,659,681	0.426%
JNL/Mellon Energy Sector Fund	NOV Inc.			Equity	378,352	6,042,281	0.346%
JNL/Mellon Energy Sector Fund	Comstock Resources, Inc.			Equity	83,795	932,638	0.052%
JNL/Mellon Energy Sector Fund	Texas Pacific Land Corporation			Equity	18,632	16,484,476	0.917%
JNL/Mellon Energy Sector Fund	Liberty Energy Inc.			Equity	156,741	2,992,186	0.166%
JNL/Mellon Energy Sector Fund	Chesapeake Energy Corporation			Equity	100,506	8,266,619	0.460%
JNL/Mellon Energy Sector Fund	Uranium Energy Corp.			Equity	382,505	2,251,136	0.125%
JNL/Mellon Energy Sector Fund	Apa Corp.			Equity	353,957	8,657,788	0.482%
JNL/Mellon Energy Sector Fund	Valaris Limited			Equity	60,586	3,377,670	0.188%
JNL/Mellon Energy Sector Fund	Gulport Energy Operating Corporation			Equity	12,368	1,811,897	0.104%
JNL/Mellon Energy Sector Fund	OT Midstream, Inc.			Equity	93,394	7,415,017	0.412%
JNL/Mellon Energy Sector Fund	Civitas Resources, Inc.			Equity	70,336	3,563,925	0.198%
JNL/Mellon Energy Sector Fund	HF Sinclair Corporation			Equity	159,363	7,102,809	0.395%
JNL/Mellon Energy Sector Fund	Permian Resources Corporation			Equity	609,120	8,290,123	0.461%
JNL/Mellon Energy Sector Fund	ONEOK, Inc.			Equity	560,563	51,084,106	2.841%
JNL/Mellon Energy Sector Fund	Valero Energy Corporation			Equity	307,711	41,560,216	2.311%
JNL/Mellon Energy Sector Fund	Hess Corporation			Equity	268,086	36,406,079	2.025%
JNL/Mellon Energy Sector Fund	Halliburton Company			Equity	852,000	24,750,600	1.377%
JNL/Mellon Energy Sector Fund	EOG Resources, Inc.			Equity	552,539	67,923,519	3.778%
JNL/Mellon Energy Sector Fund	Coterra Energy Inc.			Equity	717,866	17,192,891	0.956%
JNL/Mellon Energy Sector Fund	EQT Corporation			Equity	543,434	19,911,422	1.107%
JNL/Mellon Energy Sector Fund	Exxon Mobil Corporation			Equity	4,275,874	501,217,950	27.878%
JNL/Mellon Energy Sector Fund	Helmerich & Payne, Inc.			Equity	92,947	2,827,448	0.157%
JNL/Mellon Energy Sector Fund	Range Resources Corporation			Equity	230,884	7,101,992	0.395%
JNL/Mellon Energy Sector Fund	Schlumberger Limited			Equity	1,374,727	58,051,841	3.229%
JNL/Mellon Energy Sector Fund	Magnolia Oil & Gas Corporation			Equity	164,430	4,015,381	0.223%
JNL/Mellon Energy Sector Fund	SM Energy Company			Equity	110,500	4,416,665	0.246%
JNL/Mellon Energy Sector Fund	Occidental Petroleum Corporation			Equity	607,242	31,431,172	1.748%
JNL/Mellon Energy Sector Fund	Murphy Oil Corporation			Equity	146,287	4,935,723	0.275%
JNL/Mellon Energy Sector Fund	National Fuel Gas Company			Equity	87,969	5,377,105	0.299%
JNL/Mellon Energy Sector Fund	Patterson-UTI Energy, Inc.			Equity	359,166	2,747,620	0.153%
JNL/Mellon Energy Sector Fund	ConocoPhillips			Equity	1,120,510	17,967,293	0.981%
JNL/Mellon Energy Sector Fund	Devon Energy Corporation			Equity	607,618	23,770,026	1.322%
JNL/Mellon Energy Sector Fund	Cheniere Energy, Inc.			Equity	220,082	39,579,547	2.201%
JNL/Mellon Energy Sector Fund	Marathon Oil Corporation			Equity	544,145	14,490,581	0.806%
JNL/Mellon Energy Sector Fund	Chevron Corporation			Equity	1,631,328	240,745,575	13.363%
JNL/Mellon Energy Sector Fund	Southwestern Energy Company			Equity	1,065,466	7,575,463	0.421%
JNL/Mellon Energy Sector Fund	Williams Companies, Inc., The			Equity	1,170,049	53,412,737	2.971%
JNL/Mellon Energy Sector Fund	CVR Energy, Inc.			Equity	34,890	803,517	0.045%
JNL/Mellon Energy Sector Fund	Marathon Petroleum Corporation			Equity	328,173	53,462,663	2.974%
JNL/Mellon Energy Sector Fund	Matador Resources Company			Equity	114,549	5,661,012	0.315%
JNL/Mellon Energy Sector Fund	Targa Resources Corp.			Equity	213,085	31,538,711	1.754%
JNL/Mellon Energy Sector Fund	Transocean Ltd.			Equity	754,757	3,207,717	0.178%
JNL/Mellon Energy Sector Fund	Phillips 66			Equity	492,421	52,889,240	2.942%
JNL/Mellon Energy Sector Fund	Kinder Morgan, Inc.			Equity	1,892,913	41,814,448	2.326%
JNL/Mellon Energy Sector Fund	PBF Energy Inc.			Equity	99,343	3,074,666	0.171%
JNL/Mellon Energy Sector Fund	Valvoline, Inc.			Equity	124,695	5,218,486	0.290%
JNL/Mellon Energy Sector Fund	Diamondback Energy, Inc.			Equity	166,562	28,715,289	1.597%
JNL/Mellon Energy Sector Fund	Tidewater Inc.			Equity	46,392	3,330,482	0.185%
JNL/Mellon Energy Sector Fund	Baker Hughes Company			Equity	969,353	35,042,111	1.949%
JNL/Mellon Energy Sector Fund	Peabody Energy Corporation			Equity	116,413	3,089,601	0.172%
JNL/Mellon Energy Sector Fund	Cactus, Inc.			Equity	62,445	3,726,093	0.207%
JNL/Mellon Energy Sector Fund	CNX Resources Corporation			Equity	145,696	4,745,318	0.264%
JNL/Mellon Energy Sector Fund	Antero Resources Corporation			Equity	280,736	8,043,086	0.447%
JNL/Mellon Energy Sector Fund	Weatherford International Public Limited Company			Equity	70,823	6,014,289	0.335%
JNL/Mellon Energy Sector Fund	Archrock, Inc.			Equity	153,972	3,116,393	0.173%
JNL/Mellon Energy Sector Fund	International Seaways, Inc.			Equity	33,962	1,751,081	0.097%
JNL/Mellon Energy Sector Fund	Kosmos Energy Ltd.			Equity	455,468	1,835,536	0.102%
JNL/Mellon Energy Sector Fund	Antero Midstream Corporation			Equity	329,112	4,953,136	0.275%
JNL/Mellon Energy Sector Fund	Ovintiv Canada ULC			Equity	255,033	9,770,314	0.543%
JNL/Mellon Energy Sector Fund	ChampionX Corporation			Equity	182,480	5,501,772	0.306%
JNL/Mellon Energy Sector Fund	Northern Oil and Gas Incorporated			Equity	89,035	3,190,124	0.177%
Total Non Derivatives						1,797,807,032	
Derivatives							
JNL/Mellon Energy Sector Fund	S&P Energy Select Sector Index FUTURE - CASH SETTLED			Derivative	130	73,857	0.004%
Total Derivatives						73,857	
Total All Investments						1,797,880,889	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Financial Sector Fund	Cash			Cash Equivalent	661,903	661,903	0.047%
JNL/Mellon Financial Sector Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	6,046,792	6,078,847	0.436%
JNL/Mellon Financial Sector Fund	Combase Global, Inc.			Equity	39,972	7,121,811	0.511%
JNL/Mellon Financial Sector Fund	Blue Owl Capital Inc.			Equity	100,952	1,954,431	0.140%
JNL/Mellon Financial Sector Fund	Soft Technologies, Inc.			Equity	209,370	1,645,648	0.118%
JNL/Mellon Financial Sector Fund	Riot Platforms, Inc.			Equity	57,343	425,485	0.031%
JNL/Mellon Financial Sector Fund	Mara Holdings, Inc.			Equity	54,103	877,551	0.063%
JNL/Mellon Financial Sector Fund	Ryan Specialty Group Holdings, Inc.			Equity	20,163	1,338,622	0.096%
JNL/Mellon Financial Sector Fund	Jackson Financial Inc.			Equity	13,995	1,276,764	0.092%
JNL/Mellon Financial Sector Fund	Anne Financial, Inc.			Equity	10,670	670,930	0.048%
JNL/Mellon Financial Sector Fund	Cadence Bank			Equity	35,701	1,146,542	0.082%
JNL/Mellon Financial Sector Fund	FirstCash, Inc.			Equity	7,796	894,981	0.064%
JNL/Mellon Financial Sector Fund	Apollo Global Management, Inc.			Equity	80,209	10,018,906	0.718%
JNL/Mellon Financial Sector Fund	Robinson-Hood, Inc.			Equity	103,549	2,625,118	0.174%
JNL/Mellon Financial Sector Fund	Corebridge Financial, Inc.			Equity	46,899	1,367,575	0.098%
JNL/Mellon Financial Sector Fund	F&G Annuities & Life, Inc.			Equity	4,463	199,585	0.014%
JNL/Mellon Financial Sector Fund	Enact Holdings, Inc.			Equity	5,800	210,714	0.015%
JNL/Mellon Financial Sector Fund	Mr. Cooper Group Inc.			Equity	12,164	1,121,278	0.080%
JNL/Mellon Financial Sector Fund	PennyMac Financial Services, Inc.			Equity	5,093	580,449	0.042%
JNL/Mellon Financial Sector Fund	F.N.B. Corporation			Equity	72,617	1,024,626	0.073%
JNL/Mellon Financial Sector Fund	SLM Corporation			Equity	43,811	1,001,958	0.072%
JNL/Mellon Financial Sector Fund	AFLAC Incorporated			Equity	102,116	11,416,569	0.819%
JNL/Mellon Financial Sector Fund	W. R. Berkley Corporation			Equity	62,713	3,557,708	0.255%
JNL/Mellon Financial Sector Fund	BandFirst Corporation			Equity	4,198	443,771	0.032%
JNL/Mellon Financial Sector Fund	Affiliated Managers Group, Inc.			Equity	6,525	1,160,145	0.083%
JNL/Mellon Financial Sector Fund	Berkshire Hathaway Inc.			Equity	363,542	187,323,841	11.197%
JNL/Mellon Financial Sector Fund	BOK Financial Corporation			Equity	4,588	479,997	0.034%
JNL/Mellon Financial Sector Fund	Associated Banc-Corp			Equity	28,691	618,004	0.044%
JNL/Mellon Financial Sector Fund	American Express Company			Equity	114,103	30,844,734	2.219%
JNL/Mellon Financial Sector Fund	American International Group, Inc.			Equity	131,066	9,587,963	0.688%
JNL/Mellon Financial Sector Fund	American Financial Group, Inc.			Equity	15,069	2,026,237	0.145%
JNL/Mellon Financial Sector Fund	Alstate Corporation, The			Equity	52,779	10,057,766	0.721%
JNL/Mellon Financial Sector Fund	Hanover Insurance Group Inc, The			Equity	7,139	1,057,357	0.076%
JNL/Mellon Financial Sector Fund	Ameris Bancorp.			Equity	12,487	780,937	0.056%
JNL/Mellon Financial Sector Fund	International Bancshares Corporation			Equity	9,824	987,377	0.071%
JNL/Mellon Financial Sector Fund	M&T Bank Corporation			Equity	33,613	5,987,148	0.429%
JNL/Mellon Financial Sector Fund	Credit Acceptance Corporation			Equity	1,179	522,792	0.037%
JNL/Mellon Financial Sector Fund	Columbia Banking System, Inc.			Equity	41,461	1,082,547	0.078%
JNL/Mellon Financial Sector Fund	FactSet Research Systems Inc.			Equity	7,654	3,519,028	0.254%
JNL/Mellon Financial Sector Fund	First Horizon Corporation			Equity	111,743	1,752,130	0.126%
JNL/Mellon Financial Sector Fund	First Financial Bankshares, Inc.			Equity	28,808	1,071,370	0.077%
JNL/Mellon Financial Sector Fund	Cullen/Frost Bankers, Inc.			Equity	12,229	1,367,936	0.098%
JNL/Mellon Financial Sector Fund	Moody's Corporation			Equity	31,952	15,184,287	1.087%
JNL/Mellon Financial Sector Fund	Fifth Third Bancorp			Equity	137,653	5,947,986	0.426%
JNL/Mellon Financial Sector Fund	Assurant, Inc.			Equity	10,485	2,085,047	0.149%
JNL/Mellon Financial Sector Fund	Erie Indemnity Company			Equity	5,174	2,793,029	0.200%
JNL/Mellon Financial Sector Fund	Piper Sandier Companies			Equity	3,205	899,611	0.065%
JNL/Mellon Financial Sector Fund	JPMorgan Chase & Co.			Equity	573,824	120,996,529	8.879%
JNL/Mellon Financial Sector Fund	White Mountains Insurance Group Ltd			Equity	505	856,581	0.061%
JNL/Mellon Financial Sector Fund	Federated Hermes, Inc.			Equity	16,483	605,080	0.043%
JNL/Mellon Financial Sector Fund	Prosperity Bancshares, Inc.			Equity	19,612	1,424,430	0.102%
JNL/Mellon Financial Sector Fund	Commerce Bancshares, Inc.			Equity	25,826	1,534,064	0.110%
JNL/Mellon Financial Sector Fund	Arthur J. Gallagher & Co.			Equity	43,798	12,323,443	0.884%
JNL/Mellon Financial Sector Fund	Netnet, Inc.			Equity	2,765	313,219	0.022%
JNL/Mellon Financial Sector Fund	CorNet Corporation			Equity	1,888	517,168	0.044%
JNL/Mellon Financial Sector Fund	Franklin Resources, Inc.			Equity	57,529	1,177,043	0.084%
JNL/Mellon Financial Sector Fund	Unum Group			Equity	34,821	2,069,760	0.148%
JNL/Mellon Financial Sector Fund	First Citizens BancShares, Inc.			Equity	2,524	4,646,558	0.333%
JNL/Mellon Financial Sector Fund	Winn-Dixie Financial Corporation			Equity	15,113	1,423,154	0.102%
JNL/Mellon Financial Sector Fund	Radian Group Inc			Equity	80,554	1,059,918	0.076%
JNL/Mellon Financial Sector Fund	Hancock Whitney Corporation			Equity	17,617	901,462	0.065%
JNL/Mellon Financial Sector Fund	Huntington Bancshares Incorporated			Equity	288,506	4,286,487	0.307%
JNL/Mellon Financial Sector Fund	First Bancorp.			Equity	35,353	748,423	0.054%
JNL/Mellon Financial Sector Fund	Cathay General Bancorp			Equity	14,410	1,410,910	0.104%
JNL/Mellon Financial Sector Fund	Glacier Bancorp, Inc.			Equity	23,906	1,092,504	0.078%
JNL/Mellon Financial Sector Fund	Comerica Incorporated			Equity	26,768	1,622,676	0.116%
JNL/Mellon Financial Sector Fund	Cincinnati Financial Corporation			Equity	31,190	4,270,847	0.306%
JNL/Mellon Financial Sector Fund	Citigroup Inc.			Equity	383,834	34,028,048	2.423%
JNL/Mellon Financial Sector Fund	Morgan Stanley			Equity	252,348	26,304,773	1.886%
JNL/Mellon Financial Sector Fund	Bank of America Corporation			Equity	1,361,363	54,018,884	3.873%
JNL/Mellon Financial Sector Fund	BlackRock, Inc.			Equity	29,974	28,460,613	2.041%
JNL/Mellon Financial Sector Fund	Mell, Jr., Inc.			Equity	120,099	8,905,768	0.716%
JNL/Mellon Financial Sector Fund	RLI Corp.			Equity	8,581	1,329,883	0.095%
JNL/Mellon Financial Sector Fund	U.S. Bancorp			Equity	313,522	14,494,122	1.039%
JNL/Mellon Financial Sector Fund	T. Rowe Price Group, Inc.			Equity	45,019	4,903,920	0.352%
JNL/Mellon Financial Sector Fund	Travelers Companies, Inc., The			Equity	40,212	10,819,153	0.776%
JNL/Mellon Financial Sector Fund	KeyCorp			Equity	190,446	3,189,971	0.229%
JNL/Mellon Financial Sector Fund	Raymond James Financial, Inc.			Equity	38,330	4,693,892	0.337%
JNL/Mellon Financial Sector Fund	Arch Capital Group Ltd.			Equity	74,890	8,378,693	0.601%
JNL/Mellon Financial Sector Fund	Pinnacle Financial Partners, Inc.			Equity	15,518	1,520,289	0.109%
JNL/Mellon Financial Sector Fund	Mercury General Corporation			Equity	5,280	333,101	0.024%
JNL/Mellon Financial Sector Fund	Loews Corporation			Equity	37,743	2,983,584	0.214%
JNL/Mellon Financial Sector Fund	MGIC Investment Corporation			Equity	53,095	1,359,232	0.097%
JNL/Mellon Financial Sector Fund	Marsh & McLennan Companies, Inc.			Equity	99,547	22,207,840	1.592%
JNL/Mellon Financial Sector Fund	Hartford Financial Services Group, Inc., The			Equity	99,661	9,044,681	0.655%
JNL/Mellon Financial Sector Fund	The PNC Financial Services Group, Inc.			Equity	80,224	14,829,406	1.063%
JNL/Mellon Financial Sector Fund	CNO Financial Group, Inc.			Equity	21,581	757,493	0.054%
JNL/Mellon Financial Sector Fund	Reinsurance Group of America, Incorporated			Equity	13,382	2,915,536	0.209%
JNL/Mellon Financial Sector Fund	Goldman Sachs Group, Inc., The			Equity	69,287	32,424,210	2.318%
JNL/Mellon Financial Sector Fund	RenaissanceRe Holdings Ltd			Equity	10,466	2,060,938	0.204%
JNL/Mellon Financial Sector Fund	Charles Schwab Corporation, The			Equity	289,726	18,777,164	1.346%
JNL/Mellon Financial Sector Fund	Brown & Brown, Inc.			Equity	48,955	5,071,738	0.364%
JNL/Mellon Financial Sector Fund	East West Bancorp., Inc.			Equity	27,732	2,028,546	0.146%
JNL/Mellon Financial Sector Fund	Old National Bancorp			Equity	64,680	1,206,929	0.087%
JNL/Mellon Financial Sector Fund	Everest Group, Ltd.			Equity	8,721	3,417,149	0.245%
JNL/Mellon Financial Sector Fund	Capital One Financial Corporation			Equity	76,600	11,469,318	0.822%
JNL/Mellon Financial Sector Fund	Northern Trust Corporation			Equity	41,483	3,765,251	0.270%
JNL/Mellon Financial Sector Fund	The Progressive Corporation			Equity	117,988	29,940,635	2.147%
JNL/Mellon Financial Sector Fund	Lincoln National Corporation			Equity	32,982	1,039,263	0.075%
JNL/Mellon Financial Sector Fund	AXIS Capital Holdings Limited			Equity	15,480	1,239,174	0.089%
JNL/Mellon Financial Sector Fund	Ase Management Corporation			Equity	37,325	5,816,728	0.417%
JNL/Mellon Financial Sector Fund	Selective Insurance Group, Inc.			Equity	12,115	1,130,330	0.081%
JNL/Mellon Financial Sector Fund	Old Republic International Corporation			Equity	50,208	1,778,367	0.128%
JNL/Mellon Financial Sector Fund	Wells Fargo & Company			Equity	686,975	38,807,218	2.782%
JNL/Mellon Financial Sector Fund	Market Group Inc.			Equity	6,588	4,689,485	0.338%
JNL/Mellon Financial Sector Fund	Sitell Financial Corp.			Equity	19,935	1,871,897	0.134%
JNL/Mellon Financial Sector Fund	State Street Corporation			Equity	60,979	5,394,812	0.387%
JNL/Mellon Financial Sector Fund	Nasdaq, Inc.			Equity	78,488	5,730,409	0.411%
JNL/Mellon Financial Sector Fund	Valley National Bancorp			Equity	84,079	779,257	0.056%
JNL/Mellon Financial Sector Fund	United Bankshares, Inc.			Equity	27,372	1,005,429	0.074%
JNL/Mellon Financial Sector Fund	Principal Financial Group, Inc.			Equity	46,605	4,003,370	0.287%
JNL/Mellon Financial Sector Fund	Prudential Financial, Inc.			Equity	73,115	8,854,227	0.635%
JNL/Mellon Financial Sector Fund	UMB Financial Corporation			Equity	9,364	987,902	0.071%
JNL/Mellon Financial Sector Fund	Zions Bancorporation, National Association			Equity	29,751	1,405,031	0.101%
JNL/Mellon Financial Sector Fund	United Community Banks, Inc.			Equity	24,355	714,089	0.051%
JNL/Mellon Financial Sector Fund	Webster Financial Corporation			Equity	34,663	1,615,642	0.116%
JNL/Mellon Financial Sector Fund	Texas Capital Bancshares, Inc.			Equity	9,550	582,443	0.049%
JNL/Mellon Financial Sector Fund	CME Group Inc.			Equity	72,584	16,015,660	1.148%
JNL/Mellon Financial Sector Fund	SEI Investments Company			Equity	22,883	1,583,275	0.114%
JNL/Mellon Financial Sector Fund	Regions Financial Corporation			Equity	185,150	4,365,264	0.313%
JNL/Mellon Financial Sector Fund	Assured Guaranty Ltd.			Equity	10,535	837,743	0.060%
JNL/Mellon Financial Sector Fund	Cohen & Steers, Inc.			Equity	5,100	489,345	0.035%
JNL/Mellon Financial Sector Fund	Genworth Financial, Inc.			Equity	89,601	613,767	0.044%
JNL/Mellon Financial Sector Fund	MarketAxess Holdings Inc.			Equity	7,644	1,958,393	0.140%
JNL/Mellon Financial Sector Fund	Ameriprise Financial, Inc.			Equity	19,966	9,380,226	0.673%
JNL/Mellon Financial Sector Fund	Western Alliance Bancorporation			Equity	21,997	1,802,521	0.130%
JNL/Mellon Financial Sector Fund	Morningstar, Inc.			Equity	5,254	1,676,656	0.120%
JNL/Mellon Financial Sector Fund	MasterCard Incorporated			Equity	165,457	81,702,667	5.858%
JNL/Mellon Financial Sector Fund	Discover Financial Services			Equity	50,157	7,036,526	0.505%
JNL/Mellon Financial Sector Fund	The Western Union Company			Equity	67,818	869,669	0.062%
JNL/Mellon Financial Sector Fund	Cintas Group Limited			Equity	2,246	722,291	0.052%
JNL/Mellon Financial Sector Fund	Evercore Inc.			Equity	7,349	1,861,796	0.133%
JNL/Mellon Financial Sector Fund	Home BancShares, Inc.			Equity	38,541	1,044,076	0.075%
JNL/Mellon Financial Sector Fund	Interactive Brokers Group, Inc.			Equity	21,308	2,969,483	0.213%
JNL/Mellon Financial Sector Fund	Invesco Ltd.			Equity	65,233	1,145,491	0.082%
JNL/Mellon Financial Sector Fund	TFS Financial Corporation			Equity	13,579	174,626	0.013%
JNL/Mellon Financial Sector Fund	MSCI Inc.			Equity	16,035	9,347,283	0.670%
JNL/Mellon Financial Sector Fund	Bank of New York Mellon Corporation, The			Equity	149,208	10,722,087	0.769%
JNL/Mellon Financial Sector Fund	Walker & Dilling, Inc.			Equity	7,164	613,739	0.044%
JNL/Mellon Financial Sector Fund	First Interstate BancSystem, Inc.			Equity	18,325	562,211	0.040%
JNL/Mellon Financial Sector Fund	Primerica, Inc.			Equity	7,095	1,881,239	0.135%
JNL/Mellon Financial Sector Fund	First American Financial Corporation			Equity	20,471	1,351,291	0.097%
JNL/Mellon Financial Sector Fund	LPL Financial Holdings Inc.			Equity	14,881	3,481,767	0.248%
JNL/Mellon Financial Sector Fund	Ally Financial Inc.			Equity	54,333	1,933,711	0.139%
JNL/Mellon Financial Sector Fund	Visa Inc.			Equity	337,247	92,726,063	6.648%
JNL/Mellon Financial Sector Fund	Chubb Limited			Equity	75,842	21,946,614	1.574%
JNL/Mellon Financial Sector Fund	Zurich American Corporation			Equity	12,411	760,174	0.055%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon Financial Sector Fund	Kinsale Capital Group, Inc.			Equity	4,377	2,037,800	0.146%
JNL/Mellon Financial Sector Fund	Willis Towers Watson Public Limited Company			Equity	20,893	6,172,001	0.443%
JNL/Mellon Financial Sector Fund	Popular, Inc.			Equity	14,261	1,438,858	0.103%
JNL/Mellon Financial Sector Fund	KKR & Co. Inc.			Equity	133,828	17,475,260	1.253%
JNL/Mellon Financial Sector Fund	Artisan Partners Asset Management Inc.			Equity	14,161	613,455	0.044%
JNL/Mellon Financial Sector Fund	First Hawaiian, Inc.			Equity	26,880	575,972	0.041%
JNL/Mellon Financial Sector Fund	Fidelity National Financial, Inc.			Equity	52,358	3,249,337	0.233%
JNL/Mellon Financial Sector Fund	Essent Group Ltd.			Equity	21,964	1,412,066	0.101%
JNL/Mellon Financial Sector Fund	Southstate Corporation			Equity	15,062	1,463,725	0.105%
JNL/Mellon Financial Sector Fund	Brighthouse Financial, Inc.			Equity	13,566	610,877	0.044%
JNL/Mellon Financial Sector Fund	Hamilton Lane Incorporated			Equity	7,889	1,349,182	0.097%
JNL/Mellon Financial Sector Fund	ServisFirst Bancshares, Inc.			Equity	11,009	885,674	0.064%
JNL/Mellon Financial Sector Fund	Moelis & Company			Equity	14,099	965,922	0.069%
JNL/Mellon Financial Sector Fund	Synovus Financial Corp.			Equity	29,672	1,330,789	0.095%
JNL/Mellon Financial Sector Fund	Victory Capital Holdings, Inc.			Equity	8,206	454,812	0.033%
JNL/Mellon Financial Sector Fund	Voya Financial, Inc.			Equity	20,795	1,847,380	0.118%
JNL/Mellon Financial Sector Fund	Intercontinental Exchange, Inc.			Equity	115,439	18,544,121	1.330%
JNL/Mellon Financial Sector Fund	Jefferies Financial Group Inc.			Equity	32,224	1,983,387	0.142%
JNL/Mellon Financial Sector Fund	S&P Global Inc.			Equity	63,172	32,635,919	2.340%
JNL/Mellon Financial Sector Fund	Janus Henderson Group PLC			Equity	25,735	979,731	0.070%
JNL/Mellon Financial Sector Fund	Citizens Financial Group, Inc.			Equity	91,345	3,751,539	0.269%
JNL/Mellon Financial Sector Fund	Independence Holdings, LLC			Equity	22,774	1,071,972	0.077%
JNL/Mellon Financial Sector Fund	Synchrony Financial			Equity	81,585	4,089,460	0.292%
JNL/Mellon Financial Sector Fund	PayPal Holdings, Inc.			Equity	206,193	16,089,240	1.154%
JNL/Mellon Financial Sector Fund	Houlihan Lokey, Inc.			Equity	10,204	1,612,436	0.116%
JNL/Mellon Financial Sector Fund	Tradeweb Markets Inc.			Equity	23,219	2,871,494	0.206%
JNL/Mellon Financial Sector Fund	Bank OZK			Equity	21,620	929,444	0.067%
JNL/Mellon Financial Sector Fund	Blackstone Inc.			Equity	145,728	22,315,329	1.600%
JNL/Mellon Financial Sector Fund	Globe Life Inc.			Equity	18,602	1,970,138	0.141%
JNL/Mellon Financial Sector Fund	Trust Financial Corporation			Equity	268,469	11,482,419	0.823%
JNL/Mellon Financial Sector Fund	Equitable Holdings, Inc.			Equity	59,939	2,519,236	0.181%
JNL/Mellon Financial Sector Fund	ACN Public Limited Company			Equity	43,748	15,136,371	1.085%
JNL/Mellon Financial Sector Fund	Freedom Holding Corp.			Equity	3,384	320,668	0.023%
JNL/Mellon Financial Sector Fund	The Carlyle Group, Inc.			Equity	42,827	1,844,131	0.132%
JNL/Mellon Financial Sector Fund	Dun & Bradstreet Holdings, Inc.			Equity	54,550	627,871	0.045%
JNL/Mellon Financial Sector Fund	BGC Group, Inc.			Equity	72,853	669,708	0.048%
JNL/Mellon Financial Sector Fund	Cleverspark Inc.			Equity	44,081	411,717	0.030%
Total Non Derivatives						1,394,737,042	
Derivatives							
JNL/Mellon Financial Sector Fund	S&P Financial Select Sector Index FUTURE - CASH SETTLED			Derivative	52	(5,116)	0.000%
Total Derivatives						(5,116)	
Total All Investments						1,394,731,926	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Mellon Healthcare Sector Fund	Cash			Cash Equivalent	780.166	780.166	0.023%
JNL Mellon Healthcare Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	6,752,791	6,793,618	0.200%
JNL Mellon Healthcare Sector Fund	Viatris Inc.			Equity	651,279	7,561,349	0.222%
JNL Mellon Healthcare Sector Fund	Sotera Health LLC			Equity	71,582	1,195,419	0.035%
JNL Mellon Healthcare Sector Fund	Vaccinix, Inc.			Equity	57,898	6,616,004	0.194%
JNL Mellon Healthcare Sector Fund	ImmunityBio, Inc.			Equity	75,751	281,794	0.008%
JNL Mellon Healthcare Sector Fund	Oscar Health, Inc.			Equity	94,459	2,003,475	0.059%
JNL Mellon Healthcare Sector Fund	Organo & Co.			Equity	135,762	2,597,127	0.076%
JNL Mellon Healthcare Sector Fund	Dowmyl, Inc.			Equity	66,259	2,886,905	0.085%
JNL Mellon Healthcare Sector Fund	Robert Sciences Ltd.			Equity	233,784	4,899,867	0.179%
JNL Mellon Healthcare Sector Fund	Elanco Animal Health Incorporated			Equity	267,097	3,923,655	0.115%
JNL Mellon Healthcare Sector Fund	Quidelortho Corporation			Equity	26,219	1,195,586	0.035%
JNL Mellon Healthcare Sector Fund	R1 RCM Holdco Inc.			Equity	88,758	1,257,701	0.037%
JNL Mellon Healthcare Sector Fund	Bethaven Ltd.			Equity	42,759	2,136,667	0.063%
JNL Mellon Healthcare Sector Fund	GE Healthcare Technologies Inc.			Equity	212,634	19,955,701	0.586%
JNL Mellon Healthcare Sector Fund	Mettler-Toledo International Inc.			Equity	11,550	17,321,535	0.509%
JNL Mellon Healthcare Sector Fund	Amedisys, Inc.			Equity	17,549	1,693,854	0.050%
JNL Mellon Healthcare Sector Fund	Azena, Inc.			Equity	22,603	1,094,889	0.032%
JNL Mellon Healthcare Sector Fund	Baxter International Inc.			Equity	271,686	10,395,972	0.305%
JNL Mellon Healthcare Sector Fund	Bristol-Myers Squibb Company			Equity	1,102,277	57,031,812	1.675%
JNL Mellon Healthcare Sector Fund	Boston Scientific Corporation			Equity	792,823	66,438,567	1.951%
JNL Mellon Healthcare Sector Fund	Bio-Rad Laboratories, Inc.			Equity	11,420	3,820,904	0.112%
JNL Mellon Healthcare Sector Fund	AptarGroup, Inc.			Equity	35,654	5,711,414	0.168%
JNL Mellon Healthcare Sector Fund	Abbott Laboratories			Equity	939,524	107,115,131	3.146%
JNL Mellon Healthcare Sector Fund	Amgen Inc.			Equity	289,919	93,414,801	2.743%
JNL Mellon Healthcare Sector Fund	Becton, Dickinson and Company			Equity	157,360	17,639,496	0.514%
JNL Mellon Healthcare Sector Fund	Hologic, Inc.			Equity	126,423	10,296,418	0.302%
JNL Mellon Healthcare Sector Fund	IDEX Laboratories, Inc.			Equity	44,771	22,619,205	0.664%
JNL Mellon Healthcare Sector Fund	Biogen Inc.			Equity	78,450	15,206,748	0.447%
JNL Mellon Healthcare Sector Fund	BioMar Pharmaceutical Inc.			Equity	102,159	7,180,756	0.213%
JNL Mellon Healthcare Sector Fund	Celast Sciences, Inc.			Equity	675,011	56,592,922	1.652%
JNL Mellon Healthcare Sector Fund	McKesson Corporation			Equity	70,300	34,808,158	1.022%
JNL Mellon Healthcare Sector Fund	Danaher Corporation			Equity	348,595	97,010,503	2.849%
JNL Mellon Healthcare Sector Fund	Humana Inc.			Equity	65,319	20,746,947	0.609%
JNL Mellon Healthcare Sector Fund	Chemend Corporation			Equity	8,152	1,999,107	0.058%
JNL Mellon Healthcare Sector Fund	Haemonetics Corporation			Equity	26,937	2,165,196	0.064%
JNL Mellon Healthcare Sector Fund	Cardinal Health, Inc.			Equity	132,228	14,613,839	0.429%
JNL Mellon Healthcare Sector Fund	Molina Healthcare, Inc.			Equity	30,952	10,664,821	0.313%
JNL Mellon Healthcare Sector Fund	Revvity, Inc.			Equity	66,835	8,538,171	0.251%
JNL Mellon Healthcare Sector Fund	United Therapeutics Corporation			Equity	20,810	7,457,264	0.219%
JNL Mellon Healthcare Sector Fund	Henry Schein, Inc.			Equity	68,984	5,028,934	0.148%
JNL Mellon Healthcare Sector Fund	Neurocrine Biosciences, Inc.			Equity	52,472	6,161,044	0.181%
JNL Mellon Healthcare Sector Fund	Charles River Laboratories International, Inc.			Equity	27,927	5,600,129	0.162%
JNL Mellon Healthcare Sector Fund	Bruker Corporation			Equity	50,597	3,494,229	0.103%
JNL Mellon Healthcare Sector Fund	Incyte Corporation			Equity	89,399	5,909,274	0.174%
JNL Mellon Healthcare Sector Fund	Johnson & Johnson			Equity	1,304,081	211,339,367	6.206%
JNL Mellon Healthcare Sector Fund	Merck & Co., Inc.			Equity	1,372,741	156,849,720	4.609%
JNL Mellon Healthcare Sector Fund	Exelixis, Inc.			Equity	155,804	4,043,114	0.119%
JNL Mellon Healthcare Sector Fund	Merit Medical Systems, Inc.			Equity	31,517	3,114,825	0.091%
JNL Mellon Healthcare Sector Fund	Inmed Incorporated			Equity	88,198	6,438,454	0.189%
JNL Mellon Healthcare Sector Fund	CYS Health Corporation			Equity	679,732	47,149,548	1.395%
JNL Mellon Healthcare Sector Fund	Zimmer Biomet Holdings, Inc.			Equity	111,798	12,095,426	0.355%
JNL Mellon Healthcare Sector Fund	Aplint Technologies, Inc.			Equity	157,762	23,424,052	0.688%
JNL Mellon Healthcare Sector Fund	Quest Diagnostics Incorporated			Equity	60,047	9,322,297	0.272%
JNL Mellon Healthcare Sector Fund	ACADA Pharmaceuticals Inc.			Equity	66,189	6,867,227	0.202%
JNL Mellon Healthcare Sector Fund	Regeneron Pharmaceuticals, Inc.			Equity	57,237	60,169,824	1.767%
JNL Mellon Healthcare Sector Fund	Illumina, Inc.			Equity	85,588	11,161,531	0.328%
JNL Mellon Healthcare Sector Fund	Neogen Corporation			Equity	113,574	1,909,179	0.056%
JNL Mellon Healthcare Sector Fund	El Lilly and Company			Equity	458,223	405,958,085	11.921%
JNL Mellon Healthcare Sector Fund	Eli Lilly and Company			Equity	327,238	27,599,438	0.804%
JNL Mellon Healthcare Sector Fund	Pfizer Inc.			Equity	3,069,949	88,844,324	2.609%
JNL Mellon Healthcare Sector Fund	Exact Sciences Corporation			Equity	98,998	6,743,744	0.198%
JNL Mellon Healthcare Sector Fund	Regeneron Corporation			Equity	27,962	4,161,305	0.122%
JNL Mellon Healthcare Sector Fund	Inspire Medical Systems, Inc.			Equity	19,655	8,903,988	0.257%
JNL Mellon Healthcare Sector Fund	Viking Therapeutics, Inc.			Equity	55,988	3,544,600	0.104%
JNL Mellon Healthcare Sector Fund	ResMed Inc.			Equity	79,496	19,406,564	0.570%
JNL Mellon Healthcare Sector Fund	Align Technology, Inc.			Equity	40,663	10,341,414	0.304%
JNL Mellon Healthcare Sector Fund	Vest Pharmaceutical Services, Inc.			Equity	39,520	11,862,123	0.348%
JNL Mellon Healthcare Sector Fund	Stryker Corporation			Equity	194,891	70,562,235	2.072%
JNL Mellon Healthcare Sector Fund	Vertex Pharmaceuticals Incorporated			Equity	139,453	64,856,801	1.905%
JNL Mellon Healthcare Sector Fund	Davita Inc.			Equity	27,165	4,453,158	0.131%
JNL Mellon Healthcare Sector Fund	Thermo Fisher Scientific Inc.			Equity	206,785	17,991,968	0.526%
JNL Mellon Healthcare Sector Fund	Cencora, Inc.			Equity	92,441	20,806,620	0.611%
JNL Mellon Healthcare Sector Fund	Centene Corporation			Equity	284,108	21,287,677	0.628%
JNL Mellon Healthcare Sector Fund	UnitedHealth Group Incorporated			Equity	498,096	291,226,769	8.552%
JNL Mellon Healthcare Sector Fund	Intuitive Surgical, Inc.			Equity	191,053	93,858,607	2.769%
JNL Mellon Healthcare Sector Fund	Universal Health Services, Inc.			Equity	32,326	7,402,977	0.217%
JNL Mellon Healthcare Sector Fund	Waters Corporation			Equity	31,992	11,513,601	0.338%
JNL Mellon Healthcare Sector Fund	Teleflex Incorporated			Equity	25,483	6,302,456	0.185%
JNL Mellon Healthcare Sector Fund	Holcym Therapeutics, Inc.			Equity	68,427	3,916,761	0.115%
JNL Mellon Healthcare Sector Fund	Moderna, Inc.			Equity	182,128	12,171,614	0.357%
JNL Mellon Healthcare Sector Fund	Amylin Pharmaceuticals, Inc.			Equity	67,869	18,666,011	0.548%
JNL Mellon Healthcare Sector Fund	Masimo Corporation			Equity	23,588	3,144,988	0.092%
JNL Mellon Healthcare Sector Fund	Insulet Corporation			Equity	37,626	8,157,452	0.237%
JNL Mellon Healthcare Sector Fund	DeoCom, Inc.			Equity	213,455	13,310,023	0.400%
JNL Mellon Healthcare Sector Fund	Radnet, Inc.			Equity	36,392	2,525,241	0.074%
JNL Mellon Healthcare Sector Fund	Amicus Therapeutics, Inc.			Equity	146,078	1,560,113	0.046%
JNL Mellon Healthcare Sector Fund	Prestige Consumer Healthcare Inc.			Equity	26,883	1,538,264	0.057%
JNL Mellon Healthcare Sector Fund	The Kroger Group, Inc.			Equity	30,883	4,043,831	0.119%
JNL Mellon Healthcare Sector Fund	Jazz Pharmaceuticals Public Limited Company			Equity	34,380	3,800,276	0.112%
JNL Mellon Healthcare Sector Fund	Acadia Healthcare Company, Inc.			Equity	48,936	3,103,032	0.091%
JNL Mellon Healthcare Sector Fund	Select Medical Holdings Corporation			Equity	56,289	1,962,797	0.058%
JNL Mellon Healthcare Sector Fund	NCA Healthcare, Inc.			Equity	100,976	41,039,676	1.205%
JNL Mellon Healthcare Sector Fund	Alkermes Public Limited Company			Equity	89,975	2,518,400	0.074%
JNL Mellon Healthcare Sector Fund	Globus Medical, Inc.			Equity	61,331	4,387,620	0.129%
JNL Mellon Healthcare Sector Fund	Cytokinetics, Incorporated			Equity	63,108	3,332,102	0.098%
JNL Mellon Healthcare Sector Fund	Intra Cellular Therapies, Inc.			Equity	52,304	3,517,338	0.112%
JNL Mellon Healthcare Sector Fund	Zoetis Inc.			Equity	247,186	48,295,201	1.418%
JNL Mellon Healthcare Sector Fund	Integer Holdings Corporation			Equity	17,706	2,301,780	0.068%
JNL Mellon Healthcare Sector Fund	Cardinal Pharmaceuticals, Inc.			Equity	8,905	1,889,819	0.055%
JNL Mellon Healthcare Sector Fund	Imris Pharmaceuticals, Inc.			Equity	76,092	3,048,246	0.089%
JNL Mellon Healthcare Sector Fund	Tenet Healthcare Corporation			Equity	52,679	8,755,250	0.257%
JNL Mellon Healthcare Sector Fund	Medpace Holdings, Inc.			Equity	13,649	4,556,036	0.134%
JNL Mellon Healthcare Sector Fund	IQVIA Holdings Inc.			Equity	98,787	23,409,555	0.687%
JNL Mellon Healthcare Sector Fund	AbbVie Inc.			Equity	956,434	188,076,598	5.479%
JNL Mellon Healthcare Sector Fund	CRISPR Therapeutics AG			Equity	43,978	2,066,086	0.061%
JNL Mellon Healthcare Sector Fund	Sarepta Therapeutics, Inc.			Equity	48,494	6,056,416	0.178%
JNL Mellon Healthcare Sector Fund	The Cigna Group			Equity	150,962	52,299,275	1.536%
JNL Mellon Healthcare Sector Fund	Premier Healthcare Solutions, Inc.			Equity	57,646	1,152,920	0.034%
JNL Mellon Healthcare Sector Fund	HealthEquity, Inc.			Equity	46,575	3,812,164	0.112%
JNL Mellon Healthcare Sector Fund	Veeva Systems Inc.			Equity	80,039	16,797,785	0.493%
JNL Mellon Healthcare Sector Fund	Ultragenyx Pharmaceutical Inc.			Equity	45,920	2,550,856	0.075%
JNL Mellon Healthcare Sector Fund	Perrigo Company Public Limited Company			Equity	75,298	1,975,067	0.058%
JNL Mellon Healthcare Sector Fund	Inovance Biotherapeutics, Inc.			Equity	123,233	1,157,158	0.034%
JNL Mellon Healthcare Sector Fund	Elevance Health, Inc.			Equity	125,655	65,340,600	1.919%
JNL Mellon Healthcare Sector Fund	Penumbra, Inc.			Equity	20,135	3,912,432	0.115%
JNL Mellon Healthcare Sector Fund	Arrowhead Pharmaceuticals Inc.			Equity	64,215	1,243,845	0.037%
JNL Mellon Healthcare Sector Fund	Apellis Pharmaceuticals, Inc.			Equity	45,881	1,332,208	0.039%
JNL Mellon Healthcare Sector Fund	Lantheus Holdings, Inc.			Equity	36,646	4,021,899	0.118%
JNL Mellon Healthcare Sector Fund	Encompass Health Corporation			Equity	54,289	5,246,489	0.154%
JNL Mellon Healthcare Sector Fund	Walgreens Boots Alliance, Inc.			Equity	393,976	3,530,025	0.104%
JNL Mellon Healthcare Sector Fund	LiveKnox PLC			Equity	29,070	1,527,338	0.045%
JNL Mellon Healthcare Sector Fund	Catalent, Inc.			Equity	97,448	5,902,425	0.173%
JNL Mellon Healthcare Sector Fund	Evolent Health, Inc.			Equity	63,993	1,809,722	0.053%
JNL Mellon Healthcare Sector Fund	Spry, LLC			Equity	38,919	1,254,749	0.037%
JNL Mellon Healthcare Sector Fund	Density Sierra Inc.			Equity	110,885	1,018,129	0.029%
JNL Mellon Healthcare Sector Fund	Invitum Technologies, Inc.			Equity	17,121	1,271,063	0.037%
JNL Mellon Healthcare Sector Fund	Bio-Techne Corporation			Equity	85,330	6,820,427	0.200%
JNL Mellon Healthcare Sector Fund	Glaucos Corporation			Equity	28,614	3,727,832	0.109%
JNL Mellon Healthcare Sector Fund	Natera, Inc.			Equity	66,227	8,407,518	0.247%
JNL Mellon Healthcare Sector Fund	Medtronic, Inc.			Equity	694,758	83,605,385	1.651%
JNL Mellon Healthcare Sector Fund	Blueprint Medicines Corporation			Equity	33,132	3,064,710	0.090%
JNL Mellon Healthcare Sector Fund	Stens Public Limited Company			Equity	53,684	13,020,518	0.382%
JNL Mellon Healthcare Sector Fund	Krysal Biotech, Inc.			Equity	13,361	2,432,103	0.071%
JNL Mellon Healthcare Sector Fund	Cinetics Pharmaceuticals, Inc.			Equity	36,594	1,969,953	0.058%
JNL Mellon Healthcare Sector Fund	Asome Therapeutics, Inc.			Equity	20,801	1,869,386	0.055%
JNL Mellon Healthcare Sector Fund	Axonics, Inc.			Equity	28,321	1,971,142	0.058%
JNL Mellon Healthcare Sector Fund	BridgeBio Pharma, Inc.			Equity	67,550	1,719,823	0.051%
JNL Mellon Healthcare Sector Fund	IDx Genomics, Inc.			Equity	56,481	1,275,341	0.037%
JNL Mellon Healthcare Sector Fund	Envista Holdings Corporation			Equity	89,044	1,759,509	0.052%
JNL Mellon Healthcare Sector Fund	Option Care Health, Inc.			Equity	95,745	2,996,811	0.088%
JNL Mellon Healthcare Sector Fund	Revolution Medicines, Inc.			Equity	74,367	3,372,543	0.099%
JNL Mellon Healthcare Sector Fund	Progeny, Inc.			Equity	47,031	1,788,240	0.052%
JNL Mellon Healthcare Sector Fund	Immunovant, Inc.			Equity	33,804	963,752	0.028%
JNL Mellon Healthcare Sector Fund	Springworks Therapeutics, Inc.			Equity	30,992	992,984	0.029%
JNL Mellon Healthcare Sector Fund	Royalty Pharma PLC			Equity	217,520	6,153,641	0.181%
JNL Mellon Healthcare Sector Fund	IDEAYA Biosciences, Inc.			Equity	44,112	1,397,468	0.041%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Industrials Sector Fund	Cash			Cash Equivalent	146,488	146,488	0.055%
JNL/Mellon Industrials Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,479,956	2,485,370	0.937%
JNL/Mellon Industrials Sector Fund	Hayward Holdings, Inc.			Equity	7,984	122,475	0.046%
JNL/Mellon Industrials Sector Fund	General Electric Company			Equity	58,358	11,021,561	4.156%
JNL/Mellon Industrials Sector Fund	GXO Logistics Inc.			Equity	6,498	339,038	0.127%
JNL/Mellon Industrials Sector Fund	Zum Etkay Water Solutions Corporation			Equity	7,839	281,734	0.106%
JNL/Mellon Industrials Sector Fund	Joby Aviation, Inc.			Equity	24,436	122,913	0.046%
JNL/Mellon Industrials Sector Fund	Core & Main, Inc.			Equity	9,680	429,792	0.162%
JNL/Mellon Industrials Sector Fund	Enovus Corporation			Equity	2,795	120,325	0.045%
JNL/Mellon Industrials Sector Fund	CSAB Corporation			Equity	3,061	325,460	0.123%
JNL/Mellon Industrials Sector Fund	Crane Nxt, Co.			Equity	3,026	169,759	0.064%
JNL/Mellon Industrials Sector Fund	Symbotic Inc.			Equity	1,436	35,024	0.013%
JNL/Mellon Industrials Sector Fund	SPX Technologies, Inc.			Equity	2,486	386,418	0.149%
JNL/Mellon Industrials Sector Fund	Jacobs Solutions Inc.			Equity	6,819	892,507	0.337%
JNL/Mellon Industrials Sector Fund	U-Haul Holding Company			Equity	5,425	390,600	0.147%
JNL/Mellon Industrials Sector Fund	Resideo Technologies, Inc.			Equity	7,868	158,462	0.060%
JNL/Mellon Industrials Sector Fund	Arcoosa, Inc.			Equity	2,625	248,745	0.094%
JNL/Mellon Industrials Sector Fund	United Rentals, Inc.			Equity	3,584	2,902,072	1.094%
JNL/Mellon Industrials Sector Fund	Insperity, Inc.			Equity	1,934	170,192	0.064%
JNL/Mellon Industrials Sector Fund	FedEx Corporation			Equity	12,108	3,330,425	1.256%
JNL/Mellon Industrials Sector Fund	Brady Corporation			Equity	2,387	182,916	0.069%
JNL/Mellon Industrials Sector Fund	Cassella Waste Systems, Inc.			Equity	3,306	339,914	0.124%
JNL/Mellon Industrials Sector Fund	Boeing Company, The			Equity	33,072	5,028,267	1.896%
JNL/Mellon Industrials Sector Fund	Alaska Air Group, Inc.			Equity	7,006	316,741	0.119%
JNL/Mellon Industrials Sector Fund	Automatic Data Processing, Inc.			Equity	21,986	6,115,092	2.306%
JNL/Mellon Industrials Sector Fund	C. H. Robinson Worldwide, Inc.			Equity	6,224	680,797	0.251%
JNL/Mellon Industrials Sector Fund	ABM Industries Incorporated			Equity	3,340	176,218	0.066%
JNL/Mellon Industrials Sector Fund	U-Haul Holding Company			Equity	455	35,253	0.013%
JNL/Mellon Industrials Sector Fund	Quanta Services, Inc.			Equity	7,847	2,339,583	0.882%
JNL/Mellon Industrials Sector Fund	Honeywell International Inc.			Equity	35,117	1,259,038	0.473%
JNL/Mellon Industrials Sector Fund	MasTec, Inc.			Equity	3,309	407,538	0.154%
JNL/Mellon Industrials Sector Fund	Applied Industrial Technologies, Inc.			Equity	2,106	469,912	0.177%
JNL/Mellon Industrials Sector Fund	Comfort Systems USA, Inc.			Equity	1,922	750,253	0.283%
JNL/Mellon Industrials Sector Fund	Maximus, Inc.			Equity	3,249	302,677	0.114%
JNL/Mellon Industrials Sector Fund	AME-TEK, Inc.			Equity	12,424	2,592,252	0.894%
JNL/Mellon Industrials Sector Fund	Robert Half Inc.			Equity	5,587	376,620	0.142%
JNL/Mellon Industrials Sector Fund	Advanced Energy Industries, Inc.			Equity	1,994	209,849	0.079%
JNL/Mellon Industrials Sector Fund	AGCO Corporation			Equity	3,367	329,495	0.124%
JNL/Mellon Industrials Sector Fund	DEXA Corporation			Equity	4,093	677,397	0.251%
JNL/Mellon Industrials Sector Fund	GATX Corporation			Equity	1,888	250,066	0.094%
JNL/Mellon Industrials Sector Fund	Copart, Inc.			Equity	47,071	2,466,520	0.930%
JNL/Mellon Industrials Sector Fund	Deere & Company			Equity	13,657	5,719,456	2.157%
JNL/Mellon Industrials Sector Fund	Griffon Corporation			Equity	1,966	189,921	0.072%
JNL/Mellon Industrials Sector Fund	Cummins Inc.			Equity	7,329	2,373,057	0.895%
JNL/Mellon Industrials Sector Fund	Fastenal Company			Equity	30,795	2,199,379	0.829%
JNL/Mellon Industrials Sector Fund	Hexcel Corporation			Equity	4,437	274,340	0.103%
JNL/Mellon Industrials Sector Fund	Lennox International Inc.			Equity	1,721	1,041,842	0.393%
JNL/Mellon Industrials Sector Fund	Clean Harbors, Inc.			Equity	2,726	658,901	0.248%
JNL/Mellon Industrials Sector Fund	Caterpillar Inc.			Equity	26,374	10,315,399	3.890%
JNL/Mellon Industrials Sector Fund	Exponent, Inc.			Equity	2,731	314,830	0.119%
JNL/Mellon Industrials Sector Fund	Federal Signal Corporation			Equity	3,246	303,371	0.114%
JNL/Mellon Industrials Sector Fund	Expeditors International of Washington, Inc.			Equity	7,582	996,275	0.376%
JNL/Mellon Industrials Sector Fund	General Dynamics Corporation			Equity	13,307	4,021,375	1.516%
JNL/Mellon Industrials Sector Fund	FTI Consulting, Inc.			Equity	1,894	430,999	0.163%
JNL/Mellon Industrials Sector Fund	Equifax Inc.			Equity	6,643	1,952,112	0.738%
JNL/Mellon Industrials Sector Fund	AMON, Inc.			Equity	3,661	395,557	0.149%
JNL/Mellon Industrials Sector Fund	HEICO Corporation			Equity	4,169	849,475	0.320%
JNL/Mellon Industrials Sector Fund	Graco Inc.			Equity	9,132	799,141	0.301%
JNL/Mellon Industrials Sector Fund	Cummins-Wright Corporation			Equity	2,073	681,803	0.257%
JNL/Mellon Industrials Sector Fund	HEICO Corporation			Equity	2,265	699,252	0.262%
JNL/Mellon Industrials Sector Fund	Franklin Electric Co., Inc.			Equity	2,132	223,476	0.084%
JNL/Mellon Industrials Sector Fund	Illinois Tool Works Inc.			Equity	16,044	4,228,603	1.595%
JNL/Mellon Industrials Sector Fund	Donaldson Company, Inc.			Equity	6,445	474,997	0.179%
JNL/Mellon Industrials Sector Fund	WESCO International			Equity	2,363	996,937	0.367%
JNL/Mellon Industrials Sector Fund	W. W. Grainger, Inc.			Equity	2,405	2,498,338	0.942%
JNL/Mellon Industrials Sector Fund	Carpenter Technology Corporation			Equity	2,622	418,419	0.158%
JNL/Mellon Industrials Sector Fund	CSX Corporation			Equity	105,425	3,640,325	1.373%
JNL/Mellon Industrials Sector Fund	Regalstar Services, Inc.			Equity	11,047	2,718,679	0.873%
JNL/Mellon Industrials Sector Fund	Flowerserve Corporation			Equity	6,987	362,625	0.137%
JNL/Mellon Industrials Sector Fund	Dover Corporation			Equity	7,407	1,420,218	0.536%
JNL/Mellon Industrials Sector Fund	Emerson Electric Co.			Equity	30,714	3,359,190	1.267%
JNL/Mellon Industrials Sector Fund	Korn Ferry			Equity	2,680	2,000,635	0.760%
JNL/Mellon Industrials Sector Fund	Carlisle Companies Incorporated			Equity	2,504	1,126,174	0.425%
JNL/Mellon Industrials Sector Fund	J.B. Hunt Transport Services, Inc.			Equity	4,449	766,696	0.289%
JNL/Mellon Industrials Sector Fund	Cintas Corporation			Equity	18,672	3,844,191	1.450%
JNL/Mellon Industrials Sector Fund	Drycom Industries, Inc.			Equity	1,555	306,491	0.116%
JNL/Mellon Industrials Sector Fund	Masco Corporation			Equity	11,898	998,718	0.377%
JNL/Mellon Industrials Sector Fund	Trex Company, Inc.			Equity	5,785	385,165	0.145%
JNL/Mellon Industrials Sector Fund	Paychex, Inc.			Equity	17,454	2,342,152	0.883%
JNL/Mellon Industrials Sector Fund	Pool Corporation			Equity	2,020	761,136	0.287%
JNL/Mellon Industrials Sector Fund	Brink's Company, The			Equity	3,361	273,026	0.103%
JNL/Mellon Industrials Sector Fund	CBIZ, Inc.			Equity	2,533	170,446	0.064%
JNL/Mellon Industrials Sector Fund	Global Payments Inc.			Equity	13,661	1,399,160	0.528%
JNL/Mellon Industrials Sector Fund	Landstar System, Inc.			Equity	1,944	367,163	0.138%
JNL/Mellon Industrials Sector Fund	Lockheed Martin Corporation			Equity	11,402	6,665,153	2.513%
JNL/Mellon Industrials Sector Fund	ManpowerGroup Inc.			Equity	2,599	191,078	0.072%
JNL/Mellon Industrials Sector Fund	Oshkosh Corporation			Equity	3,510	351,737	0.133%
JNL/Mellon Industrials Sector Fund	ATI Inc.			Equity	6,630	443,613	0.167%
JNL/Mellon Industrials Sector Fund	EMCOR Group, Inc.			Equity	2,544	1,095,282	0.415%
JNL/Mellon Industrials Sector Fund	United Parcel Service, Inc.			Equity	39,335	5,362,934	2.022%
JNL/Mellon Industrials Sector Fund	PACCAR Inc.			Equity	27,729	2,736,298	1.032%
JNL/Mellon Industrials Sector Fund	Fluor Corporation			Equity	9,045	431,537	0.163%
JNL/Mellon Industrials Sector Fund	McGrath RentCorp			Equity	1,334	140,444	0.053%
JNL/Mellon Industrials Sector Fund	Ryder System, Inc.			Equity	2,318	337,964	0.127%
JNL/Mellon Industrials Sector Fund	Parker-Hannifin Corporation			Equity	6,922	4,373,458	1.649%
JNL/Mellon Industrials Sector Fund	MOOG Inc.			Equity	1,543	311,717	0.118%
JNL/Mellon Industrials Sector Fund	Norfolk Southern Corporation			Equity	12,195	3,030,458	1.143%
JNL/Mellon Industrials Sector Fund	Nordson Corporation			Equity	2,736	718,556	0.271%
JNL/Mellon Industrials Sector Fund	Rockwell Automation, Inc.			Equity	6,194	1,662,841	0.627%
JNL/Mellon Industrials Sector Fund	Seaboard Corporation			Equity	14	43,918	0.017%
JNL/Mellon Industrials Sector Fund	Kadant Inc.			Equity	617	308,546	0.079%
JNL/Mellon Industrials Sector Fund	MDU Resources Group, Inc.			Equity	10,294	283,437	0.107%
JNL/Mellon Industrials Sector Fund	Old Dominion Freight Line, Inc.			Equity	10,244	2,034,868	0.767%
JNL/Mellon Industrials Sector Fund	MSC Industrial Direct Co., Inc.			Equity	2,330	200,520	0.076%
JNL/Mellon Industrials Sector Fund	3M Company			Equity	29,785	4,071,610	1.565%
JNL/Mellon Industrials Sector Fund	Louisiana-Pacific Corporation (W VA)			Equity	3,505	376,647	0.142%
JNL/Mellon Industrials Sector Fund	Regal Rexnord Corporation			Equity	3,545	589,285	0.222%
JNL/Mellon Industrials Sector Fund	Trinet Group, Inc.			Equity	1,737	168,437	0.064%
JNL/Mellon Industrials Sector Fund	Sterling Infrastructure, Inc.			Equity	1,672	242,473	0.091%
JNL/Mellon Industrials Sector Fund	Middleby Corporation, The			Equity	2,852	396,799	0.150%
JNL/Mellon Industrials Sector Fund	Lincoln Electric Holdings, Inc.			Equity	3,059	589,561	0.222%
JNL/Mellon Industrials Sector Fund	Northrop Grumman Corporation			Equity	7,871	4,156,439	1.567%
JNL/Mellon Industrials Sector Fund	Mueller Industries, Inc.			Equity	5,925	439,043	0.166%
JNL/Mellon Industrials Sector Fund	Kirby Corporation			Equity	3,144	384,320	0.145%
JNL/Mellon Industrials Sector Fund	Snap-on Incorporated			Equity	2,852	826,253	0.312%
JNL/Mellon Industrials Sector Fund	Tetra Tech, Inc.			Equity	14,410	679,576	0.256%
JNL/Mellon Industrials Sector Fund	Extron Inc.			Equity	10,305	913,023	0.344%
JNL/Mellon Industrials Sector Fund	Enpro Inc.			Equity	1,100	178,398	0.067%
JNL/Mellon Industrials Sector Fund	Valmont Industries, Inc.			Equity	1,063	308,855	0.116%
JNL/Mellon Industrials Sector Fund	Toro Company, The			Equity	5,550	483,350	0.182%
JNL/Mellon Industrials Sector Fund	Union Pacific Corporation			Equity	32,841	8,094,650	3.053%
JNL/Mellon Industrials Sector Fund	A. O. Smith Corporation			Equity	6,591	629,968	0.238%
JNL/Mellon Industrials Sector Fund	Westinghouse Air Brake Technologies Corporation			Equity	9,468	1,720,998	0.649%
JNL/Mellon Industrials Sector Fund	Watts Water Technologies, Inc.			Equity	1,469	304,362	0.115%
JNL/Mellon Industrials Sector Fund	Southwest Airlines Co.			Equity	32,195	963,938	0.360%
JNL/Mellon Industrials Sector Fund	Acuity Brands, Inc.			Equity	1,652	154,347	0.057%
JNL/Mellon Industrials Sector Fund	Saia, Inc.			Equity	1,437	628,343	0.237%
JNL/Mellon Industrials Sector Fund	Watsco, Inc.			Equity	1,860	914,897	0.345%
JNL/Mellon Industrials Sector Fund	Stericycle, Inc.			Equity	4,993	304,573	0.115%
JNL/Mellon Industrials Sector Fund	Woodward, Inc.			Equity	3,090	629,968	0.238%
JNL/Mellon Industrials Sector Fund	Waste Management, Inc.			Equity	19,809	4,112,345	1.551%
JNL/Mellon Industrials Sector Fund	The Timken Company			Equity	3,625	305,551	0.115%
JNL/Mellon Industrials Sector Fund	SkyWest, Inc.			Equity	2,194	186,534	0.070%
JNL/Mellon Industrials Sector Fund	Worthington Industries, Inc.			Equity	1,672	69,304	0.026%
JNL/Mellon Industrials Sector Fund	Tenax Corporation			Equity	3,540	197,301	0.071%
JNL/Mellon Industrials Sector Fund	Beacon Roofing Supply, Inc.			Equity	3,400	293,862	0.111%
JNL/Mellon Industrials Sector Fund	Dobly Laboratories, Inc.			Equity	3,163	242,064	0.091%
JNL/Mellon Industrials Sector Fund	Enersys			Equity	2,156	220,020	0.083%
JNL/Mellon Industrials Sector Fund	Dellor Air Lines, Inc.			Equity	34,596	1,757,131	0.663%
JNL/Mellon Industrials Sector Fund	RBC Bearings Incorporated			Equity	1,565	468,530	0.177%
JNL/Mellon Industrials Sector Fund	AECOM			Equity	7,359	759,964	0.287%
JNL/Mellon Industrials Sector Fund	AeroVironment, Inc.			Equity	1,498	300,349	0.113%
JNL/Mellon Industrials Sector Fund	Owens Corning			Equity	4,689	627,702	0.232%
JNL/Mellon Industrials Sector Fund	ICF International, Inc.			Equity	990	165,261	0.062%
JNL/Mellon Industrials Sector Fund	Spirit AeroSystems Holdings, Inc.			Equity	6,168	200,522	0.076%
JNL/Mellon Industrials Sector Fund	Chart Industries, Inc.			Equity	2,315	287,384	0.108%
JNL/Mellon Industrials Sector Fund	Armstrong World Industries, Inc.			Equity	2,347	308,466	0.116%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon Industrials Sector Fund	Avis Budget Group, Inc.			Equity	951	83,298	0.031%
JNL/Mellon Industrials Sector Fund	Baileys FirstSource, Inc.			Equity	6,559	1,271,528	0.450%
JNL/Mellon Industrials Sector Fund	TransDigm Group Incorporated			Equity	3,018	4,307,078	1.624%
JNL/Mellon Industrials Sector Fund	KBR, Inc.			Equity	7,188	469,233	0.177%
JNL/Mellon Industrials Sector Fund	John Bean Technologies Corporation			Equity	1,770	174,363	0.066%
JNL/Mellon Industrials Sector Fund	Huntington Ingalls Industries, Inc.			Equity	2,119	560,221	0.211%
JNL/Mellon Industrials Sector Fund	Boor Allen Hamilton Holding Corporation			Equity	9,926	1,127,276	0.425%
JNL/Mellon Industrials Sector Fund	Stanley Black & Decker, Inc.			Equity	8,275	911,326	0.344%
JNL/Mellon Industrials Sector Fund	Hillenbrand, Inc.			Equity	3,715	103,277	0.039%
JNL/Mellon Industrials Sector Fund	XPC, Inc.			Equity	6,199	666,454	0.251%
JNL/Mellon Industrials Sector Fund	Xylem Inc.			Equity	12,492	1,754,310	0.662%
JNL/Mellon Industrials Sector Fund	United Airlines Holdings, Inc.			Equity	17,671	1,008,307	0.380%
JNL/Mellon Industrials Sector Fund	Verisk Analytics, Inc.			Equity	7,698	2,062,756	0.778%
JNL/Mellon Industrials Sector Fund	Generac Holdings Inc.			Equity	3,230	513,182	0.194%
JNL/Mellon Industrials Sector Fund	Air Lease Corporation			Equity	5,640	696,520	0.097%
JNL/Mellon Industrials Sector Fund	Fortune Brands Innovations, Inc.			Equity	6,792	608,088	0.229%
JNL/Mellon Industrials Sector Fund	Hubbell Incorporated			Equity	2,888	1,237,075	0.467%
JNL/Mellon Industrials Sector Fund	Gates Industrial Corporation PLC			Equity	10,004	1,75,570	0.066%
JNL/Mellon Industrials Sector Fund	American Airlines Group Inc.			Equity	33,395	375,360	0.142%
JNL/Mellon Industrials Sector Fund	Matson Intermodal - Paragon, Inc.			Equity	1,868	266,414	0.100%
JNL/Mellon Industrials Sector Fund	Alkore Inc.			Equity	1,975	167,362	0.063%
JNL/Mellon Industrials Sector Fund	Eaton Corporation Public Limited Company			Equity	21,533	7,136,898	2.691%
JNL/Mellon Industrials Sector Fund	Herc Holdings Inc.			Equity	1,427	227,507	0.086%
JNL/Mellon Industrials Sector Fund	Arctbest Corporation			Equity	1,251	135,671	0.051%
JNL/Mellon Industrials Sector Fund	Axon Enterprise, Inc.			Equity	3,849	1,538,060	0.580%
JNL/Mellon Industrials Sector Fund	Knight-Swift Transportation Holdings Inc.			Equity	8,055	434,567	0.164%
JNL/Mellon Industrials Sector Fund	Pentair Public Limited Company			Equity	8,946	874,829	0.330%
JNL/Mellon Industrials Sector Fund	Aramark			Equity	14,059	544,505	0.205%
JNL/Mellon Industrials Sector Fund	Mine Safety Appliances Company, LLC			Equity	1,973	349,892	0.132%
JNL/Mellon Industrials Sector Fund	Allegion Public Limited Company			Equity	4,731	689,496	0.260%
JNL/Mellon Industrials Sector Fund	ADT, Inc.			Equity	16,651	121,303	0.046%
JNL/Mellon Industrials Sector Fund	Invent Electric Public Limited Company			Equity	9,905	625,736	0.236%
JNL/Mellon Industrials Sector Fund	ITT Inc.			Equity	4,416	660,236	0.249%
JNL/Mellon Industrials Sector Fund	CNH Industrial N.V.			Equity	48,504	538,394	0.203%
JNL/Mellon Industrials Sector Fund	TransUnion			Equity	10,478	1,097,047	0.414%
JNL/Mellon Industrials Sector Fund	SiteOne Landscape Supply, Inc.			Equity	2,373	358,109	0.135%
JNL/Mellon Industrials Sector Fund	GMS Inc.			Equity	2,012	182,227	0.069%
JNL/Mellon Industrials Sector Fund	Johnson Controls International Public Limited Company			Equity	36,025	2,809,286	1.059%
JNL/Mellon Industrials Sector Fund	Advanced Drainage Systems, Inc.			Equity	3,782	594,379	0.224%
JNL/Mellon Industrials Sector Fund	TopBuild Corp.			Equity	1,698	690,763	0.260%
JNL/Mellon Industrials Sector Fund	CSW Industrials, Inc.			Equity	887	324,988	0.123%
JNL/Mellon Industrials Sector Fund	BWXT Government Group, Inc.			Equity	4,891	531,652	0.200%
JNL/Mellon Industrials Sector Fund	Vm Consolidated, Inc.			Equity	8,923	248,149	0.094%
JNL/Mellon Industrials Sector Fund	UHSarris Technologies, Inc.			Equity	10,191	2,624,133	0.914%
JNL/Mellon Industrials Sector Fund	Ingersoll Rand Inc.			Equity	21,791	2,138,984	0.807%
JNL/Mellon Industrials Sector Fund	Trane Technologies Public Limited Company			Equity	12,158	4,726,179	1.782%
JNL/Mellon Industrials Sector Fund	Howmet Aerospace Inc.			Equity	21,938	2,199,285	0.829%
JNL/Mellon Industrials Sector Fund	Carrier Global Corporation			Equity	45,249	3,842,992	1.373%
JNL/Mellon Industrials Sector Fund	RTX Corporation			Equity	71,557	8,669,903	3.270%
JNL/Mellon Industrials Sector Fund	Otis Worldwide Corporation			Equity	21,804	2,266,308	0.855%
JNL/Mellon Industrials Sector Fund	Ventri Holdings Co			Equity	19,481	1,938,165	0.731%
JNL/Mellon Industrials Sector Fund	The AZEK Company Inc.			Equity	8,002	374,494	0.141%
JNL/Mellon Industrials Sector Fund	Willscot Holdings Corporation			Equity	10,350	389,171	0.147%
JNL/Mellon Industrials Sector Fund	Bloom Energy Corporation			Equity	10,773	113,763	0.043%
JNL/Mellon Industrials Sector Fund	API Group Corporation			Equity	10,313	340,535	0.128%
JNL/Mellon Industrials Sector Fund	PTAI Aviation Ltd.			Equity	5,298	704,104	0.266%
JNL/Mellon Industrials Sector Fund	Crane Company			Equity	2,605	412,319	0.155%
JNL/Mellon Industrials Sector Fund	Leonardo DRS, Inc.			Equity	4,008	113,106	0.043%
JNL/Mellon Industrials Sector Fund	Veralto Corporation			Equity	12,751	1,427,466	0.538%
JNL/Mellon Industrials Sector Fund	Loar Holdings Inc.			Equity	682	50,870	0.019%
JNL/Mellon Industrials Sector Fund	Perruson Enterprises Inc.			Equity	10,967	2,198,340	0.824%
JNL/Mellon Industrials Sector Fund	Amazon Holdco Inc.			Equity	6,738	217,301	0.082%
Total Non Derivatives						265,144,438	
Derivatives							
JNL/Mellon Industrials Sector Fund	S&P Industrial Select Sector Index FUTURE - CASH SETTLED			Derivative	11	30,683	0.012%
Total Derivatives						30,683	
Total All Investments						265,175,121	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Mellon Information Technology Sector Fund	Cash			Cash Equivalent	1,779,509	1,779,509	0.026%
JNL Mellon Information Technology Sector Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	21,098,468	21,186,964	0.306%
JNL Mellon Information Technology Sector Fund	Concentrix Corporation			Equity	65,415	3,352,519	0.048%
JNL Mellon Information Technology Sector Fund	Unity Software Inc.			Equity	335,603	7,501,340	0.110%
JNL Mellon Information Technology Sector Fund	Affirm Holdings, Inc.			Equity	167,491	6,836,983	0.099%
JNL Mellon Information Technology Sector Fund	Allegro MicroSystems Inc.			Equity	194,898	4,541,123	0.066%
JNL Mellon Information Technology Sector Fund	Marvell Technology, Inc.			Equity	362,520	26,144,942	0.378%
JNL Mellon Information Technology Sector Fund	Upath, Inc.			Equity	449,036	5,747,661	0.083%
JNL Mellon Information Technology Sector Fund	C3 ai, Inc.			Equity	198,148	4,801,126	0.069%
JNL Mellon Information Technology Sector Fund	Seawater Technology Holdings Public Limited Company			Equity	111,578	12,299,243	0.178%
JNL Mellon Information Technology Sector Fund	Procore Technologies, Inc.			Equity	91,160	5,626,395	0.081%
JNL Mellon Information Technology Sector Fund	Squarespace, Inc.			Equity	103,222	4,792,597	0.069%
JNL Mellon Information Technology Sector Fund	Margeta, Inc.			Equity	841,118	4,138,301	0.060%
JNL Mellon Information Technology Sector Fund	JPROG Ltd			Equity	161,139	4,679,477	0.068%
JNL Mellon Information Technology Sector Fund	Applavin Corporation			Equity	115,564	15,086,880	0.218%
JNL Mellon Information Technology Sector Fund	Confluent, Inc.			Equity	256,984	5,237,334	0.076%
JNL Mellon Information Technology Sector Fund	SentinelOne, Inc.			Equity	255,822	6,119,262	0.088%
JNL Mellon Information Technology Sector Fund	Alight, Inc.			Equity	648,088	4,705,851	0.069%
JNL Mellon Information Technology Sector Fund	Duolingo, Inc.			Equity	30,821	8,692,138	0.126%
JNL Mellon Information Technology Sector Fund	CCC Intelligent Solutions Holdings Inc.			Equity	464,681	5,134,725	0.074%
JNL Mellon Information Technology Sector Fund	Plywire Corporation			Equity	240,133	3,935,780	0.057%
JNL Mellon Information Technology Sector Fund	Freshworks, Inc.			Equity	384,390	4,412,797	0.064%
JNL Mellon Information Technology Sector Fund	Toast, Inc.			Equity	298,143	8,440,428	0.122%
JNL Mellon Information Technology Sector Fund	Remitly Global, Inc.			Equity	324,700	4,347,733	0.063%
JNL Mellon Information Technology Sector Fund	Wolfpack, Inc.			Equity	419,757	4,071,643	0.059%
JNL Mellon Information Technology Sector Fund	Gigamon, Inc.			Equity	120,439	6,207,428	0.090%
JNL Mellon Information Technology Sector Fund	Informatica Inc.			Equity	195,760	4,948,813	0.072%
JNL Mellon Information Technology Sector Fund	Aurora Innovations, Inc.			Equity	1,150,740	6,865,661	0.099%
JNL Mellon Information Technology Sector Fund	Kyndryl Holdings, Inc.			Equity	238,333	5,476,892	0.079%
JNL Mellon Information Technology Sector Fund	Brace, Inc.			Equity	104,264	3,371,698	0.049%
JNL Mellon Information Technology Sector Fund	HashiCorp, Inc.			Equity	165,987	5,654,518	0.082%
JNL Mellon Information Technology Sector Fund	Samsara Inc.			Equity	161,629	7,777,587	0.112%
JNL Mellon Information Technology Sector Fund	DoubleVerify Holdings, Inc.			Equity	240,792	4,054,937	0.059%
JNL Mellon Information Technology Sector Fund	Paycom HCM, Inc.			Equity	293,403	4,163,389	0.060%
JNL Mellon Information Technology Sector Fund	Clino Optics, Inc.			Equity	156,505	5,943,309	0.087%
JNL Mellon Information Technology Sector Fund	Credo Technology Group Holding Ltd			Equity	155,183	4,779,636	0.069%
JNL Mellon Information Technology Sector Fund	Aspen Technology, Inc.			Equity	25,686	6,134,331	0.089%
JNL Mellon Information Technology Sector Fund	Global Business Travel Group, Inc.			Equity	582,030	4,475,811	0.065%
JNL Mellon Information Technology Sector Fund	Coherent Corp.			Equity	102,193	9,095,966	0.131%
JNL Mellon Information Technology Sector Fund	Altiostar Corporation			Equity	79,838	12,679,073	0.183%
JNL Mellon Information Technology Sector Fund	Elastic N.V.			Equity	79,606	6,110,557	0.088%
JNL Mellon Information Technology Sector Fund	MongoDB, Inc.			Equity	38,805	10,436,862	0.151%
JNL Mellon Information Technology Sector Fund	Dayforce, Inc.			Equity	121,624	7,449,420	0.108%
JNL Mellon Information Technology Sector Fund	Power Integrations, Inc.			Equity	75,155	4,818,939	0.070%
JNL Mellon Information Technology Sector Fund	International Business Machines Corporation			Equity	352,459	77,921,636	1.127%
JNL Mellon Information Technology Sector Fund	Adobe Inc.			Equity	168,031	87,003,091	1.258%
JNL Mellon Information Technology Sector Fund	Analyst Devices, Inc.			Equity	196,711	45,376,971	0.655%
JNL Mellon Information Technology Sector Fund	Verisign, Inc.			Equity	51,689	9,818,842	0.142%
JNL Mellon Information Technology Sector Fund	Autodesk, Inc.			Equity	92,084	25,367,300	0.367%
JNL Mellon Information Technology Sector Fund	Arnet, Inc.			Equity	99,802	5,420,247	0.078%
JNL Mellon Information Technology Sector Fund	Advanced Micro Devices, Inc.			Equity	612,569	100,110,322	1.452%
JNL Mellon Information Technology Sector Fund	Arrow Electronics, Inc.			Equity	47,186	6,267,716	0.091%
JNL Mellon Information Technology Sector Fund	ANSYS, Inc.			Equity	43,163	13,753,027	0.199%
JNL Mellon Information Technology Sector Fund	Applied Materials, Inc.			Equity	320,323	64,721,262	0.936%
JNL Mellon Information Technology Sector Fund	TD SYNNEX Corporation			Equity	49,198	5,807,698	0.085%
JNL Mellon Information Technology Sector Fund	Badger Meter, Inc.			Equity	29,674	6,362,686	0.091%
JNL Mellon Information Technology Sector Fund	Amphenol Corporation			Equity	487,849	31,868,736	0.461%
JNL Mellon Information Technology Sector Fund	Apple Inc.			Equity	5,236,226	1,220,040,658	17.639%
JNL Mellon Information Technology Sector Fund	Manhattan Associates, Inc.			Equity	36,426	10,249,548	0.148%
JNL Mellon Information Technology Sector Fund	Cinco Logic, Inc.			Equity	49,337	5,631,301	0.081%
JNL Mellon Information Technology Sector Fund	Cisco Systems, Inc.			Equity	1,541,425	82,034,639	1.186%
JNL Mellon Information Technology Sector Fund	Caci International Inc.			Equity	15,754	7,948,838	0.115%
JNL Mellon Information Technology Sector Fund	Diodes Incorporated			Equity	71,927	4,609,801	0.067%
JNL Mellon Information Technology Sector Fund	Amkor Technology, Inc.			Equity	153,427	6,049,947	0.088%
JNL Mellon Information Technology Sector Fund	Fair Isaac Corporation			Equity	11,112	21,596,394	0.312%
JNL Mellon Information Technology Sector Fund	Juniper Networks, Inc.			Equity	213,136	8,308,041	0.120%
JNL Mellon Information Technology Sector Fund	Flex Ltd.			Equity	262,665	8,780,891	0.127%
JNL Mellon Information Technology Sector Fund	Intel Corporation			Equity	1,720,052	40,252,655	0.581%
JNL Mellon Information Technology Sector Fund	Universal Display Corporation			Equity	36,468	7,654,633	0.111%
JNL Mellon Information Technology Sector Fund	Iron, Inc.			Equity	53,640	5,729,288	0.083%
JNL Mellon Information Technology Sector Fund	NVIDIA Corporation			Equity	8,672,928	1,053,326,043	15.229%
JNL Mellon Information Technology Sector Fund	Intel Inc.			Equity	107,793	66,899,453	0.965%
JNL Mellon Information Technology Sector Fund	Cognex Corporation			Equity	152,198	6,164,019	0.089%
JNL Mellon Information Technology Sector Fund	Cognizant Technology Solutions Corporation			Equity	230,163	17,763,980	0.257%
JNL Mellon Information Technology Sector Fund	Blackbaud, Inc.			Equity	59,815	5,065,134	0.073%
JNL Mellon Information Technology Sector Fund	Salesforce, Inc.			Equity	353,406	96,072,119	1.401%
JNL Mellon Information Technology Sector Fund	Fiserv, Inc.			Equity	229,235	41,182,068	0.595%
JNL Mellon Information Technology Sector Fund	Cadence Design Systems, Inc.			Equity	112,516	30,495,211	0.441%
JNL Mellon Information Technology Sector Fund	Euronet Worldwide, Inc.			Equity	52,141	5,173,951	0.075%
JNL Mellon Information Technology Sector Fund	MKS Instruments, Inc.			Equity	51,002	5,544,427	0.080%
JNL Mellon Information Technology Sector Fund	Jabil Inc.			Equity	75,216	9,013,133	0.130%
JNL Mellon Information Technology Sector Fund	Gartner, Inc.			Equity	35,477	17,978,325	0.260%
JNL Mellon Information Technology Sector Fund	ESCO Technologies Inc.			Equity	40,466	5,219,305	0.075%
JNL Mellon Information Technology Sector Fund	Jack Henry & Associates, Inc.			Equity	47,833	8,444,438	0.122%
JNL Mellon Information Technology Sector Fund	RS, Inc.			Equity	39,636	8,727,847	0.126%
JNL Mellon Information Technology Sector Fund	Coming Incorporated			Equity	370,244	16,716,517	0.242%
JNL Mellon Information Technology Sector Fund	Roper Technologies, Inc.			Equity	45,277	25,193,934	0.364%
JNL Mellon Information Technology Sector Fund	Enigmas, Inc.			Equity	86,437	9,726,756	0.141%
JNL Mellon Information Technology Sector Fund	Utilize, Inc.			Equity	22,667	5,010,102	0.073%
JNL Mellon Information Technology Sector Fund	Kulicke and Soffa Industries, Inc.			Equity	106,671	4,835,396	0.070%
JNL Mellon Information Technology Sector Fund	Rambus Inc.			Equity	121,273	5,120,146	0.074%
JNL Mellon Information Technology Sector Fund	Silicon Laboratories, Inc.			Equity	44,764	5,173,375	0.075%
JNL Mellon Information Technology Sector Fund	Lam Research Corporation			Equity	51,994	42,548,625	0.615%
JNL Mellon Information Technology Sector Fund	KLA Corporation			Equity	53,600	41,508,376	0.600%
JNL Mellon Information Technology Sector Fund	Pegasystems Inc.			Equity	67,493	4,933,063	0.071%
JNL Mellon Information Technology Sector Fund	NetApp, Inc.			Equity	106,796	13,190,374	0.191%
JNL Mellon Information Technology Sector Fund	Plexus Corp.			Equity	39,214	5,360,348	0.078%
JNL Mellon Information Technology Sector Fund	On Semiconductor Corporation			Equity	207,583	15,072,602	0.218%
JNL Mellon Information Technology Sector Fund	Oracle Corporation			Equity	608,742	103,729,637	1.500%
JNL Mellon Information Technology Sector Fund	Qualcomm Incorporated			Equity	428,020	72,784,801	1.052%
JNL Mellon Information Technology Sector Fund	Fidelity National Information Services, Inc.			Equity	249,232	20,881,556	0.302%
JNL Mellon Information Technology Sector Fund	Lattice Semiconductor Corporation			Equity	128,443	6,816,470	0.099%
JNL Mellon Information Technology Sector Fund	Microchip Technology Incorporated			Equity	238,789	19,172,369	0.277%
JNL Mellon Information Technology Sector Fund	Microsoft Corporation			Equity	2,717,199	1,169,210,730	16.904%
JNL Mellon Information Technology Sector Fund	Micro Technology, Inc.			Equity	442,189	45,859,421	0.668%
JNL Mellon Information Technology Sector Fund	Avantia Technologies, Inc.			Equity	91,683	9,255,399	0.134%
JNL Mellon Information Technology Sector Fund	IPG Photonics Corporation			Equity	64,150	4,767,628	0.069%
JNL Mellon Information Technology Sector Fund	Teledyne Technologies Incorporated			Equity	25,630	11,217,231	0.162%
JNL Mellon Information Technology Sector Fund	Insight Enterprises, Inc.			Equity	27,265	5,872,608	0.085%
JNL Mellon Information Technology Sector Fund	Trane Instruments Incorporated			Equity	349,927	72,284,420	1.045%
JNL Mellon Information Technology Sector Fund	ACI Worldwide, Inc.			Equity	112,490	5,725,741	0.083%
JNL Mellon Information Technology Sector Fund	Trimble Inc.			Equity	154,173	9,572,602	0.138%
JNL Mellon Information Technology Sector Fund	Western Digital Corporation			Equity	173,567	11,852,890	0.171%
JNL Mellon Information Technology Sector Fund	MicroStrategy Incorporated			Equity	91,590	12,462,074	0.223%
JNL Mellon Information Technology Sector Fund	Zebra Technologies Corporation			Equity	29,354	10,870,373	0.157%
JNL Mellon Information Technology Sector Fund	Synapsis Incorporated			Equity	58,784	4,560,463	0.066%
JNL Mellon Information Technology Sector Fund	Tyler Technologies, Inc.			Equity	21,572	12,592,008	0.182%
JNL Mellon Information Technology Sector Fund	Slyworks Solutions, Inc.			Equity	92,376	9,123,978	0.132%
JNL Mellon Information Technology Sector Fund	Synopsys, Inc.			Equity	62,840	31,821,548	0.460%
JNL Mellon Information Technology Sector Fund	Formfactor, Inc.			Equity	101,116	4,651,336	0.067%
JNL Mellon Information Technology Sector Fund	Teradyn, Inc.			Equity	83,297	11,155,967	0.161%
JNL Mellon Information Technology Sector Fund	Hitachi InterTechnology, Inc.			Equity	216,019	4,084,919	0.059%
JNL Mellon Information Technology Sector Fund	Monolithic Power Systems, Inc.			Equity	20,938	19,383,354	0.280%
JNL Mellon Information Technology Sector Fund	Ciena Corporation			Equity	116,980	7,204,798	0.104%
JNL Mellon Information Technology Sector Fund	Commvault Systems, Inc.			Equity	39,948	6,146,000	0.089%
JNL Mellon Information Technology Sector Fund	NetScout Systems, Inc.			Equity	49,536	5,804,971	0.084%
JNL Mellon Information Technology Sector Fund	EdService Holdings, Inc.			Equity	160,922	6,139,174	0.089%
JNL Mellon Information Technology Sector Fund	First Solar, Inc.			Equity	53,397	13,319,348	0.193%
JNL Mellon Information Technology Sector Fund	Teradata Corporation			Equity	165,407	5,018,448	0.073%
JNL Mellon Information Technology Sector Fund	Super Micro Computer, Inc.			Equity	26,637	11,091,647	0.160%
JNL Mellon Information Technology Sector Fund	Broadridge Financial Solutions, Inc.			Equity	60,041	12,965,989	0.187%
JNL Mellon Information Technology Sector Fund	Gespac Limited			Equity	151,202	5,926,630	0.086%
JNL Mellon Information Technology Sector Fund	Fabrinet			Equity	28,461	6,729,319	0.097%
JNL Mellon Information Technology Sector Fund	Guidewire Software, Inc.			Equity	55,206	10,099,396	0.146%
JNL Mellon Information Technology Sector Fund	NXP Semiconductors N.V.			Equity	107,661	25,946,771	0.375%
JNL Mellon Information Technology Sector Fund	Accenture Public Limited Company			Equity	239,282	84,581,401	1.233%
JNL Mellon Information Technology Sector Fund	SSAC Technologies Holdings, Inc.			Equity	127,573	9,467,192	0.137%
JNL Mellon Information Technology Sector Fund	Motorola Solutions, Inc.			Equity	68,664	31,032,010	0.449%
JNL Mellon Information Technology Sector Fund	Fortinet, Inc.			Equity	285,416	22,134,011	0.320%
JNL Mellon Information Technology Sector Fund	SPS Commerce, Inc.			Equity	31,846	6,183,538	0.089%
JNL Mellon Information Technology Sector Fund	Garmin Ltd.			Equity	76,257	13,423,520	0.194%
JNL Mellon Information Technology Sector Fund	MACOM Technology Solutions Holdings, Inc.			Equity	55,158	6,136,879	0.089%
JNL Mellon Information Technology Sector Fund	EPAM Systems, Inc.			Equity	38,828	7,946,771	0.112%
JNL Mellon Information Technology Sector Fund	Acxels Technology Solutions, Inc.			Equity	45,445	4,764,908	0.069%
JNL Mellon Information Technology Sector Fund	ServiceNow, Inc.			Equity	79,304	70,928,705	1.025%
JNL Mellon Information Technology Sector Fund	Ouavs, Inc.			Equity	42,107	5,409,065	0.078%
JNL Mellon Information Technology Sector Fund	CDW Corp.			Equity	65,748	14,876,772	0.215%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon Information Technology Sector Fund	Novanta Inc.			Equity	33,300	5,958,036	0.086%
JNL/Mellon Information Technology Sector Fund	Trade Desk, Inc. The			Equity	200,075	23,908,224	0.317%
JNL/Mellon Information Technology Sector Fund	GoDaddy Inc.			Equity	70,860	11,109,431	0.151%
JNL/Mellon Information Technology Sector Fund	PTC Inc.			Equity	63,354	11,445,534	0.165%
JNL/Mellon Information Technology Sector Fund	Sammina Corporation			Equity	73,672	5,042,848	0.073%
JNL/Mellon Information Technology Sector Fund	Palo Alto Networks, Inc.			Equity	126,436	43,899,425	0.635%
JNL/Mellon Information Technology Sector Fund	Okta, Inc.			Equity	105,432	7,637,815	0.113%
JNL/Mellon Information Technology Sector Fund	Wex, Inc.			Equity	34,675	7,272,388	0.105%
JNL/Mellon Information Technology Sector Fund	Blackline, Inc.			Equity	93,199	5,138,993	0.074%
JNL/Mellon Information Technology Sector Fund	Workday, Inc.			Equity	91,237	22,299,235	0.322%
JNL/Mellon Information Technology Sector Fund	DocuSign, Inc.			Equity	136,607	8,481,929	0.123%
JNL/Mellon Information Technology Sector Fund	Science Applications International Corporation			Equity	47,177	6,570,341	0.095%
JNL/Mellon Information Technology Sector Fund	Five9, Inc.			Equity	139,712	4,013,926	0.056%
JNL/Mellon Information Technology Sector Fund	G2 Holdings, Inc.			Equity	71,138	5,674,678	0.082%
JNL/Mellon Information Technology Sector Fund	Varonis Systems, Inc.			Equity	105,584	5,965,496	0.086%
JNL/Mellon Information Technology Sector Fund	Qovio, Inc.			Equity	67,065	6,927,815	0.100%
JNL/Mellon Information Technology Sector Fund	Sensata Technologies Holding PLC			Equity	158,088	5,669,036	0.082%
JNL/Mellon Information Technology Sector Fund	Dropbox, Inc.			Equity	234,756	5,969,845	0.086%
JNL/Mellon Information Technology Sector Fund	Paycom Software, Inc.			Equity	38,936	6,623,272	0.093%
JNL/Mellon Information Technology Sector Fund	Broadcom Inc.			Equity	1,686,970	291,002,325	4.207%
JNL/Mellon Information Technology Sector Fund	Leidos Holdings, Inc.			Equity	72,247	11,776,261	0.170%
JNL/Mellon Information Technology Sector Fund	ASGN Incorporated			Equity	55,268	5,152,636	0.074%
JNL/Mellon Information Technology Sector Fund	Arista Networks, Inc.			Equity	41,292	6,878,008	0.099%
JNL/Mellon Information Technology Sector Fund	AppFolio, Inc.			Equity	24,569	5,783,543	0.084%
JNL/Mellon Information Technology Sector Fund	Pure Storage, Inc.			Equity	183,620	9,225,069	0.133%
JNL/Mellon Information Technology Sector Fund	Kingsight Technologies, Inc.			Equity	87,499	13,905,421	0.200%
JNL/Mellon Information Technology Sector Fund	Block, Inc.			Equity	260,642	17,496,897	0.253%
JNL/Mellon Information Technology Sector Fund	Hewlett Packard Enterprise Company			Equity	654,303	13,472,099	0.195%
JNL/Mellon Information Technology Sector Fund	SolarEdge Technologies Ltd.			Equity	172,453	3,950,898	0.057%
JNL/Mellon Information Technology Sector Fund	Dell Technologies Inc.			Equity	126,205	15,387,421	0.220%
JNL/Mellon Information Technology Sector Fund	DXC Technology Company			Equity	245,201	5,687,821	0.074%
JNL/Mellon Information Technology Sector Fund	HubSpot, Inc.			Equity	25,881	13,758,340	0.199%
JNL/Mellon Information Technology Sector Fund	HP, Inc.			Equity	465,795	16,838,091	0.243%
JNL/Mellon Information Technology Sector Fund	Zscaler, Inc.			Equity	51,854	8,863,923	0.128%
JNL/Mellon Information Technology Sector Fund	Nutanix, Inc.			Equity	147,311	8,728,177	0.126%
JNL/Mellon Information Technology Sector Fund	Box, Inc.			Equity	167,027	5,466,794	0.079%
JNL/Mellon Information Technology Sector Fund	Alarm.Com Holdings, Inc.			Equity	81,733	4,468,343	0.065%
JNL/Mellon Information Technology Sector Fund	Workiva Inc.			Equity	65,441	5,177,692	0.075%
JNL/Mellon Information Technology Sector Fund	Rapact, Inc.			Equity	126,296	5,117,127	0.074%
JNL/Mellon Information Technology Sector Fund	Fortive Corporation			Equity	177,528	14,012,785	0.203%
JNL/Mellon Information Technology Sector Fund	Lumentum Holdings Inc.			Equity	88,914	5,635,370	0.081%
JNL/Mellon Information Technology Sector Fund	Altair Engineering Inc.			Equity	61,870	5,909,204	0.085%
JNL/Mellon Information Technology Sector Fund	Lyft, Inc.			Equity	442,884	5,646,771	0.082%
JNL/Mellon Information Technology Sector Fund	Enphase Energy, Inc.			Equity	78,418	8,862,802	0.128%
JNL/Mellon Information Technology Sector Fund	Tenable Holdings, Inc.			Equity	139,276	5,643,464	0.082%
JNL/Mellon Information Technology Sector Fund	Zoom Video Communications, Inc.			Equity	140,948	9,829,714	0.142%
JNL/Mellon Information Technology Sector Fund	Uber Technologies, Inc.			Equity	783,311	58,873,855	0.851%
JNL/Mellon Information Technology Sector Fund	Smartsheet Inc.			Equity	125,806	6,964,620	0.101%
JNL/Mellon Information Technology Sector Fund	CrowdStrike Holdings, Inc.			Equity	96,966	27,196,054	0.393%
JNL/Mellon Information Technology Sector Fund	Clarivate PLC			Equity	685,258	4,865,332	0.070%
JNL/Mellon Information Technology Sector Fund	Cloudflare, Inc.			Equity	154,588	12,504,623	0.181%
JNL/Mellon Information Technology Sector Fund	Onto Innovation Inc.			Equity	35,655	7,400,552	0.107%
JNL/Mellon Information Technology Sector Fund	Gen Digital Inc.			Equity	348,835	9,568,544	0.138%
JNL/Mellon Information Technology Sector Fund	Parsons Corporation			Equity	55,993	5,805,354	0.084%
JNL/Mellon Information Technology Sector Fund	Bill Holdings, Inc.			Equity	103,697	5,071,054	0.079%
JNL/Mellon Information Technology Sector Fund	Datadog, Inc.			Equity	140,307	16,143,723	0.233%
JNL/Mellon Information Technology Sector Fund	Dynatrace, Inc.			Equity	173,472	9,275,548	0.134%
JNL/Mellon Information Technology Sector Fund	ZoomInfo Technologies Inc.			Equity	475,329	4,905,395	0.071%
JNL/Mellon Information Technology Sector Fund	Shutterstock Payments, LLC			Equity	66,324	5,676,306	0.085%
JNL/Mellon Information Technology Sector Fund	Snowflake Inc.			Equity	151,173	17,363,731	0.251%
JNL/Mellon Information Technology Sector Fund	Bentley Systems, Incorporated			Equity	120,422	6,118,642	0.088%
JNL/Mellon Information Technology Sector Fund	Palantir Technologies Inc.			Equity	843,752	31,387,574	0.454%
JNL/Mellon Information Technology Sector Fund	Voriter Corporation			Equity	158,706	5,354,740	0.077%
JNL/Mellon Information Technology Sector Fund	Instructure Holdings, Inc.			Equity	173,634	4,089,081	0.059%
JNL/Mellon Information Technology Sector Fund	Nextacker LLC			Equity	137,429	5,150,839	0.074%
JNL/Mellon Information Technology Sector Fund	Astera Labs, Inc.			Equity	94,921	4,972,911	0.072%
JNL/Mellon Information Technology Sector Fund	Corpay Inc.			Equity	36,853	11,526,144	0.167%
JNL/Mellon Information Technology Sector Fund	Botix, Inc.			Equity	66,722	4,110,142	0.059%
JNL/Mellon Information Technology Sector Fund	Te Connectivity Public Limited Company			Equity	136,807	20,656,489	0.299%
Total Non Derivatives						6,916,027,146	
Derivatives							
JNL/Mellon Information Technology Sector Fund	S&P Technology Select Sector Index FUTURE - CASH SETTLED			Derivative	122	583,624	0.008%
Total Derivatives						583,624	
Total All Investments						6,916,610,770	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon International Index Fund	JNL International Index Fund			Fund	209,879,840	2,323,369,832	100.000%
Total Non Derivatives						2,323,369,832	
Derivatives							
Total Derivatives						0	
Total All Investments						2,323,369,832	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Materials Sector Fund	Cash			Cash Equivalent	69,047	69,047	0.042%
JNL/Mellon Materials Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	670,182	672,804	0.405%
JNL/Mellon Materials Sector Fund	Alpha Metallurgical Resources, Inc.			Equity	1,432	338,210	0.203%
JNL/Mellon Materials Sector Fund	MP Materials Corp.			Equity	12,446	219,672	0.132%
JNL/Mellon Materials Sector Fund	Albemarle Corporation			Equity	15,240	1,449,378	0.872%
JNL/Mellon Materials Sector Fund	CRH Public Limited Company			Equity	89,460	8,296,520	4.989%
JNL/Mellon Materials Sector Fund	Balchem Corporation			Equity	4,208	740,608	0.445%
JNL/Mellon Materials Sector Fund	Air Products and Chemicals, Inc.			Equity	28,957	8,621,657	5.185%
JNL/Mellon Materials Sector Fund	Eastman Chemical Company			Equity	15,391	1,735,137	1.043%
JNL/Mellon Materials Sector Fund	Commercial Metals Company			Equity	14,919	819,948	0.493%
JNL/Mellon Materials Sector Fund	Freeport-McMoRan Inc.			Equity	186,866	9,328,351	5.610%
JNL/Mellon Materials Sector Fund	PMC Corporation			Equity	16,202	1,077,757	0.648%
JNL/Mellon Materials Sector Fund	International Flavors & Fragrances Inc.			Equity	33,267	3,503,564	2.107%
JNL/Mellon Materials Sector Fund	Eagle Materials Inc.			Equity	4,452	1,261,601	0.771%
JNL/Mellon Materials Sector Fund	Hecla Mining Company			Equity	76,196	508,227	0.306%
JNL/Mellon Materials Sector Fund	Ecolab Inc.			Equity	33,107	8,471,498	5.095%
JNL/Mellon Materials Sector Fund	H.B. Fuller Company			Equity	6,990	554,866	0.334%
JNL/Mellon Materials Sector Fund	Innospec Inc.			Equity	3,242	366,538	0.220%
JNL/Mellon Materials Sector Fund	Cabot Corporation			Equity	7,151	799,267	0.481%
JNL/Mellon Materials Sector Fund	RPM International Inc.			Equity	16,788	2,031,348	1.222%
JNL/Mellon Materials Sector Fund	Olin Corporation			Equity	15,581	747,576	0.450%
JNL/Mellon Materials Sector Fund	Nucor Corporation			Equity	31,150	4,699,868	2.826%
JNL/Mellon Materials Sector Fund	Reliance, Inc.			Equity	7,231	2,091,278	1.258%
JNL/Mellon Materials Sector Fund	Royal Gold, Inc.			Equity	8,583	1,204,195	0.724%
JNL/Mellon Materials Sector Fund	Quaker Chemical Corporation			Equity	8,816	305,978	0.184%
JNL/Mellon Materials Sector Fund	Newmont Corporation			Equity	150,034	8,019,317	4.853%
JNL/Mellon Materials Sector Fund	Martin Marietta Materials, Inc.			Equity	8,046	4,330,760	2.604%
JNL/Mellon Materials Sector Fund	PPG Industries, Inc.			Equity	30,728	4,070,231	2.448%
JNL/Mellon Materials Sector Fund	Scotts Miracle-Gro Company, The			Equity	5,584	484,133	0.291%
JNL/Mellon Materials Sector Fund	Legacy Vulcan Corp.			Equity	17,288	4,331,938	2.695%
JNL/Mellon Materials Sector Fund	WD-40 Company			Equity	1,762	454,385	0.273%
JNL/Mellon Materials Sector Fund	The Sherwin-Williams Company			Equity	30,497	11,639,790	7.000%
JNL/Mellon Materials Sector Fund	Simpson Manufacturing Co., Inc.			Equity	5,547	1,060,975	0.638%
JNL/Mellon Materials Sector Fund	Steel Dynamics, Inc.			Equity	19,228	2,433,111	1.463%
JNL/Mellon Materials Sector Fund	United States Steel Corporation			Equity	28,965	1,023,333	0.615%
JNL/Mellon Materials Sector Fund	Southern Copper Corporation			Equity	11,346	1,312,392	0.789%
JNL/Mellon Materials Sector Fund	Sensient Technologies Corporation			Equity	5,514	442,333	0.266%
JNL/Mellon Materials Sector Fund	Westlake Corporation			Equity	4,441	667,438	0.401%
JNL/Mellon Materials Sector Fund	NewMarket Corporation			Equity	938	519,940	0.313%
JNL/Mellon Materials Sector Fund	Huntsman Corporation			Equity	21,467	519,501	0.312%
JNL/Mellon Materials Sector Fund	Celanese Corporation			Equity	14,187	1,928,865	1.160%
JNL/Mellon Materials Sector Fund	CF Industries Holdings, Inc.			Equity	23,677	2,031,487	1.222%
JNL/Mellon Materials Sector Fund	LyondellBasell Industries N.V.			Equity	33,693	3,231,159	1.943%
JNL/Mellon Materials Sector Fund	Mosaic Company, The			Equity	41,738	1,117,744	0.672%
JNL/Mellon Materials Sector Fund	Boise Cascade Company			Equity	5,136	724,073	0.435%
JNL/Mellon Materials Sector Fund	Warrior Met Coal, Inc.			Equity	6,769	432,539	0.260%
JNL/Mellon Materials Sector Fund	Cleveland-Cliffs Inc.			Equity	61,927	790,308	0.476%
JNL/Mellon Materials Sector Fund	Axalta Coating Systems Ltd.			Equity	26,832	971,050	0.584%
JNL/Mellon Materials Sector Fund	The Chemours Company			Equity	19,393	394,066	0.237%
JNL/Mellon Materials Sector Fund	Alcoa Corporation			Equity	31,941	1,232,284	0.741%
JNL/Mellon Materials Sector Fund	Ashland Inc.			Equity	6,123	532,517	0.320%
JNL/Mellon Materials Sector Fund	Summit Materials, Inc.			Equity	15,408	601,374	0.362%
JNL/Mellon Materials Sector Fund	Element Solutions Inc.			Equity	29,343	796,956	0.479%
JNL/Mellon Materials Sector Fund	Dow Inc.			Equity	91,310	4,988,265	3.000%
JNL/Mellon Materials Sector Fund	Aventor, Inc.			Equity	88,121	2,279,690	1.371%
JNL/Mellon Materials Sector Fund	DuPont de Nemours, Inc.			Equity	54,450	4,850,257	2.917%
JNL/Mellon Materials Sector Fund	Corteva, Inc.			Equity	90,734	5,334,252	3.208%
JNL/Mellon Materials Sector Fund	UPF Industries, Inc.			Equity	8,019	1,052,173	0.633%
JNL/Mellon Materials Sector Fund	Arch Resources, Inc.			Equity	2,303	318,182	0.191%
JNL/Mellon Materials Sector Fund	Avent Corporation			Equity	11,798	586,838	0.358%
JNL/Mellon Materials Sector Fund	Linde Public Limited Company			Equity	62,518	29,812,333	17.929%
JNL/Mellon Materials Sector Fund	Knife River Corporation			Equity	6,592	589,259	0.354%
JNL/Mellon Materials Sector Fund	Arcadium Lithium PLC			Equity	139,880	398,659	0.240%
Total Non Derivatives						166,249,310	
Derivatives							
JNL/Mellon Materials Sector Fund	S&P Materials Select Sector Index FUTURE - CASH SETTLED			Derivative	8	33,185	0.020%
Total Derivatives						33,185	
Total All Investments						166,282,495	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Nasdaq® 100 Index Fund	Cash			Cash Equivalent	6,296,296	6,296,296	0.077%
JNL/Mellon Nasdaq® 100 Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	53,670,388	53,874,357	0.661%
JNL/Mellon Nasdaq® 100 Index Fund	DoorDash, Inc.			Equity	202,978	28,971,050	0.356%
JNL/Mellon Nasdaq® 100 Index Fund	Airtbnb, Inc.			Equity	235,999	29,927,033	0.367%
JNL/Mellon Nasdaq® 100 Index Fund	Marvell Technology, Inc.			Equity	461,817	33,305,242	0.409%
JNL/Mellon Nasdaq® 100 Index Fund	GlobalFoundries, Inc.			Equity	295,648	11,899,635	0.146%
JNL/Mellon Nasdaq® 100 Index Fund	Constellation Energy Group, Inc.			Equity	167,229	43,482,885	0.534%
JNL/Mellon Nasdaq® 100 Index Fund	Warner Bros. Discovery, Inc.			Equity	1,302,879	10,748,752	0.132%
JNL/Mellon Nasdaq® 100 Index Fund	Atlasian Corporation			Equity	85,122	13,518,225	0.166%
JNL/Mellon Nasdaq® 100 Index Fund	GE HealthCare Technologies Inc.			Equity	244,037	22,932,972	0.281%
JNL/Mellon Nasdaq® 100 Index Fund	MongoDB, Inc.			Equity	39,233	10,606,642	0.130%
JNL/Mellon Nasdaq® 100 Index Fund	Comcast Corporation			Equity	2,058,235	85,972,476	1.055%
JNL/Mellon Nasdaq® 100 Index Fund	Adobe Inc.			Equity	236,247	122,323,972	1.501%
JNL/Mellon Nasdaq® 100 Index Fund	Analog Devices, Inc.			Equity	263,931	60,748,988	0.746%
JNL/Mellon Nasdaq® 100 Index Fund	Take-Two Interactive Software, Inc.			Equity	93,845	14,424,915	0.177%
JNL/Mellon Nasdaq® 100 Index Fund	Autodesk, Inc.			Equity	115,022	31,686,261	0.389%
JNL/Mellon Nasdaq® 100 Index Fund	Automatic Data Processing, Inc.			Equity	217,696	60,549,309	0.743%
JNL/Mellon Nasdaq® 100 Index Fund	Advanced Micro Devices, Inc.			Equity	889,694	141,043,435	1.731%
JNL/Mellon Nasdaq® 100 Index Fund	American Electric Power Company, Inc.			Equity	281,054	28,836,140	0.354%
JNL/Mellon Nasdaq® 100 Index Fund	Honeywell International Inc.			Equity	346,356	71,595,249	0.879%
JNL/Mellon Nasdaq® 100 Index Fund	ANVSYS, Inc.			Equity	46,606	14,850,070	0.182%
JNL/Mellon Nasdaq® 100 Index Fund	Applied Materials, Inc.			Equity	440,388	88,980,395	1.092%
JNL/Mellon Nasdaq® 100 Index Fund	Angien Inc.			Equity	285,322	91,933,602	1.128%
JNL/Mellon Nasdaq® 100 Index Fund	Amazon.com, Inc.			Equity	2,165,284	403,457,368	4.951%
JNL/Mellon Nasdaq® 100 Index Fund	Apple Inc.			Equity	3,136,420	730,785,860	8.968%
JNL/Mellon Nasdaq® 100 Index Fund	Cisco Systems, Inc.			Equity	2,142,868	114,043,435	1.391%
JNL/Mellon Nasdaq® 100 Index Fund	IDEXX Laboratories, Inc.			Equity	43,687	22,071,546	0.271%
JNL/Mellon Nasdaq® 100 Index Fund	Copart, Inc.			Equity	511,832	26,819,997	0.329%
JNL/Mellon Nasdaq® 100 Index Fund	Biogen Inc.			Equity	77,827	15,085,986	0.185%
JNL/Mellon Nasdaq® 100 Index Fund	CoStar Group, Inc.			Equity	216,632	16,483,598	0.202%
JNL/Mellon Nasdaq® 100 Index Fund	Marriott International, Inc.			Equity	151,678	17,007,151	0.463%
JNL/Mellon Nasdaq® 100 Index Fund	Fastenal Company			Equity	306,049	21,858,020	0.268%
JNL/Mellon Nasdaq® 100 Index Fund	Intel Corporation			Equity	2,264,237	53,119,000	0.652%
JNL/Mellon Nasdaq® 100 Index Fund	NVIDIA Corporation			Equity	5,063,467	614,958,340	7.547%
JNL/Mellon Nasdaq® 100 Index Fund	Inuit Inc.			Equity	148,687	31,084,464	0.383%
JNL/Mellon Nasdaq® 100 Index Fund	Gilead Sciences, Inc.			Equity	662,651	55,556,660	0.682%
JNL/Mellon Nasdaq® 100 Index Fund	Dollar Tree, Inc.			Equity	116,034	8,159,511	0.100%
JNL/Mellon Nasdaq® 100 Index Fund	Cognizant Technology Solutions Corporation			Equity	263,610	20,345,420	0.250%
JNL/Mellon Nasdaq® 100 Index Fund	Electronic Arts Inc.			Equity	141,451	18,289,731	0.224%
JNL/Mellon Nasdaq® 100 Index Fund	Cadence Design Systems, Inc.			Equity	144,610	39,193,648	0.481%
JNL/Mellon Nasdaq® 100 Index Fund	CSX Corporation			Equity	1,039,925	35,908,610	0.441%
JNL/Mellon Nasdaq® 100 Index Fund	Cintas Corporation			Equity	215,790	44,426,485	0.545%
JNL/Mellon Nasdaq® 100 Index Fund	Roper Technologies, Inc.			Equity	56,777	14,092,943	0.173%
JNL/Mellon Nasdaq® 100 Index Fund	Ross Stores, Inc.			Equity	178,791	26,909,833	0.330%
JNL/Mellon Nasdaq® 100 Index Fund	Paychex, Inc.			Equity	190,672	25,586,276	0.314%
JNL/Mellon Nasdaq® 100 Index Fund	XCEL Energy Inc.			Equity	297,011	19,597,432	0.240%
JNL/Mellon Nasdaq® 100 Index Fund	Costco Wholesale Corporation			Equity	235,893	298,132,862	3.661%
JNL/Mellon Nasdaq® 100 Index Fund	Lam Research Corporation			Equity	69,539	56,910,125	0.698%
JNL/Mellon Nasdaq® 100 Index Fund	KLA Corporation			Equity	71,613	55,457,823	0.681%
JNL/Mellon Nasdaq® 100 Index Fund	Exelon Corporation			Equity	529,815	21,483,998	0.264%
JNL/Mellon Nasdaq® 100 Index Fund	On Semiconductor Corporation			Equity	229,975	16,698,485	0.204%
JNL/Mellon Nasdaq® 100 Index Fund	Qualcomm Incorporated			Equity	593,584	100,938,959	1.239%
JNL/Mellon Nasdaq® 100 Index Fund	PepsiCo, Inc.			Equity	731,229	124,345,491	1.526%
JNL/Mellon Nasdaq® 100 Index Fund	PACCAR Inc			Equity	279,641	27,594,974	0.339%
JNL/Mellon Nasdaq® 100 Index Fund	Regeneron Pharmaceuticals, Inc.			Equity	57,639	60,562,422	0.744%
JNL/Mellon Nasdaq® 100 Index Fund	Burns, Inc.			Equity	84,693	11,044,523	0.136%
JNL/Mellon Nasdaq® 100 Index Fund	Microchip Technology Incorporated			Equity	285,496	22,922,474	0.281%
JNL/Mellon Nasdaq® 100 Index Fund	Old Dominion Freight Line, Inc.			Equity	115,395	22,922,063	0.281%
JNL/Mellon Nasdaq® 100 Index Fund	Microsoft Corporation			Equity	1,533,407	659,825,032	8.097%
JNL/Mellon Nasdaq® 100 Index Fund	Micron Technology, Inc.			Equity	588,993	22,889,923	0.401%
JNL/Mellon Nasdaq® 100 Index Fund	Texas Instruments Incorporated			Equity	486,449	100,485,770	1.233%
JNL/Mellon Nasdaq® 100 Index Fund	Vertex Pharmaceuticals Incorporated			Equity	137,255	63,834,555	0.783%
JNL/Mellon Nasdaq® 100 Index Fund	Intuitive Surgical, Inc.			Equity	188,663	92,684,472	1.137%
JNL/Mellon Nasdaq® 100 Index Fund	Starbucks Corporation			Equity	602,467	58,734,731	0.719%
JNL/Mellon Nasdaq® 100 Index Fund	Synovus, Inc.			Equity	81,432	41,236,350	0.506%
JNL/Mellon Nasdaq® 100 Index Fund	Netflix, Inc.			Equity	229,190	162,557,591	1.995%
JNL/Mellon Nasdaq® 100 Index Fund	Moderna, Inc.			Equity	202,578	13,538,288	0.166%
JNL/Mellon Nasdaq® 100 Index Fund	Merck&Co, Inc.			Equity	26,965	55,331,101	0.679%
JNL/Mellon Nasdaq® 100 Index Fund	DexCom, Inc.			Equity	210,099	14,085,037	0.173%
JNL/Mellon Nasdaq® 100 Index Fund	Super Micro Computer, Inc.			Equity	31,095	12,947,958	0.159%
JNL/Mellon Nasdaq® 100 Index Fund	Lululemon Athletica Inc.			Equity	64,651	17,543,049	0.215%
JNL/Mellon Nasdaq® 100 Index Fund	NXP Semiconductors N.V.			Equity	135,662	32,689,923	0.401%
JNL/Mellon Nasdaq® 100 Index Fund	Tesla Inc.			Equity	997,574	260,995,286	3.203%
JNL/Mellon Nasdaq® 100 Index Fund	O'Reilly Automotive, Inc.			Equity	31,126	35,844,702	0.440%
JNL/Mellon Nasdaq® 100 Index Fund	Fortinet, Inc.			Equity	406,328	31,510,736	0.387%
JNL/Mellon Nasdaq® 100 Index Fund	Versik Analytics, Inc.			Equity	75,865	20,328,785	0.249%
JNL/Mellon Nasdaq® 100 Index Fund	Meta Platforms, Inc.			Equity	717,644	410,808,131	5.041%
JNL/Mellon Nasdaq® 100 Index Fund	Diamondback Energy, Inc.			Equity	94,481	16,288,524	0.200%
JNL/Mellon Nasdaq® 100 Index Fund	CDW Corp.			Equity	71,510	16,182,713	0.199%
JNL/Mellon Nasdaq® 100 Index Fund	Trade Desk, Inc. The			Equity	235,760	25,851,084	0.317%
JNL/Mellon Nasdaq® 100 Index Fund	Coca-Cola Europacific Partners PLC			Equity	242,559	19,101,521	0.234%
JNL/Mellon Nasdaq® 100 Index Fund	T-Mobile US, Inc.			Equity	623,292	128,622,537	1.578%
JNL/Mellon Nasdaq® 100 Index Fund	Mondelez International, Inc.			Equity	713,449	52,895,109	0.649%
JNL/Mellon Nasdaq® 100 Index Fund	Palo Alto Networks, Inc.			Equity	172,225	58,866,505	0.722%
JNL/Mellon Nasdaq® 100 Index Fund	Baker Hughes Company			Equity	529,099	19,126,928	0.235%
JNL/Mellon Nasdaq® 100 Index Fund	Workday, Inc.			Equity	112,374	27,465,329	0.337%
JNL/Mellon Nasdaq® 100 Index Fund	Former Charter Communications Parent, Inc.			Equity	76,607	24,826,787	0.305%
JNL/Mellon Nasdaq® 100 Index Fund	AsiaticZeneqa PLC			Equity	305,982	24,150,698	0.296%
JNL/Mellon Nasdaq® 100 Index Fund	Broadcom Inc.			Equity	2,469,268	405,948,730	5.227%
JNL/Mellon Nasdaq® 100 Index Fund	Booking Holdings Inc.			Equity	17,967	75,679,160	0.929%
JNL/Mellon Nasdaq® 100 Index Fund	ASML Holding N.V.			Equity	50,179	41,811,652	0.513%
JNL/Mellon Nasdaq® 100 Index Fund	Kraft Heinz Company, The			Equity	649,089	22,789,515	0.280%
JNL/Mellon Nasdaq® 100 Index Fund	Alphabet Inc.			Equity	1,209,625	200,616,306	2.462%
JNL/Mellon Nasdaq® 100 Index Fund	Alphabet Inc.			Equity	1,154,707	193,055,463	2.369%
JNL/Mellon Nasdaq® 100 Index Fund	Monster Beverage 1990 Corporation			Equity	524,533	27,364,887	0.336%
JNL/Mellon Nasdaq® 100 Index Fund	PayPal Holdings, Inc.			Equity	544,172	42,461,741	0.521%
JNL/Mellon Nasdaq® 100 Index Fund	Zscaler, Inc.			Equity	79,994	13,674,174	0.168%
JNL/Mellon Nasdaq® 100 Index Fund	Keurig Dr Pepper Inc.			Equity	721,489	27,207,350	0.334%
JNL/Mellon Nasdaq® 100 Index Fund	CrowdStrike Holdings, Inc.			Equity	123,169	34,545,209	0.424%
JNL/Mellon Nasdaq® 100 Index Fund	Datadog, Inc.			Equity	164,871	18,970,057	0.233%
JNL/Mellon Nasdaq® 100 Index Fund	Pinduoduo (Shanghai) Network Technology Co., Ltd.			Equity	354,644	47,809,558	0.587%
JNL/Mellon Nasdaq® 100 Index Fund	Linde Public Limited Company			Equity	255,222	121,705,163	1.494%
JNL/Mellon Nasdaq® 100 Index Fund	Arm Holdings PLC			Equity	62,378	8,920,678	0.109%
Total Non Derivatives						8,146,793,309	
Derivatives							
JNL/Mellon Nasdaq® 100 Index Fund	NASDAQ 100 Stock Index FUTURE - CASH SETTLED			Derivative	150	1,753,308	0.022%
Total Derivatives						1,753,308	
Total All Investments						8,148,546,617	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Real Estate Sector Fund	Cash			Cash Equivalent	203,293	203,293	0.096%
JNL/Mellon Real Estate Sector Fund	Mid-America Apartment Communities, Inc.			Equity	16,485	2,619,467	1.235%
JNL/Mellon Real Estate Sector Fund	National Health Investors, Inc.			Equity	6,123	520,210	0.245%
JNL/Mellon Real Estate Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	843,636	847,384	0.399%
JNL/Mellon Real Estate Sector Fund	Broadstone Net Lease, Inc.			Equity	24,373	469,937	0.221%
JNL/Mellon Real Estate Sector Fund	Phillips Edison & Company, Inc.			Equity	17,261	653,438	0.308%
JNL/Mellon Real Estate Sector Fund	Essential Properties Realty Trust, Inc.			Equity	24,775	853,251	0.402%
JNL/Mellon Real Estate Sector Fund	Federal Realty Investment Trust			Equity	11,778	1,354,117	0.638%
JNL/Mellon Real Estate Sector Fund	St. Green Realty Corp.			Equity	9,157	639,708	0.302%
JNL/Mellon Real Estate Sector Fund	Healthcare Realty Trust Incorporated			Equity	53,718	2,874,982	0.446%
JNL/Mellon Real Estate Sector Fund	DigitalBridge Group, Inc.			Equity	22,339	315,873	0.149%
JNL/Mellon Real Estate Sector Fund	Annaly Capital Management, Inc.			Equity	70,840	1,467,805	0.692%
JNL/Mellon Real Estate Sector Fund	Jones Lang LaSalle Incorporated			Equity	6,701	1,807,997	0.852%
JNL/Mellon Real Estate Sector Fund	CrSStar Group, Inc.			Equity	57,632	4,347,738	2.048%
JNL/Mellon Real Estate Sector Fund	The St. Joe Company			Equity	5,406	315,224	0.149%
JNL/Mellon Real Estate Sector Fund	Equity Residential			Equity	48,591	3,650,970	1.721%
JNL/Mellon Real Estate Sector Fund	EastGroup Properties, Inc.			Equity	6,784	1,276,884	0.602%
JNL/Mellon Real Estate Sector Fund	PotlatchDeltic Corporation			Equity	11,171	503,254	0.237%
JNL/Mellon Real Estate Sector Fund	Iron Mountain Incorporated			Equity	41,332	4,940,987	2.329%
JNL/Mellon Real Estate Sector Fund	Apple Hospitality REIT, Inc.			Equity	31,948	476,984	0.225%
JNL/Mellon Real Estate Sector Fund	AGNC Investment Corp.			Equity	108,180	1,144,544	0.540%
JNL/Mellon Real Estate Sector Fund	Medical Properties Trust, Inc.			Equity	84,503	501,230	0.236%
JNL/Mellon Real Estate Sector Fund	Crown Castle Inc.			Equity	61,267	7,268,104	3.420%
JNL/Mellon Real Estate Sector Fund	Equinix, Inc.			Equity	13,434	11,924,421	5.621%
JNL/Mellon Real Estate Sector Fund	American Homes 4 Rent			Equity	45,463	1,745,325	0.823%
JNL/Mellon Real Estate Sector Fund	Sabra Health Care REIT, Inc.			Equity	29,707	1,652,343	0.783%
JNL/Mellon Real Estate Sector Fund	COPT Defense Properties			Equity	15,890	486,631	0.229%
JNL/Mellon Real Estate Sector Fund	Alexandria Real Estate Equities, Inc.			Equity	21,991	2,640,020	1.244%
JNL/Mellon Real Estate Sector Fund	Gaming and Leisure Properties, Inc.			Equity	36,869	1,896,910	0.894%
JNL/Mellon Real Estate Sector Fund	Garden Property Trust			Equity	15,056	1,075,375	0.504%
JNL/Mellon Real Estate Sector Fund	Prologis Inc.			Equity	130,751	16,516,527	7.786%
JNL/Mellon Real Estate Sector Fund	Agree Realty Corporation			Equity	13,325	1,007,104	0.475%
JNL/Mellon Real Estate Sector Fund	Tanger Inc.			Equity	15,238	505,597	0.238%
JNL/Mellon Real Estate Sector Fund	W.P. Carey Inc.			Equity	30,817	1,946,884	0.918%
JNL/Mellon Real Estate Sector Fund	Innovation Homes Inc.			Equity	80,994	2,893,537	1.373%
JNL/Mellon Real Estate Sector Fund	Cubesmart, L.P.			Equity	31,666	1,704,581	0.804%
JNL/Mellon Real Estate Sector Fund	Americold Realty Trust, Inc.			Equity	36,906	1,051,452	0.496%
JNL/Mellon Real Estate Sector Fund	Starwood Property Trust, Inc.			Equity	44,640	831,190	0.393%
JNL/Mellon Real Estate Sector Fund	MNN REIT, Inc.			Equity	25,757	1,248,938	0.589%
JNL/Mellon Real Estate Sector Fund	Realty Income Corporation			Equity	123,242	7,816,008	3.684%
JNL/Mellon Real Estate Sector Fund	Kilroy Realty Corporation			Equity	16,394	643,301	0.303%
JNL/Mellon Real Estate Sector Fund	Kimco Realty OP, LLC			Equity	95,117	2,208,616	1.041%
JNL/Mellon Real Estate Sector Fund	Public Storage Operating Company			Equity	22,401	8,151,052	3.842%
JNL/Mellon Real Estate Sector Fund	Equity Lifestyle Properties, Inc.			Equity	25,519	1,832,711	0.864%
JNL/Mellon Real Estate Sector Fund	Brixmor Property Group Inc.			Equity	42,396	1,181,153	0.557%
JNL/Mellon Real Estate Sector Fund	Sun Communities, Inc.			Equity	17,545	2,387,699	1.126%
JNL/Mellon Real Estate Sector Fund	STAG Industrial, Inc.			Equity	25,658	1,006,934	0.474%
JNL/Mellon Real Estate Sector Fund	Vornado Realty Trust			Equity	24,267	956,120	0.451%
JNL/Mellon Real Estate Sector Fund	Rexford Industrial Realty, Inc.			Equity	28,784	1,460,140	0.688%
JNL/Mellon Real Estate Sector Fund	Simon Property Group, Inc.			Equity	43,409	7,336,989	3.459%
JNL/Mellon Real Estate Sector Fund	Essex Property Trust, Inc.			Equity	9,077	2,703,766	1.275%
JNL/Mellon Real Estate Sector Fund	American Tower Corporation			Equity	65,987	15,345,937	7.234%
JNL/Mellon Real Estate Sector Fund	Rayonier Inc.			Equity	19,051	613,061	0.289%
JNL/Mellon Real Estate Sector Fund	Omega Healthcare Investors, Inc.			Equity	34,712	1,412,778	0.666%
JNL/Mellon Real Estate Sector Fund	Hess Hotels & Resorts, Inc.			Equity	96,872	1,759,922	0.830%
JNL/Mellon Real Estate Sector Fund	CBRE Group, Inc.			Equity	43,015	5,354,507	2.524%
JNL/Mellon Real Estate Sector Fund	Ryman Hospitality Properties, Inc.			Equity	8,240	892,722	0.421%
JNL/Mellon Real Estate Sector Fund	AvalonBay Communities, Inc.			Equity	20,022	4,543,993	2.142%
JNL/Mellon Real Estate Sector Fund	Weyerhaeuser Company			Equity	102,921	3,484,805	1.643%
JNL/Mellon Real Estate Sector Fund	Extra Space Storage Inc.			Equity	29,877	5,393,537	2.538%
JNL/Mellon Real Estate Sector Fund	Independence Realty Trust, Inc.			Equity	31,694	654,798	0.309%
JNL/Mellon Real Estate Sector Fund	Caretrust REIT, Inc.			Equity	19,766	615,711	0.290%
JNL/Mellon Real Estate Sector Fund	Ventus, Inc.			Equity	56,958	3,652,717	1.722%
JNL/Mellon Real Estate Sector Fund	Terrano Realty Corporation			Equity	13,323	896,904	0.423%
JNL/Mellon Real Estate Sector Fund	Digital Realty Trust, Inc.			Equity	45,934	7,433,499	3.504%
JNL/Mellon Real Estate Sector Fund	Welltower Inc.			Equity	86,227	11,039,643	5.204%
JNL/Mellon Real Estate Sector Fund	Regency Centers Corporation			Equity	23,592	1,719,850	0.811%
JNL/Mellon Real Estate Sector Fund	The Macerich Company			Equity	30,418	654,824	0.302%
JNL/Mellon Real Estate Sector Fund	LXP Industrial Trust			Equity	41,191	419,324	0.198%
JNL/Mellon Real Estate Sector Fund	First Industrial Realty Trust, Inc.			Equity	17,741	999,705	0.471%
JNL/Mellon Real Estate Sector Fund	EPR Properties			Equity	10,625	524,078	0.247%
JNL/Mellon Real Estate Sector Fund	UDR, Inc.			Equity	42,342	1,919,786	0.905%
JNL/Mellon Real Estate Sector Fund	BXP, Inc.			Equity	22,228	1,810,248	0.853%
JNL/Mellon Real Estate Sector Fund	Blackstone Mortgage Trust, Inc.			Equity	23,293	453,748	0.214%
JNL/Mellon Real Estate Sector Fund	Park Hotels & Resorts Inc.			Equity	29,587	424,573	0.200%
JNL/Mellon Real Estate Sector Fund	RITHM Capital Corp.			Equity	68,290	775,062	0.365%
JNL/Mellon Real Estate Sector Fund	Lamar Advertising Company			Equity	12,294	1,642,478	0.774%
JNL/Mellon Real Estate Sector Fund	SBA Communications Corporation			Equity	15,256	3,672,119	1.731%
JNL/Mellon Real Estate Sector Fund	VICI Properties Inc.			Equity	146,441	4,941,184	2.329%
JNL/Mellon Real Estate Sector Fund	National Storage Affiliates Trust			Equity	9,747	469,605	0.221%
JNL/Mellon Real Estate Sector Fund	Kite Realty Group LLC			Equity	30,974	822,669	0.388%
JNL/Mellon Real Estate Sector Fund	Innovative Industrial Properties, Inc.			Equity	3,963	540,950	0.255%
JNL/Mellon Real Estate Sector Fund	Cousins Properties Incorporated			Equity	20,034	590,602	0.278%
JNL/Mellon Real Estate Sector Fund	Healthpeak OP, LLC			Equity	99,979	2,286,520	1.078%
JNL/Mellon Real Estate Sector Fund	Howard Hughes Holdings Inc.			Equity	4,392	340,073	0.160%
JNL/Mellon Real Estate Sector Fund	SITE Centers Corp.			Equity	6,720	406,560	0.192%
Total Non Derivatives						212,147,102	
Derivatives							
JNL/Mellon Real Estate Sector Fund	S&P Real Estate Select Sector Index FUTURE - CASH SETTLED			Derivative	30	(7,048)	-0.003%
Total Derivatives						(7,048)	
Total All Investments						212,140,054	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon S&P 400 MidCap Index Fund	JNL Mid Cap Index Fund			Fund	294,975,033	3,530,851,144	100.000%
Total Non Derivatives						3,530,851,144	
Derivatives							
Total Derivatives						0	
Total All Investments						3,530,851,144	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon S&P 500 Index Fund	Cash			Cash Equivalent	6,371,260	6,371,260	0.042%
JNL/Mellon S&P 500 Index Fund	Mid-America Apartment Communities, Inc.			Equity	36,235	5,757,742	0.038%
JNL/Mellon S&P 500 Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	84,503,036	84,944,952	0.566%
JNL/Mellon S&P 500 Index Fund	Viatri Inc.			Equity	350,015	4,133,334	0.027%
JNL/Mellon S&P 500 Index Fund	Airbnb, Inc.			Equity	132,173	16,760,858	0.110%
JNL/Mellon S&P 500 Index Fund	Apa Corp.			Equity	100,581	2,460,211	0.016%
JNL/Mellon S&P 500 Index Fund	Seagate Technology Holdings Public Limited Company			Equity	59,334	6,540,387	0.043%
JNL/Mellon S&P 500 Index Fund	General Electric Company			Equity	338,303	63,891,905	0.418%
JNL/Mellon S&P 500 Index Fund	Federal Realty Investment Trust			Equity	25,907	2,878,528	0.019%
JNL/Mellon S&P 500 Index Fund	Constellation Energy Group, Inc.			Equity	98,602	25,601,894	0.168%
JNL/Mellon S&P 500 Index Fund	Warner Bros. Discovery, Inc.			Equity	708,182	5,842,502	0.038%
JNL/Mellon S&P 500 Index Fund	Jacobs Solutions Inc.			Equity	39,491	5,169,372	0.034%
JNL/Mellon S&P 500 Index Fund	GE HealthCare Technologies Inc.			Equity	127,243	11,941,756	0.078%
JNL/Mellon S&P 500 Index Fund	Dayforce, Inc.			Equity	51,689	3,165,251	0.021%
JNL/Mellon S&P 500 Index Fund	Yum! Brands, Inc.			Equity	89,034	12,438,940	0.081%
JNL/Mellon S&P 500 Index Fund	United Rentals, Inc.			Equity	20,405	16,522,541	0.108%
JNL/Mellon S&P 500 Index Fund	Verizon Communications Inc.			Equity	1,421,216	59,335,811	0.388%
JNL/Mellon S&P 500 Index Fund	ONEOK, Inc.			Equity	182,473	16,628,764	0.109%
JNL/Mellon S&P 500 Index Fund	Mettler-Toledo International Inc.			Equity	6,663	9,992,501	0.065%
JNL/Mellon S&P 500 Index Fund	Valero Energy Corporation			Equity	96,814	13,072,794	0.085%
JNL/Mellon S&P 500 Index Fund	FedEx Corporation			Equity	69,769	19,193,463	0.126%
JNL/Mellon S&P 500 Index Fund	Ball Corporation			Equity	95,177	6,463,470	0.042%
JNL/Mellon S&P 500 Index Fund	AFLAC Incorporated			Equity	157,254	17,580,997	0.115%
JNL/Mellon S&P 500 Index Fund	Avery Dennison Corporation			Equity	25,909	5,719,671	0.037%
JNL/Mellon S&P 500 Index Fund	Archer-Daniels-Midland Company			Equity	148,571	8,875,632	0.058%
JNL/Mellon S&P 500 Index Fund	Comcast Corporation			Equity	1,205,267	1,504,093	0.009%
JNL/Mellon S&P 500 Index Fund	International Business Machines Corporation			Equity	286,784	63,402,207	0.415%
JNL/Mellon S&P 500 Index Fund	Pinnacle West Capital Corporation			Equity	37,793	3,348,082	0.022%
JNL/Mellon S&P 500 Index Fund	Adobe Inc.			Equity	138,340	71,629,685	0.468%
JNL/Mellon S&P 500 Index Fund	Ameren Corporation			Equity	83,835	8,532,208	0.048%
JNL/Mellon S&P 500 Index Fund	W. R. Berkley Corporation			Equity	93,750	5,316,438	0.035%
JNL/Mellon S&P 500 Index Fund	Analog Devices, Inc.			Equity	155,267	35,737,805	0.234%
JNL/Mellon S&P 500 Index Fund	Albemarle Corporation			Equity	38,479	3,659,930	0.024%
JNL/Mellon S&P 500 Index Fund	Baxter International Inc.			Equity	158,622	6,068,878	0.040%
JNL/Mellon S&P 500 Index Fund	Boeing Company, The			Equity	181,364	27,539,309	0.180%
JNL/Mellon S&P 500 Index Fund	VeriSign, Inc.			Equity	26,179	4,972,963	0.033%
JNL/Mellon S&P 500 Index Fund	Berkshire Hathaway Inc.			Equity	570,525	262,589,837	1.717%
JNL/Mellon S&P 500 Index Fund	Take-Two Interactive Software, Inc.			Equity	51,071	7,850,123	0.051%
JNL/Mellon S&P 500 Index Fund	Autodesk, Inc.			Equity	67,701	18,650,271	0.123%
JNL/Mellon S&P 500 Index Fund	The AES Corporation			Equity	215,754	4,328,025	0.028%
JNL/Mellon S&P 500 Index Fund	Best Buy Co., Inc.			Equity	61,914	6,453,915	0.042%
JNL/Mellon S&P 500 Index Fund	Bristol-Myers Squibb Company			Equity	638,478	33,034,852	0.210%
JNL/Mellon S&P 500 Index Fund	Automatic Data Processing, Inc.			Equity	126,364	26,149,164	0.170%
JNL/Mellon S&P 500 Index Fund	Advanced Micro Devices, Inc.			Equity	506,194	83,056,312	0.543%
JNL/Mellon S&P 500 Index Fund	C.H. Robinson Worldwide, Inc.			Equity	34,813	3,863,895	0.025%
JNL/Mellon S&P 500 Index Fund	American Electric Power Company, Inc.			Equity	164,914	16,920,176	0.111%
JNL/Mellon S&P 500 Index Fund	AutoZone, Inc.			Equity	5,389	15,972,416	0.113%
JNL/Mellon S&P 500 Index Fund	Quanta Services, Inc.			Equity	46,194	13,772,741	0.090%
JNL/Mellon S&P 500 Index Fund	FirstEnergy Corp.			Equity	159,151	7,058,347	0.046%
JNL/Mellon S&P 500 Index Fund	American Express Company			Equity	175,225	47,521,020	0.311%
JNL/Mellon S&P 500 Index Fund	American International Group, Inc.			Equity	198,733	14,563,218	0.095%
JNL/Mellon S&P 500 Index Fund	Honeywell International Inc.			Equity	203,438	42,052,669	0.275%
JNL/Mellon S&P 500 Index Fund	ANSYS, Inc.			Equity	28,011	8,925,145	0.058%
JNL/Mellon S&P 500 Index Fund	BorgWarner Inc.			Equity	75,846	2,752,451	0.018%
JNL/Mellon S&P 500 Index Fund	Applied Materials, Inc.			Equity	258,029	52,134,759	0.341%
JNL/Mellon S&P 500 Index Fund	Allstate Corporation, The			Equity	83,179	15,851,427	0.104%
JNL/Mellon S&P 500 Index Fund	Boston Scientific Corporation			Equity	462,497	38,757,249	0.253%
JNL/Mellon S&P 500 Index Fund	Sempra			Equity	199,116	16,775,523	0.110%
JNL/Mellon S&P 500 Index Fund	Brown-Forman Corporation			Equity	53,860	2,661,843	0.017%
JNL/Mellon S&P 500 Index Fund	Abbott Laboratories			Equity	544,955	62,735,005	0.409%
JNL/Mellon S&P 500 Index Fund	Amgen Inc.			Equity	166,985	53,804,237	0.352%
JNL/Mellon S&P 500 Index Fund	AMETEK, Inc.			Equity	72,990	12,533,113	0.082%
JNL/Mellon S&P 500 Index Fund	Amazon.com, Inc.			Equity	2,914,392	543,038,661	3.552%
JNL/Mellon S&P 500 Index Fund	Ar Products and Chemicals, Inc.			Equity	68,231	20,315,098	0.133%
JNL/Mellon S&P 500 Index Fund	Hess Corporation			Equity	87,917	11,939,129	0.078%
JNL/Mellon S&P 500 Index Fund	Amphenol Corporation			Equity	374,639	24,473,293	0.160%
JNL/Mellon S&P 500 Index Fund	Becton, Dickinson and Company			Equity	90,932	21,923,705	0.143%
JNL/Mellon S&P 500 Index Fund	Apple Inc.			Equity	4,743,663	1,173,473,473	7.229%
JNL/Mellon S&P 500 Index Fund	Home Depot, Inc., The			Equity	309,382	125,361,586	0.820%
JNL/Mellon S&P 500 Index Fund	IDEX Corporation			Equity	24,261	5,203,985	0.034%
JNL/Mellon S&P 500 Index Fund	The Clorox Company			Equity	37,824	6,161,908	0.040%
JNL/Mellon S&P 500 Index Fund	M&T Bank Corporation			Equity	63,697	5,338,635	0.035%
JNL/Mellon S&P 500 Index Fund	Consolidated Edison, Inc.			Equity	107,833	11,228,650	0.073%
JNL/Mellon S&P 500 Index Fund	Eastman Chemical Company			Equity	37,129	4,486,666	0.027%
JNL/Mellon S&P 500 Index Fund	Hologic, Inc.			Equity	68,253	5,559,889	0.036%
JNL/Mellon S&P 500 Index Fund	Cisco Systems, Inc.			Equity	1,256,983	66,886,635	0.438%
JNL/Mellon S&P 500 Index Fund	Halliburton Company			Equity	277,999	8,075,871	0.053%
JNL/Mellon S&P 500 Index Fund	IDEXX Laboratories, Inc.			Equity	25,215	12,739,122	0.083%
JNL/Mellon S&P 500 Index Fund	Target Corporation			Equity	143,475	22,362,014	0.146%
JNL/Mellon S&P 500 Index Fund	Cspert, Inc.			Equity	278,790	14,638,596	0.096%
JNL/Mellon S&P 500 Index Fund	Biogen Inc.			Equity	46,673	9,047,094	0.059%
JNL/Mellon S&P 500 Index Fund	EOG Resources, Inc.			Equity	175,882	21,621,174	0.141%
JNL/Mellon S&P 500 Index Fund	Entergy Corporation			Equity	64,642	8,507,534	0.056%
JNL/Mellon S&P 500 Index Fund	FactSet Research Systems Inc.			Equity	12,190	5,605,572	0.037%
JNL/Mellon S&P 500 Index Fund	CroStar Group, Inc.			Equity	132,636	12,006,960	0.078%
JNL/Mellon S&P 500 Index Fund	The Interpublic Group of Companies, Inc.			Equity	118,877	3,760,080	0.025%
JNL/Mellon S&P 500 Index Fund	Deere & Company			Equity	79,958	33,486,410	0.219%
JNL/Mellon S&P 500 Index Fund	Marriott International, Inc.			Equity	72,042	17,369,641	0.117%
JNL/Mellon S&P 500 Index Fund	Moody's Corporation			Equity	49,161	23,531,003	0.153%
JNL/Mellon S&P 500 Index Fund	CMS Energy Corporation			Equity	94,005	6,639,573	0.043%
JNL/Mellon S&P 500 Index Fund	Fifth Third Bancorp			Equity	210,640	9,101,754	0.060%
JNL/Mellon S&P 500 Index Fund	Freeport-McMoRan Inc.			Equity	442,524	22,090,798	0.144%
JNL/Mellon S&P 500 Index Fund	Deckers Outdoor Corporation			Equity	49,878	7,953,047	0.052%
JNL/Mellon S&P 500 Index Fund	Hormel Foods Corporation			Equity	93,528	2,964,838	0.019%
JNL/Mellon S&P 500 Index Fund	Cummins Inc.			Equity	42,475	13,752,980	0.090%
JNL/Mellon S&P 500 Index Fund	Assurant, Inc.			Equity	17,287	3,437,693	0.022%
JNL/Mellon S&P 500 Index Fund	NRG Energy, Inc.			Equity	66,790	6,084,569	0.040%
JNL/Mellon S&P 500 Index Fund	Fair Isaac Corporation			Equity	7,749	15,060,336	0.098%
JNL/Mellon S&P 500 Index Fund	Hasbro, Inc.			Equity	38,731	2,801,026	0.018%
JNL/Mellon S&P 500 Index Fund	Fastenal Company			Equity	179,466	12,817,462	0.084%
JNL/Mellon S&P 500 Index Fund	Erie Indemnity Company			Equity	6,763	3,661,059	0.024%
JNL/Mellon S&P 500 Index Fund	Juniper Networks, Inc.			Equity	100,025	3,898,975	0.025%
JNL/Mellon S&P 500 Index Fund	Coterra Energy Inc.			Equity	240,440	5,758,538	0.038%
JNL/Mellon S&P 500 Index Fund	Intel Corporation			Equity	1,329,004	31,178,434	0.204%
JNL/Mellon S&P 500 Index Fund	D.R. Horton, Inc.			Equity	89,765	17,124,469	0.112%
JNL/Mellon S&P 500 Index Fund	The Estee Lauder Companies Inc.			Equity	71,761	7,153,854	0.047%
JNL/Mellon S&P 500 Index Fund	JPMorgan Chase & Co.			Equity	887,686	187,177,470	1.224%
JNL/Mellon S&P 500 Index Fund	Constellation Brands, Inc.			Equity	48,288	12,443,335	0.081%
JNL/Mellon S&P 500 Index Fund	Campbell Soup Company			Equity	63,829	3,122,515	0.020%
JNL/Mellon S&P 500 Index Fund	Caterpillar Inc.			Equity	150,078	58,698,507	0.384%
JNL/Mellon S&P 500 Index Fund	NVIDIA Corporation			Equity	7,675,154	932,147,912	6.066%
JNL/Mellon S&P 500 Index Fund	Darden Restaurants, Inc.			Equity	37,781	6,200,996	0.041%
JNL/Mellon S&P 500 Index Fund	Amcor Energy Corporation			Equity	47,142	6,539,067	0.043%
JNL/Mellon S&P 500 Index Fund	Expeditors International of Washington, Inc.			Equity	43,989	5,760,155	0.038%
JNL/Mellon S&P 500 Index Fund	Intuit Inc.			Equity	87,194	54,147,474	0.354%
JNL/Mellon S&P 500 Index Fund	PMC Corporation			Equity	41,237	2,743,085	0.018%
JNL/Mellon S&P 500 Index Fund	International Flavors & Fragrances Inc.			Equity	79,860	8,411,854	0.055%
JNL/Mellon S&P 500 Index Fund	General Dynamics Corporation			Equity	80,457	24,314,105	0.159%
JNL/Mellon S&P 500 Index Fund	Gilead Sciences, Inc.			Equity	389,988	32,696,594	0.214%
JNL/Mellon S&P 500 Index Fund	Walt Disney Company, The			Equity	561,580	54,018,380	0.353%
JNL/Mellon S&P 500 Index Fund	General Mills, Inc.			Equity	176,041	13,000,628	0.085%
JNL/Mellon S&P 500 Index Fund	Church & Dwight Co., Inc.			Equity	76,559	8,017,268	0.052%
JNL/Mellon S&P 500 Index Fund	Equifax Inc.			Equity	38,410	11,287,163	0.074%
JNL/Mellon S&P 500 Index Fund	CenterPoint Energy, Inc.			Equity	202,768	5,965,435	0.039%
JNL/Mellon S&P 500 Index Fund	McKesson Corporation			Equity	40,773	20,187,935	0.132%
JNL/Mellon S&P 500 Index Fund	Dollar Tree, Inc.			Equity	65,360	4,596,119	0.030%
JNL/Mellon S&P 500 Index Fund	Danaher Corporation			Equity	200,543	55,809,111	0.365%
JNL/Mellon S&P 500 Index Fund	Cognizant Technology Solutions Corporation			Equity	156,396	12,070,643	0.079%
JNL/Mellon S&P 500 Index Fund	Salesforce, Inc.			Equity	301,826	82,734,610	0.541%
JNL/Mellon S&P 500 Index Fund	Illinois Tool Works Inc.			Equity	85,213	22,459,590	0.147%
JNL/Mellon S&P 500 Index Fund	eBay Inc.			Equity	148,098	9,642,661	0.063%
JNL/Mellon S&P 500 Index Fund	Arthur J. Gallagher & Co.			Equity	68,340	19,228,826	0.126%
JNL/Mellon S&P 500 Index Fund	Genuine Parts Company			Equity	42,382	5,962,300	0.039%
JNL/Mellon S&P 500 Index Fund	Omnicom Group Inc.			Equity	59,982	6,243,526	0.041%
JNL/Mellon S&P 500 Index Fund	W.W. Grainger, Inc.			Equity	13,733	14,265,978	0.093%
JNL/Mellon S&P 500 Index Fund	Franklin Resources, Inc.			Equity	90,787	1,857,502	0.012%
JNL/Mellon S&P 500 Index Fund	Ecobab Inc.			Equity	77,930	19,943,628	0.130%
JNL/Mellon S&P 500 Index Fund	EQT Corporation			Equity	168,211	6,163,251	0.040%
JNL/Mellon S&P 500 Index Fund	Humana Inc.			Equity	37,517	11,016,337	0.072%
JNL/Mellon S&P 500 Index Fund	Fiserv, Inc.			Equity	179,625	32,269,631	0.211%
JNL/Mellon S&P 500 Index Fund	NextEra Energy, Inc.			Equity	64,010	54,184,575	0.354%
JNL/Mellon S&P 500 Index Fund	The Hershey Company			Equity	47,292	9,069,660	0.059%
JNL/Mellon S&P 500 Index Fund	Exxon Mobil Corporation			Equity	1,386,154</		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon S&P 500 Index Fund	CSX Corporation			Equity	598,638	20,670,970	0.135%
JNL/Mellon S&P 500 Index Fund	Republic Services, Inc.			Equity	64,122	12,978,262	0.084%
JNL/Mellon S&P 500 Index Fund	Conagra Brands, Inc.			Equity	156,404	5,086,258	0.033%
JNL/Mellon S&P 500 Index Fund	Colgate-Palmolive Company			Equity	257,544	26,735,643	0.175%
JNL/Mellon S&P 500 Index Fund	Jabil Inc.			Equity	33,017	3,956,427	0.026%
JNL/Mellon S&P 500 Index Fund	Gardner, Inc.			Equity	24,271	12,299,572	0.080%
JNL/Mellon S&P 500 Index Fund	DTE Energy Company			Equity	67,032	8,675,925	0.057%
JNL/Mellon S&P 500 Index Fund	Coca-Cola Company, The			Equity	1,207,646	87,371,675	0.571%
JNL/Mellon S&P 500 Index Fund	Revvity, Inc.			Equity	37,151	4,746,040	0.031%
JNL/Mellon S&P 500 Index Fund	Huntington Bancshares Incorporated			Equity	443,348	6,585,935	0.043%
JNL/Mellon S&P 500 Index Fund	Dowr Corporation			Equity	45,998	8,436,177	0.055%
JNL/Mellon S&P 500 Index Fund	Emerson Electric Co.			Equity	180,689	19,761,956	0.129%
JNL/Mellon S&P 500 Index Fund	J.B. Hunt Transport Services, Inc.			Equity	26,852	4,627,405	0.030%
JNL/Mellon S&P 500 Index Fund	Jack Henry & Associates, Inc.			Equity	23,090	4,076,309	0.027%
JNL/Mellon S&P 500 Index Fund	PS, Inc.			Equity	19,459	4,294,872	0.028%
JNL/Mellon S&P 500 Index Fund	International Paper Company			Equity	107,011	5,227,487	0.034%
JNL/Mellon S&P 500 Index Fund	Cincinnati Financial Corporation			Equity	50,442	6,907,023	0.045%
JNL/Mellon S&P 500 Index Fund	Cintas Corporation			Equity	108,424	22,322,333	0.146%
JNL/Mellon S&P 500 Index Fund	Corning Incorporated			Equity	247,350	11,167,863	0.072%
JNL/Mellon S&P 500 Index Fund	Citigroup Inc.			Equity	596,956	37,369,446	0.244%
JNL/Mellon S&P 500 Index Fund	Henry Schein, Inc.			Equity	41,319	3,012,155	0.020%
JNL/Mellon S&P 500 Index Fund	Morgan Stanley			Equity	388,551	40,502,603	0.265%
JNL/Mellon S&P 500 Index Fund	Bank of America Corporation			Equity	2,106,247	83,575,861	0.547%
JNL/Mellon S&P 500 Index Fund	Roper Technologies, Inc.			Equity	33,461	18,619,039	0.122%
JNL/Mellon S&P 500 Index Fund	Carnival Corporation			Equity	324,824	6,002,748	0.039%
JNL/Mellon S&P 500 Index Fund	Packaging Corporation of America			Equity	26,538	5,749,458	0.038%
JNL/Mellon S&P 500 Index Fund	Ross Stores, Inc.			Equity	101,011	15,203,166	0.099%
JNL/Mellon S&P 500 Index Fund	BlackRock, Inc.			Equity	43,686	41,480,294	0.271%
JNL/Mellon S&P 500 Index Fund	NiSource Inc.			Equity	129,992	4,504,223	0.029%
JNL/Mellon S&P 500 Index Fund	Masco Corporation			Equity	66,912	5,616,593	0.037%
JNL/Mellon S&P 500 Index Fund	Charles River Laboratories International, Inc.			Equity	16,728	3,295,111	0.022%
JNL/Mellon S&P 500 Index Fund	MetLife, Inc.			Equity	185,749	15,320,578	0.100%
JNL/Mellon S&P 500 Index Fund	Paychex, Inc.			Equity	99,970	13,414,974	0.088%
JNL/Mellon S&P 500 Index Fund	XCEL Energy Inc.			Equity	174,723	11,505,073	0.075%
JNL/Mellon S&P 500 Index Fund	Pool Corporation			Equity	11,646	4,388,213	0.029%
JNL/Mellon S&P 500 Index Fund	Nucor Corporation			Equity	76,443	88,880,383	0.446%
JNL/Mellon S&P 500 Index Fund	U.S. Bancorp			Equity	492,128	22,751,077	0.149%
JNL/Mellon S&P 500 Index Fund	Royal Caribbean Cruises Ltd.			Equity	71,693	12,744,148	0.083%
JNL/Mellon S&P 500 Index Fund	Cosco Wholesale Corporation			Equity	136,387	122,662,843	0.802%
JNL/Mellon S&P 500 Index Fund	T. Rowe Price Group, Inc.			Equity	70,767	7,098,674	0.046%
JNL/Mellon S&P 500 Index Fund	Travelers Companies, Inc., The			Equity	71,607	16,764,631	0.110%
JNL/Mellon S&P 500 Index Fund	Schlumberger Limited			Equity	444,236	18,760,727	0.123%
JNL/Mellon S&P 500 Index Fund	Incyte Corporation			Equity	50,421	3,322,828	0.022%
JNL/Mellon S&P 500 Index Fund	Johnson & Johnson			Equity	751,056	15,161,135	0.098%
JNL/Mellon S&P 500 Index Fund	McCormick & Company, Incorporated			Equity	79,247	6,522,028	0.043%
JNL/Mellon S&P 500 Index Fund	Lam Research Corporation			Equity	40,345	33,019,349	0.216%
JNL/Mellon S&P 500 Index Fund	Global Payments Inc.			Equity	79,636	8,156,276	0.053%
JNL/Mellon S&P 500 Index Fund	KLA Corporation			Equity	42,334	22,863,873	0.148%
JNL/Mellon S&P 500 Index Fund	Lockheed Martin Corporation			Equity	65,916	38,531,857	0.252%
JNL/Mellon S&P 500 Index Fund	KeyCorp			Equity	297,874	4,989,390	0.033%
JNL/Mellon S&P 500 Index Fund	NetApp, Inc.			Equity	64,121	7,919,585	0.052%
JNL/Mellon S&P 500 Index Fund	Lennar Corporation			Equity	70,380	14,319,722	0.094%
JNL/Mellon S&P 500 Index Fund	PulteGroup, Inc.			Equity	66,995	9,629,191	0.063%
JNL/Mellon S&P 500 Index Fund	Raymond James Financial, Inc.			Equity	56,930	6,971,648	0.046%
JNL/Mellon S&P 500 Index Fund	Exelon Corporation			Equity	306,988	12,448,363	0.081%
JNL/Mellon S&P 500 Index Fund	Arch Capital Group Ltd.			Equity	116,180	12,990,218	0.085%
JNL/Mellon S&P 500 Index Fund	Merck & Co., Inc.			Equity	789,070	90,321,148	0.591%
JNL/Mellon S&P 500 Index Fund	On Semiconductor Corporation			Equity	135,508	9,839,236	0.064%
JNL/Mellon S&P 500 Index Fund	Occidental Petroleum Corporation			Equity	213,617	11,056,816	0.072%
JNL/Mellon S&P 500 Index Fund	CVS Health Corporation			Equity	390,836	24,575,768	0.161%
JNL/Mellon S&P 500 Index Fund	McDonald's Corporation			Equity	223,810	15,990,454	0.104%
JNL/Mellon S&P 500 Index Fund	Public Service Enterprise Group Incorporated			Equity	156,292	13,942,809	0.091%
JNL/Mellon S&P 500 Index Fund	Zimmer Biomet Holdings, Inc.			Equity	63,326	6,851,240	0.045%
JNL/Mellon S&P 500 Index Fund	Oracle Corporation			Equity	499,737	85,155,185	0.557%
JNL/Mellon S&P 500 Index Fund	Loews Corporation			Equity	58,806	7,689,614	0.050%
JNL/Mellon S&P 500 Index Fund	United Parcel Service, Inc.			Equity	228,217	31,115,106	0.203%
JNL/Mellon S&P 500 Index Fund	Agilent Technologies, Inc.			Equity	91,586	13,598,689	0.089%
JNL/Mellon S&P 500 Index Fund	Qualcomm Incorporated			Equity	349,237	59,387,752	0.389%
JNL/Mellon S&P 500 Index Fund	Marsh & McLennan Companies, Inc.			Equity	152,875	14,004,884	0.223%
JNL/Mellon S&P 500 Index Fund	Kellanova			Equity	84,582	6,826,613	0.045%
JNL/Mellon S&P 500 Index Fund	Hartford Financial Services Group, Inc., The			Equity	86,012	10,160,101	0.066%
JNL/Mellon S&P 500 Index Fund	The PNC Financial Services Group, Inc.			Equity	124,770	23,063,735	0.151%
JNL/Mellon S&P 500 Index Fund	PepsiCo, Inc.			Equity	425,774	72,403,719	0.474%
JNL/Mellon S&P 500 Index Fund	Mohawk Industries, Inc.			Equity	16,447	2,642,704	0.017%
JNL/Mellon S&P 500 Index Fund	Quest Diagnostics Incorporated			Equity	35,733	5,547,548	0.036%
JNL/Mellon S&P 500 Index Fund	PACCAR Inc			Equity	166,387	16,419,069	0.107%
JNL/Mellon S&P 500 Index Fund	Fidelity National Information Services, Inc.			Equity	172,915	14,480,631	0.094%
JNL/Mellon S&P 500 Index Fund	Newmont Corporation			Equity	361,937	19,345,533	0.127%
JNL/Mellon S&P 500 Index Fund	Altria Group, Inc.			Equity	529,753	27,590,660	0.180%
JNL/Mellon S&P 500 Index Fund	Parker-Hannifin Corporation			Equity	40,518	25,600,083	0.167%
JNL/Mellon S&P 500 Index Fund	Kroger Co., The			Equity	198,583	11,379,808	0.074%
JNL/Mellon S&P 500 Index Fund	ConocoPhillips			Equity	361,071	38,013,568	0.249%
JNL/Mellon S&P 500 Index Fund	Norfolk Southern Corporation			Equity	70,174	17,438,239	0.114%
JNL/Mellon S&P 500 Index Fund	Regeneron Pharmaceuticals, Inc.			Equity	33,234	34,936,910	0.228%
JNL/Mellon S&P 500 Index Fund	PPL Corporation			Equity	230,232	7,675,359	0.050%
JNL/Mellon S&P 500 Index Fund	Nordson Corporation			Equity	15,990	4,199,454	0.027%
JNL/Mellon S&P 500 Index Fund	MGM Resorts International			Equity	61,095	2,388,204	0.016%
JNL/Mellon S&P 500 Index Fund	Rockwell Automation, Inc.			Equity	35,923	9,643,889	0.063%
JNL/Mellon S&P 500 Index Fund	Martin Marietta Materials, Inc.			Equity	19,274	10,374,231	0.068%
JNL/Mellon S&P 500 Index Fund	Kimberly-Clark Corporation			Equity	106,817	5,880,689	0.038%
JNL/Mellon S&P 500 Index Fund	Dominion Energy, Inc.			Equity	265,394	15,337,119	0.100%
JNL/Mellon S&P 500 Index Fund	Eli Lilly and Company			Equity	246,121	218,048,439	1.426%
JNL/Mellon S&P 500 Index Fund	Edwards Lifesciences Corporation			Equity	190,854	12,595,115	0.082%
JNL/Mellon S&P 500 Index Fund	Goldman Sachs Group, Inc., The			Equity	99,529	9,852,919	0.219%
JNL/Mellon S&P 500 Index Fund	Pfizer Inc.			Equity	1,778,650	51,474,131	0.337%
JNL/Mellon S&P 500 Index Fund	Procter & Gamble Company, The			Equity	734,460	127,208,472	0.832%
JNL/Mellon S&P 500 Index Fund	Charles Schwab Corporation, The			Equity	469,467	30,426,156	0.199%
JNL/Mellon S&P 500 Index Fund	NVR, Inc.			Equity	970	9,517,446	0.062%
JNL/Mellon S&P 500 Index Fund	Microchip Technology Incorporated			Equity	169,825	13,635,249	0.089%
JNL/Mellon S&P 500 Index Fund	Old Dominion Freight Line, Inc.			Equity	55,656	11,055,508	0.072%
JNL/Mellon S&P 500 Index Fund	Brown & Brown, Inc.			Equity	72,116	7,471,218	0.049%
JNL/Mellon S&P 500 Index Fund	Microsoft Corporation			Equity	23,094	997,096,148	6.526%
JNL/Mellon S&P 500 Index Fund	Micron Technology, Inc.			Equity	347,378	36,026,572	0.236%
JNL/Mellon S&P 500 Index Fund	Akamai Technologies, Inc.			Equity	45,617	4,605,036	0.030%
JNL/Mellon S&P 500 Index Fund	3M Company			Equity	172,542	23,586,491	0.154%
JNL/Mellon S&P 500 Index Fund	PG&E Corporation			Equity	665,965	13,170,810	0.086%
JNL/Mellon S&P 500 Index Fund	Everest Group, Ltd.			Equity	13,962	5,470,730	0.036%
JNL/Mellon S&P 500 Index Fund	Capital One Financial Corporation			Equity	121,057	18,125,865	0.119%
JNL/Mellon S&P 500 Index Fund	Northern Trust Corporation			Equity	57,372	5,214,694	0.034%
JNL/Mellon S&P 500 Index Fund	Devon Energy Corporation			Equity	202,475	7,920,822	0.052%
JNL/Mellon S&P 500 Index Fund	The Progressive Corporation			Equity	182,686	46,358,399	0.303%
JNL/Mellon S&P 500 Index Fund	Telefonos Tecnologias Incorporated			Equity	13,959	6,109,296	0.040%
JNL/Mellon S&P 500 Index Fund	NIKE, Inc.			Equity	373,112	33,123,907	0.217%
JNL/Mellon S&P 500 Index Fund	Low's Companies, Inc.			Equity	177,294	48,020,080	0.314%
JNL/Mellon S&P 500 Index Fund	Norropf Grumman Corporation			Equity	42,759	22,579,785	0.148%
JNL/Mellon S&P 500 Index Fund	Ford Motor Company			Equity	1,250,875	13,209,240	0.086%
JNL/Mellon S&P 500 Index Fund	PPG Industries, Inc.			Equity	74,156	9,822,704	0.064%
JNL/Mellon S&P 500 Index Fund	Wells Fargo & Company			Equity	1,061,970	59,990,885	0.392%
JNL/Mellon S&P 500 Index Fund	ResMed Inc.			Equity	46,402	11,397,656	0.074%
JNL/Mellon S&P 500 Index Fund	Rollins, Inc.			Equity	75,439	3,815,705	0.025%
JNL/Mellon S&P 500 Index Fund	Align Technology, Inc.			Equity	22,377	5,690,919	0.037%
JNL/Mellon S&P 500 Index Fund	Texes Instruments Incorporated			Equity	285,785	59,034,607	0.386%
JNL/Mellon S&P 500 Index Fund	Tractor Supply Company			Equity	34,314	9,982,972	0.065%
JNL/Mellon S&P 500 Index Fund	Snap-on Incorporated			Equity	15,867	4,596,829	0.030%
JNL/Mellon S&P 500 Index Fund	Legacy Vulcan Corp.			Equity	41,115	10,296,429	0.067%
JNL/Mellon S&P 500 Index Fund	West Pharmaceutical Services, Inc.			Equity	22,589	6,780,314	0.044%
JNL/Mellon S&P 500 Index Fund	LQX Corporation			Equity	83,542	9,334,997	0.062%
JNL/Mellon S&P 500 Index Fund	Trimble Inc.			Equity	75,951	4,715,798	0.031%
JNL/Mellon S&P 500 Index Fund	Stryker Corporation			Equity	106,143	38,430,135	0.251%
JNL/Mellon S&P 500 Index Fund	Western Digital Corporation			Equity	100,396	6,866,043	0.045%
JNL/Mellon S&P 500 Index Fund	Marathon Oil Corporation			Equity	180,701	4,812,668	0.031%
JNL/Mellon S&P 500 Index Fund	State Street Corporation			Equity	85,353	8,435,880	0.055%
JNL/Mellon S&P 500 Index Fund	Textron Inc.			Equity	58,727	5,203,212	0.034%
JNL/Mellon S&P 500 Index Fund	Vertex Pharmaceuticals Incorporated			Equity	80,530	37,452,892	0.245%
JNL/Mellon S&P 500 Index Fund	Nasdaq, Inc.			Equity	131,257	9,583,074	0.063%
JNL/Mellon S&P 500 Index Fund	Zebra Technologies Corporation			Equity	15,890	5,880,689	0.038%
JNL/Mellon S&P 500 Index Fund	DeVita Inc.			Equity	14,834	2,431,738	0.016%
JNL/Mellon S&P 500 Index Fund	Principal Financial Group, Inc.			Equity	67,160	5,769,044	0.038%
JNL/Mellon S&P 500 Index Fund	Prudential Financial, Inc.			Equity	113,613	13,758,534	0.090%
JNL/Mellon S&P 500 Index Fund	Union Pacific Corporation			Equity	188,832	8,435,880	0.055%
JNL/Mellon S&P 500 Index Fund	Thermo Fisher Scientific, Inc.			Equity	118,846	73,561,298	0.481%
JNL/Mellon S&P 500 Index Fund	Walmart Inc.			Equity	1,351,441	109,128,861	0.714%
JNL/Mellon S&P 500 Index Fund	Chevron Corporation			Equity	530,675	78,152,527	0.511%
JNL/Mellon S&P 500 Index Fund	Tyler Technologies, Inc.			Equity	13,610	7,844,429	0.052%
JNL/Mellon S&P 500 Index Fund	The Southern Company			Equity	342,544	30,890,618	0.202%
JNL/Mellon S&P 500 Index Fund	Skyworks Solutions, Inc.			Equity	5		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon S&P 500 Index Fund	Cencora, Inc.			Equity	52,336	11,779,787	0.077%
JNL/Mellon S&P 500 Index Fund	Centene Corporation			Equity	161,324	12,144,471	0.079%
JNL/Mellon S&P 500 Index Fund	UnitedHealth Group Incorporated			Equity	287,885	168,320,602	1.101%
JNL/Mellon S&P 500 Index Fund	Intuitive Surgical, Inc.			Equity	110,987	54,524,583	0.357%
JNL/Mellon S&P 500 Index Fund	AT&T Inc.			Equity	2,239,015	49,758,330	0.322%
JNL/Mellon S&P 500 Index Fund	The Sherrin-Williams Company			Equity	71,948	27,460,393	0.180%
JNL/Mellon S&P 500 Index Fund	Southwest Airlines Co.			Equity	191,423	5,671,883	0.037%
JNL/Mellon S&P 500 Index Fund	Universal Health Services, Inc.			Equity	19,157	4,387,145	0.029%
JNL/Mellon S&P 500 Index Fund	Wynn Resorts, Limited			Equity	30,745	2,947,831	0.019%
JNL/Mellon S&P 500 Index Fund	Starbucks Corporation			Equity	354,291	34,539,830	0.226%
JNL/Mellon S&P 500 Index Fund	Edison International			Equity	119,263	10,386,615	0.068%
JNL/Mellon S&P 500 Index Fund	The J. M. Smucker Company			Equity	34,929	4,229,902	0.028%
JNL/Mellon S&P 500 Index Fund	Waste Management, Inc.			Equity	115,304	23,937,110	0.157%
JNL/Mellon S&P 500 Index Fund	Synopsys, Inc.			Equity	47,528	24,067,704	0.157%
JNL/Mellon S&P 500 Index Fund	Waters Corporation			Equity	19,110	6,517,608	0.043%
JNL/Mellon S&P 500 Index Fund	Teleflex Incorporated			Equity	15,045	3,720,929	0.024%
JNL/Mellon S&P 500 Index Fund	Williams Companies, Inc., The			Equity	383,892	17,524,670	0.115%
JNL/Mellon S&P 500 Index Fund	Alliant Energy Corporation			Equity	81,566	4,950,241	0.032%
JNL/Mellon S&P 500 Index Fund	Steel Dynamics, Inc.			Equity	47,321	5,987,999	0.039%
JNL/Mellon S&P 500 Index Fund	Sysco Corporation			Equity	154,437	12,055,352	0.079%
JNL/Mellon S&P 500 Index Fund	CME Group Inc.			Equity	112,166	24,749,428	0.162%
JNL/Mellon S&P 500 Index Fund	Tyson Foods, Inc.			Equity	88,356	5,262,483	0.034%
JNL/Mellon S&P 500 Index Fund	Tetradyne, Inc.			Equity	49,466	6,624,961	0.043%
JNL/Mellon S&P 500 Index Fund	Netflix, Inc.			Equity	133,899	94,970,544	0.621%
JNL/Mellon S&P 500 Index Fund	TJX Companies, Inc., The			Equity	348,278	40,936,596	0.268%
JNL/Mellon S&P 500 Index Fund	CarlMax, Inc.			Equity	46,782	3,619,991	0.024%
JNL/Mellon S&P 500 Index Fund	Moderna, Inc.			Equity	102,413	6,844,261	0.045%
JNL/Mellon S&P 500 Index Fund	Las Vegas Sands Corp.			Equity	111,789	5,627,458	0.037%
JNL/Mellon S&P 500 Index Fund	Regions Financial Corporation			Equity	296,070	6,981,331	0.046%
JNL/Mellon S&P 500 Index Fund	MarketAxess Holdings Inc.			Equity	12,700	3,253,740	0.021%
JNL/Mellon S&P 500 Index Fund	Mowditt Power Systems, Inc.			Equity	15,253	14,213,040	0.092%
JNL/Mellon S&P 500 Index Fund	Dominio's Pizza, Inc.			Equity	10,885	4,582,074	0.031%
JNL/Mellon S&P 500 Index Fund	Ameriprise Financial, Inc.			Equity	31,010	14,568,808	0.095%
JNL/Mellon S&P 500 Index Fund	Delta Air Lines, Inc.			Equity	206,707	10,498,649	0.069%
JNL/Mellon S&P 500 Index Fund	MasterCard Incorporated			Equity	257,698	127,251,272	0.832%
JNL/Mellon S&P 500 Index Fund	Discover Financial Services			Equity	79,619	21,072,977	0.138%
JNL/Mellon S&P 500 Index Fund	Chipotle Mexican Grill, Inc.			Equity	430,494	24,805,064	0.162%
JNL/Mellon S&P 500 Index Fund	First Solar, Inc.			Equity	32,007	7,983,826	0.052%
JNL/Mellon S&P 500 Index Fund	Live Nation Entertainment, Inc.			Equity	42,404	4,642,814	0.030%
JNL/Mellon S&P 500 Index Fund	Inuslet Corporation			Equity	22,881	2,525,936	0.016%
JNL/Mellon S&P 500 Index Fund	DexCom, Inc.			Equity	124,727	8,361,698	0.055%
JNL/Mellon S&P 500 Index Fund	Celanese Corporation			Equity	31,576	4,293,073	0.028%
JNL/Mellon S&P 500 Index Fund	Super Micro Computer, Inc.			Equity	15,360	6,395,904	0.042%
JNL/Mellon S&P 500 Index Fund	Inveco Ltd.			Equity	130,761	12,996,744	0.084%
JNL/Mellon S&P 500 Index Fund	Molson Coors Beverage Company			Equity	58,351	3,356,350	0.022%
JNL/Mellon S&P 500 Index Fund	MSC Inc.			Equity	24,778	14,443,840	0.094%
JNL/Mellon S&P 500 Index Fund	Lululemon Athletica Inc.			Equity	36,259	9,838,880	0.064%
JNL/Mellon S&P 500 Index Fund	Builders FirstSource, Inc.			Equity	37,297	7,230,267	0.047%
JNL/Mellon S&P 500 Index Fund	Broadridge Financial Solutions, Inc.			Equity	35,259	7,615,241	0.050%
JNL/Mellon S&P 500 Index Fund	Bank of New York Mellon Corporation, The			Equity	224,921	16,162,823	0.106%
JNL/Mellon S&P 500 Index Fund	Ulta Beauty, Inc.			Equity	15,273	5,943,030	0.039%
JNL/Mellon S&P 500 Index Fund	CF Industries Holdings, Inc.			Equity	58,553	6,034,276	0.039%
JNL/Mellon S&P 500 Index Fund	TransDigm Group Incorporated			Equity	17,576	25,083,237	0.164%
JNL/Mellon S&P 500 Index Fund	Marathon Petroleum Corporation			Equity	104,421	17,011,225	0.111%
JNL/Mellon S&P 500 Index Fund	CBCE Global Markets, Inc.			Equity	32,258	6,608,696	0.043%
JNL/Mellon S&P 500 Index Fund	NXP Semiconductors N.V.			Equity	78,367	18,890,947	0.124%
JNL/Mellon S&P 500 Index Fund	Huntington Ingalls Industries, Inc.			Equity	12,637	3,340,970	0.022%
JNL/Mellon S&P 500 Index Fund	Tesla Inc.			Equity	865,670	226,485,242	1.481%
JNL/Mellon S&P 500 Index Fund	Accenture Public Limited Company			Equity	195,431	69,080,950	0.452%
JNL/Mellon S&P 500 Index Fund	Stanley Black & Decker, Inc.			Equity	48,892	5,494,806	0.036%
JNL/Mellon S&P 500 Index Fund	O'Reilly Automotive			Equity	19,298	12,072,977	0.078%
JNL/Mellon S&P 500 Index Fund	Motorola Solutions, Inc.			Equity	52,402	23,612,865	0.154%
JNL/Mellon S&P 500 Index Fund	Fortinet, Inc.			Equity	198,436	15,388,712	0.101%
JNL/Mellon S&P 500 Index Fund	Targa Resources Corp.			Equity	66,619	9,860,278	0.064%
JNL/Mellon S&P 500 Index Fund	HCA Healthcare, Inc.			Equity	57,973	23,561,966	0.154%
JNL/Mellon S&P 500 Index Fund	Ralph Lauren Corporation			Equity	12,366	2,407,598	0.016%
JNL/Mellon S&P 500 Index Fund	Expedia Group, Inc.			Equity	40,670	6,019,973	0.039%
JNL/Mellon S&P 500 Index Fund	American Water Works Company, Inc.			Equity	60,703	8,877,207	0.058%
JNL/Mellon S&P 500 Index Fund	General Motors Company			Equity	354,737	15,956,407	0.104%
JNL/Mellon S&P 500 Index Fund	Aptiv PLC			Equity	78,880	5,680,149	0.037%
JNL/Mellon S&P 500 Index Fund	Phillips 66			Equity	131,929	17,342,067	0.113%
JNL/Mellon S&P 500 Index Fund	Dollar General Corporation			Equity	71,065	6,009,967	0.039%
JNL/Mellon S&P 500 Index Fund	Lyonell/Basell Industries N.V.			Equity	82,917	8,261,267	0.054%
JNL/Mellon S&P 500 Index Fund	Xylem Inc.			Equity	75,007	10,128,195	0.066%
JNL/Mellon S&P 500 Index Fund	United Airlines Holdings, Inc.			Equity	105,334	6,010,358	0.039%
JNL/Mellon S&P 500 Index Fund	Visa Inc.			Equity	520,176	143,022,391	0.935%
JNL/Mellon S&P 500 Index Fund	Verisk Analytics, Inc.			Equity	45,647	12,331,570	0.080%
JNL/Mellon S&P 500 Index Fund	Mosaic Company, The			Equity	109,535	2,933,347	0.019%
JNL/Mellon S&P 500 Index Fund	Generac Holdings Inc.			Equity	20,404	3,241,788	0.021%
JNL/Mellon S&P 500 Index Fund	Garmin Ltd.			Equity	47,255	8,318,298	0.054%
JNL/Mellon S&P 500 Index Fund	Chubb Limited			Equity	117,205	33,916,430	0.224%
JNL/Mellon S&P 500 Index Fund	EPAM Systems, Inc.			Equity	18,743	3,720,419	0.024%
JNL/Mellon S&P 500 Index Fund	Kinder Morgan, Inc.			Equity	609,093	13,454,864	0.088%
JNL/Mellon S&P 500 Index Fund	Philip Morris International Inc.			Equity	484,988	59,532,277	0.389%
JNL/Mellon S&P 500 Index Fund	Meta Platforms, Inc.			Equity	681,631	390,192,850	2.552%
JNL/Mellon S&P 500 Index Fund	Duke Energy Corporation			Equity	242,323	27,699,842	0.183%
JNL/Mellon S&P 500 Index Fund	ServiceNow, Inc.			Equity	64,481	57,671,162	0.377%
JNL/Mellon S&P 500 Index Fund	Diamondback Energy, Inc.			Equity	55,753	9,611,817	0.063%
JNL/Mellon S&P 500 Index Fund	CDW Corp.			Equity	41,558	9,404,575	0.062%
JNL/Mellon S&P 500 Index Fund	Willis Towers Watson Public Limited Company			Equity	31,629	9,038,186	0.059%
JNL/Mellon S&P 500 Index Fund	Zoetis Inc.			Equity	140,651	27,480,392	0.180%
JNL/Mellon S&P 500 Index Fund	News Corporation			Equity	119,817	3,202,708	0.021%
JNL/Mellon S&P 500 Index Fund	KKR & Co. Inc.			Equity	209,460	27,251,287	0.179%
JNL/Mellon S&P 500 Index Fund	News Corporation			Equity	37,677	10,956,840	0.074%
JNL/Mellon S&P 500 Index Fund	GoDaddy Inc.			Equity	45,154	7,079,244	0.046%
JNL/Mellon S&P 500 Index Fund	IQVIA Holdings Inc.			Equity	54,033	12,804,200	0.084%
JNL/Mellon S&P 500 Index Fund	PTC Inc.			Equity	37,447	6,765,175	0.044%
JNL/Mellon S&P 500 Index Fund	Hubbell Incorporated			Equity	19,529	6,651,419	0.044%
JNL/Mellon S&P 500 Index Fund	T-Mobile US, Inc.			Equity	152,894	31,551,206	0.206%
JNL/Mellon S&P 500 Index Fund	Mondelez International, Inc.			Equity	420,098	31,146,066	0.204%
JNL/Mellon S&P 500 Index Fund	AbbVie Inc.			Equity	551,096	108,830,438	0.712%
JNL/Mellon S&P 500 Index Fund	Palo Alto Networks, Inc.			Equity	101,212	24,594,262	0.160%
JNL/Mellon S&P 500 Index Fund	Lamb Weston Holdings, Inc.			Equity	44,644	2,890,253	0.019%
JNL/Mellon S&P 500 Index Fund	Tapestry, Inc.			Equity	74,156	3,483,849	0.023%
JNL/Mellon S&P 500 Index Fund	Norwegian Cruise Line Holdings Ltd.			Equity	126,276	2,589,921	0.017%
JNL/Mellon S&P 500 Index Fund	Edison International Public Limited Company			Equity	125,010	41,433,314	0.271%
JNL/Mellon S&P 500 Index Fund	Baker Hughes Company			Equity	316,420	11,438,583	0.075%
JNL/Mellon S&P 500 Index Fund	Former Charter Communications Parent, Inc.			Equity	31,225	10,119,398	0.066%
JNL/Mellon S&P 500 Index Fund	The Cigna Group			Equity	87,219	30,216,150	0.198%
JNL/Mellon S&P 500 Index Fund	Vistra Corp.			Equity	99,217	11,761,183	0.077%
JNL/Mellon S&P 500 Index Fund	Evergy, Inc.			Equity	73,721	27,457,439	0.180%
JNL/Mellon S&P 500 Index Fund	Axon Enterprise, Inc.			Equity	21,903	8,752,439	0.057%
JNL/Mellon S&P 500 Index Fund	Oorvo, Inc.			Equity	31,840	3,289,072	0.022%
JNL/Mellon S&P 500 Index Fund	Pentair Public Limited Company			Equity	48,246	4,717,977	0.031%
JNL/Mellon S&P 500 Index Fund	Broadcom Inc.			Equity	1,452,315	250,524,338	1.638%
JNL/Mellon S&P 500 Index Fund	Leidos Holdings, Inc.			Equity	43,140	7,031,820	0.046%
JNL/Mellon S&P 500 Index Fund	Booking Holdings Inc.			Equity	10,459	44,054,563	0.288%
JNL/Mellon S&P 500 Index Fund	Alegion Public Limited Company			Equity	28,817	4,199,790	0.027%
JNL/Mellon S&P 500 Index Fund	Intercontinental Exchange, Inc.			Equity	179,543	28,841,788	0.189%
JNL/Mellon S&P 500 Index Fund	Paycom Software, Inc.			Equity	15,597	2,597,992	0.017%
JNL/Mellon S&P 500 Index Fund	Arista Networks, Inc.			Equity	80,254	30,803,090	0.201%
JNL/Mellon S&P 500 Index Fund	S&P Global Inc.			Equity	99,554	51,431,587	0.336%
JNL/Mellon S&P 500 Index Fund	Equity Residential			Equity	109,530	8,729,537	0.056%
JNL/Mellon S&P 500 Index Fund	Kraft Heinz Company, The			Equity	265,455	9,320,125	0.061%
JNL/Mellon S&P 500 Index Fund	Elevance Health, Inc.			Equity	72,860	37,887,200	0.248%
JNL/Mellon S&P 500 Index Fund	Citizens Financial Group, Inc.			Equity	139,064	5,711,358	0.037%
JNL/Mellon S&P 500 Index Fund	Iron Mountain Incorporated			Equity	91,833	10,980,011	0.072%
JNL/Mellon S&P 500 Index Fund	Walgreens Boots Alliance, Inc.			Equity	232,431	2,082,582	0.014%
JNL/Mellon S&P 500 Index Fund	Eversource Energy			Equity	110,814	7,540,893	0.049%
JNL/Mellon S&P 500 Index Fund	Catalent, Inc.			Equity	57,895	3,506,700	0.023%
JNL/Mellon S&P 500 Index Fund	Alphabet Inc.			Equity	1,827,987	303,173,302	1.963%
JNL/Mellon S&P 500 Index Fund	Keyight Technologies, Inc.			Equity	59,898	8,883,868	0.058%
JNL/Mellon S&P 500 Index Fund	Synchrony Financial			Equity	125,764	6,273,108	0.041%
JNL/Mellon S&P 500 Index Fund	Hewlett Packard Enterprise Company			Equity	397,082	8,175,918	0.053%
JNL/Mellon S&P 500 Index Fund	Alphabet Inc.			Equity	1,496,558	250,543,912	1.639%
JNL/Mellon S&P 500 Index Fund	Dell Technologies Inc.			Equity	87,753	10,402,241	0.068%
JNL/Mellon S&P 500 Index Fund	Monster Beverage 1990 Corporation			Equity	218,184	11,382,659	0.074%
JNL/Mellon S&P 500 Index Fund	HP, Inc.			Equity	295,330	10,667,670	0.070%
JNL/Mellon S&P 500 Index Fund	Payroll Holdings, Inc.			Equity	318,966	24,888,917	0.163%
JNL/Mellon S&P 500 Index Fund	Johnson Controls International Public Limited Company			Equity	210,567	14,567,015	0.095%
JNL/Mellon S&P 500 Index Fund	Bio-Techne Corporation			Equity	51,728	4,134,619	0.027%
JNL/Mellon S&P 500 Index Fund	Hilton Worldwide Holdings Inc.			Equity	76,513	17,636,247	0.115%
JNL/Mellon S&P 500 Index Fund	Medtronic, Inc.			Equity	400,169	36,307,333	0.237%
JNL/Mellon S&P 500 Index Fund	Fortive Corporation			Equity	107,703	12,600,988	0.082%
JNL/Mellon S&P 500 Index Fund	Crown Castle Inc.			Equity	136,390	16,179,945	0.106%
JNL/Mellon S&P 500 Index Fund	WEC Energy Group Inc.			Equ			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon S&P 500 Index Fund	Camden Property Trust			Equity	34,413	4,286,483	0.028%
JNL/Mellon S&P 500 Index Fund	Prologis Inc.			Equity	287,463	36,300,928	0.237%
JNL/Mellon S&P 500 Index Fund	Invitation Homes Inc.			Equity	173,700	6,173,298	0.040%
JNL/Mellon S&P 500 Index Fund	Realty Income Corporation			Equity	258,954	16,422,863	0.107%
JNL/Mellon S&P 500 Index Fund	Kimco Realty OP, LLC			Equity	199,650	4,635,873	0.030%
JNL/Mellon S&P 500 Index Fund	Public Storage Operating Company			Equity	46,393	17,608,761	0.115%
JNL/Mellon S&P 500 Index Fund	Simon Property Group, Inc.			Equity	95,619	16,161,523	0.106%
JNL/Mellon S&P 500 Index Fund	Essex Property Trust, Inc.			Equity	19,806	5,899,613	0.039%
JNL/Mellon S&P 500 Index Fund	American Tower Corporation			Equity	144,836	33,683,060	0.220%
JNL/Mellon S&P 500 Index Fund	Host Hotels & Resorts, Inc.			Equity	234,973	4,162,519	0.027%
JNL/Mellon S&P 500 Index Fund	CBRE Group, Inc.			Equity	49,830	11,679,968	0.076%
JNL/Mellon S&P 500 Index Fund	AvalonBay Communities, Inc.			Equity	45,615	10,352,324	0.068%
JNL/Mellon S&P 500 Index Fund	Weyerhaeuser Company			Equity	236,438	7,971,931	0.052%
JNL/Mellon S&P 500 Index Fund	Extra Space Storage Inc.			Equity	65,468	11,796,679	0.077%
JNL/Mellon S&P 500 Index Fund	Ventures, Inc.			Equity	132,460	8,494,869	0.056%
JNL/Mellon S&P 500 Index Fund	Digital Realty Trust, Inc.			Equity	95,398	15,438,258	0.101%
JNL/Mellon S&P 500 Index Fund	Welltower Inc.			Equity	180,550	23,115,817	0.151%
JNL/Mellon S&P 500 Index Fund	Regency Centers Corporation			Equity	46,676	3,402,680	0.022%
JNL/Mellon S&P 500 Index Fund	UDR, Inc.			Equity	91,648	4,155,320	0.027%
JNL/Mellon S&P 500 Index Fund	BXP, Inc.			Equity	47,183	3,842,584	0.025%
JNL/Mellon S&P 500 Index Fund	SBA Communications Corporation			Equity	33,493	8,061,765	0.053%
JNL/Mellon S&P 500 Index Fund	VICI Properties Inc.			Equity	330,671	11,157,666	0.073%
JNL/Mellon S&P 500 Index Fund	Kroger Co Pepper Inc.			Equity	330,874	12,477,259	0.082%
JNL/Mellon S&P 500 Index Fund	Fox Corporation			Equity	44,845	1,739,986	0.011%
JNL/Mellon S&P 500 Index Fund	Fox Corporation			Equity	76,295	3,229,577	0.021%
JNL/Mellon S&P 500 Index Fund	Steris Public Limited Company			Equity	31,968	7,753,519	0.051%
JNL/Mellon S&P 500 Index Fund	Dow Inc.			Equity	220,722	12,050,043	0.079%
JNL/Mellon S&P 500 Index Fund	Enphase Energy, Inc.			Equity	39,112	4,420,438	0.029%
JNL/Mellon S&P 500 Index Fund	Uber Technologies, Inc.			Equity	654,144	49,165,463	0.322%
JNL/Mellon S&P 500 Index Fund	DuPont de Nemours, Inc.			Equity	130,054	11,589,112	0.076%
JNL/Mellon S&P 500 Index Fund	Coneva, Inc.			Equity	217,499	12,786,178	0.084%
JNL/Mellon S&P 500 Index Fund	Arcor Pty Ltd			Equity	444,571	5,036,989	0.033%
JNL/Mellon S&P 500 Index Fund	CrowdStrike Holdings, Inc.			Equity	72,108	20,224,131	0.132%
JNL/Mellon S&P 500 Index Fund	L3Harris Technologies, Inc.			Equity	60,256	14,333,095	0.094%
JNL/Mellon S&P 500 Index Fund	Blackstone Inc.			Equity	223,602	34,240,174	0.224%
JNL/Mellon S&P 500 Index Fund	Globe Life Inc.			Equity	28,537	3,022,354	0.020%
JNL/Mellon S&P 500 Index Fund	Gen Digital Inc.			Equity	165,006	4,526,115	0.030%
JNL/Mellon S&P 500 Index Fund	Healthpeak OP, LLC			Equity	179,343	4,101,574	0.027%
JNL/Mellon S&P 500 Index Fund	Paramount Global			Equity	165,957	1,770,761	0.012%
JNL/Mellon S&P 500 Index Fund	Trust Financial Corporation			Equity	420,915	18,002,535	0.118%
JNL/Mellon S&P 500 Index Fund	Ingersoll Rand Inc.			Equity	126,402	12,407,620	0.081%
JNL/Mellon S&P 500 Index Fund	Trane Technologies Public Limited Company			Equity	69,750	27,113,918	0.177%
JNL/Mellon S&P 500 Index Fund	AOH Public Limited Company			Equity	66,697	23,076,495	0.151%
JNL/Mellon S&P 500 Index Fund	Howmet Aerospace Inc.			Equity	121,315	12,161,829	0.080%
JNL/Mellon S&P 500 Index Fund	Carrier Global Corporation			Equity	261,671	21,061,899	0.138%
JNL/Mellon S&P 500 Index Fund	RTX Corporation			Equity	417,310	50,561,281	0.331%
JNL/Mellon S&P 500 Index Fund	Otis Worldwide Corporation			Equity	128,296	13,335,086	0.087%
JNL/Mellon S&P 500 Index Fund	Match Group, Inc.			Equity	78,132	2,856,515	0.019%
JNL/Mellon S&P 500 Index Fund	Caesars Entertainment, Inc.			Equity	67,648	2,823,628	0.018%
JNL/Mellon S&P 500 Index Fund	Palantir Technologies Inc.			Equity	608,297	22,628,648	0.148%
JNL/Mellon S&P 500 Index Fund	Linde Public Limited Company			Equity	149,465	71,273,880	0.466%
JNL/Mellon S&P 500 Index Fund	Kervue Inc.			Equity	573,039	13,254,392	0.087%
JNL/Mellon S&P 500 Index Fund	Veralto Corporation			Equity	73,124	8,186,269	0.054%
JNL/Mellon S&P 500 Index Fund	Bunge Limited			Equity	46,401	4,484,193	0.029%
JNL/Mellon S&P 500 Index Fund	The Cooper Companies, Inc.			Equity	63,344	6,989,377	0.046%
JNL/Mellon S&P 500 Index Fund	Corpay Inc.			Equity	21,630	6,764,999	0.044%
JNL/Mellon S&P 500 Index Fund	Solventum Corporation			Equity	45,026	3,139,213	0.021%
JNL/Mellon S&P 500 Index Fund	GE Vernova Inc.			Equity	85,551	21,813,794	0.143%
JNL/Mellon S&P 500 Index Fund	Labcorp Holdings Inc.			Equity	25,567	5,713,713	0.037%
JNL/Mellon S&P 500 Index Fund	Smurfit Westrock Public Limited Company			Equity	148,497	7,368,142	0.048%
JNL/Mellon S&P 500 Index Fund	Amazon Holding			Equity	39,491	1,273,585	0.008%
JNL/Mellon S&P 500 Index Fund	Te Connectivity Public Limited Company			Equity	97,344	14,697,971	0.096%
Total Non Derivatives						15,288,136,461	
Derivatives							
JNL/Mellon S&P 500 Index Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	334	2,052,976	0.013%
Total Derivatives						2,052,976	
Total All Investments						15,290,189,437	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Small Cap Index Fund	JNL Small Cap Index Fund			Fund	235,600,855	2,619,881,511	100.000%
Total Non Derivatives						2,619,881,511	
Derivatives							
Total Derivatives						0	
Total All Investments						2,619,881,511	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon U.S. Stock Market Index Fund	Cash			Cash Equivalent	1,766,299	1,766,299	0.033%
JNL/Mellon U.S. Stock Market Index Fund	Mid-America Apartment Communities, Inc.			Equity	10,940	1,736,366	0.033%
JNL/Mellon U.S. Stock Market Index Fund	National Health Investors, Inc.			Equity	3,502	297,530	0.006%
JNL/Mellon U.S. Stock Market Index Fund	JNL Government Money Market Fund			4.82 Cash Equivalent	17,712,505	17,839,810	0.337%
JNL/Mellon U.S. Stock Market Index Fund	California Resources Corporation			Equity	6,046	517,234	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Viavis Inc.			Equity	121,169	1,406,772	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Sotera Health LLC			Equity	9,592	160,186	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Chord Energy Corporation			Equity	6,346	826,440	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Celastus Holdings, Inc.			Equity	15,119	174,132	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Viacomc, Inc.			Equity	10,348	1,182,466	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Concentrix Corporation			Equity	3,020	154,775	0.003%
JNL/Mellon U.S. Stock Market Index Fund	DoorDash, Inc.			Equity	29,320	4,184,844	0.079%
JNL/Mellon U.S. Stock Market Index Fund	Airbnb, Inc.			Equity	41,103	5,212,271	0.089%
JNL/Mellon U.S. Stock Market Index Fund	Stride, Inc.			Equity	4,749	405,137	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Unity Software Inc.			Equity	32,456	734,155	0.014%
JNL/Mellon U.S. Stock Market Index Fund	NOV Inc.			Equity	30,951	494,287	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Comstock Resources, Inc.			Equity	12,361	137,578	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Texas Pacific Land Corporation			Equity	1,844	1,631,461	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Energy Inc.			Equity	17,562	335,259	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Affirm Holdings, Inc.			Equity	23,765	970,087	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Alpha Metallurgical Resources, Inc.			Equity	1,158	273,496	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Chesapeake Energy Corporation			Equity	9,178	174,991	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Uranium Energy Corp.			Equity	43,186	268,185	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Travel + Leisure Co.			Equity	6,657	306,755	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Allegro Microsystems Inc.			Equity	13,565	316,065	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Apa Corp.			Equity	37,692	921,946	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Roblox Corporation			Equity	51,619	2,284,657	0.043%
JNL/Mellon U.S. Stock Market Index Fund	Couango, Inc.			Equity	116,832	2,868,226	0.054%
JNL/Mellon U.S. Stock Market Index Fund	New Fortress Energy Inc.			Equity	5,981	54,367	0.001%
JNL/Mellon U.S. Stock Market Index Fund	Academy Sports & Outdoors, Inc.			Equity	7,989	457,117	0.009%
JNL/Mellon U.S. Stock Market Index Fund	MP Materials Corp.			Equity	9,519	166,010	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Combase Global, Inc.			Equity	18,485	3,293,472	0.062%
JNL/Mellon U.S. Stock Market Index Fund	Oscar Health, Inc.			Equity	17,174	364,261	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Marvell Technology, Inc.			Equity	83,677	6,034,785	0.114%
JNL/Mellon U.S. Stock Market Index Fund	Uplight, Inc.			Equity	41,947	1,336,422	0.024%
JNL/Mellon U.S. Stock Market Index Fund	C3.ai, Inc.			Equity	10,493	254,245	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Warner Music Group Corp.			Equity	14,457	452,504	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Broadstone Net Lease, Inc.			Equity	17,678	340,125	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Endeavor Group Holdings, Inc.			Equity	17,105	498,518	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Frontier Communications Parent, Inc.			Equity	16,557	588,270	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Valaris Limited			Equity	5,890	328,368	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Seagate Technology Holdings Public Limited Company			Equity	19,733	2,175,169	0.041%
JNL/Mellon U.S. Stock Market Index Fund	Blue Owl Capital Inc.			Equity	49,436	957,431	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Gulfport Energy Operating Corporation			Equity	1,702	257,598	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Procore Technologies, Inc.			Equity	9,881	609,855	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Squarespace, Inc.			Equity	6,912	320,924	0.006%
JNL/Mellon U.S. Stock Market Index Fund	HC Inc.			Equity	6,579	354,062	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Organo & Co.			Equity	22,389	428,302	0.008%
JNL/Mellon U.S. Stock Market Index Fund	SoFi Technologies, Inc.			Equity	96,040	754,874	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Margetta, Inc.			Equity	50,621	249,055	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Rox Platforms, Inc.			Equity	29,499	211,346	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Mara Holdings, Inc.			Equity	27,129	440,032	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Hayward Holdings, Inc.			Equity	7,894	121,094	0.002%
JNL/Mellon U.S. Stock Market Index Fund	JFRG Ltd			Equity	8,007	232,523	0.004%
JNL/Mellon U.S. Stock Market Index Fund	ApplVest Corporation			Equity	19,965	2,606,431	0.049%
JNL/Mellon U.S. Stock Market Index Fund	Corbust, Inc.			Equity	22,235	453,149	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Domvity, Inc.			Equity	12,369	538,917	0.010%
JNL/Mellon U.S. Stock Market Index Fund	SentinelOne, Inc.			Equity	28,583	683,705	0.013%
JNL/Mellon U.S. Stock Market Index Fund	DT Midstream, Inc.			Equity	10,380	824,120	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Alight, Inc.			Equity	29,927	292,460	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Phillips Edison & Company, Inc.			Equity	13,163	497,726	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Ryan Specialty Group Holdings, Inc.			Equity	9,817	651,751	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Doolings, Inc.			Equity	3,864	1,089,725	0.021%
JNL/Mellon U.S. Stock Market Index Fund	General Electric Company			Equity	105,615	19,946,448	0.377%
JNL/Mellon U.S. Stock Market Index Fund	GXO Logistics Inc.			Equity	10,278	535,175	0.010%
JNL/Mellon U.S. Stock Market Index Fund	CCC Intelligent Solutions Holdings Inc.			Equity	20,382	225,221	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Bath & Body Works, Inc.			Equity	22,934	732,953	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Jackson Financial Inc.			Equity	5,921	540,173	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Flywire Corporation			Equity	9,213	151,001	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Essential Properties Realty Trust, Inc.			Equity	16,312	561,785	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Lucid Group, Inc.			Equity	88,908	313,845	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Freshworks, Inc.			Equity	17,829	654,780	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Toast, Inc.			Equity	37,017	1,047,951	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Remedy Global, Inc.			Equity	14,825	198,507	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Axos Financial, Inc.			Equity	5,775	363,132	0.007%
JNL/Mellon U.S. Stock Market Index Fund	VolvoPace, Inc.			Equity	13,253	129,524	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Roivant Sciences Ltd.			Equity	37,084	427,949	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Zum Etkay Water Solutions Corporation			Equity	12,256	440,481	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Life Time Group Holdings, Inc.			Equity	3,126	76,337	0.001%
JNL/Mellon U.S. Stock Market Index Fund	Gigamon, Inc.			Equity	12,298	633,839	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Informatica Inc.			Equity	13,859	350,246	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Cleary Energy, Inc.			Equity	5,200	148,044	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Cleary Energy, Inc.			Equity	9,502	291,521	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Cadence Bank			Equity	18,202	584,284	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Civitas Resources, Inc.			Equity	8,039	407,538	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Aurora Innovations Inc.			Equity	104,361	617,817	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Kyndryl Holdings, Inc.			Equity	24,229	556,782	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Rivian Automotive, Inc.			Equity	71,498	802,208	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Braz, Inc.			Equity	5,684	184,144	0.003%
JNL/Mellon U.S. Stock Market Index Fund	HashCorp, Inc.			Equity	13,514	457,584	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Samsara Inc.			Equity	21,013	1,011,146	0.019%
JNL/Mellon U.S. Stock Market Index Fund	FirstCash, Inc.			Equity	4,576	525,325	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Joby Aviation, Inc.			Equity	17,529	1,188,171	0.022%
JNL/Mellon U.S. Stock Market Index Fund	DoubleVerify Holdings, Inc.			Equity	15,202	256,002	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Core & Main, Inc.			Equity	19,386	860,738	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Pavcor HCM, Inc.			Equity	11,250	159,639	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Apoll Global Management, Inc.			Equity	99,128	4,887,487	0.092%
JNL/Mellon U.S. Stock Market Index Fund	Federal Realty Investment Trust			Equity	7,482	860,206	0.016%
JNL/Mellon U.S. Stock Market Index Fund	nCino OpCo, Inc.			Equity	7,093	224,068	0.004%
JNL/Mellon U.S. Stock Market Index Fund	SL Green Realty Corp.			Equity	9,046	492,234	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Constellation Energy Group, Inc.			Equity	30,572	7,950,112	0.150%
JNL/Mellon U.S. Stock Market Index Fund	Elanco Animal Health Incorporated			Equity	51,032	749,660	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Bellring Intermediate Holdings, Inc.			Equity	13,560	823,363	0.016%
JNL/Mellon U.S. Stock Market Index Fund	HF Sinclair Corporation			Equity	14,762	657,942	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Enovos Corporation			Equity	6,265	289,708	0.005%
JNL/Mellon U.S. Stock Market Index Fund	CSA& Corporation			Equity	5,030	159,142	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Warner Bros. Discovery, Inc.			Equity	210,369	1,735,544	0.033%
JNL/Mellon U.S. Stock Market Index Fund	Credo Technology Group Holding Ltd			Equity	13,748	423,438	0.008%
JNL/Mellon U.S. Stock Market Index Fund	DK Crown Holdings Inc.			Equity	47,274	1,853,141	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Aspen Technology, Inc.			Equity	2,422	678,422	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Crane Nxt Co.			Equity	6,805	381,761	0.007%
JNL/Mellon U.S. Stock Market Index Fund	QuidelOrtho Corporation			Equity	6,719	306,386	0.006%
JNL/Mellon U.S. Stock Market Index Fund	RI RCM Holdco Inc.			Equity	13,786	195,348	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Healthcare Realty Trust Incorporated			Equity	37,818	686,397	0.013%
JNL/Mellon U.S. Stock Market Index Fund	SPX Technologies, Inc.			Equity	4,031	642,783	0.012%
JNL/Mellon U.S. Stock Market Index Fund	DigitalBridge Group, Inc.			Equity	20,972	296,544	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Jacobs Solutions Inc.			Equity	12,359	1,617,793	0.031%
JNL/Mellon U.S. Stock Market Index Fund	RoboFund Markets, Inc.			Equity	46,425	1,087,508	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Permian Resources Corporation			Equity	49,452	673,042	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Coherent Corp.			Equity	15,499	1,378,016	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Corebridge Financial, Inc.			Equity	23,125	674,325	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Annaly Capital Management, Inc.			Equity	49,105	1,017,456	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Atlasian Corporation			Equity	15,529	2,466,160	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Biohaven Ltd.			Equity	7,967	398,111	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Mobeye Global Inc.			Equity	8,493	116,354	0.002%
JNL/Mellon U.S. Stock Market Index Fund	U-Haul Holding Company			Equity	9,270	287,440	0.005%
JNL/Mellon U.S. Stock Market Index Fund	GE HealthCare Technologies Inc.			Equity	37,221	3,493,191	0.066%
JNL/Mellon U.S. Stock Market Index Fund	Elastic N.V.			Equity	8,157	626,131	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Mr. Cooper Group Inc.			Equity	6,057	558,334	0.011%
JNL/Mellon U.S. Stock Market Index Fund	MongoDB, Inc.			Equity	7,319	1,978,692	0.037%
JNL/Mellon U.S. Stock Market Index Fund	Resideo Technologies, Inc.			Equity	16,527	532,854	0.009%
JNL/Mellon U.S. Stock Market Index Fund	YETI Holdings, Inc.			Equity	7,016	287,866	0.005%
JNL/Mellon U.S. Stock Market Index Fund	PennyMac Financial Services, Inc.			Equity	2,654	302,476	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Arcoxia, Inc.			Equity	3,748	355,160	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Dayforce, Inc.			Equity	16,209	692,740	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Yum! Brands, Inc.			Equity	27,914	3,899,865	0.074%
JNL/Mellon U.S. Stock Market Index Fund	F.N.B. Corporation			Equity	32,994	465,545	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Boyd Gaming Corporation			Equity	6,772	438,545	0.008%
JNL/Mellon U.S. Stock Market Index Fund	United Rentals, Inc.			Equity	6,511	5,272,152	0.100%
JNL/Mellon U.S. Stock Market Index Fund	SLM Corporation			Equity	18,292	418,338	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Inspireity, Inc.			Equity	3,507	308,616	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Verizon Communications Inc.			Equity	407,044	18,280,346	0.345%
JNL/Mellon U.S. Stock Market Index Fund	ONEOK, Inc.			Equity	56,571	5,155,315	0.100%
JNL/Mellon U.S. Stock Market Index Fund	Group 1 Automotive, Inc.			Equity	1,372	525,531	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Mettler-Toledo International Inc.			Equity	2,070	3,104,739	0.059%
JNL/Mellon U.S. Stock Market Index Fund	Valero Energy Corporation			Equity	31,512	4,255,065	0.080%
JNL/Mellon U.S. Stock Market Index Fund	FedEx Corporation			Equity	22,069	6,070,299	0.115%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	Ball Corporation			Equity	30,625	2,079,744	0.039%
JNL/Mellon U.S. Stock Market Index Fund	Amedios, Inc.			Equity	1,172	966,120	0.06%
JNL/Mellon U.S. Stock Market Index Fund	AFPLAC Incorporated			Equity	49,468	5,530,522	0.104%
JNL/Mellon U.S. Stock Market Index Fund	Azerita, Inc.			Equity	2,889	139,943	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Brady Corporation			Equity	3,580	274,335	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Choice Hotels International, Inc.			Equity	2,811	386,273	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Power Integrations, Inc.			Equity	5,002	520,728	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Avery Dennison Corporation			Equity	7,830	1,728,551	0.033%
JNL/Mellon U.S. Stock Market Index Fund	Archer-Daniels-Midland Company			Equity	46,876	2,800,372	0.053%
JNL/Mellon U.S. Stock Market Index Fund	Castella Waste Systems, Inc.			Equity	4,876	485,113	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Comcast Corporation			Equity	380,479	15,892,608	0.300%
JNL/Mellon U.S. Stock Market Index Fund	International Business Machines Corporation			Equity	89,344	19,752,172	0.373%
JNL/Mellon U.S. Stock Market Index Fund	Pinnacle West Capital Corporation			Equity	10,173	901,226	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Adobe Inc.			Equity	43,144	22,339,100	0.422%
JNL/Mellon U.S. Stock Market Index Fund	Amgen Corporation			Equity	25,080	2,193,497	0.041%
JNL/Mellon U.S. Stock Market Index Fund	W. R. Berkley Corporation			Equity	30,284	1,718,011	0.032%
JNL/Mellon U.S. Stock Market Index Fund	Analog Devices, Inc.			Equity	48,169	11,087,059	0.209%
JNL/Mellon U.S. Stock Market Index Fund	Abernatie Corporation			Equity	11,047	1,050,735	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Baxter International Inc.			Equity	49,512	1,994,329	0.038%
JNL/Mellon U.S. Stock Market Index Fund	Autoliv, Inc.			Equity	7,451	695,700	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Boeing Company, The			Equity	59,766	9,086,823	0.172%
JNL/Mellon U.S. Stock Market Index Fund	Abercrombie & Fitch Co.			Equity	4,020	562,398	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Verisign, Inc.			Equity	8,244	1,566,030	0.030%
JNL/Mellon U.S. Stock Market Index Fund	BankFirst Corporation			Equity	1,259	133,089	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Affiliated Managers Group, Inc.			Equity	2,887	513,309	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Berkshire Hathaway Inc.			Equity	175,137	80,608,556	1.523%
JNL/Mellon U.S. Stock Market Index Fund	Take-Two Interactive Software, Inc.			Equity	15,199	2,336,239	0.044%
JNL/Mellon U.S. Stock Market Index Fund	Autodesk, Inc.			Equity	20,760	5,718,965	0.108%
JNL/Mellon U.S. Stock Market Index Fund	The AES Corporation			Equity	67,561	1,355,274	0.026%
JNL/Mellon U.S. Stock Market Index Fund	BOK Financial Corporation			Equity	2,034	212,797	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Best Buy Co., Inc.			Equity	19,561	2,039,038	0.039%
JNL/Mellon U.S. Stock Market Index Fund	Associated Banc-Corp			Equity	16,111	947,031	0.017%
JNL/Mellon U.S. Stock Market Index Fund	CRH Public Limited Company			Equity	67,431	6,253,551	0.118%
JNL/Mellon U.S. Stock Market Index Fund	Alaska Air Group, Inc.			Equity	10,824	489,353	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Bristol-Myers Squibb Company			Equity	198,547	10,272,822	0.194%
JNL/Mellon U.S. Stock Market Index Fund	Automatic Data Processing, Inc.			Equity	40,129	11,969,406	0.211%
JNL/Mellon U.S. Stock Market Index Fund	Albany International Corp.			Equity	2,434	216,894	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Avnet, Inc.			Equity	7,968	432,742	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Advanced Micro Devices, Inc.			Equity	157,446	25,833,740	0.488%
JNL/Mellon U.S. Stock Market Index Fund	C. H. Robinson Worldwide, Inc.			Equity	10,756	1,193,808	0.023%
JNL/Mellon U.S. Stock Market Index Fund	American Electric Power Company, Inc.			Equity	51,060	5,238,756	0.099%
JNL/Mellon U.S. Stock Market Index Fund	ABM Industries Incorporated			Equity	6,188	326,479	0.006%
JNL/Mellon U.S. Stock Market Index Fund	AutoZone, Inc.			Equity	1,651	5,200,716	0.098%
JNL/Mellon U.S. Stock Market Index Fund	Jones Lang LaSalle Incorporated			Equity	4,709	1,294,818	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Balchem Corporation			Equity	3,411	600,336	0.011%
JNL/Mellon U.S. Stock Market Index Fund	U-Haul Holding Company			Equity	1,176	91,116	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Quanta Services, Inc.			Equity	13,912	4,147,863	0.078%
JNL/Mellon U.S. Stock Market Index Fund	FirstEnergy Corp.			Equity	49,819	2,299,473	0.042%
JNL/Mellon U.S. Stock Market Index Fund	American Express Company			Equity	55,261	14,986,783	0.283%
JNL/Mellon U.S. Stock Market Index Fund	Black Hills Corporation			Equity	5,793	354,068	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Arrow Electronics, Inc.			Equity	5,842	775,993	0.015%
JNL/Mellon U.S. Stock Market Index Fund	American International Group, Inc.			Equity	64,973	4,329,252	0.080%
JNL/Mellon U.S. Stock Market Index Fund	American Financial Group, Inc.			Equity	7,686	1,034,536	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Honeywell International Inc.			Equity	63,592	13,145,102	0.248%
JNL/Mellon U.S. Stock Market Index Fund	ANSYS, Inc.			Equity	8,258	2,631,247	0.050%
JNL/Mellon U.S. Stock Market Index Fund	Brunswick Corporation			Equity	6,856	574,670	0.011%
JNL/Mellon U.S. Stock Market Index Fund	BorgWarner Inc.			Equity	20,051	717,651	0.014%
JNL/Mellon U.S. Stock Market Index Fund	American Eagle Outfitters, Inc.			Equity	20,634	461,995	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Brown-Forman Corporation			Equity	3,468	167,497	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Applied Materials, Inc.			Equity	80,426	16,250,073	0.307%
JNL/Mellon U.S. Stock Market Index Fund	TD SYNNEX Corporation			Equity	3,576	429,406	0.008%
JNL/Mellon U.S. Stock Market Index Fund	MasTec, Inc.			Equity	5,397	664,371	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Applied Industrial Technologies, Inc.			Equity	3,562	794,789	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Alistair Corporation, The			Equity	25,621	4,862,594	0.092%
JNL/Mellon U.S. Stock Market Index Fund	Boston Scientific Corporation			Equity	142,409	11,933,874	0.225%
JNL/Mellon U.S. Stock Market Index Fund	Comfort Systems USA, Inc.			Equity	3,549	1,385,352	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Sempra			Equity	61,161	5,152,814	0.097%
JNL/Mellon U.S. Stock Market Index Fund	Bio-Rad Laboratories, Inc.			Equity	1,868	624,995	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Brown-Forman Corporation			Equity	28,922	1,429,262	0.027%
JNL/Mellon U.S. Stock Market Index Fund	AptarGroup, Inc.			Equity	6,017	963,863	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Maximus, Inc.			Equity	6,160	573,866	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Abbott Laboratories			Equity	169,202	19,290,720	0.364%
JNL/Mellon U.S. Stock Market Index Fund	Amgen Inc.			Equity	52,112	16,793,907	0.317%
JNL/Mellon U.S. Stock Market Index Fund	AMETEK, Inc.			Equity	22,210	3,813,679	0.072%
JNL/Mellon U.S. Stock Market Index Fund	Amazon.com, Inc.			Equity	920,847	171,581,422	3.242%
JNL/Mellon U.S. Stock Market Index Fund	Robert Half Inc.			Equity	11,527	777,035	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Boston Beer Company, Inc., The			Equity	1,216	351,594	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Advanced Energy Industries, Inc.			Equity	3,638	382,863	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Hanover Insurance Group Inc., The			Equity	3,559	527,123	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Air Products and Chemicals, Inc.			Equity	21,567	6,421,359	0.121%
JNL/Mellon U.S. Stock Market Index Fund	AGCO Corporation			Equity	4,761	456,911	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Hess Corporation			Equity	27,242	3,713,044	0.070%
JNL/Mellon U.S. Stock Market Index Fund	H & R Block, Inc.			Equity	12,404	792,926	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Badger Meter, Inc.			Equity	3,030	661,782	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Amphenol Corporation			Equity	117,300	7,662,623	0.145%
JNL/Mellon U.S. Stock Market Index Fund	Becton, Dickinson and Company			Equity	27,921	3,613,781	0.070%
JNL/Mellon U.S. Stock Market Index Fund	Apple Inc.			Equity	1,395,460	325,142,180	6.144%
JNL/Mellon U.S. Stock Market Index Fund	Ameris Bancorp.			Equity	5,952	372,238	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Manhattan Associates, Inc.			Equity	5,868	1,651,438	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Home Depot, Inc., The			Equity	96,371	38,659,340	0.738%
JNL/Mellon U.S. Stock Market Index Fund	IDEX Corporation			Equity	7,117	1,526,597	0.029%
JNL/Mellon U.S. Stock Market Index Fund	GATX Corporation			Equity	3,463	458,674	0.009%
JNL/Mellon U.S. Stock Market Index Fund	International Bancshares Corporation			Equity	4,648	277,904	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Crown Holdings, Inc.			Equity	11,121	1,056,281	0.020%
JNL/Mellon U.S. Stock Market Index Fund	The Clorox Company			Equity	11,969	1,949,870	0.037%
JNL/Mellon U.S. Stock Market Index Fund	M&T Bank Corporation			Equity	15,977	2,845,823	0.054%
JNL/Mellon U.S. Stock Market Index Fund	Consolidated Edison, Inc.			Equity	34,130	3,553,957	0.067%
JNL/Mellon U.S. Stock Market Index Fund	Eastman Chemical Company			Equity	11,985	1,351,429	0.025%
JNL/Mellon U.S. Stock Market Index Fund	Hologic, Inc.			Equity	23,027	1,875,779	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Cirrus Logic, Inc.			Equity	4,827	599,562	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Credit Acceptance Corporation			Equity	564	250,089	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Cisco Systems, Inc.			Equity	393,648	20,949,047	0.396%
JNL/Mellon U.S. Stock Market Index Fund	Caci International Inc.			Equity	2,321	1,171,084	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Haliburton Company			Equity	83,850	2,435,843	0.046%
JNL/Mellon U.S. Stock Market Index Fund	Columbia Banking System, Inc.			Equity	22,728	593,428	0.011%
JNL/Mellon U.S. Stock Market Index Fund	IDEX Laboratories, Inc.			Equity	2,863	3,967,493	0.075%
JNL/Mellon U.S. Stock Market Index Fund	Commercial Metals Company			Equity	11,400	1,677,541	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Target Corporation			Equity	45,257	7,053,756	0.133%
JNL/Mellon U.S. Stock Market Index Fund	Copart, Inc.			Equity	83,346	4,367,330	0.083%
JNL/Mellon U.S. Stock Market Index Fund	BioGen Inc.			Equity	14,190	2,750,590	0.052%
JNL/Mellon U.S. Stock Market Index Fund	Dillard's, Inc.			Equity	467	175,461	0.003%
JNL/Mellon U.S. Stock Market Index Fund	EOG Resources, Inc.			Equity	56,017	6,886,170	0.130%
JNL/Mellon U.S. Stock Market Index Fund	Entergy Corporation			Equity	20,164	2,653,784	0.050%
JNL/Mellon U.S. Stock Market Index Fund	American States Water Company			Equity	4,702	981,630	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Facet Research Systems Inc.			Equity	3,592	361,761	0.007%
JNL/Mellon U.S. Stock Market Index Fund	BioMarin Pharmaceutical Inc.			Equity	18,113	1,273,163	0.024%
JNL/Mellon U.S. Stock Market Index Fund	CoStar Group, Inc.			Equity	40,370	3,045,513	0.058%
JNL/Mellon U.S. Stock Market Index Fund	First Horizon Corporation			Equity	55,097	863,921	0.016%
JNL/Mellon U.S. Stock Market Index Fund	The Interpublic Group of Companies, Inc.			Equity	39,561	1,124,794	0.021%
JNL/Mellon U.S. Stock Market Index Fund	First Financial Bankshares, Inc.			Equity	11,140	414,297	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Cullen/Frost Bankers, Inc.			Equity	5,757	643,978	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Deere & Company			Equity	24,386	10,212,857	0.193%
JNL/Mellon U.S. Stock Market Index Fund	Marriott International, Inc.			Equity	23,185	5,763,791	0.109%
JNL/Mellon U.S. Stock Market Index Fund	Moody's Corporation			Equity	15,553	7,381,298	0.139%
JNL/Mellon U.S. Stock Market Index Fund	CMS Energy Corporation			Equity	26,921	2,042,690	0.039%
JNL/Mellon U.S. Stock Market Index Fund	California Water Service Group			Equity	4,509	244,478	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Fifth Third Bancorp			Equity	67,409	6,012,743	0.113%
JNL/Mellon U.S. Stock Market Index Fund	Freeport-McMoRan Inc.			Equity	139,846	6,981,112	0.132%
JNL/Mellon U.S. Stock Market Index Fund	Diodes Incorporated			Equity	5,232	335,319	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Deckers Outdoor Corporation			Equity	15,516	2,474,026	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Griffin Corporation			Equity	4,010	280,700	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Amkor Technology, Inc.			Equity	12,335	1,677,541	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Columbia Sportswear Company			Equity	3,096	257,556	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Hormel Foods Corporation			Equity	30,348	962,032	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Cummins Inc.			Equity	13,292	4,303,817	0.081%
JNL/Mellon U.S. Stock Market Index Fund	Assurant, Inc.			Equity	5,271	1,049,185	0.020%
JNL/Mellon U.S. Stock Market Index Fund	NRG Energy, Inc.			Equity	20,298	1,849,148	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Fair Isaac Corporation			Equity	2,366	4,598,368	0.087%
JNL/Mellon U.S. Stock Market Index Fund	Helixio, Inc.			Equity	12,780	924,250	0.017%
JNL/Mellon U.S. Stock Market Index Fund	The Goodyear Tire & Rubber Company			Equity	31,650	3,380,103	0.063%
JNL/Mellon U.S. Stock Market Index Fund	Fastenal Company			Equity	54,773	3,911,888	0.074%
JNL/Mellon U.S. Stock Market Index Fund	Erie Indemnity Company			Equity	2,355	1,271,276	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Hexcel Corporation			Equity	8,709	538,477	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Juniper Networks, Inc.			Equity	33,437	1,303,474	0.025%
JNL/Mellon U.S. Stock Market Index Fund	Flex Ltd.			Equity	38,492	1,286,788	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Coterra Energy Inc.			Equity	75,284	1,803,052	0.034%
JNL/Mellon U.S. Stock Market Index Fund	Intel Corporation			Equity	411,505	9,653,907	0.182%
JNL/Mellon U.S. Stock Market Index Fund	Universal Display Corporation			Equity	4,427	929,227	0.018%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	Lennox International Inc.			Equity	3,230	1,955,571	0.037%
JNL/Mellon U.S. Stock Market Index Fund	O.R. Horton, Inc.			Equity	29,901	5,304,214	0.100%
JNL/Mellon U.S. Stock Market Index Fund	The Estee Lauder Companies Inc.			Equity	22,443	2,237,343	0.042%
JNL/Mellon U.S. Stock Market Index Fund	Piper Sandler Companies			Equity	1,239	351,641	0.007%
JNL/Mellon U.S. Stock Market Index Fund	JPMorgan Chase & Co.			Equity	277,711	58,558,141	1.106%
JNL/Mellon U.S. Stock Market Index Fund	Constellation Brands, Inc.			Equity	15,966	4,114,279	0.078%
JNL/Mellon U.S. Stock Market Index Fund	Iron, Inc.			Equity	4,131	441,235	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Clean Harbors, Inc.			Equity	5,297	1,280,338	0.024%
JNL/Mellon U.S. Stock Market Index Fund	White Mountains Insurance Group Ltd			Equity	218	369,772	0.007%
JNL/Mellon U.S. Stock Market Index Fund	J&J Snack Foods Corp.			Equity	1,544	266,958	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Campbell Soup Company			Equity	19,113	605,155	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Caterpillar Inc.			Equity	47,582	18,610,272	0.352%
JNL/Mellon U.S. Stock Market Index Fund	NVIDIA Corporation			Equity	2,310,468	280,606,486	5.302%
JNL/Mellon U.S. Stock Market Index Fund	Darden Restaurants, Inc.			Equity	11,677	1,916,546	0.036%
JNL/Mellon U.S. Stock Market Index Fund	Alcoa Energy Corporation			Equity	14,475	2,007,375	0.038%
JNL/Mellon U.S. Stock Market Index Fund	Exponent, Inc.			Equity	4,941	569,598	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Federal Signal Corporation			Equity	5,930	554,218	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Tempur Sealy International, Inc.			Equity	17,503	955,884	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Expeditors International of Washington, Inc.			Equity	12,665	1,664,312	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Casey's General Stores, Inc.			Equity	3,568	1,340,533	0.025%
JNL/Mellon U.S. Stock Market Index Fund	Intuit Inc.			Equity	27,274	16,937,154	0.320%
JNL/Mellon U.S. Stock Market Index Fund	PMC Corporation			Equity	10,871	723,139	0.014%
JNL/Mellon U.S. Stock Market Index Fund	International Flavors & Fragrances Inc.			Equity	25,321	2,667,061	0.050%
JNL/Mellon U.S. Stock Market Index Fund	General Dynamics Corporation			Equity	22,926	6,928,237	0.131%
JNL/Mellon U.S. Stock Market Index Fund	Gilead Sciences, Inc.			Equity	121,775	10,209,616	0.193%
JNL/Mellon U.S. Stock Market Index Fund	FTI Consulting, Inc.			Equity	3,384	770,063	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Walt Disney Company, The			Equity	177,092	17,034,478	0.324%
JNL/Mellon U.S. Stock Market Index Fund	General Mills, Inc.			Equity	54,605	4,032,579	0.076%
JNL/Mellon U.S. Stock Market Index Fund	Church & Dwight Co., Inc.			Equity	23,424	2,452,961	0.046%
JNL/Mellon U.S. Stock Market Index Fund	Equifax Inc.			Equity	11,818	3,472,837	0.066%
JNL/Mellon U.S. Stock Market Index Fund	Federated Hermes, Inc.			Equity	6,854	650,022	0.012%
JNL/Mellon U.S. Stock Market Index Fund	CenterPoint Energy, Inc.			Equity	60,099	1,785,113	0.033%
JNL/Mellon U.S. Stock Market Index Fund	Sealed Air Corporation			Equity	13,450	488,235	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Prosperity Bancshares, Inc.			Equity	9,915	720,126	0.014%
JNL/Mellon U.S. Stock Market Index Fund	McKesson Corporation			Equity	12,587	6,232,390	0.118%
JNL/Mellon U.S. Stock Market Index Fund	Coprex Corporation			Equity	17,183	699,912	0.013%
JNL/Mellon U.S. Stock Market Index Fund	AAON, Inc.			Equity	6,922	746,468	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Dollar Tree, Inc.			Equity	19,275	1,355,418	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Danaher Corporation			Equity	63,387	17,639,968	0.333%
JNL/Mellon U.S. Stock Market Index Fund	HEICO Corporation			Equity	7,645	1,567,745	0.029%
JNL/Mellon U.S. Stock Market Index Fund	Graco Inc.			Equity	16,364	1,432,014	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Curitts-Wright Corporation			Equity	3,607	1,186,342	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Cognizant Technology Solutions Corporation			Equity	48,717	3,759,978	0.071%
JNL/Mellon U.S. Stock Market Index Fund	Blackbaud, Inc.			Equity	5,004	920,728	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Skechers U.S.A., Inc.			Equity	13,757	920,618	0.017%
JNL/Mellon U.S. Stock Market Index Fund	HEICO Corporation			Equity	3,929	1,027,355	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Salesforce, Inc.			Equity	90,571	24,826,904	0.469%
JNL/Mellon U.S. Stock Market Index Fund	Commerce Bancshares, Inc.			Equity	13,498	801,781	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Harley-Davidson, Inc.			Equity	14,599	562,499	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Franklin Electric Co., Inc.			Equity	2,997	314,146	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Illinois Tool Works Inc.			Equity	29,069	7,661,716	0.145%
JNL/Mellon U.S. Stock Market Index Fund	Eagle Materials Inc.			Equity	3,091	889,999	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Hecha Mining Company			Equity	52,071	347,314	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Gentex Corporation			Equity	22,340	663,275	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Donaldson Company, Inc.			Equity	12,750	939,675	0.018%
JNL/Mellon U.S. Stock Market Index Fund	eBay Inc.			Equity	50,233	3,270,020	0.062%
JNL/Mellon U.S. Stock Market Index Fund	WESCO International, Inc.			Equity	4,553	761,433	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Arthur J. Gallagher & Co.			Equity	21,214	5,968,983	0.113%
JNL/Mellon U.S. Stock Market Index Fund	Genuine Parts Company			Equity	13,059	1,837,140	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Nelnet, Inc.			Equity	2,025	229,392	0.004%
JNL/Mellon U.S. Stock Market Index Fund	CorVel Corporation			Equity	12,099	699,922	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Omnicom Group Inc.			Equity	19,534	2,033,294	0.038%
JNL/Mellon U.S. Stock Market Index Fund	W. W. Grainger, Inc.			Equity	4,316	4,483,504	0.085%
JNL/Mellon U.S. Stock Market Index Fund	Franklin Resources, Inc.			Equity	26,130	534,620	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Ecolab Inc.			Equity	24,538	6,279,274	0.119%
JNL/Mellon U.S. Stock Market Index Fund	Unum Group			Equity	16,953	1,007,686	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Carpenter Technology Corporation			Equity	4,752	758,324	0.014%
JNL/Mellon U.S. Stock Market Index Fund	EQT Corporation			Equity	54,074	2,014,247	0.038%
JNL/Mellon U.S. Stock Market Index Fund	H.B. Fuller Company			Equity	5,992	875,645	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Humana Inc.			Equity	11,843	3,761,633	0.071%
JNL/Mellon U.S. Stock Market Index Fund	Fiserv, Inc.			Equity	56,519	10,153,638	0.192%
JNL/Mellon U.S. Stock Market Index Fund	NexEra Energy, Inc.			Equity	198,339	16,765,596	0.317%
JNL/Mellon U.S. Stock Market Index Fund	EOACORP, Inc.			Equity	4,498	482,668	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Chemced Corporation			Equity	1,355	814,314	0.015%
JNL/Mellon U.S. Stock Market Index Fund	The Hershey Company			Equity	14,583	2,796,728	0.053%
JNL/Mellon U.S. Stock Market Index Fund	Exxon Mobil Corporation			Equity	433,543	50,819,910	0.960%
JNL/Mellon U.S. Stock Market Index Fund	First Citizens BancShares, Inc.			Equity	17,173	2,159,434	0.041%
JNL/Mellon U.S. Stock Market Index Fund	Innospec, Inc.			Equity	2,618	296,070	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Haemonetics Corporation			Equity	5,198	417,815	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Electronic Arts Inc.			Equity	23,411	3,358,074	0.063%
JNL/Mellon U.S. Stock Market Index Fund	Winn-Dixie Financial Corporation			Equity	5,775	636,761	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Radwin Group Inc.			Equity	15,855	650,010	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Heimerich & Payne, Inc.			Equity	11,483	349,313	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Cardinal Health, Inc.			Equity	22,757	2,515,104	0.048%
JNL/Mellon U.S. Stock Market Index Fund	Molina Healthcare, Inc.			Equity	5,445	1,876,129	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Callidus Design Systems, Inc.			Equity	26,478	2,176,432	0.041%
JNL/Mellon U.S. Stock Market Index Fund	CSX Corporation			Equity	190,357	6,573,027	0.124%
JNL/Mellon U.S. Stock Market Index Fund	Euronet Worldwide, Inc.			Equity	4,798	476,106	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Republic Services, Inc.			Equity	20,268	4,070,625	0.077%
JNL/Mellon U.S. Stock Market Index Fund	Coca-Cola Consolidated, Inc.			Equity	489	1,193,274	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Greif, Inc.			Equity	2,753	173,990	0.003%
JNL/Mellon U.S. Stock Market Index Fund	MKS Instruments, Inc.			Equity	6,002	652,477	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Conagra Brands, Inc.			Equity	43,509	1,414,913	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Hancock Whitney Corporation			Equity	8,174	818,244	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Colgate-Palmolive Company			Equity	80,753	8,382,969	0.158%
JNL/Mellon U.S. Stock Market Index Fund	Jabil Inc.			Equity	11,256	1,348,806	0.025%
JNL/Mellon U.S. Stock Market Index Fund	Gartner, Inc.			Equity	7,517	3,809,315	0.072%
JNL/Mellon U.S. Stock Market Index Fund	ESCO Technologies Inc.			Equity	2,490	321,160	0.006%
JNL/Mellon U.S. Stock Market Index Fund	DTE Energy Company			Equity	20,732	2,683,343	0.051%
JNL/Mellon U.S. Stock Market Index Fund	Coca-Cola Company, The			Equity	379,415	27,449,823	0.519%
JNL/Mellon U.S. Stock Market Index Fund	Revvity, Inc.			Equity	12,359	1,578,862	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Huntington Bancshares Incorporated			Equity	137,617	2,045,147	0.039%
JNL/Mellon U.S. Stock Market Index Fund	First Bancorp.			Equity	11,005	232,976	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Flowerserve Corporation			Equity	12,063	626,070	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Dover Corporation			Equity	13,752	2,636,808	0.050%
JNL/Mellon U.S. Stock Market Index Fund	United Therapeutics Corporation			Equity	3,806	1,383,880	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Emerson Electric Co.			Equity	54,967	6,011,741	0.114%
JNL/Mellon U.S. Stock Market Index Fund	Kom Ferry			Equity	4,015	303,574	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Carlisle Companies Incorporated			Equity	4,595	2,066,601	0.039%
JNL/Mellon U.S. Stock Market Index Fund	Gap, Inc., The			Equity	16,154	1,556,196	0.030%
JNL/Mellon U.S. Stock Market Index Fund	J.B. Hunt Transport Services, Inc.			Equity	7,875	1,357,099	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Jack Henry & Associates, Inc.			Equity	6,972	1,230,837	0.023%
JNL/Mellon U.S. Stock Market Index Fund	Cathay General Bancorp			Equity	8,193	351,889	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Darling Ingredients Inc.			Equity	16,288	605,262	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Topgolf Callaway Brands Corp.			Equity	15,174	166,511	0.003%
JNL/Mellon U.S. Stock Market Index Fund	FS, Inc.			Equity	5,405	1,190,181	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Glacier Bancorp, Inc.			Equity	9,716	444,021	0.008%
JNL/Mellon U.S. Stock Market Index Fund	International Paper Company			Equity	32,204	1,573,165	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Cabot Corporation			Equity	5,099	669,915	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Comerica Incorporated			Equity	13,050	791,091	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Cincinnati Financial Corporation			Equity	15,464	2,117,486	0.040%
JNL/Mellon U.S. Stock Market Index Fund	Churchill Downs Incorporated			Equity	6,460	873,457	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Cintas Corporation			Equity	34,064	7,013,096	0.132%
JNL/Mellon U.S. Stock Market Index Fund	Coming Incorporated			Equity	76,441	3,451,311	0.065%
JNL/Mellon U.S. Stock Market Index Fund	Dycem Industries, Inc.			Equity	2,331	459,440	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Macy's, Inc.			Equity	27,551	437,061	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Citigroup Inc.			Equity	186,739	11,637,261	0.220%
JNL/Mellon U.S. Stock Market Index Fund	Henry Schein, Inc.			Equity	12,766	930,641	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Morgan Stanley			Equity	121,288	12,643,061	0.239%
JNL/Mellon U.S. Stock Market Index Fund	Bank of America Corporation			Equity	659,744	26,178,642	0.495%
JNL/Mellon U.S. Stock Market Index Fund	The St. Joe Company			Equity	3,981	372,848	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Proper Technologies, Inc.			Equity	10,309	578,349	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Carnival Corporation			Equity	93,430	1,726,586	0.033%
JNL/Mellon U.S. Stock Market Index Fund	RPM International Inc.			Equity	12,329	1,491,809	0.028%
JNL/Mellon U.S. Stock Market Index Fund	Range Resources Corporation			Equity	23,649	727,443	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Neurocrine Biosciences, Inc.			Equity	10,359	1,193,218	0.023%
JNL/Mellon U.S. Stock Market Index Fund	Entegris, Inc.			Equity	14,844	1,670,395	0.032%
JNL/Mellon U.S. Stock Market Index Fund	Packaging Corporation of America			Equity	8,409	1,821,810	0.034%
JNL/Mellon U.S. Stock Market Index Fund	Otter Tail Corporation			Equity	4,806	575,637	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Tross Stores, Inc.			Equity	31,832	4,391,034	0.083%
JNL/Mellon U.S. Stock Market Index Fund	BlackRock, Inc.			Equity	14,498	13,765,996	0.260%
JNL/Mellon U.S. Stock Market Index Fund	NiSource Inc.			Equity	46,177	1,600,033	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Masco Corporation			Equity	21,690	1,820,659	0.034%
JNL/Mellon U.S. Stock Market Index Fund	Trex Company, Inc.			Equity	11,051	1,785,178	0.034%
JNL/Mellon U.S. Stock Market Index Fund	AutoNation, Inc.			Equity	2,864	512,427	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Charles River Laboratories International, Inc.			Equity	4,747	935,017	0.018%
JNL/Mellon U.S. Stock Market Index Fund	MetLife, Inc.			Equity	58,247	4,804,213	0.091%
JNL/Mellon U.S. Stock Market Index Fund	Paychex, Inc.			Equity	31,585	4,238,391	0.080%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	Litellife, Inc.			Equity	2,530	671,083	0.013%
JNL/Mellon U.S. Stock Market Index Fund	XCEL Energy Inc.			Equity	54,449	3,585,231	0.068%
JNL/Mellon U.S. Stock Market Index Fund	Pool Corporation			Equity	3,667	1,381,726	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Olin Corporation			Equity	10,098	484,502	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Kulicke and Soffa Industries, Inc.			Equity	5,953	269,849	0.005%
JNL/Mellon U.S. Stock Market Index Fund	RLI Corp.			Equity	3,977	616,355	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Nucor Corporation			Equity	22,776	3,426,443	0.065%
JNL/Mellon U.S. Stock Market Index Fund	U.S. Bancorp.			Equity	151,557	7,006,480	0.132%
JNL/Mellon U.S. Stock Market Index Fund	Bruker Corporation			Equity	10,049	693,984	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Royal Caribbean Cruises Ltd.			Equity	22,722	4,039,063	0.076%
JNL/Mellon U.S. Stock Market Index Fund	Brim's Company, The			Equity	4,658	1,579,420	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Costco Wholesale Corporation			Equity	43,157	38,259,544	0.723%
JNL/Mellon U.S. Stock Market Index Fund	Lithia Motors, Inc.			Equity	2,534	804,900	0.015%
JNL/Mellon U.S. Stock Market Index Fund	T. Rowe Price Group, Inc.			Equity	21,236	2,313,237	0.044%
JNL/Mellon U.S. Stock Market Index Fund	Rambus Inc.			Equity	7,809	329,288	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Travelers Companies, Inc., The			Equity	22,162	5,188,567	0.098%
JNL/Mellon U.S. Stock Market Index Fund	Schlumberger Limited			Equity	139,731	5,900,141	0.111%
JNL/Mellon U.S. Stock Market Index Fund	Incyte Corporation			Equity	16,466	1,088,403	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Johnson & Johnson			Equity	234,135	37,943,918	0.717%
JNL/Mellon U.S. Stock Market Index Fund	Reliance, Inc.			Equity	5,495	1,589,209	0.030%
JNL/Mellon U.S. Stock Market Index Fund	CBZ, Inc.			Equity	3,951	265,863	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Royal Gold, Inc.			Equity	6,442	903,813	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Silicon Laboratories Inc.			Equity	3,781	436,370	0.008%
JNL/Mellon U.S. Stock Market Index Fund	TXNM Energy, Inc.			Equity	7,769	340,049	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Kohl's Corporation			Equity	9,101	192,031	0.004%
JNL/Mellon U.S. Stock Market Index Fund	McCormick & Company, Incorporated			Equity	24,300	1,999,890	0.038%
JNL/Mellon U.S. Stock Market Index Fund	Lam Research Corporation			Equity	12,758	19,440,862	0.372%
JNL/Mellon U.S. Stock Market Index Fund	Global Payments Inc.			Equity	24,100	2,468,322	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Landstar System, Inc.			Equity	3,656	690,509	0.013%
JNL/Mellon U.S. Stock Market Index Fund	KLA Corporation			Equity	13,093	10,139,350	0.192%
JNL/Mellon U.S. Stock Market Index Fund	OGE Energy Corp.			Equity	18,561	761,372	0.014%
JNL/Mellon U.S. Stock Market Index Fund	NGE Energy, Inc.			Equity	2,546	832,825	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Lancaster Colony Corporation			Equity	2,284	403,286	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Pegsystems Inc.			Equity	3,568	260,785	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Lockheed Martin Corporation			Equity	20,776	12,444,819	0.229%
JNL/Mellon U.S. Stock Market Index Fund	KeyCorp			Equity	93,827	1,571,827	0.029%
JNL/Mellon U.S. Stock Market Index Fund	NetApp, Inc.			Equity	20,077	2,479,710	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Lennar Corporation			Equity	23,519	4,409,342	0.083%
JNL/Mellon U.S. Stock Market Index Fund	PulteGroup, Inc.			Equity	20,033	2,879,343	0.054%
JNL/Mellon U.S. Stock Market Index Fund	Raymond James Financial, Inc.			Equity	18,000	2,204,280	0.042%
JNL/Mellon U.S. Stock Market Index Fund	Exelon Corporation			Equity	96,897	3,929,173	0.074%
JNL/Mellon U.S. Stock Market Index Fund	Plexus Corp.			Equity	2,334	319,081	0.006%
JNL/Mellon U.S. Stock Market Index Fund	MangroveGroup Inc.			Equity	5,640	414,653	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Chalkhosi Corporation			Equity	6,370	639,400	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Magnolia Oil & Gas Corporation			Equity	19,929	486,666	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Arch Capital Group Ltd.			Equity	35,666	3,990,312	0.075%
JNL/Mellon U.S. Stock Market Index Fund	Merck & Co., Inc.			Equity	246,152	28,143,565	0.532%
JNL/Mellon U.S. Stock Market Index Fund	Exelixis, Inc.			Equity	31,058	805,955	0.015%
JNL/Mellon U.S. Stock Market Index Fund	ATI Inc.			Equity	13,429	898,534	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Pinnacle Financial Partners, Inc.			Equity	8,231	806,391	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Ment Medical Systems, Inc.			Equity	6,427	635,180	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Moline Manufacturing Company			Equity	4,738	1,030,490	0.019%
JNL/Mellon U.S. Stock Market Index Fund	SM Energy Company			Equity	12,667	506,300	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Insmid Incorporated			Equity	17,303	1,263,119	0.024%
JNL/Mellon U.S. Stock Market Index Fund	On Semiconductor Corporation			Equity	41,152	2,988,047	0.056%
JNL/Mellon U.S. Stock Market Index Fund	Occidental Petroleum Corporation			Equity	57,649	2,983,812	0.056%
JNL/Mellon U.S. Stock Market Index Fund	CVS Health Corporation			Equity	122,085	7,676,705	0.145%
JNL/Mellon U.S. Stock Market Index Fund	EMCOR Group, Inc.			Equity	4,622	1,989,910	0.038%
JNL/Mellon U.S. Stock Market Index Fund	Lennar Corporation			Equity	1,169	202,167	0.004%
JNL/Mellon U.S. Stock Market Index Fund	McDonald's Corporation			Equity	70,502	21,468,564	0.406%
JNL/Mellon U.S. Stock Market Index Fund	Public Service Enterprise Group Incorporated			Equity	49,257	4,002,826	0.076%
JNL/Mellon U.S. Stock Market Index Fund	Zimmer Biomet Holdings, Inc.			Equity	19,627	2,123,445	0.040%
JNL/Mellon U.S. Stock Market Index Fund	Oracle Corporation			Equity	155,712	26,533,325	0.501%
JNL/Mellon U.S. Stock Market Index Fund	New Jersey Resources Corporation			Equity	10,994	523,864	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Mercury General Corporation			Equity	2,589	263,980	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Loews Corporation			Equity	17,296	1,367,249	0.026%
JNL/Mellon U.S. Stock Market Index Fund	MGIC Investment Corporation			Equity	22,580	578,048	0.011%
JNL/Mellon U.S. Stock Market Index Fund	United Parcel Service, Inc.			Equity	70,850	9,659,689	0.183%
JNL/Mellon U.S. Stock Market Index Fund	The New York Times Company			Equity	14,587	1,031,889	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Agilent Technologies, Inc.			Equity	28,897	4,290,627	0.081%
JNL/Mellon U.S. Stock Market Index Fund	Qualcomm Incorporated			Equity	108,983	18,532,559	0.350%
JNL/Mellon U.S. Stock Market Index Fund	Marsh & McLennan Companies, Inc.			Equity	47,990	10,706,089	0.202%
JNL/Mellon U.S. Stock Market Index Fund	Kellanova			Equity	26,600	2,154,544	0.041%
JNL/Mellon U.S. Stock Market Index Fund	Hartford Financial Services Group, Inc., The			Equity	27,890	3,293,251	0.062%
JNL/Mellon U.S. Stock Market Index Fund	The PNC Financial Services Group, Inc.			Equity	38,480	7,113,028	0.134%
JNL/Mellon U.S. Stock Market Index Fund	Flowers Foods, Inc.			Equity	21,820	503,387	0.010%
JNL/Mellon U.S. Stock Market Index Fund	PepsiCo, Inc.			Equity	133,387	22,680,459	0.429%
JNL/Mellon U.S. Stock Market Index Fund	Mohawk Industries, Inc.			Equity	8,540	890,167	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Quaker Chemical Corporation			Equity	921	155,179	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Quest Diagnostics Incorporated			Equity	10,343	1,605,751	0.030%
JNL/Mellon U.S. Stock Market Index Fund	CHO Financial Group, Inc.			Equity	11,960	1,119,796	0.021%
JNL/Mellon U.S. Stock Market Index Fund	PACCAR Inc.			Equity	50,337	4,967,255	0.094%
JNL/Mellon U.S. Stock Market Index Fund	Fluor Corporation			Equity	17,932	855,536	0.016%
JNL/Mellon U.S. Stock Market Index Fund	McGrath RentCorp			Equity	2,462	259,199	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Fidelity National Information Services, Inc.			Equity	55,480	4,644,450	0.088%
JNL/Mellon U.S. Stock Market Index Fund	Murphy Oil Corporation			Equity	16,731	564,074	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Newmont Corporation			Equity	110,608	5,911,998	0.112%
JNL/Mellon U.S. Stock Market Index Fund	Altria Group, Inc.			Equity	168,417	8,767,789	0.166%
JNL/Mellon U.S. Stock Market Index Fund	B3's Wholesale Club Holdings, Inc.			Equity	12,677	1,045,599	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Lattice Semiconductor Corporation			Equity	14,301	1,758,011	0.033%
JNL/Mellon U.S. Stock Market Index Fund	National Fuel Gas Company			Equity	9,100	556,238	0.011%
JNL/Mellon U.S. Stock Market Index Fund	ACADIA Pharmaceuticals Inc.			Equity	12,393	190,604	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Ryder System, Inc.			Equity	3,955	576,639	0.011%
JNL/Mellon U.S. Stock Market Index Fund	REN Entertainment, Inc.			Equity	17,220	1,123,889	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Parker-Hannifin Corporation			Equity	12,575	7,945,137	0.150%
JNL/Mellon U.S. Stock Market Index Fund	Inter Parfums, Inc.			Equity	2,093	271,002	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Patterson-UTI Energy, Inc.			Equity	30,084	230,143	0.004%
JNL/Mellon U.S. Stock Market Index Fund	MOOG Inc.			Equity	5,799	1,454,444	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Kroger Co., The			Equity	67,190	3,849,987	0.073%
JNL/Mellon U.S. Stock Market Index Fund	ConocoPhillips			Equity	113,637	11,963,703	0.226%
JNL/Mellon U.S. Stock Market Index Fund	Norfolk Southern Corporation			Equity	22,073	5,485,141	0.104%
JNL/Mellon U.S. Stock Market Index Fund	Regeneron Pharmaceuticals, Inc.			Equity	10,291	19,018,311	0.349%
JNL/Mellon U.S. Stock Market Index Fund	PPL Corporation			Equity	74,731	2,491,345	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Nordson Corporation			Equity	4,897	1,286,099	0.024%
JNL/Mellon U.S. Stock Market Index Fund	MGM Resorts International			Equity	23,231	908,100	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Rockwell Automation, Inc.			Equity	11,000	2,953,060	0.056%
JNL/Mellon U.S. Stock Market Index Fund	Nordstrom, Inc.			Equity	6,916	1,155,541	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Illumina, Inc.			Equity	15,400	2,008,314	0.038%
JNL/Mellon U.S. Stock Market Index Fund	Martin Marietta Materials, Inc.			Equity	6,106	3,286,555	0.062%
JNL/Mellon U.S. Stock Market Index Fund	Seaboard Corporation			Equity	41	128,617	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Neogen Corporation			Equity	20,039	339,886	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Kimberly-Clark Corporation			Equity	33,223	4,767,501	0.090%
JNL/Mellon U.S. Stock Market Index Fund	Dominion Energy, Inc.			Equity	80,708	4,664,115	0.088%
JNL/Mellon U.S. Stock Market Index Fund	Reinsurance Group of America, Incorporated			Equity	6,376	1,389,139	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Polaris Inc.			Equity	5,809	463,541	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Eli Lilly and Company			Equity	82,269	72,885,398	1.377%
JNL/Mellon U.S. Stock Market Index Fund	Edwards Lifesciences Corporation			Equity	58,064	3,831,643	0.072%
JNL/Mellon U.S. Stock Market Index Fund	Steven Madden, Ltd.			Equity	6,882	327,351	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Goldman Sachs Group, Inc., The			Equity	31,523	15,607,953	0.295%
JNL/Mellon U.S. Stock Market Index Fund	Pfizer Inc.			Equity	551,179	15,951,120	0.301%
JNL/Mellon U.S. Stock Market Index Fund	Procter & Gamble Company, The			Equity	229,549	39,757,887	0.751%
JNL/Mellon U.S. Stock Market Index Fund	National Beverage Corp.			Equity	433	20,325	0.000%
JNL/Mellon U.S. Stock Market Index Fund	Renaissance Holdings Ltd			Equity	5,292	1,441,541	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Charles Schwab Corporation, The			Equity	139,914	9,067,826	0.171%
JNL/Mellon U.S. Stock Market Index Fund	Mattel, Inc.			Equity	31,131	593,046	0.011%
JNL/Mellon U.S. Stock Market Index Fund	NVR, Inc.			Equity	299	2,933,728	0.055%
JNL/Mellon U.S. Stock Market Index Fund	Kadant Inc.			Equity	1,091	1,070,786	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Microchip Technology Incorporated			Equity	50,755	4,075,119	0.077%
JNL/Mellon U.S. Stock Market Index Fund	MDU Resources Group, Inc.			Equity	21,199	583,820	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Old Dominion Freight Line, Inc.			Equity	18,339	3,642,859	0.069%
JNL/Mellon U.S. Stock Market Index Fund	Brown & Brown, Inc.			Equity	24,326	2,520,174	0.048%
JNL/Mellon U.S. Stock Market Index Fund	Microsoft Corporation			Equity	722,875	311,053,113	5.877%
JNL/Mellon U.S. Stock Market Index Fund	Micron Technology, Inc.			Equity	106,826	11,078,924	0.209%
JNL/Mellon U.S. Stock Market Index Fund	Akamai Technologies, Inc.			Equity	15,071	1,521,417	0.029%
JNL/Mellon U.S. Stock Market Index Fund	MSC Industrial Direct Co., Inc.			Equity	4,796	412,744	0.008%
JNL/Mellon U.S. Stock Market Index Fund	3M Company			Equity	53,453	7,507,025	0.138%
JNL/Mellon U.S. Stock Market Index Fund	East West Bancorp., Inc.			Equity	13,039	1,078,847	0.020%
JNL/Mellon U.S. Stock Market Index Fund	PG&E Corporation			Equity	204,777	4,050,489	0.077%
JNL/Mellon U.S. Stock Market Index Fund	Old National Bancorp.			Equity	29,288	546,514	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Louisiana-Pacific Corporation (W VA)			Equity	5,821	1,441,541	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Everest Group, Ltd.			Equity	4,074	1,596,315	0.030%
JNL/Mellon U.S. Stock Market Index Fund	IPG Photonics Corporation			Equity	3,341	248,303	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Newell Brands Inc.			Equity	41,235	116,685	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Capital One Financial Corporation			Equity	36,938	5,530,127	0.105%
JNL/Mellon U.S. Stock Market Index Fund	Northern Trust Corporation			Equity	19,249	1,747,424	0.033%
JNL/Mellon U.S. Stock Market Index Fund	KB Home			Equity	7,592	650,558	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Devon Energy Corporation			Equity	62,644	2,450,633	0.046%
JNL/Mellon U.S. Stock Market Index Fund	The Progressive Corporation			Equity	56,643	14,373,728	0.272%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	TeleDyne Technologies Incorporated	Equity	4.541	Equity	1,587.414	0.038%	
JNL/Mellon U.S. Stock Market Index Fund	Exact Sciences Corporation	Equity	19.261	Equity	1,260.761	0.024%	
JNL/Mellon U.S. Stock Market Index Fund	Lincoln National Corporation	Equity	18.033	Equity	568.220	0.011%	
JNL/Mellon U.S. Stock Market Index Fund	NIKE, Inc.	Equity	114.382	Equity	10,154.383	0.192%	
JNL/Mellon U.S. Stock Market Index Fund	Repligen Corporation	Equity	5.437	Equity	809.134	0.015%	
JNL/Mellon U.S. Stock Market Index Fund	Merritage Homes Corporation	Equity	3.138	Equity	653.510	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	AXIS Capital Holdings Limited	Equity	8.172	Equity	654.168	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	Regal Rexnord Corporation	Equity	6.082	Equity	1,011.011	0.019%	
JNL/Mellon U.S. Stock Market Index Fund	Trinet Group, Inc.	Equity	3.386	Equity	328.340	0.006%	
JNL/Mellon U.S. Stock Market Index Fund	Inspire Medical Systems, Inc.	Equity	2.355	Equity	497.023	0.009%	
JNL/Mellon U.S. Stock Market Index Fund	Ares Management Corporation	Equity	17.561	Equity	2,240.768	0.024%	
JNL/Mellon U.S. Stock Market Index Fund	Viking Therapeutics, Inc.	Equity	10.615	Equity	672.036	0.013%	
JNL/Mellon U.S. Stock Market Index Fund	Sterling Infrastructure, Inc.	Equity	3.097	Equity	449.127	0.008%	
JNL/Mellon U.S. Stock Market Index Fund	Lowes's Companies, Inc.	Equity	55.710	Equity	15,069.054	0.285%	
JNL/Mellon U.S. Stock Market Index Fund	Selective Insurance Group, Inc.	Equity	6.469	Equity	603.176	0.011%	
JNL/Mellon U.S. Stock Market Index Fund	Middleby Corporation, The	Equity	4.929	Equity	685.772	0.013%	
JNL/Mellon U.S. Stock Market Index Fund	Old Republic International Corporation	Equity	25.068	Equity	887.909	0.017%	
JNL/Mellon U.S. Stock Market Index Fund	Insight Enterprises, Inc.	Equity	3.027	Equity	651.986	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	Lincoln Electric Holdings, Inc.	Equity	4.965	Equity	956.904	0.018%	
JNL/Mellon U.S. Stock Market Index Fund	Northrop Grumman Corporation	Equity	14.341	Equity	7,573.052	0.143%	
JNL/Mellon U.S. Stock Market Index Fund	Ford Motor Company	Equity	379.809	Equity	4,010.783	0.076%	
JNL/Mellon U.S. Stock Market Index Fund	PPG Industries, Inc.	Equity	22.998	Equity	3,046.315	0.058%	
JNL/Mellon U.S. Stock Market Index Fund	Mueller Industries, Inc.	Equity	10.812	Equity	801.169	0.015%	
JNL/Mellon U.S. Stock Market Index Fund	Wells Fargo & Company	Equity	334.533	Equity	18,897.769	0.357%	
JNL/Mellon U.S. Stock Market Index Fund	ResMed Inc.	Equity	14.300	Equity	3,490.916	0.066%	
JNL/Mellon U.S. Stock Market Index Fund	MH Homes, Inc.	Equity	2.466	Equity	422.574	0.008%	
JNL/Mellon U.S. Stock Market Index Fund	Rollins, Inc.	Equity	27.675	Equity	1,399.805	0.026%	
JNL/Mellon U.S. Stock Market Index Fund	Cheniere Energy, Inc.	Equity	22.413	Equity	4,030.754	0.076%	
JNL/Mellon U.S. Stock Market Index Fund	Align Technology, Inc.	Equity	7.185	Equity	1,827.289	0.035%	
JNL/Mellon U.S. Stock Market Index Fund	Kirby Corporation	Equity	5.846	Equity	715.726	0.014%	
JNL/Mellon U.S. Stock Market Index Fund	Scotch Miracote-Goo Company, The	Equity	2.982	Equity	259.406	0.005%	
JNL/Mellon U.S. Stock Market Index Fund	Market Group Inc.	Equity	1.270	Equity	1,992.097	0.038%	
JNL/Mellon U.S. Stock Market Index Fund	Sitell Financial Corp.	Equity	10.658	Equity	1,000.786	0.019%	
JNL/Mellon U.S. Stock Market Index Fund	Texas Instruments Incorporated	Equity	88.422	Equity	18,265.333	0.345%	
JNL/Mellon U.S. Stock Market Index Fund	Advance Auto Parts, Inc.	Equity	6.138	Equity	239.321	0.005%	
JNL/Mellon U.S. Stock Market Index Fund	ACI Worldwide, Inc.	Equity	4.661	Equity	1,440.345	0.028%	
JNL/Mellon U.S. Stock Market Index Fund	Tractor Supply Company	Equity	10.550	Equity	3,069.312	0.058%	
JNL/Mellon U.S. Stock Market Index Fund	Snap-on Incorporated	Equity	4.958	Equity	1,436.382	0.027%	
JNL/Mellon U.S. Stock Market Index Fund	Legacy Vulcan Corp.	Equity	13.183	Equity	3,301.419	0.062%	
JNL/Mellon U.S. Stock Market Index Fund	West Pharmaceutical Services, Inc.	Equity	2.350	Equity	2,026.177	0.042%	
JNL/Mellon U.S. Stock Market Index Fund	LMX Corporation	Equity	26.604	Equity	1,062.032	0.020%	
JNL/Mellon U.S. Stock Market Index Fund	Trimble Inc.	Equity	23.206	Equity	1,440.861	0.027%	
JNL/Mellon U.S. Stock Market Index Fund	Stryker Corporation	Equity	34.783	Equity	12,593.533	0.238%	
JNL/Mellon U.S. Stock Market Index Fund	Tetra Tech, Inc.	Equity	29.690	Equity	1,211.540	0.023%	
JNL/Mellon U.S. Stock Market Index Fund	Vail Resorts, Inc.	Equity	3.854	Equity	671.714	0.013%	
JNL/Mellon U.S. Stock Market Index Fund	Western Digital Corporation	Equity	31.817	Equity	2,172.783	0.041%	
JNL/Mellon U.S. Stock Market Index Fund	Marathon Oil Corporation	Equity	55.515	Equity	1,478.364	0.028%	
JNL/Mellon U.S. Stock Market Index Fund	Cavco Industries, Inc.	Equity	989	Equity	380.105	0.007%	
JNL/Mellon U.S. Stock Market Index Fund	WD-40 Company	Equity	1.446	Equity	372.894	0.007%	
JNL/Mellon U.S. Stock Market Index Fund	State Street Corporation	Equity	26.374	Equity	2,510.248	0.047%	
JNL/Mellon U.S. Stock Market Index Fund	Toll Brothers, Inc.	Equity	9.883	Equity	1,526.825	0.029%	
JNL/Mellon U.S. Stock Market Index Fund	Textron Inc.	Equity	18.161	Equity	1,399.065	0.026%	
JNL/Mellon U.S. Stock Market Index Fund	Vertex Pharmaceuticals Incorporated	Equity	25.139	Equity	11,691.646	0.221%	
JNL/Mellon U.S. Stock Market Index Fund	MicroStrategy Incorporated	Equity	16.239	Equity	2,737.895	0.052%	
JNL/Mellon U.S. Stock Market Index Fund	Avista Corporation	Equity	7.408	Equity	287.060	0.005%	
JNL/Mellon U.S. Stock Market Index Fund	Enpro Inc.	Equity	1.773	Equity	237.545	0.005%	
JNL/Mellon U.S. Stock Market Index Fund	Nasdaq, Inc.	Equity	36.577	Equity	2,616.507	0.053%	
JNL/Mellon U.S. Stock Market Index Fund	Urban Outfitters, Inc.	Equity	3.450	Equity	132.170	0.002%	
JNL/Mellon U.S. Stock Market Index Fund	Valley National Bancorp	Equity	44.498	Equity	408.047	0.008%	
JNL/Mellon U.S. Stock Market Index Fund	United Bankshares, Inc.	Equity	13.972	Equity	523.531	0.010%	
JNL/Mellon U.S. Stock Market Index Fund	Zebra Technologies Corporation	Equity	4.918	Equity	1,821.240	0.034%	
JNL/Mellon U.S. Stock Market Index Fund	Sonoco Products Company	Equity	10.158	Equity	554.932	0.010%	
JNL/Mellon U.S. Stock Market Index Fund	DaVita Inc.	Equity	4.818	Equity	789.815	0.015%	
JNL/Mellon U.S. Stock Market Index Fund	Valmont Industries, Inc.	Equity	1.834	Equity	532.869	0.010%	
JNL/Mellon U.S. Stock Market Index Fund	Principal Financial Group, Inc.	Equity	23.630	Equity	2,029.817	0.038%	
JNL/Mellon U.S. Stock Market Index Fund	Synagis Incorporated	Equity	4.434	Equity	343.990	0.006%	
JNL/Mellon U.S. Stock Market Index Fund	Toro Company, The	Equity	10.590	Equity	922.283	0.017%	
JNL/Mellon U.S. Stock Market Index Fund	Prudential Financial, Inc.	Equity	35.383	Equity	4,284.881	0.081%	
JNL/Mellon U.S. Stock Market Index Fund	Southwest Gas Holdings, Inc.	Equity	6.214	Equity	659.145	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	Union Pacific Corporation	Equity	59.132	Equity	14,574.855	0.275%	
JNL/Mellon U.S. Stock Market Index Fund	UMB Financial Corporation	Equity	4.164	Equity	439.302	0.008%	
JNL/Mellon U.S. Stock Market Index Fund	Thermo Fisher Scientific Inc.	Equity	37.023	Equity	22,915.855	0.433%	
JNL/Mellon U.S. Stock Market Index Fund	Walmart Inc.	Equity	423.269	Equity	4,098.141	0.078%	
JNL/Mellon U.S. Stock Market Index Fund	Chevron Corporation	Equity	165.767	Equity	24,412.506	0.461%	
JNL/Mellon U.S. Stock Market Index Fund	Nexstar Media Group, Inc.	Equity	2.643	Equity	437.020	0.008%	
JNL/Mellon U.S. Stock Market Index Fund	Tyler Technologies, Inc.	Equity	4.158	Equity	2,427.108	0.046%	
JNL/Mellon U.S. Stock Market Index Fund	The Southern Company	Equity	95.290	Equity	9,494.150	0.179%	
JNL/Mellon U.S. Stock Market Index Fund	Asbury Automotive Group, Inc.	Equity	1.888	Equity	450.458	0.009%	
JNL/Mellon U.S. Stock Market Index Fund	Skyworks Solutions, Inc.	Equity	15.913	Equity	1,571.727	0.030%	
JNL/Mellon U.S. Stock Market Index Fund	A. O. Smith Corporation	Equity	12.103	Equity	1,087.212	0.021%	
JNL/Mellon U.S. Stock Market Index Fund	Westinghouse Air Brake Technologies Corporation	Equity	17.437	Equity	3,169.523	0.060%	
JNL/Mellon U.S. Stock Market Index Fund	Light & Wonder, Inc.	Equity	8.326	Equity	755.418	0.014%	
JNL/Mellon U.S. Stock Market Index Fund	Cencora, Inc.	Equity	16.918	Equity	3,807.903	0.072%	
JNL/Mellon U.S. Stock Market Index Fund	Skyline Champion Corporation	Equity	6.363	Equity	603.531	0.011%	
JNL/Mellon U.S. Stock Market Index Fund	Centene Corporation	Equity	52.180	Equity	3,928.110	0.074%	
JNL/Mellon U.S. Stock Market Index Fund	UnitedHealth Group Incorporated	Equity	89.428	Equity	52,096.428	0.989%	
JNL/Mellon U.S. Stock Market Index Fund	Intuitive Surgical, Inc.	Equity	34.382	Equity	16,890.845	0.319%	
JNL/Mellon U.S. Stock Market Index Fund	AT&T Inc.	Equity	695.022	Equity	15,290.484	0.289%	
JNL/Mellon U.S. Stock Market Index Fund	Watts Water Technologies, Inc.	Equity	5.548	Equity	527.920	0.010%	
JNL/Mellon U.S. Stock Market Index Fund	The Sherman-Williams Company	Equity	22.944	Equity	8,758.050	0.165%	
JNL/Mellon U.S. Stock Market Index Fund	Zions Bancorporation, National Association	Equity	13.925	Equity	657.539	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	Silgan Holdings Inc.	Equity	6.880	Equity	361.200	0.007%	
JNL/Mellon U.S. Stock Market Index Fund	Southwest Airlines Co.	Equity	58.856	Equity	1,743.903	0.033%	
JNL/Mellon U.S. Stock Market Index Fund	Simpson Manufacturing Co., Inc.	Equity	4.544	Equity	869.130	0.016%	
JNL/Mellon U.S. Stock Market Index Fund	Southwestern Energy Company	Equity	90.580	Equity	644.024	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	Acuity Brands, Inc.	Equity	3.178	Equity	875.189	0.017%	
JNL/Mellon U.S. Stock Market Index Fund	Penske Automotive Group, Inc.	Equity	1.373	Equity	723.003	0.014%	
JNL/Mellon U.S. Stock Market Index Fund	Universal Health Services, Inc.	Equity	9.657	Equity	1,295.510	0.024%	
JNL/Mellon U.S. Stock Market Index Fund	Wynn Resorts, Limited	Equity	9.454	Equity	906.450	0.017%	
JNL/Mellon U.S. Stock Market Index Fund	Saia, Inc.	Equity	2.407	Equity	1,052.485	0.020%	
JNL/Mellon U.S. Stock Market Index Fund	Starbucks Corporation	Equity	110.787	Equity	10,800.625	0.204%	
JNL/Mellon U.S. Stock Market Index Fund	Watco, Inc.	Equity	3.414	Equity	1,079.278	0.020%	
JNL/Mellon U.S. Stock Market Index Fund	United Community Banks, Inc.	Equity	14.204	Equity	416.461	0.008%	
JNL/Mellon U.S. Stock Market Index Fund	Seniocyte, Inc.	Equity	8.947	Equity	545.767	0.010%	
JNL/Mellon U.S. Stock Market Index Fund	Woodward, Inc.	Equity	5.995	Equity	1,028.202	0.019%	
JNL/Mellon U.S. Stock Market Index Fund	Edison International	Equity	37.788	Equity	3,280.957	0.062%	
JNL/Mellon U.S. Stock Market Index Fund	The J. M. Smucker Company	Equity	10.074	Equity	1,219.961	0.023%	
JNL/Mellon U.S. Stock Market Index Fund	Waste Management, Inc.	Equity	35.681	Equity	7,407.376	0.140%	
JNL/Mellon U.S. Stock Market Index Fund	V.F. Corporation	Equity	28.789	Equity	574.341	0.011%	
JNL/Mellon U.S. Stock Market Index Fund	Synovis, Inc.	Equity	14.775	Equity	1,481.912	0.014%	
JNL/Mellon U.S. Stock Market Index Fund	Watens Corporation	Equity	5.773	Equity	2,077.645	0.039%	
JNL/Mellon U.S. Stock Market Index Fund	Teleflex Incorporated	Equity	4.271	Equity	1,056.304	0.020%	
JNL/Mellon U.S. Stock Market Index Fund	Williams Companies, Inc., The	Equity	118.425	Equity	5,406.101	0.102%	
JNL/Mellon U.S. Stock Market Index Fund	The Timken Company	Equity	6.832	Equity	575.869	0.011%	
JNL/Mellon U.S. Stock Market Index Fund	Williams-Sonoma, Inc.	Equity	12.124	Equity	1,976.250	0.036%	
JNL/Mellon U.S. Stock Market Index Fund	Alliant Energy Corporation	Equity	23.841	Equity	1,446.910	0.027%	
JNL/Mellon U.S. Stock Market Index Fund	Steel Dynamics, Inc.	Equity	14.695	Equity	1,859.505	0.035%	
JNL/Mellon U.S. Stock Market Index Fund	Webster Financial Corporation	Equity	18.703	Equity	871.747	0.016%	
JNL/Mellon U.S. Stock Market Index Fund	UGI Corporation	Equity	21.900	Equity	956.151	0.018%	
JNL/Mellon U.S. Stock Market Index Fund	Dick's Sporting Goods, Inc.	Equity	5.470	Equity	1,147.606	0.022%	
JNL/Mellon U.S. Stock Market Index Fund	Texas Capital Bancshares, Inc.	Equity	3.885	Equity	277.622	0.005%	
JNL/Mellon U.S. Stock Market Index Fund	Halozyme Therapeutics, Inc.	Equity	11.611	Equity	664.614	0.013%	
JNL/Mellon U.S. Stock Market Index Fund	Thor Industries, Inc.	Equity	5.567	Equity	611.548	0.012%	
JNL/Mellon U.S. Stock Market Index Fund	Formfactor, Inc.	Equity	6.999	Equity	321.954	0.006%	
JNL/Mellon U.S. Stock Market Index Fund	Whirlpool Corporation	Equity	4.630	Equity	495.410	0.009%	
JNL/Mellon U.S. Stock Market Index Fund	United States Steel Corporation	Equity	20.770	Equity	733.804	0.014%	
JNL/Mellon U.S. Stock Market Index Fund	Rush Enterprises, Inc.	Equity	7.057	Equity	1,071.927	0.020%	
JNL/Mellon U.S. Stock Market Index Fund	Sysco Corporation	Equity	47.522	Equity	3,709.567	0.070%	
JNL/Mellon U.S. Stock Market Index Fund	CME Group Inc.	Equity	34.649	Equity	7,645.302	0.144%	
JNL/Mellon U.S. Stock Market Index Fund	Carters, Inc.	Equity	2.447	Equity	159.006	0.003%	
JNL/Mellon U.S. Stock Market Index Fund	SkyWest, Inc.	Equity	3.314	Equity	281.796	0.005%	
JNL/Mellon U.S. Stock Market Index Fund	Southern Copper Corporation	Equity	8.307	Equity	1,860.871	0.018%	
JNL/Mellon U.S. Stock Market Index Fund	Tyson Foods, Inc.	Equity	28.701	Equity	1,709.432	0.032%	
JNL/Mellon U.S. Stock Market Index Fund	Teradyne, Inc.	Equity	14.527	Equity	1,945.601	0.037%	
JNL/Mellon U.S. Stock Market Index Fund	Service Corporation International	Equity	13.497	Equity	1,065.318	0.020%	
JNL/Mellon U.S. Stock Market Index Fund	Visbay Inter technology, Inc.	Equity	12.237	Equity	731.402	0.014%	
JNL/Mellon U.S. Stock Market Index Fund	SEI Investments Company	Equity	11.124	Equity	769.670	0.015%	
JNL/Mellon U.S. Stock Market Index Fund	Sensient Technologies Corporation	Equity	4.331	Equity	347.433	0.007%	
JNL/Mellon U.S. Stock Market Index Fund	Nellor, Inc.	Equity	41.857	Equity	29,687.914	0.561%	
JNL/Mellon U.S. Stock Market Index Fund	TLX Companies, Inc., The	Equity	110.461	Equity	12,983.586	0.245%	
JNL/Mellon U.S. Stock Market Index Fund	CarMax, Inc.	Equity	15.470	Equity	1,197.069	0.023%	
JNL/Mellon U.S. Stock Market Index Fund	Worthington Industries, Inc.	Equity	1.804	Equity	74.776	0.001%	
JNL/Mellon U.S. Stock Market Index Fund	Teres Corporation	Equity	6.354	Equity	536.190	0.010%	
JNL/Mellon U.S. Stock Market Index Fund	Moderna, Inc.	Equity	31.049	Equity	2,075.025	0.039%	
JNL/Mellon U.S. Stock Market Index Fund	Beacon Roofing Supply, Inc.	Equity	4.276	Equity	369.575	0.007%	
JNL/Mellon U.S. Stock Market Index Fund	Las Vegas Sands Corp.	Equity	40.018	Equity	2,014.506	0.038%	
JNL/Mellon U.S. Stock Market Index Fund	Amylam Pharmaceuticals, Inc.	Equity	12.156	Equity	3,343.265	0.063%	
JNL/Mellon U.S. Stock Market Index Fund	Dolby Laboratories, Inc.	Equity	5.672	Equity	44		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	Westlake Corporation			Equity	3,560	535,032	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Regions Financial Corporation			Equity	91,752	2,153,512	0.043%
JNL/Mellon U.S. Stock Market Index Fund	Assured Guaranty Ltd.			Equity	5,848	905,033	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Texas Roadhouse, Inc.			Equity	6,321	1,116,289	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Cohen & Steers, Inc.			Equity	916	87,890	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Gemworth Financial, Inc.			Equity	45,608	312,415	0.006%
JNL/Mellon U.S. Stock Market Index Fund	MarketAxess Holdings Inc.			Equity	3,551	909,766	0.017%
JNL/Mellon U.S. Stock Market Index Fund	EmerSys			Equity	4,106	419,017	0.008%
JNL/Mellon U.S. Stock Market Index Fund	NewMarket Corporation			Equity	591	327,644	0.006%
JNL/Mellon U.S. Stock Market Index Fund	ALLETE, Inc.			Equity	6,974	947,661	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Mondstine Power Systems, Inc.			Equity	4,451	4,120,513	0.078%
JNL/Mellon U.S. Stock Market Index Fund	Dominio's Pizza, Inc.			Equity	3,467	1,491,295	0.028%
JNL/Mellon U.S. Stock Market Index Fund	NorthWestern Corporation			Equity	5,469	312,936	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Ormat Technologies, Inc.			Equity	5,492	422,554	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Ciena Corporation			Equity	12,922	795,866	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Ameriprise Financial, Inc.			Equity	9,555	4,489,035	0.085%
JNL/Mellon U.S. Stock Market Index Fund	CommVault Systems, Inc.			Equity	3,859	593,707	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Belden Inc.			Equity	3,489	408,841	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Huntsman Corporation			Equity	19,195	464,543	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Western Alliance Bancorporation			Equity	11,121	961,855	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Morningstar, Inc.			Equity	2,575	821,734	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Delta Air Lines, Inc.			Equity	62,406	3,169,601	0.060%
JNL/Mellon U.S. Stock Market Index Fund	MasterCard Incorporated			Equity	80,210	39,607,598	0.748%
JNL/Mellon U.S. Stock Market Index Fund	Mercadolibre, Inc.			Equity	4,728	9,701,667	0.183%
JNL/Mellon U.S. Stock Market Index Fund	Discover Financial Services			Equity	23,843	3,344,934	0.063%
JNL/Mellon U.S. Stock Market Index Fund	RBC Bearings Incorporated			Equity	3,056	914,905	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Masimo Corporation			Equity	3,824	5,599,854	0.109%
JNL/Mellon U.S. Stock Market Index Fund	AECOM			Equity	13,219	1,365,126	0.026%
JNL/Mellon U.S. Stock Market Index Fund	AeroVironment, Inc.			Equity	2,707	542,754	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Owens Corning			Equity	8,473	1,495,654	0.028%
JNL/Mellon U.S. Stock Market Index Fund	EdService Holdings, Inc.			Equity	17,982	680,580	0.013%
JNL/Mellon U.S. Stock Market Index Fund	The Western Union Company			Equity	36,359	433,763	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Enstar Group Limited			Equity	774	248,911	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Cogent Communications Holdings, Inc.			Equity	5,344	405,716	0.008%
JNL/Mellon U.S. Stock Market Index Fund	CVR Energy, Inc.			Equity	66	1,520	0.000%
JNL/Mellon U.S. Stock Market Index Fund	CF International, Inc.			Equity	2,067	344,927	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Chipotle Mexican Grill, Inc.			Equity	132,240	7,619,669	0.144%
JNL/Mellon U.S. Stock Market Index Fund	First Solar, Inc.			Equity	10,279	2,563,994	0.048%
JNL/Mellon U.S. Stock Market Index Fund	Evercore Inc.			Equity	4,782	598,132	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Home BancShares, Inc.			Equity	20,200	2,487,218	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Spirit AeroSystems Holdings, Inc.			Equity	9,958	323,735	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Live Nation Entertainment, Inc.			Equity	15,313	1,676,620	0.032%
JNL/Mellon U.S. Stock Market Index Fund	Insulet Corporation			Equity	6,745	1,569,899	0.030%
JNL/Mellon U.S. Stock Market Index Fund	DexCom, Inc.			Equity	89,397	2,641,175	0.050%
JNL/Mellon U.S. Stock Market Index Fund	Crocs, Inc.			Equity	5,902	854,669	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Chart Industries, Inc.			Equity	4,132	512,946	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Armstrong World Industries, Inc.			Equity	3,783	497,200	0.009%
JNL/Mellon U.S. Stock Market Index Fund	GameStop Corp			Equity	39,817	827,284	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Teradata Corporation			Equity	10,383	315,020	0.006%
JNL/Mellon U.S. Stock Market Index Fund	RadNet, Inc.			Equity	6,884	477,681	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Interactive Brokers Group, Inc.			Equity	10,213	1,423,284	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Citizens Corporation			Equity	11,172	1,518,845	0.029%
JNL/Mellon U.S. Stock Market Index Fund	Avis Budget Group, Inc.			Equity	713	62,452	0.001%
JNL/Mellon U.S. Stock Market Index Fund	Super Micro Computer, Inc.			Equity	4,975	2,071,590	0.039%
JNL/Mellon U.S. Stock Market Index Fund	Invesco Ltd.			Equity	25,407	446,147	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Amicus Therapeutics, Inc.			Equity	26,865	286,918	0.005%
JNL/Mellon U.S. Stock Market Index Fund	TFS Financial Corporation			Equity	7,857	103,041	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Molson Coors Beverage Company			Equity	16,237	933,952	0.018%
JNL/Mellon U.S. Stock Market Index Fund	MSCI Inc.			Equity	7,828	4,563,176	0.086%
JNL/Mellon U.S. Stock Market Index Fund	Prestige Consumer Healthcare Inc.			Equity	5,162	572,480	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Lululemon Athletica Inc.			Equity	10,787	2,927,671	0.055%
JNL/Mellon U.S. Stock Market Index Fund	Builders FirstSource, Inc.			Equity	12,054	2,336,788	0.044%
JNL/Mellon U.S. Stock Market Index Fund	Broadridge Financial Solutions, Inc.			Equity	11,234	2,425,533	0.046%
JNL/Mellon U.S. Stock Market Index Fund	Bank of New York Mellon Corporation, The			Equity	73,154	5,256,846	0.099%
JNL/Mellon U.S. Stock Market Index Fund	Ulta Beauty, Inc.			Equity	4,580	2,784,204	0.054%
JNL/Mellon U.S. Stock Market Index Fund	CF Industries Holdings, Inc.			Equity	18,326	1,572,371	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Gespact Limited			Equity	14,267	559,409	0.011%
JNL/Mellon U.S. Stock Market Index Fund	TransDigm Group Incorporated			Equity	5,385	7,685,095	0.145%
JNL/Mellon U.S. Stock Market Index Fund	The Ensign Group, Inc.			Equity	5,072	730,767	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Portland General Electric Company			Equity	9,150	442,860	0.008%
JNL/Mellon U.S. Stock Market Index Fund	KBR, Inc.			Equity	14,408	940,554	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Walker & Dunlop, Inc.			Equity	3,940	447,545	0.008%
JNL/Mellon U.S. Stock Market Index Fund	First Interstate BancSystem, Inc.			Equity	4,381	231,271	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Marathon Petroleum Corporation			Equity	33,804	5,507,010	0.104%
JNL/Mellon U.S. Stock Market Index Fund	John Bean Technologies Corporation			Equity	2,812	277,010	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Fabrinet			Equity	3,168	749,042	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Indium Communications Inc.			Equity	12,627	384,492	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Post Holdings, Inc.			Equity	5,306	614,170	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Guidewire Software, Inc.			Equity	8,503	1,555,539	0.029%
JNL/Mellon U.S. Stock Market Index Fund	NXP Semiconductors N.V.			Equity	25,048	6,037,169	0.114%
JNL/Mellon U.S. Stock Market Index Fund	Huntington Ingalls Industries, Inc.			Equity	3,700	979,206	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Jazz Pharmaceuticals Public Limited Company			Equity	5,690	633,923	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Matador Resources Company			Equity	11,293	558,100	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Tesla Inc.			Equity	270,540	70,781,380	1.337%
JNL/Mellon U.S. Stock Market Index Fund	Primera, Inc.			Equity	3,175	841,851	0.016%
JNL/Mellon U.S. Stock Market Index Fund	First American Financial Corporation			Equity	11,296	1,455,648	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Acadia Healthcare Company, Inc.			Equity	9,564	606,453	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Booz Allen Hamilton Holding Corporation			Equity	12,694	2,066,075	0.039%
JNL/Mellon U.S. Stock Market Index Fund	Signt Jewellers Limited			Equity	4,759	490,843	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Accurate Public Limited Company			Equity	60,761	21,480,235	0.405%
JNL/Mellon U.S. Stock Market Index Fund	Stanley Black & Decker, Inc.			Equity	14,425	1,588,625	0.030%
JNL/Mellon U.S. Stock Market Index Fund	O'Reilly Automotive, Inc.			Equity	5,677	6,537,633	0.124%
JNL/Mellon U.S. Stock Market Index Fund	Select Medical Holdings Corporation			Equity	6,659	301,939	0.006%
JNL/Mellon U.S. Stock Market Index Fund	SSAC Technologies Holdings, Inc.			Equity	20,364	1,500,212	0.029%
JNL/Mellon U.S. Stock Market Index Fund	Motorola Solutions, Inc.			Equity	16,208	7,303,487	0.138%
JNL/Mellon U.S. Stock Market Index Fund	Hillenbrand, Inc.			Equity	6,536	181,701	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Inoretron Incorporated			Equity	5,852	804,240	0.015%
JNL/Mellon U.S. Stock Market Index Fund	LPL Financial Holdings Inc.			Equity	7,013	1,357,434	0.025%
JNL/Mellon U.S. Stock Market Index Fund	Fortinet, Inc.			Equity	62,679	4,860,756	0.092%
JNL/Mellon U.S. Stock Market Index Fund	XPO, Inc.			Equity	10,490	1,127,780	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Targa Resources Corp.			Equity	21,030	3,112,650	0.059%
JNL/Mellon U.S. Stock Market Index Fund	HCA Healthcare, Inc.			Equity	18,449	7,612,497	0.142%
JNL/Mellon U.S. Stock Market Index Fund	Ralph Lauren Corporation			Equity	4,296	836,410	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Yelp Inc.			Equity	6,660	233,633	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Bright Horizons Family Solutions, Inc.			Equity	6,091	863,532	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Transcension Ltd.			Equity	80,738	2,653,585	0.050%
JNL/Mellon U.S. Stock Market Index Fund	Graphic Packaging Holding Company			Equity	32,410	862,520	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Allison Systems, Inc.			Equity	9,208	884,613	0.017%
JNL/Mellon U.S. Stock Market Index Fund	The Wendy's Company			Equity	18,916	331,408	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Expedia Group, Inc.			Equity	12,746	1,886,663	0.036%
JNL/Mellon U.S. Stock Market Index Fund	SPS Commerce, Inc.			Equity	3,225	626,186	0.012%
JNL/Mellon U.S. Stock Market Index Fund	American Water Works Company, Inc.			Equity	18,849	2,756,478	0.052%
JNL/Mellon U.S. Stock Market Index Fund	PVH Corp.			Equity	5,121	516,350	0.010%
JNL/Mellon U.S. Stock Market Index Fund	General Motors Company			Equity	110,527	4,956,031	0.094%
JNL/Mellon U.S. Stock Market Index Fund	Activ PLC			Equity	23,704	1,706,925	0.032%
JNL/Mellon U.S. Stock Market Index Fund	Phillips 66			Equity	40,531	5,327,800	0.101%
JNL/Mellon U.S. Stock Market Index Fund	Dollar General Corporation			Equity	22,275	1,883,797	0.036%
JNL/Mellon U.S. Stock Market Index Fund	LyondellBasell Industries N.V.			Equity	26,007	2,494,071	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Xylem Inc.			Equity	23,308	3,147,278	0.059%
JNL/Mellon U.S. Stock Market Index Fund	United Airlines Holdings, Inc.			Equity	32,907	1,877,673	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Visteon Corporation			Equity	3,283	312,673	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Ally Financial Inc.			Equity	28,378	1,009,973	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Grand Canyon Education, Inc.			Equity	3,389	480,730	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Pilgrim's Pride Corporation			Equity	4,440	204,462	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Visa Inc.			Equity	161,741	44,470,688	0.840%
JNL/Mellon U.S. Stock Market Index Fund	Verisk Analytics, Inc.			Equity	14,183	3,800,477	0.072%
JNL/Mellon U.S. Stock Market Index Fund	Hyatt Hotels Corporation			Equity	3,476	529,047	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Mosaic Company, The			Equity	28,885	773,540	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Generac Holdings Inc.			Equity	6,086	966,944	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Leap Corporation			Equity	4,386	478,732	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Gamm Ltd.			Equity	14,961	2,633,585	0.050%
JNL/Mellon U.S. Stock Market Index Fund	MCOM Technology Solutions Holdings, Inc.			Equity	6,061	674,347	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Aikermes Public Limited Company			Equity	16,131	451,507	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Globus Medical, Inc.			Equity	11,813	845,102	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Air Lease Corporation			Equity	11,357	516,744	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Fortune Brands Innovations, Inc.			Equity	11,818	1,068,066	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Chubb Limited			Equity	37,113	10,738,923	0.203%
JNL/Mellon U.S. Stock Market Index Fund	EPAM Systems, Inc.			Equity	5,255	1,045,903	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Kinder Morgan, Inc.			Equity	194,487	4,296,218	0.081%
JNL/Mellon U.S. Stock Market Index Fund	EBF Energy Inc.			Equity	7,393	728,813	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Zurich American Corporation			Equity	5,592	342,510	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Marriott Vacations Worldwide Corporation			Equity	2,062	153,083	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Philip Morris International Inc.			Equity	150,194	18,436,514	0.348%
JNL/Mellon U.S. Stock Market Index Fund	Acushnet Holdings Corp.			Equity	2,229	3,420,000	0.065%
JNL/Mellon U.S. Stock Market Index Fund	Berry Global Group, Inc.			Equity	12,445	846,011	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Axcelis Technologies, Inc.			Equity	2,811	294,733	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Meta Platforms, Inc.			Equity	213,143	122,011,578	2.305%
JNL/Mellon U.S. Stock Market Index Fund	Kinsale Capital Group, Inc.			Equity	2,044	951,625	0.018%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	Duke Energy Corporation			Equity	74,560	8,596,768	0.162%
JNL/Mellon U.S. Stock Market Index Fund	Valmetine, Inc.			Equity	12,548	1,235,134	0.010%
JNL/Mellon U.S. Stock Market Index Fund	ServiceNow, Inc.			Equity	19,984	17,873,490	0.338%
JNL/Mellon U.S. Stock Market Index Fund	Qualys, Inc.			Equity	3,578	459,630	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Diamondback Energy, Inc.			Equity	16,471	2,839,600	0.054%
JNL/Mellon U.S. Stock Market Index Fund	Cytokinetics, Incorporated			Equity	12,992	685,978	0.013%
JNL/Mellon U.S. Stock Market Index Fund	CDW Corp.			Equity	13,199	2,988,934	0.056%
JNL/Mellon U.S. Stock Market Index Fund	Willis Towers Watson Public Limited Company			Equity	9,915	2,928,990	0.055%
JNL/Mellon U.S. Stock Market Index Fund	Popular, Inc.			Equity	7,214	727,820	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Intra-Cellular Therapies, Inc.			Equity	8,296	607,018	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Zoetis Inc.			Equity	44,243	8,644,197	0.163%
JNL/Mellon U.S. Stock Market Index Fund	US Foods Holding Corp.			Equity	22,055	1,356,383	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Novanta Inc.			Equity	3,818	683,117	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Taylor Morrison Home I Corporation			Equity	9,003	632,551	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Integer Holdings Corporation			Equity	3,738	465,940	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Canicle Pharmaceuticals, Inc.			Equity	1,528	324,272	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Trade Desk, Inc., The			Equity	43,094	4,725,257	0.089%
JNL/Mellon U.S. Stock Market Index Fund	News Corporation			Equity	37,847	1,006,304	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Adient Public Limited Company			Equity	8,479	191,371	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Murphy USA Inc.			Equity	2,142	1,065,728	0.020%
JNL/Mellon U.S. Stock Market Index Fund	KKR & Co. Inc.			Equity	64,020	8,359,732	0.158%
JNL/Mellon U.S. Stock Market Index Fund	Innis Pharmaceuticals, Inc.			Equity	11,368	455,402	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Tenet Healthcare Corporation			Equity	9,713	1,614,301	0.031%
JNL/Mellon U.S. Stock Market Index Fund	e.l.f. Beauty, Inc.			Equity	6,154	670,971	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Sprouts Farmers Market, Inc.			Equity	9,319	1,028,911	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Artisan Partners Asset Management Inc.			Equity	6,528	282,793	0.005%
JNL/Mellon U.S. Stock Market Index Fund	News Corporation			Equity	9,135	1,238,187	0.024%
JNL/Mellon U.S. Stock Market Index Fund	First Hawaiian, Inc.			Equity	10,424	241,316	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Medpace Holdings, Inc.			Equity	2,502	835,168	0.016%
JNL/Mellon U.S. Stock Market Index Fund	GoDaddy Inc.			Equity	13,506	2,117,471	0.040%
JNL/Mellon U.S. Stock Market Index Fund	KQWA Holdings Inc.			Equity	17,708	4,186,295	0.078%
JNL/Mellon U.S. Stock Market Index Fund	PTC Inc.			Equity	11,677	2,108,567	0.040%
JNL/Mellon U.S. Stock Market Index Fund	Five Below, Inc.			Equity	5,497	485,660	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Hubbell Incorporated			Equity	5,172	2,215,426	0.042%
JNL/Mellon U.S. Stock Market Index Fund	Gales Industrial Corporation PLC			Equity	10,900	191,295	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Waterstar Inc.			Equity	9,711	509,517	0.009%
JNL/Mellon U.S. Stock Market Index Fund	T-Mobile US, Inc.			Equity	46,176	9,528,879	0.180%
JNL/Mellon U.S. Stock Market Index Fund	American Airlines Group Inc.			Equity	65,571	737,018	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Snip Inc.			Equity	104,130	1,114,191	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Mondelēz International, Inc.			Equity	130,816	9,698,698	0.183%
JNL/Mellon U.S. Stock Market Index Fund	Twilio Inc.			Equity	15,686	1,023,041	0.019%
JNL/Mellon U.S. Stock Market Index Fund	AbbVie Inc.			Equity	171,614	33,890,333	0.640%
JNL/Mellon U.S. Stock Market Index Fund	TRI Pointe Homes Holdings, Inc.			Equity	3,446	156,138	0.003%
JNL/Mellon U.S. Stock Market Index Fund	CRISPR Therapeutics AG			Equity	8,137	382,278	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Samina Corporation			Equity	5,437	372,163	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Boise Cascade Company			Equity	3,748	528,393	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Palo Alto Networks, Inc.			Equity	31,485	10,761,573	0.203%
JNL/Mellon U.S. Stock Market Index Fund	Matsen Intermodal - Paragon, Inc.			Equity	2,623	213,464	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Oktia, Inc.			Equity	15,190	1,129,225	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Lamb Weston Holdings, Inc.			Equity	13,120	849,389	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Tapestry, Inc.			Equity	21,087	990,667	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Sarepta Therapeutics, Inc.			Equity	7,987	297,496	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Norwegian Cruise Line Holdings Ltd.			Equity	44,309	908,778	0.017%
JNL/Mellon U.S. Stock Market Index Fund	United Parks And Resorts Inc.			Equity	3,307	167,334	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Wex, Inc.			Equity	4,236	888,416	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Alkermes Inc.			Equity	3,691	312,775	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Eaton Corporation Public Limited Company			Equity	38,990	12,922,845	0.244%
JNL/Mellon U.S. Stock Market Index Fund	Coty Inc.			Equity	40,049	376,060	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Baker Hughes Company			Equity	96,943	3,504,489	0.066%
JNL/Mellon U.S. Stock Market Index Fund	Blackline, Inc.			Equity	4,971	274,101	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Workday, Inc.			Equity	20,471	5,003,517	0.095%
JNL/Mellon U.S. Stock Market Index Fund	Former Charter Communications Parent, Inc.			Equity	9,444	3,060,612	0.058%
JNL/Mellon U.S. Stock Market Index Fund	Fidelity National Financial, Inc.			Equity	24,104	1,495,894	0.028%
JNL/Mellon U.S. Stock Market Index Fund	Peabody Energy Corporation			Equity	12,996	444,914	0.007%
JNL/Mellon U.S. Stock Market Index Fund	The Capra Group			Equity	27,134	9,400,303	0.178%
JNL/Mellon U.S. Stock Market Index Fund	Premier Healthcare Solutions, Inc.			Equity	9,417	188,340	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Vistra Corp.			Equity	31,799	3,769,453	0.071%
JNL/Mellon U.S. Stock Market Index Fund	Herc Holdings Inc.			Equity	2,480	395,386	0.007%
JNL/Mellon U.S. Stock Market Index Fund	OxcoSign, Inc.			Equity	20,038	1,244,159	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Floor & Decor Holdings, Inc.			Equity	9,859	1,224,192	0.023%
JNL/Mellon U.S. Stock Market Index Fund	Cactus, Inc.			Equity	7,295	435,293	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Essent Group Ltd.			Equity	10,744	690,732	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Evergy, Inc.			Equity	23,272	3,443,987	0.065%
JNL/Mellon U.S. Stock Market Index Fund	Arctost Corporation			Equity	2,726	295,635	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Science Applications International Corporation			Equity	3,876	539,811	0.010%
JNL/Mellon U.S. Stock Market Index Fund	FiveB, Inc.			Equity	7,499	215,446	0.004%
JNL/Mellon U.S. Stock Market Index Fund	CNV Resources Corporation			Equity	13,247	434,712	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Southstate Corporation			Equity	6,589	640,319	0.012%
JNL/Mellon U.S. Stock Market Index Fund	O2 Holdings, Inc.			Equity	6,107	487,155	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Axon Enterprise, Inc.			Equity	7,081	2,829,568	0.053%
JNL/Mellon U.S. Stock Market Index Fund	Knight-Swift Transportation Holdings Inc.			Equity	10,329	880,950	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Varonis Systems, Inc.			Equity	10,242	578,673	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Warrior Met Coal, Inc.			Equity	3,324	212,404	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Cleveland-Cliffs Inc.			Equity	56,530	721,888	0.014%
JNL/Mellon U.S. Stock Market Index Fund	One Gas, Inc.			Equity	5,567	414,296	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Qoro, Inc.			Equity	9,569	988,478	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Pentair Public Limited Company			Equity	16,688	1,631,920	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Aramark			Equity	26,512	1,026,810	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Simply Good Foods Company, The			Equity	11,895	274,509	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Sensata Technologies Holding PLC			Equity	16,650	1,040,836	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Brighthouse Financial, Inc.			Equity	6,144	276,664	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Burlington Stores, Inc.			Equity	6,068	1,598,797	0.030%
JNL/Mellon U.S. Stock Market Index Fund	HealthEquity, Inc.			Equity	8,882	726,992	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Dropbox, Inc.			Equity	26,571	675,701	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Paylocity Holding Corporation			Equity	4,564	752,923	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Hamilton Lane Incorporated			Equity	3,740	631,611	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Broadcom Inc.			Equity	443,122	76,438,545	1.444%
JNL/Mellon U.S. Stock Market Index Fund	Lexipol Holdings, Inc.			Equity	13,288	2,185,944	0.041%
JNL/Mellon U.S. Stock Market Index Fund	ServisFirst Bancshares, Inc.			Equity	4,965	399,434	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Booking Holdings Inc.			Equity	3,307	13,929,481	0.263%
JNL/Mellon U.S. Stock Market Index Fund	Moele & Company			Equity	6,760	463,128	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Vreux Systems Inc.			Equity	14,683	3,082,151	0.058%
JNL/Mellon U.S. Stock Market Index Fund	Mine Safety Appliances Company, LLC			Equity	3,462	613,951	0.012%
JNL/Mellon U.S. Stock Market Index Fund	ASGN Incorporated			Equity	4,772	444,894	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Synovus Financial Corp.			Equity	15,044	674,723	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Insafell Building Products, Inc.			Equity	2,544	626,511	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Arteno Resources Corporation			Equity	29,003	830,626	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Victory Capital Holdings, Inc.			Equity	5,449	301,875	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Alleagon Public Limited Company			Equity	8,790	1,281,055	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Vova Financial, Inc.			Equity	10,223	809,866	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Intercontinental Exchange, Inc.			Equity	65,325	888,408	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Paycom Software, Inc.			Equity	5,401	899,645	0.017%
JNL/Mellon U.S. Stock Market Index Fund	ADT, Inc.			Equity	20,374	148,425	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Ultragenyx Pharmaceutical Inc.			Equity	9,053	502,894	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Avent Electric Public Limited Company			Equity	17,181	1,207,137	0.023%
JNL/Mellon U.S. Stock Market Index Fund	ITT Inc.			Equity	7,809	1,167,524	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Wyndham Hotels & Resorts, Inc.			Equity	8,937	698,337	0.013%
JNL/Mellon U.S. Stock Market Index Fund	CNH Industrial N.V.			Equity	90,994	1,010,033	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Jeffries Financial Group Inc.			Equity	15,145	932,175	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Arista Networks, Inc.			Equity	24,925	9,566,714	0.181%
JNL/Mellon U.S. Stock Market Index Fund	Perigo Company Public Limited Company			Equity	12,485	327,482	0.006%
JNL/Mellon U.S. Stock Market Index Fund	S&P Global Inc.			Equity	30,411	15,710,931	0.297%
JNL/Mellon U.S. Stock Market Index Fund	Inovance Biotherapeutics, Inc.			Equity	15,646	1,175,086	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Weatherford International Public Limited Company			Equity	7,801	662,461	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Janus Henderson Group PLC			Equity	10,986	418,237	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Equity Residential			Equity	34,312	2,578,032	0.049%
JNL/Mellon U.S. Stock Market Index Fund	Archrock, Inc.			Equity	13,943	1,042,208	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	5,728	556,762	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Kraft Heinz Company, The			Equity	82,202	2,886,112	0.055%
JNL/Mellon U.S. Stock Market Index Fund	AppFolio, Inc.			Equity	1,924	452,910	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Elevance Health, Inc.			Equity	22,564	11,733,280	0.222%
JNL/Mellon U.S. Stock Market Index Fund	Citizens Financial Group, Inc.			Equity	46,133	1,584,626	0.030%
JNL/Mellon U.S. Stock Market Index Fund	EastGroup Properties, Inc.			Equity	4,799	903,268	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Penumbra, Inc.			Equity	3,950	767,525	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Planet Fitness, Inc.			Equity	7,937	644,643	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Independence Holdings, LLC			Equity	9,881	465,069	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Aronwood Pharmaceuticals Inc			Equity	6,428	124,510	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Apellis Pharmaceuticals, Inc.			Equity	10,484	302,359	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Shake Shack, Inc.			Equity	3,002	309,836	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Lantheus Holdings, Inc.			Equity	6,889	675,880	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Encompass Health Corporation			Equity	10,511	1,015,783	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Zillow Group, Inc.			Equity	5,990	370,961	0.007%
JNL/Mellon U.S. Stock Market Index Fund	PollachDeRoe Corporation			Equity	8,647	389,547	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Pure Storage, Inc.			Equity	29,850	1,699,664	0.032%
JNL/Mellon U.S. Stock Market Index Fund	Iron Mountain Incorporated			Equity	28,389	3,393,763	0.064%
JNL/Mellon U.S. Stock Market Index Fund	TransUnion			Equity	18,253	1,911,089	0.036%
JNL/Mellon U.S. Stock Market Index Fund	Walgreens Boots Alliance, Inc.			Equity	74,764	669,885	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Freshtip, Inc.			Equity	3,975	543,661	0.010%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	LivaNova PLC			Equity	4,858	255,239	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Eversource Energy			Equity	83,740	2,396,087	0.043%
JNL/Mellon U.S. Stock Market Index Fund	Sphere Entertainment Co.			Equity	1,097	228,461	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Avalla Coating Systems Ltd.			Equity	21,679	784,563	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Catalent, Inc.			Equity	18,596	1,126,360	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Spire Inc.			Equity	4,500	336,203	0.006%
JNL/Mellon U.S. Stock Market Index Fund	ETSY, Inc.			Equity	10,797	699,557	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Performance Food Group Company			Equity	15,357	1,203,528	0.023%
JNL/Mellon U.S. Stock Market Index Fund	Zillow Group, Inc.			Equity	16,058	1,025,303	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Alphabet Inc.			Equity	571,312	94,752,095	1.760%
JNL/Mellon U.S. Stock Market Index Fund	Evolent Health, Inc.			Equity	11,120	5,114,474	0.096%
JNL/Mellon U.S. Stock Market Index Fund	Keylight Technologies, Inc.			Equity	17,161	2,727,398	0.052%
JNL/Mellon U.S. Stock Market Index Fund	SiteOne Landscape Supply, Inc.			Equity	4,842	730,706	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Synchrony Financial			Equity	39,827	1,986,571	0.038%
JNL/Mellon U.S. Stock Market Index Fund	Block, Inc.			Equity	54,973	3,690,337	0.070%
JNL/Mellon U.S. Stock Market Index Fund	Spry, LLC			Equity	6,273	202,242	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Hewlett Packard Enterprise Company			Equity	129,375	2,663,831	0.050%
JNL/Mellon U.S. Stock Market Index Fund	Red Rock Resorts, Inc.			Equity	3,762	204,803	0.004%
JNL/Mellon U.S. Stock Market Index Fund	GMS Inc.			Equity	4,293	389,817	0.007%
JNL/Mellon U.S. Stock Market Index Fund	SolarEdge Technologies Ltd.			Equity	6,391	146,418	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Broadband Corporation			Equity	915	70,290	0.001%
JNL/Mellon U.S. Stock Market Index Fund	Alphabet Inc.			Equity	508,207	84,967,128	1.605%
JNL/Mellon U.S. Stock Market Index Fund	AVANGRID, Inc.			Equity	9,151	331,541	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Dentsply Sirona Inc.			Equity	17,669	480,950	0.009%
JNL/Mellon U.S. Stock Market Index Fund	The Chemours Company			Equity	9,588	194,828	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Dell Technologies Inc.			Equity	25,556	3,029,408	0.057%
JNL/Mellon U.S. Stock Market Index Fund	Monster Beverage 1993 Corporation			Equity	71,592	3,134,952	0.051%
JNL/Mellon U.S. Stock Market Index Fund	Apple Hospitality REIT, Inc.			Equity	15,799	235,879	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Broadband Corporation			Equity	12,799	989,235	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Hilton Grand Vacations Inc.			Equity	7,699	279,628	0.005%
JNL/Mellon U.S. Stock Market Index Fund	DXC Technology Company			Equity	14,387	286,738	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Wayfair Inc.			Equity	11,456	1,645,845	0.031%
JNL/Mellon U.S. Stock Market Index Fund	HubSpot, Inc.			Equity	5,013	2,664,911	0.050%
JNL/Mellon U.S. Stock Market Index Fund	HP, Inc.			Equity	95,198	3,440,989	0.065%
JNL/Mellon U.S. Stock Market Index Fund	Paycom Holdings, Inc.			Equity	100,289	7,825,551	0.148%
JNL/Mellon U.S. Stock Market Index Fund	Johnson Controls International Public Limited Company			Equity	65,525	5,111,240	0.091%
JNL/Mellon U.S. Stock Market Index Fund	Zscaler, Inc.			Equity	9,155	1,564,956	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Irhythm Technologies, Inc.			Equity	1,535	113,958	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Advanced Drainage Systems, Inc.			Equity	7,171	1,126,994	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Nutanix, Inc.			Equity	23,230	1,376,378	0.026%
JNL/Mellon U.S. Stock Market Index Fund	AGNC Investment Corp.			Equity	70,418	745,022	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Bio-Techne Corporation			Equity	14,489	1,158,106	0.022%
JNL/Mellon U.S. Stock Market Index Fund	Box, Inc.			Equity	16,014	524,138	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Alarm.com Holdings, Inc.			Equity	5,075	577,556	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Alcoa Corporation			Equity	22,188	856,013	0.016%
JNL/Mellon U.S. Stock Market Index Fund	International Seaways, Inc.			Equity	1,708	88,064	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Workiva Inc.			Equity	5,493	434,606	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Windstar Inc.			Equity	2,721	1,132,154	0.021%
JNL/Mellon U.S. Stock Market Index Fund	TopBuild Corp.			Equity	3,250	1,322,133	0.025%
JNL/Mellon U.S. Stock Market Index Fund	Medical Properties Trust, Inc.			Equity	38,457	230,127	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Houlihan Lokey, Inc.			Equity	4,880	771,138	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Glaucus Corporation			Equity	4,969	447,361	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Natera, Inc.			Equity	11,869	1,506,770	0.028%
JNL/Mellon U.S. Stock Market Index Fund	Hilton Worldwide Holdings Inc.			Equity	23,487	5,413,754	0.102%
JNL/Mellon U.S. Stock Market Index Fund	Achard Inc.			Equity	5,307	461,550	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Medtronic, Inc.			Equity	126,309	11,450,018	0.217%
JNL/Mellon U.S. Stock Market Index Fund	SH			Equity	1,324	442,785	0.008%
JNL/Mellon U.S. Stock Market Index Fund	CSW Industrials, Inc.			Equity	1,543	565,340	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Summit Materials, Inc.			Equity	11,780	459,773	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Boji Barn Holdings, Inc.			Equity	2,953	483,978	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Blueprint Medicines Corporation			Equity	8,205	574,249	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Rapid7, Inc.			Equity	7,685	305,555	0.006%
JNL/Mellon U.S. Stock Market Index Fund	LCI Industries			Equity	3,272	394,407	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Fortive Corporation			Equity	33,407	2,636,815	0.050%
JNL/Mellon U.S. Stock Market Index Fund	Lumentum Holdings Inc.			Equity	7,466	473,195	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Capri Holdings Limited			Equity	11,942	506,818	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Crown Castle Inc.			Equity	42,236	5,010,457	0.095%
JNL/Mellon U.S. Stock Market Index Fund	WEC Energy Group Inc.			Equity	30,767	2,959,170	0.056%
JNL/Mellon U.S. Stock Market Index Fund	Equinix, Inc.			Equity	9,249	8,009,693	0.152%
JNL/Mellon U.S. Stock Market Index Fund	American Homes 4 Rent			Equity	32,790	1,258,808	0.024%
JNL/Mellon U.S. Stock Market Index Fund	BWXT Government Group, Inc.			Equity	9,390	1,020,693	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Sabra Health Care REIT, Inc.			Equity	22,521	419,116	0.008%
JNL/Mellon U.S. Stock Market Index Fund	COFV Defense Properties			Equity	9,450	1,069,408	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Alexandria Real Estate Equities, Inc.			Equity	15,489	1,869,454	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Gaming and Leisure Properties, Inc.			Equity	23,841	1,226,619	0.023%
JNL/Mellon U.S. Stock Market Index Fund	Camden Property Trust			Equity	10,071	1,254,444	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Prologis Inc.			Equity	90,206	11,391,214	0.215%
JNL/Mellon U.S. Stock Market Index Fund	Agree Realty Corporation			Equity	8,412	635,779	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Tanger Inc.			Equity	10,837	359,572	0.007%
JNL/Mellon U.S. Stock Market Index Fund	W.P. Carey Inc.			Equity	20,152	1,273,103	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Invitation Homes Inc.			Equity	53,591	1,954,624	0.037%
JNL/Mellon U.S. Stock Market Index Fund	Cubismatt, L.P.			Equity	23,160	1,246,703	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Americo Realty Trust, Inc.			Equity	27,752	790,654	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Starwood Property Trust, Inc.			Equity	27,194	567,267	0.011%
JNL/Mellon U.S. Stock Market Index Fund	NNN REIT, Inc.			Equity	16,366	793,587	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Realty Income Corporation			Equity	83,687	5,307,439	0.100%
JNL/Mellon U.S. Stock Market Index Fund	Kilroy Realty Corporation			Equity	12,984	509,492	0.010%
JNL/Mellon U.S. Stock Market Index Fund	Kimco Realty OP, LLC			Equity	68,391	1,588,041	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Public Storage Operating Company			Equity	15,401	5,603,962	0.106%
JNL/Mellon U.S. Stock Market Index Fund	Equity Lifestyle Properties, Inc.			Equity	18,301	1,014,478	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Brixmor Property Group Inc.			Equity	28,497	793,926	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Sun Communities, Inc.			Equity	11,889	1,617,874	0.031%
JNL/Mellon U.S. Stock Market Index Fund	STAG Industrial, Inc.			Equity	15,448	605,768	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Vornado Realty Trust			Equity	16,210	638,674	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Rexford Industrial Realty, Inc.			Equity	18,849	956,163	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Simon Property Group, Inc.			Equity	29,623	5,006,879	0.095%
JNL/Mellon U.S. Stock Market Index Fund	Essex Property Trust, Inc.			Equity	6,043	1,800,028	0.034%
JNL/Mellon U.S. Stock Market Index Fund	American Tower Corporation			Equity	45,449	10,569,619	0.202%
JNL/Mellon U.S. Stock Market Index Fund	Rayonier Inc.			Equity	14,831	477,262	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Omega Healthcare Investors, Inc.			Equity	25,289	1,029,262	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Host Hotels & Resorts, Inc.			Equity	64,653	1,150,823	0.022%
JNL/Mellon U.S. Stock Market Index Fund	CBRE Group, Inc.			Equity	29,757	3,704,151	0.070%
JNL/Mellon U.S. Stock Market Index Fund	Pymat Hospitality Properties, Inc.			Equity	5,159	558,926	0.011%
JNL/Mellon U.S. Stock Market Index Fund	AvalonBay Communities, Inc.			Equity	13,955	3,167,087	0.060%
JNL/Mellon U.S. Stock Market Index Fund	Weyerhaeuser Company			Equity	71,998	2,437,852	0.046%
JNL/Mellon U.S. Stock Market Index Fund	Extra Space Storage Inc.			Equity	20,351	3,687,047	0.069%
JNL/Mellon U.S. Stock Market Index Fund	Independence Realty Trust, Inc.			Equity	25,331	823,338	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Caretrust REIT, Inc.			Equity	15,576	485,192	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Ventas, Inc.			Equity	38,730	2,483,755	0.047%
JNL/Mellon U.S. Stock Market Index Fund	Tierreo Realty Corporation			Equity	9,797	559,534	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Digital Realty Trust, Inc.			Equity	31,375	5,077,416	0.096%
JNL/Mellon U.S. Stock Market Index Fund	Welltower Inc.			Equity	58,654	7,509,472	0.142%
JNL/Mellon U.S. Stock Market Index Fund	Regency Centers Corporation			Equity	15,459	1,126,961	0.021%
JNL/Mellon U.S. Stock Market Index Fund	The Macerich Company			Equity	21,082	384,536	0.007%
JNL/Mellon U.S. Stock Market Index Fund	LXP Industrial Trust			Equity	25,527	259,865	0.005%
JNL/Mellon U.S. Stock Market Index Fund	First Industrial Realty Trust, Inc.			Equity	11,073	623,964	0.012%
JNL/Mellon U.S. Stock Market Index Fund	EPR Properties			Equity	7,570	373,390	0.007%
JNL/Mellon U.S. Stock Market Index Fund	UDR, Inc.			Equity	30,292	1,373,439	0.026%
JNL/Mellon U.S. Stock Market Index Fund	BXP, Inc.			Equity	15,158	1,234,468	0.023%
JNL/Mellon U.S. Stock Market Index Fund	Blackstone Mortgage Trust, Inc.			Equity	12,551	244,493	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Park Hotels & Resorts Inc.			Equity	18,404	264,097	0.005%
JNL/Mellon U.S. Stock Market Index Fund	RITHM Capital Corp.			Equity	50,738	5,575,876	0.111%
JNL/Mellon U.S. Stock Market Index Fund	Lamar Advertising Company			Equity	8,223	3,068,593	0.052%
JNL/Mellon U.S. Stock Market Index Fund	SBA Communications Corporation			Equity	10,228	2,461,880	0.047%
JNL/Mellon U.S. Stock Market Index Fund	VICI Properties Inc.			Equity	99,760	3,366,152	0.064%
JNL/Mellon U.S. Stock Market Index Fund	National Storage Affiliates Trust			Equity	6,743	325,013	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Kosmos Energy Ltd			Equity	54,091	2,117,987	0.040%
JNL/Mellon U.S. Stock Market Index Fund	Kite Realty Nagsville, LLC			Equity	17,701	470,139	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Altair Engineering Inc.			Equity	5,209	497,512	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Element Solutions Inc.			Equity	24,775	672,889	0.013%
JNL/Mellon U.S. Stock Market Index Fund	Innovative Industrial Properties, Inc.			Equity	2,881	289,257	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Keurig Dr Pepper, Inc.			Equity	105,084	3,962,143	0.075%
JNL/Mellon U.S. Stock Market Index Fund	Anero Midstream Corporation			Equity	22,475	338,249	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Fox Corporation			Equity	15,380	596,744	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Fox Corporation			Equity	21,983	930,540	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Steris Public Limited Company			Equity	9,359	2,099,932	0.043%
JNL/Mellon U.S. Stock Market Index Fund	Lyft, Inc.			Equity	32,961	420,253	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Dow Inc.			Equity	68,913	3,764,717	0.071%
JNL/Mellon U.S. Stock Market Index Fund	Enphase Energy, Inc.			Equity	12,488	1,411,394	0.027%
JNL/Mellon U.S. Stock Market Index Fund	Tadpole Markets Inc.			Equity	11,089	1,371,377	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Tenable Holdings, Inc.			Equity	10,940	443,289	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Roku Inc.			Equity	10,916	814,989	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Pinterest, Inc.			Equity	57,774	1,870,144	0.035%
JNL/Mellon U.S. Stock Market Index Fund	Zoom Video Communications, Inc.			Equity	23,593	1,945,376	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Uber Technologies, Inc.			Equity	196,398	14,761,274	0.279%
JNL/Mellon U.S. Stock Market Index Fund	Spectrum Brands Holdings, Inc.			Equity	2,972	282,756	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Bank OZK			Equity	7,582	325,950	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Avantor, Inc.			Equity	66,725	3,777,916	0.074%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon U.S. Stock Market Index Fund	Konitor Brands, Inc.			Equity	5,641	461,321	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Krysal Biotech, Inc.			Equity	2,501	455,257	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Crinetics Pharmaceuticals, Inc.			Equity	6,998	357,598	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Vim Consolidated, Inc.			Equity	13,914	386,948	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Axsome Therapeutics, Inc.			Equity	4,074	366,130	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Axonics, Inc.			Equity	4,963	345,425	0.007%
JNL/Mellon U.S. Stock Market Index Fund	DuPont de Nemours, Inc.			Equity	41,563	3,703,679	0.070%
JNL/Mellon U.S. Stock Market Index Fund	Smartsheet Inc.			Equity	14,875	823,480	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Corteva, Inc.			Equity	69,026	4,058,039	0.077%
JNL/Mellon U.S. Stock Market Index Fund	Ancor Pty Ltd			Equity	128,312	1,453,775	0.027%
JNL/Mellon U.S. Stock Market Index Fund	CrowdStrike Holdings, Inc.			Equity	22,493	6,398,612	0.119%
JNL/Mellon U.S. Stock Market Index Fund	Cousins Properties Incorporated			Equity	14,323	422,242	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Bridgebio Pharma, Inc.			Equity	12,106	308,219	0.006%
JNL/Mellon U.S. Stock Market Index Fund	L3Harris Technologies, Inc.			Equity	18,578	4,019,149	0.084%
JNL/Mellon U.S. Stock Market Index Fund	Blackstone Inc.			Equity	70,266	10,759,833	0.203%
JNL/Mellon U.S. Stock Market Index Fund	Globe Life Inc.			Equity	8,444	894,304	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Clarivate PLC			Equity	34,664	246,114	0.005%
JNL/Mellon U.S. Stock Market Index Fund	10X Genomics, Inc.			Equity	10,320	233,026	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Cloudflare, Inc.			Equity	29,320	2,371,695	0.045%
JNL/Mellon U.S. Stock Market Index Fund	Envista Holdings Corporation			Equity	17,354	342,915	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Grocery Outlet Holding Corp.			Equity	7,234	126,957	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Onto Innovation Inc.			Equity	4,672	969,720	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Gen Digital Inc.			Equity	54,612	1,498,007	0.028%
JNL/Mellon U.S. Stock Market Index Fund	Healthpeak OP, LLC			Equity	70,925	1,622,055	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Parsons Corporation			Equity	3,871	401,345	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Paramount Global			Equity	55,741	594,756	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Trust Financial Corporation			Equity	130,032	1,581,469	0.030%
JNL/Mellon U.S. Stock Market Index Fund	Bill Holdings, Inc.			Equity	11,415	602,255	0.011%
JNL/Mellon U.S. Stock Market Index Fund	Equitable Holdings, Inc.			Equity	30,558	1,284,353	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Ovintiv Canada ULC			Equity	26,340	1,009,085	0.019%
JNL/Mellon U.S. Stock Market Index Fund	Optum Care Health, Inc.			Equity	15,394	451,244	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Reynolds Consumer Products Inc.			Equity	3,859	120,015	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Essential Utilities, Inc.			Equity	22,750	877,468	0.017%
JNL/Mellon U.S. Stock Market Index Fund	Revolution Medicines, Inc.			Equity	14,159	642,111	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Datadog, Inc.			Equity	28,161	3,240,205	0.061%
JNL/Mellon U.S. Stock Market Index Fund	Innovell Rand Inc.			Equity	38,604	5,399,813	0.103%
JNL/Mellon U.S. Stock Market Index Fund	Trane Technologies Public Limited Company			Equity	22,226	8,639,913	0.163%
JNL/Mellon U.S. Stock Market Index Fund	AON Public Limited Company			Equity	21,038	7,278,938	0.138%
JNL/Mellon U.S. Stock Market Index Fund	Howmet Aerospace Inc.			Equity	40,116	4,021,629	0.076%
JNL/Mellon U.S. Stock Market Index Fund	Cerner Global Corporation			Equity	82,279	6,622,685	0.125%
JNL/Mellon U.S. Stock Market Index Fund	RTX Corporation			Equity	128,817	15,607,468	0.295%
JNL/Mellon U.S. Stock Market Index Fund	Otis Worldwide Corporation			Equity	39,920	4,149,285	0.078%
JNL/Mellon U.S. Stock Market Index Fund	Ventiv Holdings Co			Equity	34,838	3,466,033	0.065%
JNL/Mellon U.S. Stock Market Index Fund	UPF Industries, Inc.			Equity	6,011	788,105	0.015%
JNL/Mellon U.S. Stock Market Index Fund	Arch Resources, Inc.			Equity	1,629	225,063	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Freedom Holding Corp.			Equity	1,014	96,087	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Prosyn, Inc.			Equity	9,267	155,315	0.003%
JNL/Mellon U.S. Stock Market Index Fund	The Carlyle Group, Inc.			Equity	21,733	936,823	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Immunovant, Inc.			Equity	7,160	204,132	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Springworks Therapeutics, Inc.			Equity	2,802	89,776	0.002%
JNL/Mellon U.S. Stock Market Index Fund	Dynatrace, Inc.			Equity	27,112	1,449,679	0.027%
JNL/Mellon U.S. Stock Market Index Fund	ChampionX Corporation			Equity	10,537	1,096,591	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Carvana Co.			Equity	11,155	1,942,197	0.037%
JNL/Mellon U.S. Stock Market Index Fund	Zoominfo Technologies Inc.			Equity	19,354	199,733	0.004%
JNL/Mellon U.S. Stock Market Index Fund	The AZEK Company Inc.			Equity	13,326	623,657	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Royalty Pharma PLC			Equity	37,944	1,073,940	0.020%
JNL/Mellon U.S. Stock Market Index Fund	Albertsons Companies, Inc.			Equity	35,193	650,336	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Match Group, Inc.			Equity	25,192	953,265	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Dun & Bradstreet Holdings, Inc.			Equity	22,434	258,215	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Willscot Holdings Corporation			Equity	18,218	722,597	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Avent Corporation			Equity	10,363	1,524,183	0.029%
JNL/Mellon U.S. Stock Market Index Fund	Caesars Entertainment, Inc.			Equity	22,865	954,385	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Bloom Energy Corporation			Equity	32,197	340,000	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Shift Payments, LLC			Equity	5,352	474,187	0.009%
JNL/Mellon U.S. Stock Market Index Fund	DEAYA Biosciences, Inc.			Equity	7,408	234,483	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Snowflake Inc.			Equity	31,127	3,575,247	0.068%
JNL/Mellon U.S. Stock Market Index Fund	Northern Oil and Gas Incorporated			Equity	7,335	262,813	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Bentley Systems, Incorporated			Equity	12,780	649,352	0.012%
JNL/Mellon U.S. Stock Market Index Fund	API Group Corporation			Equity	20,697	1,653,418	0.031%
JNL/Mellon U.S. Stock Market Index Fund	Palantir Technologies Inc.			Equity	196,943	7,326,280	0.138%
JNL/Mellon U.S. Stock Market Index Fund	Vontier Corporation			Equity	13,901	469,020	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Linde Public Limited Company			Equity	46,522	22,184,481	0.419%
JNL/Mellon U.S. Stock Market Index Fund	FTAI Aviation Ltd.			Equity	9,431	1,353,280	0.026%
JNL/Mellon U.S. Stock Market Index Fund	Crane Company			Equity	5,249	830,812	0.016%
JNL/Mellon U.S. Stock Market Index Fund	Kenvue Inc.			Equity	174,282	3,961,753	0.075%
JNL/Mellon U.S. Stock Market Index Fund	Knife River Corporation			Equity	4,727	422,547	0.008%
JNL/Mellon U.S. Stock Market Index Fund	CAVA Group, Inc.			Equity	6,138	760,191	0.014%
JNL/Mellon U.S. Stock Market Index Fund	Leonardo DRS, Inc.			Equity	4,937	139,322	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Nuvalent, Inc.			Equity	3,681	376,566	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Savers Value Village, Inc.			Equity	2,728	28,699	0.001%
JNL/Mellon U.S. Stock Market Index Fund	Fortrea Holdings Inc.			Equity	9,147	1,02,940	0.003%
JNL/Mellon U.S. Stock Market Index Fund	BGC Group, Inc.			Equity	34,222	314,158	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Cleverspark Inc.			Equity	22,858	213,494	0.004%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Media Corporation			Equity	5,654	290,220	0.005%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Media Corporation			Equity	2,050	146,637	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Media Corporation			Equity	19,633	1,520,183	0.029%
JNL/Mellon U.S. Stock Market Index Fund	Howard Hughes Holdings Inc.			Equity	3,567	276,193	0.005%
JNL/Mellon U.S. Stock Market Index Fund	TKO Group Holdings Inc.			Equity	7,577	937,351	0.018%
JNL/Mellon U.S. Stock Market Index Fund	Maplebear Inc.			Equity	15,688	638,129	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Veralto Corporation			Equity	23,617	2,643,923	0.050%
JNL/Mellon U.S. Stock Market Index Fund	Bunge Limited			Equity	12,931	1,249,652	0.024%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Global Ltd.			Equity	14,491	313,151	0.006%
JNL/Mellon U.S. Stock Market Index Fund	Liberty Global Ltd.			Equity	16,439	347,027	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Nextracker LLC			Equity	12,697	475,884	0.009%
JNL/Mellon U.S. Stock Market Index Fund	Arcadium Lithium PLC			Equity	102,432	291,931	0.006%
JNL/Mellon U.S. Stock Market Index Fund	The Cooper Companies, Inc.			Equity	19,318	2,131,548	0.040%
JNL/Mellon U.S. Stock Market Index Fund	Astera Labs, Inc.			Equity	1,010	52,914	0.001%
JNL/Mellon U.S. Stock Market Index Fund	Corsys Inc.			Equity	6,915	1,162,735	0.021%
JNL/Mellon U.S. Stock Market Index Fund	Solventum Corporation			Equity	12,205	850,933	0.016%
JNL/Mellon U.S. Stock Market Index Fund	GE Vernova Inc.			Equity	26,894	6,857,432	0.130%
JNL/Mellon U.S. Stock Market Index Fund	Labcorp Holdings Inc.			Equity	8,538	1,908,072	0.036%
JNL/Mellon U.S. Stock Market Index Fund	Digital World Acquisition Corp.			Equity	3,611	58,029	0.001%
JNL/Mellon U.S. Stock Market Index Fund	CG Oncology, Inc.			Equity	4,162	157,032	0.003%
JNL/Mellon U.S. Stock Market Index Fund	Smurfit Westrock Public Limited Company			Equity	48,053	2,374,779	0.045%
JNL/Mellon U.S. Stock Market Index Fund	Ferguson Enterprises Inc.			Equity	19,531	3,893,700	0.074%
JNL/Mellon U.S. Stock Market Index Fund	SITE Centers Corp.			Equity	5,966	360,336	0.007%
JNL/Mellon U.S. Stock Market Index Fund	Sinus XM Holdings Inc.			Equity	25,911	612,795	0.012%
JNL/Mellon U.S. Stock Market Index Fund	Amazon Holdco Inc.			Equity	12,359	398,578	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Te Connectivity Public Limited Company			Equity	30,007	4,530,757	0.086%
Total Non Derivatives						5,291,913,045	
Derivatives							
JNL/Mellon U.S. Stock Market Index Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	67	449,611	0.008%
JNL/Mellon U.S. Stock Market Index Fund	Russell 2000 Index FUTURE - CASH SETTLED			Derivative	21	21,446	0.000%
Total Derivatives						471,057	
Total All Investments						5,292,384,102	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon Utilities Sector Fund	Cash			Cash Equivalent	992,420	992,420	0.175%
JNL/Mellon Utilities Sector Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	3,366,561	3,382,617	0.598%
JNL/Mellon Utilities Sector Fund	New Fortress Energy Inc.			Equity	37,024	336,548	0.059%
JNL/Mellon Utilities Sector Fund	Clearway Energy, Inc.			Equity	13,661	388,929	0.069%
JNL/Mellon Utilities Sector Fund	Clearway Energy, Inc.			Equity	33,309	1,021,920	0.181%
JNL/Mellon Utilities Sector Fund	Constellation Energy Group, Inc.			Equity	127,273	33,093,525	5.849%
JNL/Mellon Utilities Sector Fund	Pinnacle West Capital Corporation			Equity	45,911	4,067,255	0.719%
JNL/Mellon Utilities Sector Fund	Ameren Corporation			Equity	107,666	9,416,468	1.664%
JNL/Mellon Utilities Sector Fund	The AES Corporation			Equity	286,925	5,755,716	1.017%
JNL/Mellon Utilities Sector Fund	American Electric Power Company, Inc.			Equity	215,269	22,086,599	3.904%
JNL/Mellon Utilities Sector Fund	FirstEnergy Corp.			Equity	205,441	9,111,308	1.610%
JNL/Mellon Utilities Sector Fund	Black Hills Corporation			Equity	27,823	1,700,542	0.301%
JNL/Mellon Utilities Sector Fund	Sempra			Equity	254,595	21,448,662	3.791%
JNL/Mellon Utilities Sector Fund	Consolidated Edison, Inc.			Equity	139,659	14,542,692	2.570%
JNL/Mellon Utilities Sector Fund	Entergy Corporation			Equity	85,295	11,225,675	1.984%
JNL/Mellon Utilities Sector Fund	American States Water Company			Equity	15,024	1,251,349	0.221%
JNL/Mellon Utilities Sector Fund	CMS Energy Corporation			Equity	120,571	8,515,930	1.505%
JNL/Mellon Utilities Sector Fund	California Water Service Group			Equity	23,365	1,266,850	0.224%
JNL/Mellon Utilities Sector Fund	NRG Energy, Inc.			Equity	84,220	7,672,442	1.356%
JNL/Mellon Utilities Sector Fund	Atmos Energy Corporation			Equity	60,927	8,451,184	1.494%
JNL/Mellon Utilities Sector Fund	CenterPoint Energy, Inc.			Equity	258,542	7,606,306	1.344%
JNL/Mellon Utilities Sector Fund	NixtEra Energy, Inc.			Equity	829,189	70,091,346	12.388%
JNL/Mellon Utilities Sector Fund	IDACORP, Inc.			Equity	20,386	2,101,593	0.371%
JNL/Mellon Utilities Sector Fund	DTE Energy Company			Equity	83,359	10,788,622	1.907%
JNL/Mellon Utilities Sector Fund	Otter Tail Corporation			Equity	16,771	1,310,821	0.232%
JNL/Mellon Utilities Sector Fund	NiSource Inc.			Equity	180,832	6,265,929	1.107%
JNL/Mellon Utilities Sector Fund	XCEL Energy Inc.			Equity	223,237	14,697,897	2.598%
JNL/Mellon Utilities Sector Fund	TXNM Energy, Inc.			Equity	36,372	1,592,002	0.281%
JNL/Mellon Utilities Sector Fund	OGE Energy Corp.			Equity	81,164	3,329,347	0.588%
JNL/Mellon Utilities Sector Fund	MGE Energy, Inc.			Equity	14,640	1,339,628	0.237%
JNL/Mellon Utilities Sector Fund	Exelon Corporation			Equity	402,704	16,329,847	2.886%
JNL/Mellon Utilities Sector Fund	Public Service Enterprise Group Incorporated			Equity	201,391	17,966,091	3.175%
JNL/Mellon Utilities Sector Fund	New Jersey Resources Corporation			Equity	39,771	1,894,904	0.335%
JNL/Mellon Utilities Sector Fund	PPL Corporation			Equity	296,204	9,938,950	1.757%
JNL/Mellon Utilities Sector Fund	Dominion Energy, Inc.			Equity	336,526	19,563,418	3.458%
JNL/Mellon Utilities Sector Fund	PG&E Corporation			Equity	863,213	17,074,331	3.018%
JNL/Mellon Utilities Sector Fund	Avista Corporation			Equity	31,685	1,227,794	0.217%
JNL/Mellon Utilities Sector Fund	Southwest Gas Holdings, Inc.			Equity	22,415	1,653,330	0.292%
JNL/Mellon Utilities Sector Fund	The Southern Company			Equity	441,210	39,788,318	7.032%
JNL/Mellon Utilities Sector Fund	Edison International			Equity	155,173	13,514,017	2.389%
JNL/Mellon Utilities Sector Fund	Alliant Energy Corporation			Equity	103,129	6,258,899	1.106%
JNL/Mellon Utilities Sector Fund	UGI Corporation			Equity	84,456	2,144,680	0.379%
JNL/Mellon Utilities Sector Fund	ALLTEC, Inc.			Equity	23,189	1,488,502	0.263%
JNL/Mellon Utilities Sector Fund	NorthWestern Corporation			Equity	23,326	1,334,714	0.236%
JNL/Mellon Utilities Sector Fund	Ormat Technologies, Inc.			Equity	21,653	1,665,982	0.294%
JNL/Mellon Utilities Sector Fund	Portland General Electric Company			Equity	41,498	2,008,286	0.355%
JNL/Mellon Utilities Sector Fund	American Water Works Company, Inc.			Equity	78,768	11,519,032	2.036%
JNL/Mellon Utilities Sector Fund	Duke Energy Corporation			Equity	311,792	35,949,618	6.354%
JNL/Mellon Utilities Sector Fund	Vistra Corp.			Equity	130,923	15,519,612	2.749%
JNL/Mellon Utilities Sector Fund	Eversource Energy			Equity	92,841	5,757,070	1.018%
JNL/Mellon Utilities Sector Fund	One Gas, Inc.			Equity	21,011	1,563,839	0.276%
JNL/Mellon Utilities Sector Fund	Eversource Energy			Equity	141,320	9,616,826	1.700%
JNL/Mellon Utilities Sector Fund	Spire Inc.			Equity	23,247	1,581,294	0.279%
JNL/Mellon Utilities Sector Fund	AVANGRID, Inc.			Equity	29,687	1,038,756	0.184%
JNL/Mellon Utilities Sector Fund	WECC Energy Group Inc.			Equity	127,482	12,261,219	2.167%
JNL/Mellon Utilities Sector Fund	Essential Utilities, Inc.			Equity	100,882	3,891,019	0.688%
JNL/Mellon Utilities Sector Fund	GE Vernova Inc.			Equity	110,882	28,272,692	4.997%
Total Non Derivatives						565,673,862	
Derivatives							
JNL/Mellon Utilities Sector Fund	S&P Utilities Select Sector Index FUTURE - CASH SETTLED			Derivative	42	109,767	0.019%
Total Derivatives						109,767	
Total All Investments						565,783,629	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Mellon World Index Fund	Cash			Cash Equivalent	334,611	334,611	0.072%
JNL/Mellon World Index Fund	Mid-America Apartment Communities, Inc.			Equity	764	121,400	0.026%
JNL/Mellon World Index Fund	Henkel AG & Co. KGaA			Equity	1,083	101,866	0.022%
JNL/Mellon World Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	3,030,060	3,039,883	0.655%
JNL/Mellon World Index Fund	Viavis Inc.			Equity	7,364	85,380	0.018%
JNL/Mellon World Index Fund	Eurofins Scientific SE			Equity	907	57,298	0.012%
JNL/Mellon World Index Fund	Nordnet AB			Equity	957	22,980	0.005%
JNL/Mellon World Index Fund	WuXi Biologics (Cayman) Inc.			Equity	32,500	71,535	0.015%
JNL/Mellon World Index Fund	DoorDash, Inc.			Equity	2,017	287,886	0.062%
JNL/Mellon World Index Fund	Warehouses De Pauw			Equity	950	25,331	0.005%
JNL/Mellon World Index Fund	Airbnb, Inc.			Equity	2,829	358,745	0.077%
JNL/Mellon World Index Fund	Unity Software Inc.			Equity	1,988	44,969	0.010%
JNL/Mellon World Index Fund	Texas Pacific Land Corporation			Equity	124	109,708	0.024%
JNL/Mellon World Index Fund	Fiat Chrysler Automobiles N.V.			Equity	14,168	197,298	0.043%
JNL/Mellon World Index Fund	Tesco PLC			Equity	45,928	220,445	0.047%
JNL/Mellon World Index Fund	Apa Corp.			Equity	2,287	55,940	0.012%
JNL/Mellon World Index Fund	Roblox Corporation			Equity	3,444	152,431	0.033%
JNL/Mellon World Index Fund	Coupage, Inc.			Equity	8,000	196,400	0.042%
JNL/Mellon World Index Fund	Hikma Pharmaceuticals Public Limited Company			Equity	1,198	30,672	0.007%
JNL/Mellon World Index Fund	Rightmove PLC			Equity	5,964	49,633	0.011%
JNL/Mellon World Index Fund	Comcast Global, Inc.			Equity	1,305	232,512	0.050%
JNL/Mellon World Index Fund	Marvell Technology, Inc.			Equity	5,685	410,002	0.088%
JNL/Mellon World Index Fund	ING Bank Śląski Spółka Akcyjna			Equity	220	15,032	0.003%
JNL/Mellon World Index Fund	G&L Beijer Ref AB			Equity	2,072	34,122	0.007%
JNL/Mellon World Index Fund	Vestas Wind Systems A/S			Equity	6,421	141,464	0.030%
JNL/Mellon World Index Fund	Zensho Holdings Co., Ltd.			Equity	600	35,341	0.007%
JNL/Mellon World Index Fund	Lifco AB (Publ)			Equity	1,352	44,496	0.010%
JNL/Mellon World Index Fund	Epiroc Aktiebolag			Equity	2,709	51,327	0.011%
JNL/Mellon World Index Fund	Epiroc Aktiebolag			Equity	3,740	80,911	0.017%
JNL/Mellon World Index Fund	Investor Aktiebolag			Equity	3,981	119,552	0.026%
JNL/Mellon World Index Fund	Investor Aktiebolag			Equity	11,498	354,577	0.076%
JNL/Mellon World Index Fund	Hexagon Aktiebolag			Equity	13,694	147,298	0.032%
JNL/Mellon World Index Fund	Seagate Technology Holdings Public Limited Company			Equity	1,293	142,527	0.031%
JNL/Mellon World Index Fund	NIBE Industrier AB			Equity	11,756	64,473	0.014%
JNL/Mellon World Index Fund	Endeavour Group Limited			Equity	8,609	229,153	0.049%
JNL/Mellon World Index Fund	DNB Bank ASA			Equity	5,460	111,857	0.024%
JNL/Mellon World Index Fund	Dassault Systemes			Equity	4,585	181,962	0.039%
JNL/Mellon World Index Fund	General Electric Company			Equity	7,171	1,384,291	0.292%
JNL/Mellon World Index Fund	Capitalland Investment Limited			Equity	16,700	40,435	0.009%
JNL/Mellon World Index Fund	Azelis Group			Equity	743	16,330	0.004%
JNL/Mellon World Index Fund	Universal Music Group N.V.			Equity	6,293	165,037	0.036%
JNL/Mellon World Index Fund	Dassault Aviation			Equity	140	28,859	0.006%
JNL/Mellon World Index Fund	Pitbara Minerals Limited			Equity	20,483	48,343	0.010%
JNL/Mellon World Index Fund	Autostore Holdings Ltd			Equity	1,946	1,986	0.000%
JNL/Mellon World Index Fund	JD Sports Fashion PLC			Equity	17,815	36,786	0.008%
JNL/Mellon World Index Fund	Daimler Truck Holding AG			Equity	3,254	121,818	0.026%
JNL/Mellon World Index Fund	Wise PLC			Equity	4,532	40,680	0.009%
JNL/Mellon World Index Fund	Apollo Global Management, Inc.			Equity	2,603	325,141	0.070%
JNL/Mellon World Index Fund	Nippon Express Co., Ltd.			Equity	600	31,545	0.007%
JNL/Mellon World Index Fund	Shell PLC			Equity	41,849	1,359,807	0.293%
JNL/Mellon World Index Fund	Constellation Energy Group, Inc.			Equity	2,076	239,802	0.116%
JNL/Mellon World Index Fund	Warner Bros. Discovery, Inc.			Equity	14,159	116,812	0.025%
JNL/Mellon World Index Fund	Straumann Holding AG			Equity	707	115,755	0.025%
JNL/Mellon World Index Fund	Atlas Copco Aktiebolag			Equity	16,744	324,259	0.070%
JNL/Mellon World Index Fund	Atlas Copco Aktiebolag			Equity	9,732	166,758	0.036%
JNL/Mellon World Index Fund	Aviva PLC			Equity	19,039	110,574	0.023%
JNL/Mellon World Index Fund	Aspen Technology, Inc.			Equity	197	47,048	0.010%
JNL/Mellon World Index Fund	The Lottery Corporation Limited			Equity	16,452	58,434	0.013%
JNL/Mellon World Index Fund	Fasighets AB Bolaget			Equity	4,506	39,587	0.009%
JNL/Mellon World Index Fund	Woodside Energy Group Ltd			Equity	12,689	229,153	0.049%
JNL/Mellon World Index Fund	Compagnie Generale des Etablissements Michelin			Equity	4,471	181,463	0.039%
JNL/Mellon World Index Fund	Var Energi ASA			Equity	4,120	12,750	0.003%
JNL/Mellon World Index Fund	Haleon PLC			Equity	41,034	215,910	0.047%
JNL/Mellon World Index Fund	CSK PLC			Equity	27,112	560,035	0.121%
JNL/Mellon World Index Fund	Nordea Bank Abp			Equity	20,983	247,390	0.053%
JNL/Mellon World Index Fund	Jacobs Solutions Inc.			Equity	841	110,087	0.024%
JNL/Mellon World Index Fund	NavWest Group PLC			Equity	39,976	183,766	0.040%
JNL/Mellon World Index Fund	Alimentation Couche-Tard Inc.			Equity	4,975	275,042	0.059%
JNL/Mellon World Index Fund	Corebridge Financial, Inc.			Equity	1,443	42,078	0.009%
JNL/Mellon World Index Fund	Schroders PLC			Equity	5,347	25,053	0.005%
JNL/Mellon World Index Fund	Annaly Capital Management, Inc.			Equity	3,498	72,479	0.016%
JNL/Mellon World Index Fund	Dr. Ing. h.c. F. Porsche Aktiengesellschaft			Equity	706	56,268	0.012%
JNL/Mellon World Index Fund	Altiacom Corporation			Equity	1,040	165,162	0.036%
JNL/Mellon World Index Fund	Svenska Cellulosa Aktiebolaget SCA			Equity	3,806	55,587	0.012%
JNL/Mellon World Index Fund	SSAB AB			Equity	2,020	10,353	0.002%
JNL/Mellon World Index Fund	Brookfield Asset Management Ltd.			Equity	2,482	117,342	0.025%
JNL/Mellon World Index Fund	Brookfield Corporation			Equity	8,488	450,806	0.097%
JNL/Mellon World Index Fund	GE HealthCare Technologies Inc.			Equity	2,547	239,036	0.052%
JNL/Mellon World Index Fund	MongoDB, Inc.			Equity	479	129,498	0.028%
JNL/Mellon World Index Fund	Dayforce, Inc.			Equity	890	54,513	0.012%
JNL/Mellon World Index Fund	Yum! Brands, Inc.			Equity	1,844	257,625	0.056%
JNL/Mellon World Index Fund	United Rentals, Inc.			Equity	443	358,710	0.077%
JNL/Mellon World Index Fund	Rio Tinto PLC			Equity	6,815	484,025	0.104%
JNL/Mellon World Index Fund	Diageo PLC			Equity	14,652	520,599	0.112%
JNL/Mellon World Index Fund	Verizon Communications Inc.			Equity	27,655	1,241,886	0.268%
JNL/Mellon World Index Fund	ONEOK, Inc.			Equity	3,850	350,851	0.076%
JNL/Mellon World Index Fund	Mettler-Toledo International Inc.			Equity	141	211,458	0.046%
JNL/Mellon World Index Fund	Valero Energy Corporation			Equity	2,071	279,647	0.060%
JNL/Mellon World Index Fund	FedEx Corporation			Equity	1,511	415,638	0.090%
JNL/Mellon World Index Fund	Ball Corporation			Equity	1,964	133,375	0.029%
JNL/Mellon World Index Fund	AFLAC Incorporated			Equity	3,398	379,896	0.082%
JNL/Mellon World Index Fund	Avery Dennison Corporation			Equity	565	124,729	0.027%
JNL/Mellon World Index Fund	Pearson PLC			Equity	4,590	62,422	0.013%
JNL/Mellon World Index Fund	BAE Systems PLC			Equity	19,802	328,344	0.071%
JNL/Mellon World Index Fund	Lloyds Banking Group PLC			Equity	399,879	313,994	0.068%
JNL/Mellon World Index Fund	Archer-Daniels-Midland Company			Equity	3,243	193,737	0.042%
JNL/Mellon World Index Fund	Concast Corporation			Equity	25,905	1,082,925	0.232%
JNL/Mellon World Index Fund	International Business Machines Corporation			Equity	6,092	1,346,819	0.290%
JNL/Mellon World Index Fund	Ashtead Group Public Limited Company			Equity	2,860	221,752	0.048%
JNL/Mellon World Index Fund	DCC Public Limited Company			Equity	668	45,632	0.010%
JNL/Mellon World Index Fund	Ardie, Inc.			Equity	2,969	1,537,088	0.331%
JNL/Mellon World Index Fund	Ameser Corporation			Equity	1,751	153,142	0.033%
JNL/Mellon World Index Fund	W. R. Berkley Corporation			Equity	1,965	111,474	0.024%
JNL/Mellon World Index Fund	Analog Devices, Inc.			Equity	3,281	755,091	0.163%
JNL/Mellon World Index Fund	Albermarle Corporation			Equity	791	75,236	0.016%
JNL/Mellon World Index Fund	BP P.L.C.			Equity	111,083	580,778	0.125%
JNL/Mellon World Index Fund	Baxter International Inc.			Equity	3,449	131,959	0.028%
JNL/Mellon World Index Fund	Boeing Company, The			Equity	4,060	617,282	0.133%
JNL/Mellon World Index Fund	Verisign, Inc.			Equity	552	104,858	0.023%
JNL/Mellon World Index Fund	Saputo Inc.			Equity	1,600	34,533	0.007%
JNL/Mellon World Index Fund	Berkshire Hathaway Inc.			Equity	11,935	5,493,203	1.184%
JNL/Mellon World Index Fund	Take-Two Interactive Software, Inc.			Equity	1,028	158,014	0.034%
JNL/Mellon World Index Fund	Autodesk, Inc.			Equity	1,429	393,661	0.085%
JNL/Mellon World Index Fund	The AES Corporation			Equity	4,376	87,783	0.019%
JNL/Mellon World Index Fund	Best Buy Co., Inc.			Equity	1,382	143,931	0.031%
JNL/Mellon World Index Fund	Associated British Foods PLC			Equity	2,003	62,596	0.013%
JNL/Mellon World Index Fund	CRH Public Limited Company			Equity	4,461	413,713	0.089%
JNL/Mellon World Index Fund	Bristol-Myers Squibb Company			Equity	13,445	695,644	0.150%
JNL/Mellon World Index Fund	Automatic Data Processing, Inc.			Equity	2,746	763,745	0.165%
JNL/Mellon World Index Fund	Smith & Nephew PLC			Equity	6,249	97,190	0.021%
JNL/Mellon World Index Fund	Advanced Micro Devices, Inc.			Equity	10,668	1,750,405	0.377%
JNL/Mellon World Index Fund	Canadian Natural Resources Limited			Equity	14,096	473,213	0.102%
JNL/Mellon World Index Fund	Tec Resources Limited			Equity	2,961	154,656	0.033%
JNL/Mellon World Index Fund	American Electric Power Company, Inc.			Equity	3,369	345,659	0.074%
JNL/Mellon World Index Fund	AutoZone, Inc.			Equity	113	355,955	0.077%
JNL/Mellon World Index Fund	Quanta Services, Inc.			Equity	936	179,068	0.039%
JNL/Mellon World Index Fund	FirstEnergy Corp.			Equity	3,172	140,678	0.030%
JNL/Mellon World Index Fund	Banque Nationale Du Canada			Equity	2,300	219,108	0.047%
JNL/Mellon World Index Fund	American Express Company			Equity	3,781	1,025,407	0.221%
JNL/Mellon World Index Fund	Coles Group Limited			Equity	9,296	116,104	0.025%
JNL/Mellon World Index Fund	Parsons Public Limited Company			Equity	2,254	48,648	0.011%
JNL/Mellon World Index Fund	Standard Chartered PLC			Equity	13,841	148,058	0.032%
JNL/Mellon World Index Fund	Imperial Brands PLC			Equity	6,008	174,793	0.038%
JNL/Mellon World Index Fund	Prudential Public Limited Company			Equity	17,339	167,888	0.036%
JNL/Mellon World Index Fund	American International Group, Inc.			Equity	4,521	331,073	0.071%
JNL/Mellon World Index Fund	American Financial Group, Inc.			Equity	436	58,686	0.013%
JNL/Mellon World Index Fund	AstraZeneca PLC			Equity	10,228	1,595,558	0.344%
JNL/Mellon World Index Fund	Novonyl International Inc.			Equity	4,342	897,535	0.193%
JNL/Mellon World Index Fund	HSBC Holdings PLC			Equity	123,544	1,167,342	0.259%
JNL/Mellon World Index Fund	ANSYS, Inc.			Equity	582	185,443	0.040%
JNL/Mellon World Index Fund	Brown-Forman Corporation			Equity	377	18,208	0.004%
JNL/Mellon World Index Fund	Applied Materials, Inc.			Equity	5,483	1,107,840	0.239%
JNL/Mellon World Index Fund	Legal & General Group PLC			Equity	38,296	116,296	0.025%
JNL/Mellon World Index Fund	British American Tobacco P.L.C.			Equity	13,269	495,427	0.107%
JNL/Mellon World Index Fund	Antofagasta PLC			Equity	1,942	52,249	0.011%
JNL/Mellon World Index Fund	Barrick Gold Corporation			Equity	11,629	231,299	0.050%
JNL/Mellon World Index Fund	Alistair Corporation, The			Equity	1,684	320,920	0.069%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	Boston Scientific Corporation			Equity	9,652	808,838	0.174%
JNL/Mellon World Index Fund	Bank of Montreal			Equity	4,706	424,652	0.093%
JNL/Mellon World Index Fund	Agnico Eagle Mines Limited			Equity	3,240	261,006	0.056%
JNL/Mellon World Index Fund	Sempra			Equity	4,171	351,407	0.076%
JNL/Mellon World Index Fund	Brown-Forman Corporation			Equity	1,777	87,815	0.019%
JNL/Mellon World Index Fund	Bank of Nova Scotia, The			Equity	7,834	426,846	0.092%
JNL/Mellon World Index Fund	Abbott Laboratories			Equity	11,475	1,308,265	0.282%
JNL/Mellon World Index Fund	Amgen Inc.			Equity	3,533	1,138,368	0.245%
JNL/Mellon World Index Fund	AMETEK, Inc.			Equity	1,548	265,807	0.057%
JNL/Mellon World Index Fund	Amazon.com, Inc.			Equity	62,630	11,669,848	2.514%
JNL/Mellon World Index Fund	Ar Products and Chemicals, Inc.			Equity	1,457	433,807	0.093%
JNL/Mellon World Index Fund	Hess Corporation			Equity	1,853	251,637	0.054%
JNL/Mellon World Index Fund	SSE PLC			Equity	7,337	184,805	0.040%
JNL/Mellon World Index Fund	Taylor Wimpey PLC			Equity	25,728	56,676	0.012%
JNL/Mellon World Index Fund	Amphenol Corporation			Equity	7,752	506,368	0.109%
JNL/Mellon World Index Fund	Weir Group PLC(The)			Equity	1,754	50,931	0.011%
JNL/Mellon World Index Fund	Becton, Dickinson and Company			Equity	1,873	451,580	0.097%
JNL/Mellon World Index Fund	Apple Inc.			Equity	94,973	22,128,709	4.768%
JNL/Mellon World Index Fund	Sarat Development PLC			Equity	8,898	58,498	0.013%
JNL/Mellon World Index Fund	Home Depot, Inc., The			Equity	6,579	2,665,811	0.574%
JNL/Mellon World Index Fund	IDEX Corporation			Equity	450	96,525	0.021%
JNL/Mellon World Index Fund	Crown Holdings, Inc.			Equity	854	81,882	0.018%
JNL/Mellon World Index Fund	The Clorox Company			Equity	831	135,378	0.029%
JNL/Mellon World Index Fund	M&T Bank Corporation			Equity	1,056	188,095	0.041%
JNL/Mellon World Index Fund	Consolidated Edison, Inc.			Equity	2,229	232,106	0.050%
JNL/Mellon World Index Fund	Carneco Corporation			Equity	2,800	133,763	0.029%
JNL/Mellon World Index Fund	Casman Chemical Company			Equity	810	91,138	0.020%
JNL/Mellon World Index Fund	Hologic, Inc.			Equity	1,554	126,589	0.027%
JNL/Mellon World Index Fund	Cisco Systems, Inc.			Equity	26,739	1,423,050	0.307%
JNL/Mellon World Index Fund	Halliburton Company			Equity	5,938	172,499	0.037%
JNL/Mellon World Index Fund	IDEX Laboratories, Inc.			Equity	548	276,861	0.060%
JNL/Mellon World Index Fund	Fortis Inc.			Equity	3,200	145,385	0.031%
JNL/Mellon World Index Fund	Target Corporation			Equity	3,037	473,347	0.102%
JNL/Mellon World Index Fund	Copart, Inc.			Equity	5,718	299,623	0.065%
JNL/Mellon World Index Fund	Bogen Inc.			Equity	955	185,117	0.040%
JNL/Mellon World Index Fund	EOG Resources, Inc.			Equity	3,801	467,257	0.101%
JNL/Mellon World Index Fund	Entergy Corporation			Equity	1,412	185,833	0.040%
JNL/Mellon World Index Fund	FactSet Research Systems Inc.			Equity	256	117,722	0.025%
JNL/Mellon World Index Fund	Boehringer Pharmaceuticals Inc.			Equity	1,263	88,776	0.019%
JNL/Mellon World Index Fund	CoStar Group, Inc.			Equity	2,688	202,783	0.044%
JNL/Mellon World Index Fund	Rogers Communications Inc.			Equity	2,400	97,388	0.021%
JNL/Mellon World Index Fund	The Interpublic Group of Companies, Inc.			Equity	2,553	80,751	0.017%
JNL/Mellon World Index Fund	Deere & Company			Equity	1,061	695,627	0.150%
JNL/Mellon World Index Fund	Manitex International, Inc.			Equity	1,830	405,218	0.087%
JNL/Mellon World Index Fund	Moody's Corporation			Equity	1,042	494,523	0.107%
JNL/Mellon World Index Fund	CMS Energy Corporation			Equity	1,961	138,505	0.030%
JNL/Mellon World Index Fund	Fifth Third Bancorp			Equity	4,398	190,038	0.041%
JNL/Mellon World Index Fund	FreightMcMaster Inc.			Equity	9,517	476,087	0.102%
JNL/Mellon World Index Fund	Deckers Outdoor Corporation			Equity	1,014	161,682	0.035%
JNL/Mellon World Index Fund	Hormel Foods Corporation			Equity	1,832	58,074	0.013%
JNL/Mellon World Index Fund	Cummins Inc.			Equity	914	295,944	0.064%
JNL/Mellon World Index Fund	NRG Energy, Inc.			Equity	1,430	130,273	0.028%
JNL/Mellon World Index Fund	Fair Isaac Corporation			Equity	159	309,020	0.067%
JNL/Mellon World Index Fund	Fastenal Company			Equity	3,826	273,253	0.059%
JNL/Mellon World Index Fund	Juniper Networks, Inc.			Equity	2,082	81,156	0.017%
JNL/Mellon World Index Fund	Flex Ltd.			Equity	2,618	87,553	0.019%
JNL/Mellon World Index Fund	Coltana Energy Inc.			Equity	4,909	117,571	0.025%
JNL/Mellon World Index Fund	Intel Corporation			Equity	28,168	660,821	0.142%
JNL/Mellon World Index Fund	Lennox International Inc.			Equity	209	126,537	0.027%
JNL/Mellon World Index Fund	D.R. Horton, Inc.			Equity	2,009	383,257	0.083%
JNL/Mellon World Index Fund	The Estee Lauder Companies Inc.			Equity	1,569	156,414	0.034%
JNL/Mellon World Index Fund	JPMorgan Chase & Co.			Equity	18,914	3,988,206	0.859%
JNL/Mellon World Index Fund	Constellation Brands, Inc.			Equity	1,051	270,832	0.058%
JNL/Mellon World Index Fund	Canadian Imperial Bank of Commerce			Equity	6,076	376,748	0.081%
JNL/Mellon World Index Fund	First Quantum Minerals Ltd			Equity	3,889	51,933	0.011%
JNL/Mellon World Index Fund	Campbell Soup Company			Equity	1,196	58,508	0.013%
JNL/Mellon World Index Fund	Caterpillar Inc.			Equity	3,253	1,272,313	0.274%
JNL/Mellon World Index Fund	NVIDIA Corporation			Equity	157,146	19,085,384	4.112%
JNL/Mellon World Index Fund	Canadian National Railway Company			Equity	3,508	410,782	0.089%
JNL/Mellon World Index Fund	Darden Restaurants, Inc.			Equity	808	132,617	0.029%
JNL/Mellon World Index Fund	Almos Energy Corporation			Equity	1,033	143,287	0.031%
JNL/Mellon World Index Fund	Expeditions International of Washington, Inc.			Equity	958	125,881	0.027%
JNL/Mellon World Index Fund	Intuit Inc.			Equity	1,844	145,124	0.031%
JNL/Mellon World Index Fund	International Flavors & Fragrances Inc.			Equity	1,696	178,640	0.038%
JNL/Mellon World Index Fund	General Dynamics Corporation			Equity	1,598	482,916	0.104%
JNL/Mellon World Index Fund	Gilead Sciences, Inc.			Equity	8,166	684,637	0.148%
JNL/Mellon World Index Fund	Walt Disney Company, The			Equity	12,110	1,164,861	0.251%
JNL/Mellon World Index Fund	General Mills, Inc.			Equity	3,695	272,876	0.059%
JNL/Mellon World Index Fund	Open Text Corporation			Equity	1,800	59,918	0.013%
JNL/Mellon World Index Fund	Church & Dwight Co., Inc.			Equity	1,638	171,531	0.037%
JNL/Mellon World Index Fund	Equifax Inc.			Equity	830	243,904	0.053%
JNL/Mellon World Index Fund	Les Vetements de Sport Gildan Inc.			Equity	1,015	47,635	0.010%
JNL/Mellon World Index Fund	CenterPoint Energy, Inc.			Equity	4,256	125,212	0.027%
JNL/Mellon World Index Fund	McKesson Corporation			Equity	873	432,248	0.093%
JNL/Mellon World Index Fund	Dollar Tree, Inc.			Equity	1,339	94,158	0.020%
JNL/Mellon World Index Fund	Danaher Corporation			Equity	4,332	1,205,552	0.260%
JNL/Mellon World Index Fund	HEICO Corporation			Equity	503	102,491	0.022%
JNL/Mellon World Index Fund	Cognizant Technology Solutions Corporation			Equity	3,306	255,157	0.055%
JNL/Mellon World Index Fund	Canadian Utilities Limited			Equity	900	23,897	0.005%
JNL/Mellon World Index Fund	HEICO Corporation			Equity	281	73,214	0.016%
JNL/Mellon World Index Fund	Salesforce, Inc.			Equity	6,151	1,686,172	0.363%
JNL/Mellon World Index Fund	CAE Inc.			Equity	2,100	39,424	0.008%
JNL/Mellon World Index Fund	Illinois Tool Works Inc.			Equity	1,960	516,597	0.111%
JNL/Mellon World Index Fund	TELLUS Corporation			Equity	3,000	51,194	0.011%
JNL/Mellon World Index Fund	Enbridge Inc.			Equity	14,060	571,153	0.123%
JNL/Mellon World Index Fund	eBay Inc.			Equity	3,357	218,574	0.047%
JNL/Mellon World Index Fund	Arthur J. Gallagher & Co.			Equity	1,434	403,485	0.087%
JNL/Mellon World Index Fund	Genuine Parts Company			Equity	964	135,616	0.029%
JNL/Mellon World Index Fund	Omnicom Group Inc.			Equity	1,251	130,217	0.028%
JNL/Mellon World Index Fund	W.W. Grainger, Inc.			Equity	300	311,643	0.067%
JNL/Mellon World Index Fund	CCL Industries Inc.			Equity	1,034	63,036	0.014%
JNL/Mellon World Index Fund	Franklin Resources, Inc.			Equity	1,870	36,260	0.008%
JNL/Mellon World Index Fund	Ecolab Inc.			Equity	1,640	419,676	0.090%
JNL/Mellon World Index Fund	Imperial Oil Limited			Equity	1,080	76,461	0.016%
JNL/Mellon World Index Fund	EQT Corporation			Equity	3,501	128,277	0.028%
JNL/Mellon World Index Fund	Canadian Tire Corporation, Limited			Equity	400	47,940	0.010%
JNL/Mellon World Index Fund	Humana Inc.			Equity	788	250,288	0.054%
JNL/Mellon World Index Fund	Fiserv, Inc.			Equity	3,757	674,945	0.145%
JNL/Mellon World Index Fund	NextEra Energy, Inc.			Equity	13,575	1,147,495	0.247%
JNL/Mellon World Index Fund	The Hinesy Company			Equity	984	188,712	0.041%
JNL/Mellon World Index Fund	Exxon Mobil Corporation			Equity	29,637	3,474,049	0.749%
JNL/Mellon World Index Fund	First Citizens BancShares, Inc.			Equity	80	147,276	0.032%
JNL/Mellon World Index Fund	Electronic Arts Inc.			Equity	1,640	235,242	0.051%
JNL/Mellon World Index Fund	Cardinal Health, Inc.			Equity	1,592	175,948	0.038%
JNL/Mellon World Index Fund	Molina Healthcare, Inc.			Equity	368	125,788	0.027%
JNL/Mellon World Index Fund	Cadence Design Systems, Inc.			Equity	1,817	492,462	0.106%
JNL/Mellon World Index Fund	CSX Corporation			Equity	13,075	451,480	0.097%
JNL/Mellon World Index Fund	Finning International Inc.			Equity	1,100	36,104	0.008%
JNL/Mellon World Index Fund	Republic Services, Inc.			Equity	1,330	267,117	0.058%
JNL/Mellon World Index Fund	Conagra Brands, Inc.			Equity	2,844	92,487	0.020%
JNL/Mellon World Index Fund	Colgate-Palmolive Company			Equity	5,367	557,148	0.120%
JNL/Mellon World Index Fund	Gartner, Inc.			Equity	511	258,954	0.056%
JNL/Mellon World Index Fund	Great-West Lifeco Inc.			Equity	1,890	61,382	0.013%
JNL/Mellon World Index Fund	DTE Energy Company			Equity	1,318	170,589	0.037%
JNL/Mellon World Index Fund	Coca-Cola Company, The			Equity	25,946	1,877,063	0.404%
JNL/Mellon World Index Fund	Revvity, Inc.			Equity	854	109,099	0.024%
JNL/Mellon World Index Fund	Huntingdon Bancshares Incorporated			Equity	9,478	140,811	0.030%
JNL/Mellon World Index Fund	Dover Corporation			Equity	903	173,141	0.037%
JNL/Mellon World Index Fund	Emerson Electric Co.			Equity	3,718	406,638	0.088%
JNL/Mellon World Index Fund	IGM Financial Inc.			Equity	500	15,210	0.003%
JNL/Mellon World Index Fund	J.B. Hunt Transport Services, Inc.			Equity	517	89,095	0.019%
JNL/Mellon World Index Fund	Jack Henry & Associates, Inc.			Equity	510	90,035	0.019%
JNL/Mellon World Index Fund	PS, Inc.			Equity	347	76,409	0.016%
JNL/Mellon World Index Fund	International Paper Company			Equity	2,243	109,571	0.024%
JNL/Mellon World Index Fund	Cincinnati Financial Corporation			Equity	1,037	141,996	0.031%
JNL/Mellon World Index Fund	Cintas Corporation			Equity	2,360	465,877	0.105%
JNL/Mellon World Index Fund	Coming Incorporated			Equity	5,306	239,566	0.052%
JNL/Mellon World Index Fund	Citigroup Inc.			Equity	12,527	784,190	0.169%
JNL/Mellon World Index Fund	Morgan Stanley			Equity	8,354	870,821	0.188%
JNL/Mellon World Index Fund	Bank of America Corporation			Equity	45,195	1,793,338	0.389%
JNL/Mellon World Index Fund	Roper Technologies, Inc.			Equity	683	380,049	0.082%
JNL/Mellon World Index Fund	Carnival Corporation			Equity	6,733	124,426	0.027%
JNL/Mellon World Index Fund	Neurocrine Biosciences, Inc.			Equity	676	77,889	0.017%
JNL/Mellon World Index Fund	Emera Incorporated			Equity	1,700	66,984	0.014%
JNL/Mellon World Index Fund	Entegris, Inc.			Equity	993	111,742	0.024%
JNL/Mellon World Index Fund	Packaging Corporation of America			Equity	576	124,790	0.027%
JNL/Mellon World Index Fund	Ross Stores, Inc.			Equity	2,119	318,931	0.069%
JNL/Mellon World Index Fund	BlackRock, Inc.			Equity	965	916,277	0.197%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	NISource Inc.			Equity	2,674	92,654	0.020%
JNL/Mellon World Index Fund	Mesco Corporation			Equity	1,454	122,049	0.036%
JNL/Mellon World Index Fund	Charles River Laboratories International, Inc.			Equity	320	83,030	0.014%
JNL/Mellon World Index Fund	MetLife, Inc.			Equity	3,945	325,384	0.070%
JNL/Mellon World Index Fund	Paychex, Inc.			Equity	2,098	281,531	0.061%
JNL/Mellon World Index Fund	ACEL Energy Inc.			Equity	3,662	241,134	0.052%
JNL/Mellon World Index Fund	Post Corporation			Equity	259	97,591	0.021%
JNL/Mellon World Index Fund	Nucor Corporation			Equity	1,563	235,825	0.051%
JNL/Mellon World Index Fund	U.S. Bancorp			Equity	10,236	473,210	0.102%
JNL/Mellon World Index Fund	Royal Caribbean Cruises Ltd.			Equity	1,081	281,007	0.061%
JNL/Mellon World Index Fund	Loblaw Companies Limited			Equity	1,000	133,530	0.029%
JNL/Mellon World Index Fund	Costco Wholesale Corporation			Equity	2,929	2,596,617	0.559%
JNL/Mellon World Index Fund	Power Corporation of Canada			Equity	3,810	121,763	0.026%
JNL/Mellon World Index Fund	Royal Bank of Canada			Equity	9,306	1,161,487	0.250%
JNL/Mellon World Index Fund	T. Rowe Price Group, Inc.			Equity	1,429	155,561	0.034%
JNL/Mellon World Index Fund	Travelers Companies, Inc., The			Equity	1,486	347,902	0.075%
JNL/Mellon World Index Fund	Schlumberger Limited			Equity	9,457	399,322	0.088%
JNL/Mellon World Index Fund	Incyte Corporation			Equity	1,117	73,834	0.016%
JNL/Mellon World Index Fund	Johnson & Johnson			Equity	15,854	2,569,299	0.554%
JNL/Mellon World Index Fund	McCormick & Company, Incorporated			Equity	1,732	142,544	0.031%
JNL/Mellon World Index Fund	Lam Research Corporation			Equity	867	709,535	0.153%
JNL/Mellon World Index Fund	Global Payments Inc.			Equity	1,717	175,855	0.038%
JNL/Mellon World Index Fund	CLA Corporation			Equity	891	689,999	0.149%
JNL/Mellon World Index Fund	Manulife Financial Corporation			Equity	11,934	352,695	0.076%
JNL/Mellon World Index Fund	Lockheed Martin Corporation			Equity	1,415	827,152	0.178%
JNL/Mellon World Index Fund	KeyCorp			Equity	5,909	98,976	0.021%
JNL/Mellon World Index Fund	NetScp, Inc.			Equity	1,335	184,088	0.039%
JNL/Mellon World Index Fund	Lennar Corporation			Equity	1,600	299,968	0.065%
JNL/Mellon World Index Fund	PulteGroup, Inc.			Equity	1,384	198,922	0.043%
JNL/Mellon World Index Fund	Raymond James Financial, Inc.			Equity	1,280	156,688	0.034%
JNL/Mellon World Index Fund	Eckman Corporation			Equity	6,590	267,890	0.058%
JNL/Mellon World Index Fund	Arch Capital Group Ltd.			Equity	2,420	270,720	0.058%
JNL/Mellon World Index Fund	Merck & Co., Inc.			Equity	16,757	1,915,828	0.413%
JNL/Mellon World Index Fund	On Semiconductor Corporation			Equity	2,839	206,140	0.044%
JNL/Mellon World Index Fund	Magna International Inc.			Equity	1,705	69,842	0.015%
JNL/Mellon World Index Fund	Occidental Petroleum Corporation			Equity	4,156	215,504	0.046%
JNL/Mellon World Index Fund	CVS Health Corporation			Equity	8,332	523,916	0.113%
JNL/Mellon World Index Fund	Lennar Corporation			Equity	104	17,986	0.004%
JNL/Mellon World Index Fund	McDonald's Corporation			Equity	4,756	1,448,250	0.312%
JNL/Mellon World Index Fund	Public Service Enterprise Group Incorporated			Equity	3,361	300,901	0.063%
JNL/Mellon World Index Fund	Zimmer Biomet Holdings, Inc.			Equity	1,337	144,650	0.031%
JNL/Mellon World Index Fund	Oracle Corporation			Equity	10,558	1,799,083	0.388%
JNL/Mellon World Index Fund	Loews Corporation			Equity	1,298	102,607	0.022%
JNL/Mellon World Index Fund	United Parcel Service, Inc.			Equity	4,834	659,068	0.142%
JNL/Mellon World Index Fund	Agilent Technologies, Inc.			Equity	1,932	286,863	0.062%
JNL/Mellon World Index Fund	Qualcomm Incorporated			Equity	7,389	1,256,499	0.271%
JNL/Mellon World Index Fund	Marsh & McLennan Companies, Inc.			Equity	3,267	728,835	0.157%
JNL/Mellon World Index Fund	Kellanova			Equity	3,749	141,162	0.030%
JNL/Mellon World Index Fund	Hartford Financial Services Group, Inc., The			Equity	1,842	217,503	0.047%
JNL/Mellon World Index Fund	The PNC Financial Services Group, Inc.			Equity	2,630	486,156	0.105%
JNL/Mellon World Index Fund	PepsiCo, Inc.			Equity	9,097	1,546,945	0.333%
JNL/Mellon World Index Fund	Quest Diagnostics Incorporated			Equity	752	116,748	0.025%
JNL/Mellon World Index Fund	Metro Inc.			Equity	1,655	104,615	0.023%
JNL/Mellon World Index Fund	PACCAR Inc.			Equity	3,386	334,130	0.072%
JNL/Mellon World Index Fund	Fidelity National Information Services, Inc.			Equity	3,743	313,476	0.068%
JNL/Mellon World Index Fund	Newmont Corporation			Equity	6,649	409,860	0.088%
JNL/Mellon World Index Fund	Atrius Group, Inc.			Equity	11,459	596,556	0.129%
JNL/Mellon World Index Fund	Sun Life Financial Inc.			Equity	3,900	226,223	0.049%
JNL/Mellon World Index Fund	Parker-Hannifin Corporation			Equity	843	532,624	0.115%
JNL/Mellon World Index Fund	Kroger Co., The			Equity	4,474	256,360	0.055%
JNL/Mellon World Index Fund	ConocoPhillips			Equity	7,747	815,604	0.176%
JNL/Mellon World Index Fund	Norfolk Southern Corporation			Equity	1,481	368,029	0.079%
JNL/Mellon World Index Fund	Regeneron Pharmaceuticals, Inc.			Equity	694	729,561	0.157%
JNL/Mellon World Index Fund	PPL Corporation			Equity	5,081	169,388	0.036%
JNL/Mellon World Index Fund	MDA Resources International			Equity	1,581	301,901	0.063%
JNL/Mellon World Index Fund	Rockwell Automation, Inc.			Equity	775	208,057	0.045%
JNL/Mellon World Index Fund	Illumina, Inc.			Equity	1,058	137,974	0.030%
JNL/Mellon World Index Fund	Martin Marietta Materials, Inc.			Equity	413	222,297	0.048%
JNL/Mellon World Index Fund	Kimberly-Clark Corporation			Equity	2,174	211,969	0.045%
JNL/Mellon World Index Fund	Dominion Energy, Inc.			Equity	5,639	325,878	0.070%
JNL/Mellon World Index Fund	Reinsurance Group of America, Incorporated			Equity	422	91,941	0.020%
JNL/Mellon World Index Fund	El Lilly and Company			Equity	5,605	4,965,694	1.070%
JNL/Mellon World Index Fund	Edwards Lifesciences Corporation			Equity	3,914	242,244	0.052%
JNL/Mellon World Index Fund	Goldman Sachs Group, Inc., The			Equity	2,155	1,066,962	0.230%
JNL/Mellon World Index Fund	Pfizer Inc.			Equity	37,360	1,081,198	0.233%
JNL/Mellon World Index Fund	Procter & Gamble Company, The			Equity	15,594	2,700,881	0.582%
JNL/Mellon World Index Fund	Charles Schwab Corporation, The			Equity	9,495	615,371	0.132%
JNL/Mellon World Index Fund	NVR, Inc.			Equity	20	196,236	0.042%
JNL/Mellon World Index Fund	Microchip Technology Incorporated			Equity	3,512	281,978	0.061%
JNL/Mellon World Index Fund	Old Dominion Freight Line, Inc.			Equity	1,274	253,067	0.055%
JNL/Mellon World Index Fund	Brown & Brown, Inc.			Equity	1,587	184,413	0.039%
JNL/Mellon World Index Fund	Microsoft Corporation			Equity	49,183	21,163,445	4.560%
JNL/Mellon World Index Fund	Micron Technology, Inc.			Equity	7,312	758,328	0.163%
JNL/Mellon World Index Fund	Akamai Technologies, Inc.			Equity	977	98,628	0.021%
JNL/Mellon World Index Fund	3M Company			Equity	3,621	484,991	0.107%
JNL/Mellon World Index Fund	Farfax Financial Holdings Limited			Equity	144	181,821	0.039%
JNL/Mellon World Index Fund	East West Bancorp, Inc.			Equity	956	79,099	0.017%
JNL/Mellon World Index Fund	PG&E Corporation			Equity	13,997	276,861	0.060%
JNL/Mellon World Index Fund	Everest Group, Ltd.			Equity	281	110,104	0.024%
JNL/Mellon World Index Fund	Capital One Financial Corporation			Equity	2,528	278,517	0.059%
JNL/Mellon World Index Fund	Northern Trust Corporation			Equity	1,421	128,998	0.028%
JNL/Mellon World Index Fund	Devon Energy Corporation			Equity	4,276	167,277	0.036%
JNL/Mellon World Index Fund	The Progressive Corporation			Equity	3,872	982,559	0.212%
JNL/Mellon World Index Fund	Telelynx Technologies Incorporated			Equity	303	132,611	0.028%
JNL/Mellon World Index Fund	Exact Sciences Corporation			Equity	1,347	91,758	0.020%
JNL/Mellon World Index Fund	NIKE, Inc.			Equity	7,944	705,126	0.152%
JNL/Mellon World Index Fund	Kingspan Group Public Limited Company			Equity	1,008	94,977	0.020%
JNL/Mellon World Index Fund	Verbund AG			Equity	412	34,100	0.007%
JNL/Mellon World Index Fund	Washington H. Soul Pattinson and Company Limited			Equity	1,661	40,059	0.009%
JNL/Mellon World Index Fund	Ares Management Corporation			Equity	1,213	189,034	0.041%
JNL/Mellon World Index Fund	Sartorius Stedim Biotech			Equity	154	32,206	0.007%
JNL/Mellon World Index Fund	Low's Companies, Inc.			Equity	3,819	1,034,276	0.223%
JNL/Mellon World Index Fund	Northrop Grumman Corporation			Equity	985	520,149	0.112%
JNL/Mellon World Index Fund	Ford Motor Company			Equity	25,992	274,476	0.059%
JNL/Mellon World Index Fund	Alliant SE			Equity	2,592	863,744	0.184%
JNL/Mellon World Index Fund	Telefonatech ABget LM Ericsson			Equity	18,123	136,846	0.029%
JNL/Mellon World Index Fund	West Fraser Timber Co. Ltd.			Equity	359	99,000	0.008%
JNL/Mellon World Index Fund	PPG Industries, Inc.			Equity	1,521	201,472	0.043%
JNL/Mellon World Index Fund	Wells Fargo & Company			Equity	22,883	1,292,661	0.279%
JNL/Mellon World Index Fund	ResMed Inc.			Equity	980	239,238	0.052%
JNL/Mellon World Index Fund	Naturgy Energy Group, S.A.			Equity	1,060	17,397	0.003%
JNL/Mellon World Index Fund	Rollins, Inc.			Equity	2,014	101,843	0.022%
JNL/Mellon World Index Fund	Cheniere Energy, Inc.			Equity	1,536	276,234	0.060%
JNL/Mellon World Index Fund	Align Technology, Inc.			Equity	492	125,125	0.027%
JNL/Mellon World Index Fund	Market Group Inc.			Equity	83	130,192	0.028%
JNL/Mellon World Index Fund	Bollere SE			Equity	5,633	37,544	0.008%
JNL/Mellon World Index Fund	Mediobanca Banca di Credito Finanziario Societa' Per Azioni			Equity	3,831	65,340	0.014%
JNL/Mellon World Index Fund	Huhtamaki Oyj			Equity	648	25,560	0.006%
JNL/Mellon World Index Fund	Toxtec Instruments Incorporated			Equity	9,994	1,238,181	0.267%
JNL/Mellon World Index Fund	Beiersdorf Aktiengesellschaft			Equity	632	95,060	0.020%
JNL/Mellon World Index Fund	Tractor Supply Company			Equity	738	214,706	0.046%
JNL/Mellon World Index Fund	Swisscom AG			Equity	170	111,128	0.024%
JNL/Mellon World Index Fund	Snap-on Incorporated			Equity	369	106,903	0.023%
JNL/Mellon World Index Fund	Legacy Vulcan Corp.			Equity	849	212,615	0.046%
JNL/Mellon World Index Fund	Hang Lung Properties Limited			Equity	14,428	13,939	0.003%
JNL/Mellon World Index Fund	Telenor ASA			Equity	4,559	58,315	0.013%
JNL/Mellon World Index Fund	Bayer Aktiengesellschaft			Equity	5,764	106,286	0.023%
JNL/Mellon World Index Fund	Erste Group Bank AG			Equity	2,043	112,195	0.024%
JNL/Mellon World Index Fund	Infineon Technologies AG			Equity	8,562	300,752	0.065%
JNL/Mellon World Index Fund	U C B			Equity	828	149,361	0.032%
JNL/Mellon World Index Fund	West Pharmaceutical Services, Inc.			Equity	466	139,875	0.030%
JNL/Mellon World Index Fund	Cappemini France			Equity	1,069	230,648	0.050%
JNL/Mellon World Index Fund	LKQ Corporation			Equity	1,670	66,666	0.014%
JNL/Mellon World Index Fund	Asin Corporation			Equity	3,852	43,564	0.009%
JNL/Mellon World Index Fund	Trimble Inc.			Equity	1,676	104,063	0.022%
JNL/Mellon World Index Fund	Stryker Corporation			Equity	2,383	851,927	0.184%
JNL/Mellon World Index Fund	ANZ Group Holdings Limited			Equity	19,626	414,342	0.089%
JNL/Mellon World Index Fund	Sora Enso Oyj			Equity	4,041	51,772	0.011%
JNL/Mellon World Index Fund	L Oreal			Equity	1,604	718,080	0.155%
JNL/Mellon World Index Fund	Western Digital Corporation			Equity	2,200	150,238	0.032%
JNL/Mellon World Index Fund	Barclays PLC			Equity	97,050	291,210	0.063%
JNL/Mellon World Index Fund	Marathon Oil Corporation			Equity	3,630	96,667	0.021%
JNL/Mellon World Index Fund	State Street Corporation			Equity	2,034	179,948	0.039%
JNL/Mellon World Index Fund	Kerry Group Public Limited Company			Equity	1,087	112,707	0.024%
JNL/Mellon World Index Fund	Textron Inc.			Equity	1,265	112,079	0.024%
JNL/Mellon World Index Fund	Gemstar AIS			Equity	408	90,049	0.021%
JNL/Mellon World Index Fund	Vertex Pharmaceuticals Incorporated			Equity	1,703	792,031	0.171%
JNL/Mellon World Index Fund	Asahi Group Holdings, Ltd.			Equity	9,600	125,743	0.027%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	Sanofi			Equity	7,517	864,964	0.186%
JNL/Mellon World Index Fund	George Weston Limited			Equity	407	68,550	0.015%
JNL/Mellon World Index Fund	KBC Groep			Equity	1,702	135,405	0.029%
JNL/Mellon World Index Fund	Telia Company AB			Equity	17,358	56,155	0.012%
JNL/Mellon World Index Fund	BASF SE			Equity	5,719	303,447	0.065%
JNL/Mellon World Index Fund	Nissley, Inc.			Equity	2,516	183,693	0.040%
JNL/Mellon World Index Fund	Cohort Group			Equity	141	6,175	0.001%
JNL/Mellon World Index Fund	BT Group PLC			Equity	44,933	89,072	0.019%
JNL/Mellon World Index Fund	Continental Aktiengesellschaft			Equity	722	46,822	0.010%
JNL/Mellon World Index Fund	Zebra Technologies Corporation			Equity	356	131,834	0.028%
JNL/Mellon World Index Fund	Munchener Ruckversicherungs-Gesellschaft Aktiengesellschaft in Munchen			Equity	898	495,807	0.107%
JNL/Mellon World Index Fund	Skandinaviska Enskilda Banken AB			Equity	9,766	149,258	0.032%
JNL/Mellon World Index Fund	Intertek Group Plc			Equity	1,152	80,454	0.017%
JNL/Mellon World Index Fund	Banco Santander, S.A.			Equity	102,101	522,419	0.113%
JNL/Mellon World Index Fund	MEIRCK Kommanditgesellschaft auf Aktien			Equity	874	154,090	0.033%
JNL/Mellon World Index Fund	SAP SE			Equity	6,884	1,572,934	0.339%
JNL/Mellon World Index Fund	Henkel AG & Co. KGaA			Equity	637	54,189	0.012%
JNL/Mellon World Index Fund	Volters Kluwer N.V.			Equity	1,602	270,075	0.058%
JNL/Mellon World Index Fund	Publicis Groupe SA			Equity	1,505	154,757	0.033%
JNL/Mellon World Index Fund	Toronto-Dominion Bank, The			Equity	11,832	748,177	0.161%
JNL/Mellon World Index Fund	Principal Financial Group, Inc.			Equity	1,645	141,306	0.030%
JNL/Mellon World Index Fund	Siemens Aktiengesellschaft			Equity	4,686	948,787	0.204%
JNL/Mellon World Index Fund	Canfor			Equity	3,528	60,173	0.013%
JNL/Mellon World Index Fund	Mercedes-Benz Group AG			Equity	5,304	343,634	0.074%
JNL/Mellon World Index Fund	Orange			Equity	11,365	130,292	0.028%
JNL/Mellon World Index Fund	Kering			Equity	448	128,222	0.028%
JNL/Mellon World Index Fund	OMV Aktiengesellschaft			Equity	962	41,173	0.009%
JNL/Mellon World Index Fund	Deutsche Telekom AG			Equity	22,741	668,232	0.144%
JNL/Mellon World Index Fund	ASICS Corporation			Equity	5,100	108,946	0.023%
JNL/Mellon World Index Fund	Prudential Financial, Inc.			Equity	2,386	288,945	0.062%
JNL/Mellon World Index Fund	Union Pacific Corporation			Equity	4,079	489,068	0.104%
JNL/Mellon World Index Fund	Thermo Fisher Scientific Inc.			Equity	2,537	1,570,302	0.338%
JNL/Mellon World Index Fund	ACOM Co., Ltd.			Equity	3,700	10,030	0.002%
JNL/Mellon World Index Fund	Walmart Inc.			Equity	28,797	2,325,358	0.501%
JNL/Mellon World Index Fund	Zurich Insurance Group AG			Equity	958	577,813	0.124%
JNL/Mellon World Index Fund	Deutsche Bank Aktiengesellschaft			Equity	12,526	216,074	0.047%
JNL/Mellon World Index Fund	Chevron Corporation			Equity	11,317	1,666,655	0.359%
JNL/Mellon World Index Fund	Telefonica, S.A.			Equity	32,410	158,555	0.034%
JNL/Mellon World Index Fund	Thales			Equity	636	101,200	0.022%
JNL/Mellon World Index Fund	Koninklijke Philips N.V.			Equity	5,116	167,897	0.036%
JNL/Mellon World Index Fund	Assicurazioni Generali Societa' Per Azioni			Equity	6,968	201,429	0.043%
JNL/Mellon World Index Fund	Hermes International			Equity	226	555,228	0.120%
JNL/Mellon World Index Fund	Tyler Technologies, Inc.			Equity	277	161,890	0.035%
JNL/Mellon World Index Fund	The Southern Company			Equity	7,072	693,752	0.152%
JNL/Mellon World Index Fund	E.ON SE			Equity	15,135	225,181	0.049%
JNL/Mellon World Index Fund	Nokia Oyj			Equity	33,620	146,592	0.032%
JNL/Mellon World Index Fund	Elisa Oyj			Equity	973	51,586	0.011%
JNL/Mellon World Index Fund	Skyscote Solutions, Inc.			Equity	1,036	101,338	0.022%
JNL/Mellon World Index Fund	Westinghouse Air Brake Technologies Corporation			Equity	1,146	208,308	0.045%
JNL/Mellon World Index Fund	A.P. Moller - Maersk A/S			Equity	22	37,002	0.008%
JNL/Mellon World Index Fund	Cencora, Inc.			Equity	1,105	248,713	0.054%
JNL/Mellon World Index Fund	Centene Corporation			Equity	3,612	371,911	0.080%
JNL/Mellon World Index Fund	UnitedHealth Group Incorporated			Equity	6,062	3,561,871	0.767%
JNL/Mellon World Index Fund	Lundin Mining Corporation			Equity	4,700	49,243	0.011%
JNL/Mellon World Index Fund	Intuitive Surgical, Inc.			Equity	2,320	1,139,746	0.246%
JNL/Mellon World Index Fund	EDP, S.A.			Equity	19,716	80,028	0.018%
JNL/Mellon World Index Fund	AT&T Inc.			Equity	47,308	1,040,778	0.224%
JNL/Mellon World Index Fund	UPM-Kymmene Oyj			Equity	3,612	121,031	0.026%
JNL/Mellon World Index Fund	The Sherwin-Williams Company			Equity	1,563	596,550	0.129%
JNL/Mellon World Index Fund	A.P. Moller - Maersk A/S			Equity	14	22,703	0.005%
JNL/Mellon World Index Fund	Permot Ricard			Equity	1,317	198,777	0.043%
JNL/Mellon World Index Fund	Singapore Technologies Engineering Ltd			Equity	10,400	37,607	0.008%
JNL/Mellon World Index Fund	Intesa Sanpaolo SPA			Equity	105,547	452,171	0.097%
JNL/Mellon World Index Fund	Southwest Airlines Co.			Equity	4,001	118,550	0.026%
JNL/Mellon World Index Fund	ST Microelectronics N.V.			Equity	4,389	130,897	0.029%
JNL/Mellon World Index Fund	Heidelberg Materials AG			Equity	889	96,813	0.021%
JNL/Mellon World Index Fund	voestalpine AG			Equity	727	18,973	0.004%
JNL/Mellon World Index Fund	Wartsila Oyj Abp			Equity	3,044	68,166	0.015%
JNL/Mellon World Index Fund	Bayerische Motoren Werke Aktiengesellschaft			Equity	1,922	169,688	0.037%
JNL/Mellon World Index Fund	Universal Health Services, Inc.			Equity	386	88,398	0.019%
JNL/Mellon World Index Fund	Wynn Resorts, Limited			Equity	628	60,213	0.013%
JNL/Mellon World Index Fund	Schneider Electric SE			Equity	3,641	959,852	0.207%
JNL/Mellon World Index Fund	Starbucks Corporation			Equity	7,508	70,585	0.016%
JNL/Mellon World Index Fund	Watsco, Inc.			Equity	222	109,197	0.024%
JNL/Mellon World Index Fund	Edison International			Equity	2,586	225,215	0.049%
JNL/Mellon World Index Fund	ANA Holdings Inc.			Equity	1,000	21,378	0.005%
JNL/Mellon World Index Fund	Nexd PLC			Equity	771	101,065	0.022%
JNL/Mellon World Index Fund	The J. M. Smucker Company			Equity	666	80,653	0.017%
JNL/Mellon World Index Fund	Waste Management, Inc.			Equity	2,432	504,883	0.109%
JNL/Mellon World Index Fund	Fortum Oyj			Equity	2,886	47,577	0.010%
JNL/Mellon World Index Fund	Securities AB			Equity	3,456	43,915	0.009%
JNL/Mellon World Index Fund	Synopys, Inc.			Equity	1,002	507,403	0.109%
JNL/Mellon World Index Fund	Waters Corporation			Equity	413	148,635	0.032%
JNL/Mellon World Index Fund	Bank Polska Kasa Opieki - Spolka Akcyjna			Equity	1,175	44,840	0.010%
JNL/Mellon World Index Fund	Presenius SE & Co. KGaA			Equity	2,804	107,084	0.023%
JNL/Mellon World Index Fund	Banco Bilbao Vizcaya Argentaria, S.A.			Equity	37,429	403,678	0.087%
JNL/Mellon World Index Fund	Teleflex Incorporated			Equity	311	76,917	0.017%
JNL/Mellon World Index Fund	Williams Companies, Inc., The			Equity	8,042	267,117	0.079%
JNL/Mellon World Index Fund	Aza S.P.A.			Equity	10,585	24,481	0.005%
JNL/Mellon World Index Fund	KGHM Polska Miedz Spolka Akcyjna			Equity	819	33,313	0.007%
JNL/Mellon World Index Fund	Deutsche Post AG			Equity	6,405	285,587	0.062%
JNL/Mellon World Index Fund	Endesa, S.A.			Equity	2,220	48,488	0.010%
JNL/Mellon World Index Fund	Carlberg A/S			Equity	590	70,296	0.015%
JNL/Mellon World Index Fund	LVMH Moet Hennessy Louis Vuitton			Equity	1,698	130,143	0.028%
JNL/Mellon World Index Fund	Vivendi SE			Equity	4,447	51,431	0.011%
JNL/Mellon World Index Fund	Alliant Energy Corporation			Equity	1,694	102,809	0.022%
JNL/Mellon World Index Fund	Svebank AB			Equity	6,586	139,845	0.030%
JNL/Mellon World Index Fund	Steel Dynamics, Inc.			Equity	991	175,401	0.037%
JNL/Mellon World Index Fund	RWE Aktiengesellschaft			Equity	4,614	168,013	0.036%
JNL/Mellon World Index Fund	Givaudan SA			Equity	61	334,187	0.072%
JNL/Mellon World Index Fund	Oriental S.A.			Equity	3,947	61,692	0.013%
JNL/Mellon World Index Fund	L.E. Lundberg/Bretagren Aktiebolag (publ)			Equity	522	29,696	0.006%
JNL/Mellon World Index Fund	SSAB AB			Equity	3,611	18,931	0.004%
JNL/Mellon World Index Fund	Sysco Corporation			Equity	3,289	256,739	0.055%
JNL/Mellon World Index Fund	CME Group Inc.			Equity	2,353	519,189	0.112%
JNL/Mellon World Index Fund	Burberry Group PLC			Equity	1,927	18,063	0.004%
JNL/Mellon World Index Fund	Danske Bank A/S			Equity	1,151	125,051	0.027%
JNL/Mellon World Index Fund	Hannover Ruck SE			Equity	381	108,895	0.023%
JNL/Mellon World Index Fund	Kingfisher PLC			Equity	10,147	43,779	0.009%
JNL/Mellon World Index Fund	Southern Copper Corporation			Equity	609	70,443	0.015%
JNL/Mellon World Index Fund	Tyson Foods, Inc.			Equity	1,774	105,659	0.023%
JNL/Mellon World Index Fund	Societe Generale			Equity	4,888	121,761	0.026%
JNL/Mellon World Index Fund	Teradyne, Inc.			Equity	987	132,189	0.028%
JNL/Mellon World Index Fund	Bouygues			Equity	1,498	50,147	0.011%
JNL/Mellon World Index Fund	Netflix, Inc.			Equity	2,849	2,020,710	0.435%
JNL/Mellon World Index Fund	TXJ Companies, Inc., The			Equity	7,590	892,129	0.192%
JNL/Mellon World Index Fund	Repsol SA			Equity	7,734	101,755	0.022%
JNL/Mellon World Index Fund	CarMax, Inc.			Equity	1,082	83,725	0.018%
JNL/Mellon World Index Fund	Chocoladefabriken Lindt & Sprungli AG			Equity	6	77,398	0.017%
JNL/Mellon World Index Fund	Veolia Environnement			Equity	4,064	133,572	0.029%
JNL/Mellon World Index Fund	Ajinomoto Co., Inc.			Equity	3,300	128,449	0.028%
JNL/Mellon World Index Fund	Asahi Kasei Corporation			Equity	9,500	72,900	0.016%
JNL/Mellon World Index Fund	Adidas AG			Equity	1,035	271,450	0.058%
JNL/Mellon World Index Fund	AGC Inc.			Equity	1,200	38,889	0.008%
JNL/Mellon World Index Fund	H & M Hennes & Mauritz AB			Equity	3,518	59,963	0.013%
JNL/Mellon World Index Fund	Ramsay Health Care Limited			Equity	1,323	38,160	0.008%
JNL/Mellon World Index Fund	Airbus SE			Equity	3,975	587,233	0.125%
JNL/Mellon World Index Fund	Deutsche Lufthansa Aktiengesellschaft			Equity	4,045	29,651	0.006%
JNL/Mellon World Index Fund	Koninklijke KPN N.V.			Equity	24,380	99,613	0.021%
JNL/Mellon World Index Fund	ITOCHU Corporation			Equity	8,900	485,149	0.105%
JNL/Mellon World Index Fund	ASX Limited			Equity	1,25	35,354	0.008%
JNL/Mellon World Index Fund	Kintetsu Group Holdings Co. Ltd			Equity	2,300	32,513	0.007%
JNL/Mellon World Index Fund	Hikari Tsushin, Inc.			Equity	100	22,350	0.005%
JNL/Mellon World Index Fund	Hong Seng Bank, Limited			Equity	4,100	51,057	0.011%
JNL/Mellon World Index Fund	Singapore Exchange Limited			Equity	6,000	53,168	0.011%
JNL/Mellon World Index Fund	Trend Micro Incorporated			Equity	1,000	59,267	0.013%
JNL/Mellon World Index Fund	Galaxy Entertainment Group Limited			Equity	14,000	70,026	0.015%
JNL/Mellon World Index Fund	Konami Holdings Corporation			Equity	500	51,073	0.011%
JNL/Mellon World Index Fund	Sumitomo Mitsui Trust Bank, Limited			Equity	5,000	120,978	0.026%
JNL/Mellon World Index Fund	Kaima Corporation			Equity	3,200	60,889	0.013%
JNL/Mellon World Index Fund	City Developments Limited			Equity	3,600	15,082	0.003%
JNL/Mellon World Index Fund	Honda Motor Co., Ltd.			Equity	31,600	343,606	0.074%
JNL/Mellon World Index Fund	Chocoladefabriken Lindt & Sprungli AG			Equity	1	127,385	0.027%
JNL/Mellon World Index Fund	Seko Epson Corporation			Equity	1,700	31,783	0.007%
JNL/Mellon World Index Fund	Fortescue Ltd			Equity	10,523	150,157	0.032%
JNL/Mellon World Index Fund	Rakuten Group, Inc.			Equity	10,100	65,117	0.014%
JNL/Mellon World Index Fund	Hong Kong And China Gas Company Limited -The-			Equity	75,725	61,853	0.013%
JNL/Mellon World Index Fund	Resona Holdings, Inc.			Equity	14,300	100,786	0.022%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	Elbit Systems Ltd.			Equity	174	34,562	0.007%
JNL/Mellon World Index Fund	DISCO Corporation			Equity	600	180,158	0.035%
JNL/Mellon World Index Fund	OBIC Co., Ltd.			Equity	2,500	88,342	0.019%
JNL/Mellon World Index Fund	The Chiba Bank, Ltd.			Equity	5,000	41,080	0.009%
JNL/Mellon World Index Fund	Kirin Holdings Company, Limited			Equity	5,700	86,791	0.019%
JNL/Mellon World Index Fund	Mitsubishi HC Capital Inc.			Equity	5,300	59,253	0.008%
JNL/Mellon World Index Fund	Insurance Australia Group Limited			Equity	15,744	80,392	0.017%
JNL/Mellon World Index Fund	Mitsubishi Motors Corporation			Equity	4,600	12,683	0.003%
JNL/Mellon World Index Fund	Jardine Cycle & Carriage Limited			Equity	100	2,179	0.000%
JNL/Mellon World Index Fund	MSIJMI Group Inc.			Equity	2,000	36,391	0.008%
JNL/Mellon World Index Fund	Revenco Corporation			Equity	1,200	514,283	0.124%
JNL/Mellon World Index Fund	Mitsubishi Estate Co., Ltd.			Equity	8,200	130,564	0.028%
JNL/Mellon World Index Fund	BHP Group Limited			Equity	33,275	1,077,170	0.232%
JNL/Mellon World Index Fund	Mitsubishi Heavy Industries, Ltd.			Equity	22,000	327,862	0.071%
JNL/Mellon World Index Fund	Mitsubishi Electric Corporation			Equity	13,600	272,285	0.048%
JNL/Mellon World Index Fund	Mitsubishi Corporation			Equity	27,000	569,262	0.123%
JNL/Mellon World Index Fund	ICL Group Ltd			Equity	5,235	22,314	0.005%
JNL/Mellon World Index Fund	Mitsui Fudoshan Co., Ltd.			Equity	18,300	173,186	0.037%
JNL/Mellon World Index Fund	Subaru Corporation			Equity	4,200	75,478	0.016%
JNL/Mellon World Index Fund	Koto Manufacturing Co., Ltd.			Equity	1,800	25,158	0.005%
JNL/Mellon World Index Fund	Mitsui Chemicals, Inc.			Equity	900	24,451	0.005%
JNL/Mellon World Index Fund	Mitsubishi UFJ Financial Group Inc			Equity	77,700	805,199	0.173%
JNL/Mellon World Index Fund	Vestpac Banking Corporation			Equity	22,934	503,817	0.109%
JNL/Mellon World Index Fund	Central Japan Railway Company			Equity	6,100	141,299	0.030%
JNL/Mellon World Index Fund	Japan Tobacco Inc.			Equity	7,500	218,560	0.047%
JNL/Mellon World Index Fund	The Kansai Electric Power Company, Incorporated			Equity	5,100	85,184	0.018%
JNL/Mellon World Index Fund	Panasonic Holdings Corporation			Equity	14,300	126,853	0.027%
JNL/Mellon World Index Fund	Otsuka Corporation			Equity	1,600	39,518	0.009%
JNL/Mellon World Index Fund	Hankyu Hanshin Holdings, Inc.			Equity	1,700	52,702	0.011%
JNL/Mellon World Index Fund	ABC-Mart, Inc.			Equity	100	2,143	0.000%
JNL/Mellon World Index Fund	Canon Inc.			Equity	6,300	205,590	0.044%
JNL/Mellon World Index Fund	Jardine Matheson Holdings Limited			Equity	1,000	38,538	0.009%
JNL/Mellon World Index Fund	Mizuho Bank, Ltd.			Equity	1,500	46,119	0.010%
JNL/Mellon World Index Fund	DBS Group Holdings Ltd			Equity	13,672	405,594	0.087%
JNL/Mellon World Index Fund	MTR Corporation Limited			Equity	10,854	40,648	0.009%
JNL/Mellon World Index Fund	Hoya Corporation			Equity	2,300	319,428	0.069%
JNL/Mellon World Index Fund	Komatsu Ltd.			Equity	6,000	170,600	0.037%
JNL/Mellon World Index Fund	Bridgestone Corporation			Equity	4,000	153,639	0.033%
JNL/Mellon World Index Fund	Oracle Corporation Japan			Equity	200	20,543	0.004%
JNL/Mellon World Index Fund	Suncorp Group Limited			Equity	8,600	107,768	0.023%
JNL/Mellon World Index Fund	Chubu Electric Power Co., Ltd.			Equity	5,200	61,951	0.013%
JNL/Mellon World Index Fund	Dai Nippon Printing Co., Ltd.			Equity	3,400	61,098	0.013%
JNL/Mellon World Index Fund	Fast Retailing Co., Ltd.			Equity	1,100	366,005	0.079%
JNL/Mellon World Index Fund	Kao Corporation			Equity	3,100	153,452	0.033%
JNL/Mellon World Index Fund	CLP Holdings Limited			Equity	11,500	100,983	0.022%
JNL/Mellon World Index Fund	Nierra Co., Ltd.			Equity	1,400	40,181	0.009%
JNL/Mellon World Index Fund	Kurita Water Industries Ltd.			Equity	700	30,382	0.007%
JNL/Mellon World Index Fund	Daiichi Industries, Ltd.			Equity	2,100	294,044	0.063%
JNL/Mellon World Index Fund	Square Enix Holdings Co., Ltd.			Equity	400	15,951	0.003%
JNL/Mellon World Index Fund	Isuzu Motors Limited			Equity	4,100	57,026	0.012%
JNL/Mellon World Index Fund	BlueScope Steel Limited			Equity	2,359	38,653	0.008%
JNL/Mellon World Index Fund	Murata Manufacturing Co., Ltd.			Equity	12,500	217,500	0.045%
JNL/Mellon World Index Fund	Daito Trust Construction Co., Ltd.			Equity	400	49,363	0.011%
JNL/Mellon World Index Fund	Kawasaki Heavy Industries, Ltd.			Equity	1,100	45,563	0.010%
JNL/Mellon World Index Fund	Daifuku Co., Ltd.			Equity	2,700	52,507	0.011%
JNL/Mellon World Index Fund	REA Group Ltd			Equity	37	52,088	0.011%
JNL/Mellon World Index Fund	Chugai Pharmaceutical Co., Ltd.			Equity	4,400	214,719	0.046%
JNL/Mellon World Index Fund	Eisai Co., Ltd.			Equity	2,100	79,330	0.017%
JNL/Mellon World Index Fund	Fujitsu Limited			Equity	11,000	226,610	0.049%
JNL/Mellon World Index Fund	Daiwa House Industry Co.,Ltd			Equity	4,500	143,251	0.031%
JNL/Mellon World Index Fund	KYOCERA Corporation			Equity	9,600	113,513	0.024%
JNL/Mellon World Index Fund	Computershare Limited			Equity	3,702	64,638	0.014%
JNL/Mellon World Index Fund	Kikkoman Corporation			Equity	5,500	62,897	0.014%
JNL/Mellon World Index Fund	Mitsui O.S.K. Lines, Ltd.			Equity	2,500	89,390	0.019%
JNL/Mellon World Index Fund	Hitachi, Ltd.			Equity	31,000	807,768	0.174%
JNL/Mellon World Index Fund	Marubeni Corporation			Equity	11,100	186,290	0.040%
JNL/Mellon World Index Fund	Brother Industries, Ltd.			Equity	1,700	33,775	0.007%
JNL/Mellon World Index Fund	Makita Corporation			Equity	1,800	61,088	0.013%
JNL/Mellon World Index Fund	AEON Co., Ltd.			Equity	5,400	147,250	0.032%
JNL/Mellon World Index Fund	Onica Limited			Equity	2,887	37,076	0.008%
JNL/Mellon World Index Fund	Power Assets Holdings Limited			Equity	9,500	60,677	0.013%
JNL/Mellon World Index Fund	Commonwealth Bank of Australia			Equity	11,132	1,043,084	0.225%
JNL/Mellon World Index Fund	Hitachi Construction Machinery Co., Ltd.			Equity	700	17,402	0.004%
JNL/Mellon World Index Fund	Wharf (Holdings) Limited, The			Equity	4,000	11,377	0.002%
JNL/Mellon World Index Fund	Bank Leumi Le-Israel B.M.			Equity	9,902	97,024	0.021%
JNL/Mellon World Index Fund	JFE Holdings, Inc.			Equity	3,900	53,557	0.012%
JNL/Mellon World Index Fund	Rio Tinto Limited			Equity	2,500	272,853	0.049%
JNL/Mellon World Index Fund	CSL Limited			Equity	3,165	632,762	0.136%
JNL/Mellon World Index Fund	Cochlear Limited			Equity	410	80,716	0.017%
JNL/Mellon World Index Fund	Fuji Electric Co., Ltd.			Equity	1,000	60,750	0.013%
JNL/Mellon World Index Fund	Mizuho Financial Group, Inc.			Equity	17,190	361,823	0.078%
JNL/Mellon World Index Fund	NTT DATA Corporation			Equity	3,800	68,737	0.015%
JNL/Mellon World Index Fund	Australian Pipeline Trust			Equity	7,562	40,609	0.009%
JNL/Mellon World Index Fund	SBI Holdings, Inc.			Equity	1,800	41,974	0.009%
JNL/Mellon World Index Fund	East Japan Railway Company			Equity	7,300	146,112	0.031%
JNL/Mellon World Index Fund	KDDI Corporation			Equity	9,700	315,136	0.068%
JNL/Mellon World Index Fund	Teisra Corporation Limited			Equity	27,376	73,524	0.016%
JNL/Mellon World Index Fund	Pan Pacific International Holdings Corporation			Equity	3,600	92,910	0.020%
JNL/Mellon World Index Fund	FANUC Corporation			Equity	5,900	172,883	0.037%
JNL/Mellon World Index Fund	Kubota Corporation			Equity	7,620	108,550	0.023%
JNL/Mellon World Index Fund	Daiwa Securities Group Inc.			Equity	8,700	62,559	0.013%
JNL/Mellon World Index Fund	Moderna, Inc.			Equity	2,209	147,627	0.032%
JNL/Mellon World Index Fund	Fisher & Paykel Healthcare Corporation Limited			Equity	3,531	77,761	0.017%
JNL/Mellon World Index Fund	Israel Discount Bank Limited			Equity	7,172	40,039	0.008%
JNL/Mellon World Index Fund	Kyowa Kirin Co., Ltd.			Equity	1,800	31,666	0.007%
JNL/Mellon World Index Fund	Mitsui & Co., Ltd.			Equity	19,800	447,036	0.096%
JNL/Mellon World Index Fund	Origin Energy Limited			Equity	10,400	72,338	0.016%
JNL/Mellon World Index Fund	Korai Electric Railway Co., Ltd.			Equity	900	23,838	0.005%
JNL/Mellon World Index Fund	Tokai Marine Holdings, Inc.			Equity	12,800	475,282	0.102%
JNL/Mellon World Index Fund	LY Corporation			Equity	17,800	52,047	0.011%
JNL/Mellon World Index Fund	Transurban Holdings Limited			Equity	20,776	189,044	0.041%
JNL/Mellon World Index Fund	FUJIFILM Holdings Corporation			Equity	8,100	210,418	0.045%
JNL/Mellon World Index Fund	McDonald's Holdings Company (Japan), Ltd.			Equity	500	23,830	0.005%
JNL/Mellon World Index Fund	Bank Hapoalim Ltd.			Equity	8,530	85,299	0.018%
JNL/Mellon World Index Fund	NGK Insulators, Ltd.			Equity	1,900	25,313	0.005%
JNL/Mellon World Index Fund	Sagor Corporation			Equity	4,480	35,688	0.008%
JNL/Mellon World Index Fund	Henderson Land Development Company Limited			Equity	9,310	29,484	0.006%
JNL/Mellon World Index Fund	Nomura Holdings, Inc.			Equity	19,800	104,000	0.022%
JNL/Mellon World Index Fund	Hamamatsu Photonics K.K.			Equity	2,000	26,472	0.006%
JNL/Mellon World Index Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	26,100	566,599	0.122%
JNL/Mellon World Index Fund	Hong Kong Exchanges and Clearing Limited			Equity	7,467	314,765	0.068%
JNL/Mellon World Index Fund	Capgem Co., Ltd.			Equity	2,000	46,778	0.010%
JNL/Mellon World Index Fund	Nomura Research Institute, Ltd.			Equity	2,800	103,908	0.022%
JNL/Mellon World Index Fund	Aristocrat Leisure Limited			Equity	4,150	168,694	0.036%
JNL/Mellon World Index Fund	Westlimes Limited			Equity	7,467	370,017	0.080%
JNL/Mellon World Index Fund	Cenrica PLC			Equity	32,345	50,534	0.011%
JNL/Mellon World Index Fund	West Japan Railway Company			Equity	3,200	61,532	0.013%
JNL/Mellon World Index Fund	Las Vegas Sands Corp.			Equity	2,562	128,971	0.028%
JNL/Mellon World Index Fund	Nippon Paint Holdings Co., Ltd.			Equity	7,100	54,096	0.012%
JNL/Mellon World Index Fund	Safran			Equity	2,265	533,404	0.115%
JNL/Mellon World Index Fund	Anylam Pharmaceuticals, Inc.			Equity	815	224,149	0.048%
JNL/Mellon World Index Fund	Terumo Corporation			Equity	9,800	186,047	0.040%
JNL/Mellon World Index Fund	Northern Star Resources Ltd			Equity	7,933	87,287	0.019%
JNL/Mellon World Index Fund	Minebeamsums Inc.			Equity	1,900	37,772	0.008%
JNL/Mellon World Index Fund	Nec Corporation			Equity	1,700	164,077	0.035%
JNL/Mellon World Index Fund	Mazda Motor Corporation			Equity	4,100	31,905	0.007%
JNL/Mellon World Index Fund	ABB Ltd			Equity	10,430	605,691	0.131%
JNL/Mellon World Index Fund	Yamato Holdings Co., Ltd.			Equity	1,700	19,622	0.004%
JNL/Mellon World Index Fund	DENSO Corporation			Equity	14,100	214,563	0.046%
JNL/Mellon World Index Fund	Westlake Corporation			Equity	234	35,168	0.008%
JNL/Mellon World Index Fund	Nippon Steel Corporation			Equity	6,500	148,594	0.032%
JNL/Mellon World Index Fund	Tokyo Gas Co., Ltd.			Equity	2,500	58,712	0.013%
JNL/Mellon World Index Fund	Nippon Yusen Kabushiki Kaisha			Equity	3,400	127,463	0.027%
JNL/Mellon World Index Fund	Olympus Corporation			Equity	7,800	148,451	0.032%
JNL/Mellon World Index Fund	Tokyo Electron Limited			Equity	3,000	538,062	0.116%
JNL/Mellon World Index Fund	Takeda Pharmaceutical Co Ltd			Equity	10,470	307,144	0.066%
JNL/Mellon World Index Fund	Ono Pharmaceutical Co., Ltd.			Equity	3,362	45,909	0.010%
JNL/Mellon World Index Fund	Nestle S.A.			Equity	17,279	1,734,809	0.374%
JNL/Mellon World Index Fund	Nissan Chemical Corporation			Equity	1,000	36,265	0.008%
JNL/Mellon World Index Fund	Nidec Corporation			Equity	6,800	180,933	0.031%
JNL/Mellon World Index Fund	Powszechna Kasa Oszczednosci Bank Polski Spolka Akcyjna			Equity	5,503	80,137	0.017%
JNL/Mellon World Index Fund	Tokyo Corporation			Equity	3,700	48,041	0.010%
JNL/Mellon World Index Fund	Nippon Telegraph and Telephone Corporation			Equity	191,000	198,724	0.043%
JNL/Mellon World Index Fund	Netto Denko Corporation			Equity	4,000	68,000	0.015%
JNL/Mellon World Index Fund	Shimano Inc.			Equity	500	94,433	0.020%
JNL/Mellon World Index Fund	Unicharm Corporation			Equity	2,500	90,296	0.019%
JNL/Mellon World Index Fund	Nissan Motor Co., Ltd.			Equity	12,800	36,639	0.008%
JNL/Mellon World Index Fund	Terna - Rete Elettrica Nazionale Societa Per Azioni			Equity	9,061	81,873	0.018%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	Osaka Gas Co., Ltd.			Equity	3,000	68,485	0.015%
JNL/Mellon World Index Fund	Sony Group Corporation			Equity	39,000	76,217	0.164%
JNL/Mellon World Index Fund	Admiral Group PLC			Equity	1,757	67,168	0.014%
JNL/Mellon World Index Fund	Odakyu Electric Railway Co., Ltd.			Equity	2,400	26,991	0.006%
JNL/Mellon World Index Fund	Astellas Pharma Inc.			Equity	12,000	140,535	0.030%
JNL/Mellon World Index Fund	SMC Corporation			Equity	400	179,113	0.038%
JNL/Mellon World Index Fund	Toray Industries, Inc.			Equity	11,700	69,585	0.015%
JNL/Mellon World Index Fund	SoftBank Group Corp			Equity	6,200	367,020	0.079%
JNL/Mellon World Index Fund	TOPPAN Holdings Inc.			Equity	1,700	50,642	0.011%
JNL/Mellon World Index Fund	Telecom Italia S.p.A.			Equity	28,983	8,067	0.002%
JNL/Mellon World Index Fund	Woolworths Group Limited			Equity	7,614	176,995	0.038%
JNL/Mellon World Index Fund	OMRON Corporation			Equity	1,400	64,507	0.014%
JNL/Mellon World Index Fund	Regions Financial Corporation			Equity	5,896	139,028	0.030%
JNL/Mellon World Index Fund	Equinor ASA			Equity	5,386	136,289	0.029%
JNL/Mellon World Index Fund	Rioch Company, Ltd.			Equity	4,300	88,763	0.019%
JNL/Mellon World Index Fund	EMS-Chemie Holding AG			Equity	48	40,311	0.009%
JNL/Mellon World Index Fund	Yakult Honsha Co., Ltd.			Equity	2,200	51,327	0.011%
JNL/Mellon World Index Fund	ACS, Actividades de Construcción y Servicios, S.A.			Equity	1,558	71,806	0.015%
JNL/Mellon World Index Fund	Santos Limited			Equity	21,362	104,009	0.022%
JNL/Mellon World Index Fund	Skanska AB			Equity	1,930	40,234	0.009%
JNL/Mellon World Index Fund	Tosoh Corporation			Equity	2,200	30,020	0.006%
JNL/Mellon World Index Fund	Singapore Telecommunications Limited			Equity	52,800	132,571	0.029%
JNL/Mellon World Index Fund	Obayashi Corporation			Equity	4,900	63,357	0.014%
JNL/Mellon World Index Fund	TOTO Ltd.			Equity	1,100	41,076	0.009%
JNL/Mellon World Index Fund	Yokogawa Electric Corporation			Equity	1,600	41,192	0.009%
JNL/Mellon World Index Fund	Telecom Italia S.p.A.			Equity	80,188	25,507	0.005%
JNL/Mellon World Index Fund	Yamaha Motor Co., Ltd.			Equity	6,000	53,856	0.012%
JNL/Mellon World Index Fund	M3, Inc.			Equity	2,800	28,040	0.006%
JNL/Mellon World Index Fund	Nice Ltd.			Equity	388	67,652	0.015%
JNL/Mellon World Index Fund	Tokyo Century Corporation			Equity	1,200	13,768	0.003%
JNL/Mellon World Index Fund	Shen S.P.A.			Equity	13,874	70,652	0.015%
JNL/Mellon World Index Fund	Spark New Zealand Limited			Equity	13,629	27,686	0.006%
JNL/Mellon World Index Fund	Shimadzu Corporation			Equity	1,900	63,566	0.014%
JNL/Mellon World Index Fund	Toyota Motor Corporation			Equity	78,500	1,421,220	0.306%
JNL/Mellon World Index Fund	Singapore Airlines Limited			Equity	8,700	46,103	0.010%
JNL/Mellon World Index Fund	Toyota Tsusho Corporation			Equity	4,800	98,763	0.021%
JNL/Mellon World Index Fund	Tokyo Electric Power Company Holdings, Inc.			Equity	6,500	28,891	0.006%
JNL/Mellon World Index Fund	Lonza Group AG			Equity	464	293,997	0.063%
JNL/Mellon World Index Fund	Swiss Life Holding AG			Equity	188	157,154	0.034%
JNL/Mellon World Index Fund	Renesas Electronics Corporation			Equity	9,890	142,787	0.031%
JNL/Mellon World Index Fund	Sino Land Company Limited			Equity	11,556	12,648	0.003%
JNL/Mellon World Index Fund	National Australia Bank Limited			Equity	20,792	537,690	0.116%
JNL/Mellon World Index Fund	The Swatch Group AG			Equity	199	42,568	0.009%
JNL/Mellon World Index Fund	Sumitomo Corporation			Equity	8,300	189,753	0.041%
JNL/Mellon World Index Fund	United Overseas Bank Limited			Equity	9,200	229,862	0.050%
JNL/Mellon World Index Fund	Secom Co., Ltd.			Equity	2,600	96,790	0.021%
JNL/Mellon World Index Fund	Hulic Co., Ltd.			Equity	3,400	34,641	0.007%
JNL/Mellon World Index Fund	Toyo Suisan Kaisha, Ltd.			Equity	500	33,070	0.007%
JNL/Mellon World Index Fund	Heineken N.V.			Equity	1,897	168,271	0.036%
JNL/Mellon World Index Fund	Shimizu Corporation			Equity	4,200	29,144	0.006%
JNL/Mellon World Index Fund	Shinogi & Co., Ltd.			Equity	6,000	87,081	0.019%
JNL/Mellon World Index Fund	AXA			Equity	11,560	446,460	0.096%
JNL/Mellon World Index Fund	Shin-Etsu Chemical Co., Ltd.			Equity	13,500	569,974	0.123%
JNL/Mellon World Index Fund	Sumitomo Electric Industries, Ltd.			Equity	5,200	85,394	0.018%
JNL/Mellon World Index Fund	The Swatch Group AG			Equity	339	14,554	0.003%
JNL/Mellon World Index Fund	Oriental Land Co., Ltd.			Equity	7,200	315,949	0.069%
JNL/Mellon World Index Fund	Holcim AG			Equity	3,195	112,386	0.024%
JNL/Mellon World Index Fund	Shiseido Company, Limited			Equity	2,700	72,950	0.016%
JNL/Mellon World Index Fund	Yara International ASA			Equity	1,069	33,885	0.007%
JNL/Mellon World Index Fund	Nippon Sanso Holdings Corporation			Equity	1,200	43,909	0.009%
JNL/Mellon World Index Fund	LPP Spolka Akcyjna			Equity	820	32,912	0.007%
JNL/Mellon World Index Fund	Deutsche Borse Aktiengesellschaft			Equity	1,230	289,033	0.062%
JNL/Mellon World Index Fund	Swire Pacific Limited			Equity	664	6,091	0.001%
JNL/Mellon World Index Fund	Intact Financial Corporation			Equity	1,137	218,329	0.047%
JNL/Mellon World Index Fund	Teclonics Industries Company Limited			Equity	9,500	142,767	0.031%
JNL/Mellon World Index Fund	Sumitomo Realty & Development Co., Ltd.			Equity	3,200	108,270	0.023%
JNL/Mellon World Index Fund	Societe d'exploitation Hoteliere			Equity	470	38,470	0.008%
JNL/Mellon World Index Fund	Sekisui Chemical Co., Ltd.			Equity	3,100	49,047	0.011%
JNL/Mellon World Index Fund	Sun Hung Kai Properties Limited			Equity	12,500	135,912	0.029%
JNL/Mellon World Index Fund	Nissan Food Holdings Co., Ltd.			Equity	1,500	42,292	0.009%
JNL/Mellon World Index Fund	J Sainsbury PLC			Equity	11,601	45,901	0.010%
JNL/Mellon World Index Fund	T&D Holdings, Inc.			Equity	3,100	55,114	0.012%
JNL/Mellon World Index Fund	Roche Holding AG			Equity	4,565	145,426	0.032%
JNL/Mellon World Index Fund	Enel S.p.A.			Equity	50,969	407,515	0.088%
JNL/Mellon World Index Fund	Symex Corporation			Equity	4,000	79,314	0.017%
JNL/Mellon World Index Fund	Toyota Industries Corporation			Equity	1,200	93,663	0.020%
JNL/Mellon World Index Fund	Sekisui House, Ltd.			Equity	4,000	111,184	0.024%
JNL/Mellon World Index Fund	Sonova Holding AG			Equity	317	113,952	0.025%
JNL/Mellon World Index Fund	EssilorLuxottica			Equity	1,971	465,865	0.100%
JNL/Mellon World Index Fund	Credit Agricole SA			Equity	7,916	121,226	0.026%
JNL/Mellon World Index Fund	BNP Paribas			Equity	6,949	475,465	0.102%
JNL/Mellon World Index Fund	Mow ASA			Equity	2,612	47,011	0.010%
JNL/Mellon World Index Fund	Nilton Holdings Co., Ltd.			Equity	500	74,514	0.016%
JNL/Mellon World Index Fund	ORIX Corporation			Equity	7,400	174,448	0.038%
JNL/Mellon World Index Fund	Japan Exchange Group, Inc.			Equity	7,200	94,340	0.020%
JNL/Mellon World Index Fund	Mizuho Teletel Bank Ltd			Equity	925	28,076	0.006%
JNL/Mellon World Index Fund	Monolithic Power Systems, Inc.			Equity	309	286,173	0.062%
JNL/Mellon World Index Fund	Yaskawa Electric Corporation			Equity	1,500	52,831	0.011%
JNL/Mellon World Index Fund	Domino's Pizza, Inc.			Equity	219	84,201	0.020%
JNL/Mellon World Index Fund	QBE Insurance Group Limited			Equity	9,189	110,074	0.024%
JNL/Mellon World Index Fund	Kinross Gold Corporation			Equity	8,100	75,882	0.016%
JNL/Mellon World Index Fund	Groupe Bruxelles Lambert - Groep Brussel Lambert			Equity	527	41,103	0.009%
JNL/Mellon World Index Fund	Alfa Laval AB			Equity	2,045	98,280	0.021%
JNL/Mellon World Index Fund	Compagnie De Saint-Gobain			Equity	3,047	70,251	0.015%
JNL/Mellon World Index Fund	Toho Co., Ltd.			Equity	600	24,545	0.005%
JNL/Mellon World Index Fund	Qantas Airways Limited			Equity	5,402	27,751	0.006%
JNL/Mellon World Index Fund	Taisei Corporation			Equity	1,300	57,416	0.012%
JNL/Mellon World Index Fund	ROHM Co., Ltd.			Equity	2,400	27,403	0.006%
JNL/Mellon World Index Fund	Sonic Healthcare Limited			Equity	3,248	61,361	0.013%
JNL/Mellon World Index Fund	TOBU Railway Co., LTD.			Equity	1,400	24,662	0.005%
JNL/Mellon World Index Fund	Suzuki Motor Corporation			Equity	11,600	130,261	0.028%
JNL/Mellon World Index Fund	TDK Corporation			Equity	11,500	149,863	0.032%
JNL/Mellon World Index Fund	Getinge AB			Equity	1,477	31,858	0.007%
JNL/Mellon World Index Fund	Ameriprise Financial, Inc.			Equity	661	310,544	0.067%
JNL/Mellon World Index Fund	Experian PLC			Equity	6,187	326,062	0.070%
JNL/Mellon World Index Fund	Heineken Holding N.V.			Equity	921	62,034	0.013%
JNL/Mellon World Index Fund	Novartis AG			Equity	13,022	1,501,076	0.323%
JNL/Mellon World Index Fund	Sumitomo Metal Mining Co., Ltd.			Equity	1,500	45,300	0.010%
JNL/Mellon World Index Fund	Santander Bank Polska Spolka Akcyjna			Equity	215	25,377	0.005%
JNL/Mellon World Index Fund	Eni S.P.A.			Equity	13,750	209,570	0.045%
JNL/Mellon World Index Fund	Nintendo Co., Ltd.			Equity	7,200	386,120	0.083%
JNL/Mellon World Index Fund	Severn Trent PLC			Equity	1,512	53,428	0.012%
JNL/Mellon World Index Fund	Danone			Equity	4,282	311,718	0.067%
JNL/Mellon World Index Fund	Hargreaves Lansdown PLC			Equity	2,693	40,241	0.009%
JNL/Mellon World Index Fund	Adidas AG			Equity	2,561	50,965	0.011%
JNL/Mellon World Index Fund	Nomura Real Estate Holdings, Inc.			Equity	700	19,247	0.004%
JNL/Mellon World Index Fund	Seven & I Holdings Co., Ltd.			Equity	15,300	233,101	0.050%
JNL/Mellon World Index Fund	Keppel Ltd.			Equity	9,000	46,253	0.010%
JNL/Mellon World Index Fund	CO2O, Inc.			Equity	1,000	36,887	0.008%
JNL/Mellon World Index Fund	Delta Air Lines, Inc.			Equity	4,323	219,565	0.047%
JNL/Mellon World Index Fund	Andritz AG			Equity	485	34,447	0.007%
JNL/Mellon World Index Fund	MasterCard Incorporated			Equity	5,480	2,706,024	0.583%
JNL/Mellon World Index Fund	MercadoLibre, Inc.			Equity	921	659,679	0.142%
JNL/Mellon World Index Fund	Discover Financial Services			Equity	1,677	235,266	0.051%
JNL/Mellon World Index Fund	CaixaBank, S.A.			Equity	25,661	152,883	0.033%
JNL/Mellon World Index Fund	Bunzl Public Limited Company			Equity	2,084	98,660	0.021%
JNL/Mellon World Index Fund	Unilever PLC			Equity	10,352	1,060,768	0.230%
JNL/Mellon World Index Fund	Mitsubishi Chemical Group Corporation			Equity	9,700	63,286	0.014%
JNL/Mellon World Index Fund	Reckitt Benckiser Group PLC			Equity	4,805	293,591	0.063%
JNL/Mellon World Index Fund	Onion Oyj			Equity	679	37,200	0.008%
JNL/Mellon World Index Fund	Owens Corning			Equity	586	103,441	0.022%
JNL/Mellon World Index Fund	Aeroports de Paris			Equity	221	28,535	0.006%
JNL/Mellon World Index Fund	Raffaelsen Bank International AG			Equity	887	17,685	0.004%
JNL/Mellon World Index Fund	Oversea-Chinese Banking Corporation Limited			Equity	21,715	254,522	0.055%
JNL/Mellon World Index Fund	Whitbread PLC			Equity	1,063	44,844	0.010%
JNL/Mellon World Index Fund	VINCI			Equity	3,120	384,709	0.079%
JNL/Mellon World Index Fund	Franco-Nevada Corporation			Equity	1,289	160,099	0.034%
JNL/Mellon World Index Fund	Chipotle Mexican Grill, Inc.			Equity	9,134	526,301	0.113%
JNL/Mellon World Index Fund	First Solar, Inc.			Equity	699	174,359	0.038%
JNL/Mellon World Index Fund	Walmart International Limited			Equity	14,100	36,616	0.008%
JNL/Mellon World Index Fund	Effage			Equity	573	55,324	0.012%
JNL/Mellon World Index Fund	Engie			Equity	11,655	201,369	0.043%
JNL/Mellon World Index Fund	IPSEN			Equity	247	30,390	0.007%
JNL/Mellon World Index Fund	Partners Group Holding AG			Equity	139	208,812	0.045%
JNL/Mellon World Index Fund	Live Nation Entertainment, Inc.			Equity	1,014	111,023	0.024%
JNL/Mellon World Index Fund	Insulet Corporation			Equity	449	104,505	0.023%
JNL/Mellon World Index Fund	DexCom, Inc.			Equity	2,616	175,377	0.038%
JNL/Mellon World Index Fund	MTU Aero Engines AG			Equity	369	115,156	0.025%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	Kone Corporation			Equity	2,383	142,526	0.031%
JNL/Mellon World Index Fund	Recordati Industria Chimica E Farmaceutica S.P.A. In Breve Recordati S.P.A.			Equity	759	42,907	0.009%
JNL/Mellon World Index Fund	Brambles Limited			Equity	8,899	119,022	0.026%
JNL/Mellon World Index Fund	Gebert AG			Equity	222	145,083	0.031%
JNL/Mellon World Index Fund	Galp Energia, SGPS, S.A.			Equity	2,730	51,056	0.011%
JNL/Mellon World Index Fund	Constellation Software Inc.			Equity	1,137	445,843	0.066%
JNL/Mellon World Index Fund	Phrysman S.p.A.			Equity	1,939	140,489	0.030%
JNL/Mellon World Index Fund	Sandvik Aktiebolag			Equity	6,473	144,681	0.031%
JNL/Mellon World Index Fund	Aktiebolaget Industrivarden			Equity	1,162	42,757	0.009%
JNL/Mellon World Index Fund	Leonardo S.p.A.			Equity	2,735	61,192	0.013%
JNL/Mellon World Index Fund	SEEK Limited			Equity	2,340	40,573	0.009%
JNL/Mellon World Index Fund	Macquarie Group Limited			Equity	2,501	402,214	0.087%
JNL/Mellon World Index Fund	Geflink S.E.			Equity	2,298	41,010	0.009%
JNL/Mellon World Index Fund	Symrise AG			Equity	787	108,719	0.023%
JNL/Mellon World Index Fund	Aktiebolaget Volvo			Equity	9,542	252,342	0.054%
JNL/Mellon World Index Fund	Norsk Hydro ASA			Equity	9,039	58,726	0.013%
JNL/Mellon World Index Fund	Legrand			Equity	1,710	196,715	0.042%
JNL/Mellon World Index Fund	Kühne & Nagel International AG			Equity	307	83,909	0.018%
JNL/Mellon World Index Fund	Colanese Corporation			Equity	695	94,402	0.020%
JNL/Mellon World Index Fund	Metso Oyj			Equity	4,496	48,757	0.011%
JNL/Mellon World Index Fund	3i Group PLC			Equity	6,475	286,896	0.062%
JNL/Mellon World Index Fund	Super Micro Computer, Inc.			Equity	330	137,412	0.030%
JNL/Mellon World Index Fund	London Stock Exchange Group PLC			Equity	2,917	399,345	0.086%
JNL/Mellon World Index Fund	Reks PLC			Equity	12,453	587,607	0.127%
JNL/Mellon World Index Fund	Bandai Namco Holdings Inc.			Equity	4,500	103,211	0.022%
JNL/Mellon World Index Fund	Bureau Veritas			Equity	2,069	68,390	0.015%
JNL/Mellon World Index Fund	Molson Coors Beverage Company			Equity	1,246	71,670	0.015%
JNL/Mellon World Index Fund	Schindler Holding AG			Equity	275	80,748	0.017%
JNL/Mellon World Index Fund	MSCI Inc.			Equity	529	308,370	0.066%
JNL/Mellon World Index Fund	Neste Oyj			Equity	2,964	57,255	0.012%
JNL/Mellon World Index Fund	Lululemon Athletica Inc.			Equity	742	201,342	0.043%
JNL/Mellon World Index Fund	Ipser Corporation			Equity	5,600	76,541	0.016%
JNL/Mellon World Index Fund	Fukuoka Financial Group, Inc.			Equity	1,100	28,724	0.006%
JNL/Mellon World Index Fund	Orkla ASA			Equity	5,541	52,215	0.011%
JNL/Mellon World Index Fund	Smiths Group PLC			Equity	2,142	48,086	0.010%
JNL/Mellon World Index Fund	Bullfinch FirstSource, Inc.			Equity	793	153,731	0.030%
JNL/Mellon World Index Fund	Brookridge Financial Solutions, Inc.			Equity	776	167,546	0.036%
JNL/Mellon World Index Fund	SUMCO Corporation			Equity	2,200	23,701	0.005%
JNL/Mellon World Index Fund	Daichi Sankyo Company, Limited			Equity	12,500	413,305	0.089%
JNL/Mellon World Index Fund	Rentschler Initial PLC			Equity	19,545	67,169	0.014%
JNL/Mellon World Index Fund	Bank of New York Mellon Corporation, The			Equity	5,007	359,803	0.078%
JNL/Mellon World Index Fund	MatsukyoCockara & Co.			Equity	2,700	44,757	0.010%
JNL/Mellon World Index Fund	Ulta Beauty, Inc.			Equity	230	124,518	0.027%
JNL/Mellon World Index Fund	Anglo American PLC			Equity	8,014	260,778	0.056%
JNL/Mellon World Index Fund	CF Industries Holdings, Inc.			Equity	1,237	106,135	0.023%
JNL/Mellon World Index Fund	Husqvarna Aktiebolag			Equity	2,846	19,913	0.004%
JNL/Mellon World Index Fund	DVS ASV			Equity	1,113	229,620	0.049%
JNL/Mellon World Index Fund	Aker BP ASA			Equity	1,426	39,485	0.007%
JNL/Mellon World Index Fund	TransDigm Group Incorporated			Equity	374	533,747	0.115%
JNL/Mellon World Index Fund	TotalEnergies SE			Equity	14,184	935,434	0.202%
JNL/Mellon World Index Fund	Idemitsu Kosan Co., Ltd.			Equity	5,985	44,043	0.009%
JNL/Mellon World Index Fund	Berdorff, Societaed Anonima			Equity	389,980	607,980	0.130%
JNL/Mellon World Index Fund	L'Air Liquide, societe anonyme pour l'etude et l'exploitation des procedes Georges Claude			Equity	3,776	729,304	0.157%
JNL/Mellon World Index Fund	Schindler Holding AG			Equity	147	41,819	0.009%
JNL/Mellon World Index Fund	NEXON Co., Ltd.			Equity	2,200	43,396	0.009%
JNL/Mellon World Index Fund	Marathon Petroleum Corporation			Equity	2,261	388,502	0.083%
JNL/Mellon World Index Fund	Jerónimo Martins, SGPS, S.A.			Equity	1,823	56,814	0.008%
JNL/Mellon World Index Fund	Pembina Pipeline Corporation			Equity	3,799	156,600	0.034%
JNL/Mellon World Index Fund	Entain PLC			Equity	3,917	40,006	0.009%
JNL/Mellon World Index Fund	Brenntag SE			Equity	853	63,639	0.014%
JNL/Mellon World Index Fund	Powzechy Zaklad Ubezpieczen Spolka Akcyjna			Equity	3,638	43,918	0.009%
JNL/Mellon World Index Fund	NXP Semiconductors N.V.			Equity	1,700	409,741	0.088%
JNL/Mellon World Index Fund	Evonik Industries AG			Equity	1,293	30,304	0.007%
JNL/Mellon World Index Fund	Sompo Holdings, Inc.			Equity	6,300	144,070	0.031%
JNL/Mellon World Index Fund	Huntington Ingalls Industries, Inc.			Equity	254	67,143	0.014%
JNL/Mellon World Index Fund	Hoshizaki Corporation			Equity	800	27,828	0.006%
JNL/Mellon World Index Fund	AAA Group Limited			Equity	74,600	649,086	0.140%
JNL/Mellon World Index Fund	Meiji Holdings Co., Ltd.			Equity	2,000	50,679	0.011%
JNL/Mellon World Index Fund	Dai-ichi Life Holdings, Inc.			Equity	6,300	165,973	0.036%
JNL/Mellon World Index Fund	Glencore PLC			Equity	63,822	364,199	0.078%
JNL/Mellon World Index Fund	Gjensidige Forsikring ASA			Equity	1,395	26,111	0.006%
JNL/Mellon World Index Fund	Tesla Inc.			Equity	18,420	4,819,225	1.038%
JNL/Mellon World Index Fund	Dollarana Inc.			Equity	1,997	194,223	0.042%
JNL/Mellon World Index Fund	Otsuka Holdings Co., Ltd.			Equity	3,100	176,015	0.038%
JNL/Mellon World Index Fund	Booz Allen Hamilton Holding Corporation			Equity	871	141,764	0.031%
JNL/Mellon World Index Fund	Aznell Group Ltd.			Equity	248	17,287	0.004%
JNL/Mellon World Index Fund	Accenture Public Limited Company			Equity	4,148	1,449,235	0.316%
JNL/Mellon World Index Fund	Stanley Black & Decker, Inc.			Equity	1,085	119,491	0.026%
JNL/Mellon World Index Fund	O'Reilly Automotive, Inc.			Equity	388	446,821	0.096%
JNL/Mellon World Index Fund	Keyera Corp.			Equity	1,700	53,007	0.011%
JNL/Mellon World Index Fund	SS&C Technologies Holdings, Inc.			Equity	1,458	109,198	0.023%
JNL/Mellon World Index Fund	Swiss Re AG			Equity	1,911	204,032	0.057%
JNL/Mellon World Index Fund	Motorola Solutions, Inc.			Equity	1,099	495,220	0.107%
JNL/Mellon World Index Fund	Tourmaline Oil Corp			Equity	2,339	108,627	0.023%
JNL/Mellon World Index Fund	Novozymes AS			Equity	2,409	173,491	0.037%
JNL/Mellon World Index Fund	LPL Financial Holdings Inc.			Equity	494	114,919	0.025%
JNL/Mellon World Index Fund	Fortinet, Inc.			Equity	4,430	343,547	0.074%
JNL/Mellon World Index Fund	Amadeus IT Holding, S.A.			Equity	2,780	200,762	0.043%
JNL/Mellon World Index Fund	Targa Resources Corp.			Equity	1,489	220,387	0.047%
JNL/Mellon World Index Fund	HCA Healthcare, Inc.			Equity	1,243	505,182	0.108%
JNL/Mellon World Index Fund	Sands China Ltd.			Equity	16,059	40,510	0.009%
JNL/Mellon World Index Fund	Treasury Wine Estates Limited			Equity	5,163	43,554	0.009%
JNL/Mellon World Index Fund	AtaGas Ltd.			Equity	1,472	36,439	0.008%
JNL/Mellon World Index Fund	Fresnillo PLC			Equity	1,982	8,890	0.002%
JNL/Mellon World Index Fund	Expedia Group, Inc.			Equity	819	121,228	0.026%
JNL/Mellon World Index Fund	American Water Works Company, Inc.			Equity	1,350	197,424	0.043%
JNL/Mellon World Index Fund	General Motors Company			Equity	7,618	341,591	0.074%
JNL/Mellon World Index Fund	Aplys PLC			Equity	1,639	119,024	0.025%
JNL/Mellon World Index Fund	Philips 66			Equity	2,786	366,220	0.079%
JNL/Mellon World Index Fund	Dollar General Corporation			Equity	1,334	112,816	0.024%
JNL/Mellon World Index Fund	LyondellBasell Industries N.V.			Equity	1,757	168,496	0.036%
JNL/Mellon World Index Fund	Xylem Inc.			Equity	1,594	115,238	0.024%
JNL/Mellon World Index Fund	United Airlines Holdings, Inc.			Equity	2,152	122,793	0.026%
JNL/Mellon World Index Fund	ENEOS Holdings, Inc.			Equity	19,500	108,054	0.023%
JNL/Mellon World Index Fund	Edenvard			Equity	1,662	62,900	0.014%
JNL/Mellon World Index Fund	ARC Resources Ltd.			Equity	3,967	65,848	0.014%
JNL/Mellon World Index Fund	Visa Inc.			Equity	10,911	2,999,979	0.646%
JNL/Mellon World Index Fund	Verisk Analytics, Inc.			Equity	952	255,098	0.055%
JNL/Mellon World Index Fund	Mosaic Company, The			Equity	2,193	58,729	0.013%
JNL/Mellon World Index Fund	MS&AD Insurance Group Holdings, Inc.			Equity	8,700	207,492	0.045%
JNL/Mellon World Index Fund	Gannett Ltd.			Equity	1,005	176,910	0.038%
JNL/Mellon World Index Fund	NMC Health PLC			Equity	726	0	0.000%
JNL/Mellon World Index Fund	Chubb Limited			Equity	2,621	758,255	0.163%
JNL/Mellon World Index Fund	Pandora AS			Equity	556	91,664	0.020%
JNL/Mellon World Index Fund	HKT Trust			Equity	17,000	21,708	0.005%
JNL/Mellon World Index Fund	International Consolidated Airlines Group, S.A.			Equity	22,035	60,515	0.013%
JNL/Mellon World Index Fund	United Utilities PLC			Equity	4,643	64,816	0.014%
JNL/Mellon World Index Fund	Swire Properties Limited			Equity	8,000	16,620	0.004%
JNL/Mellon World Index Fund	Julius Baer Gruppe AG			Equity	1,198	72,143	0.016%
JNL/Mellon World Index Fund	EPAM Systems, Inc.			Equity	389	77,423	0.017%
JNL/Mellon World Index Fund	Kinder Morgan, Inc.			Equity	13,296	293,709	0.063%
JNL/Mellon World Index Fund	Suncor Energy Inc.			Equity	8,400	310,051	0.067%
JNL/Mellon World Index Fund	Philip Morris International Inc.			Equity	10,261	1,259,538	0.271%
JNL/Mellon World Index Fund	Rolls-Royce Holdings PLC			Equity	55,689	394,360	0.085%
JNL/Mellon World Index Fund	Genovus Energy Inc.			Equity	8,739	146,162	0.031%
JNL/Mellon World Index Fund	Nutrien Ltd.			Equity	3,171	154,087	0.033%
JNL/Mellon World Index Fund	Japan Airlines Co., Ltd.			Equity	1,000	17,819	0.004%
JNL/Mellon World Index Fund	Meta Platforms, Inc.			Equity	14,517	8,310,111	1.791%
JNL/Mellon World Index Fund	Duke Energy Corporation			Equity	5,115	589,760	0.127%
JNL/Mellon World Index Fund	ServiceNow, Inc.			Equity	1,363	1,219,054	0.263%
JNL/Mellon World Index Fund	Diamondback Energy, Inc.			Equity	1,107	180,847	0.041%
JNL/Mellon World Index Fund	Aurizon Holdings Limited			Equity	12,712	31,075	0.007%
JNL/Mellon World Index Fund	COWI Corp.			Equity	877	198,465	0.043%
JNL/Mellon World Index Fund	Willis Towers Watson Public Limited Company			Equity	687	202,947	0.044%
JNL/Mellon World Index Fund	Siemens Healthineers AG			Equity	1,733	104,630	0.022%
JNL/Mellon World Index Fund	Zoetis Inc.			Equity	3,031	592,197	0.128%
JNL/Mellon World Index Fund	Suntory Beverage & Food Limited			Equity	900	33,964	0.007%
JNL/Mellon World Index Fund	Compagnie Financiere Richemont SA			Equity	3,558	561,858	0.121%
JNL/Mellon World Index Fund	Ferrari N.V.			Equity	804	376,743	0.081%
JNL/Mellon World Index Fund	WPP 2012 Limited			Equity	6,791	69,471	0.015%
JNL/Mellon World Index Fund	Tele2 AB			Equity	3,348	37,925	0.008%
JNL/Mellon World Index Fund	Trade Desk, Inc., The			Equity	2,908	318,862	0.069%
JNL/Mellon World Index Fund	Wheaton Precious Metals Corp.			Equity	3,000	183,223	0.039%
JNL/Mellon World Index Fund	Nuveen Corporation			Equity	2,242	59,829	0.013%
JNL/Mellon World Index Fund	Vonovia SE			Equity	5,602	204,559	0.044%
JNL/Mellon World Index Fund	Koninklijke Ahold Delhaize N.V.			Equity	5,729	198,289	0.043%
JNL/Mellon World Index Fund	Concordia Financial Group, Ltd.			Equity	8,800	49,823	0.011%
JNL/Mellon World Index Fund	KKR & Co. Inc.			Equity	4,366	572,724	0.123%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	Coca-Cola Europacific Partners PLC		1.407	Equity	110,801	0.024%	
JNL/Mellon World Index Fund	News Corporation		823	Equity	23,085	0.005%	
JNL/Mellon World Index Fund	National Grid PLC		32.118	Equity	442,686	0.095%	
JNL/Mellon World Index Fund	ASML Holding N.V.		2,600	Equity	2,172,030	0.468%	
JNL/Mellon World Index Fund	Redeia Corporation SA		2,137	Equity	41,506	0.009%	
JNL/Mellon World Index Fund	GoDaddy Inc.		903	Equity	141,572	0.031%	
JNL/Mellon World Index Fund	Tokuy Fudosan Holdings Co., Ltd.		4,700	Equity	33,035	0.007%	
JNL/Mellon World Index Fund	IQVIA Holdings Inc.		1,225	Equity	280,288	0.063%	
JNL/Mellon World Index Fund	PTC Inc.		750	Equity	135,495	0.029%	
JNL/Mellon World Index Fund	Dino Polska Spolka Akcyjna		307	Equity	27,959	0.006%	
JNL/Mellon World Index Fund	Hubbell Incorporated		358	Equity	153,349	0.033%	
JNL/Mellon World Index Fund	T-Mobile US, Inc.		3,096	Equity	638,891	0.138%	
JNL/Mellon World Index Fund	Snip Inc.		7,570	Equity	80,999	0.017%	
JNL/Mellon World Index Fund	Mondelez International, Inc.		8,968	Equity	664,888	0.143%	
JNL/Mellon World Index Fund	Ivanhoe Mines Ltd		5,328	Equity	79,263	0.017%	
JNL/Mellon World Index Fund	Twilio Inc.		1,130	Equity	73,699	0.016%	
JNL/Mellon World Index Fund	ABBVie Inc.		11,682	Equity	2,306,961	0.497%	
JNL/Mellon World Index Fund	Coloplast A/S		930	Equity	121,502	0.026%	
JNL/Mellon World Index Fund	The Sage Group PLC		6,039	Equity	83,037	0.018%	
JNL/Mellon World Index Fund	Agens SANV		1,013	Equity	54,089	0.012%	
JNL/Mellon World Index Fund	Palo Alto Networks, Inc.		2,130	Equity	728,034	0.157%	
JNL/Mellon World Index Fund	Genting Singapore Limited		40,900	Equity	27,814	0.006%	
JNL/Mellon World Index Fund	Coca-Cola HBC AG		1,359	Equity	48,492	0.010%	
JNL/Mellon World Index Fund	Okta, Inc.		1,168	Equity	86,829	0.019%	
JNL/Mellon World Index Fund	Lamb Weston Holdings, Inc.		914	Equity	59,172	0.013%	
JNL/Mellon World Index Fund	Convatec Group PLC		10,837	Equity	33,141	0.007%	
JNL/Mellon World Index Fund	COMMERZBANK Aktiengesellschaft		6,999	Equity	112,673	0.024%	
JNL/Mellon World Index Fund	Eaton Corporation Public Limited Company		2,638	Equity	874,339	0.188%	
JNL/Mellon World Index Fund	Baker Hughes Company		6,640	Equity	240,036	0.052%	
JNL/Mellon World Index Fund	Compass Group PLC		11,408	Equity	365,943	0.079%	
JNL/Mellon World Index Fund	Workday, Inc.		1,414	Equity	345,596	0.074%	
JNL/Mellon World Index Fund	Former Charter Communications Parent, Inc.		655	Equity	212,272	0.046%	
JNL/Mellon World Index Fund	NH Group N.V.		1,709	Equity	84,939	0.018%	
JNL/Mellon World Index Fund	Fidelity National Financial, Inc.		1,697	Equity	105,316	0.023%	
JNL/Mellon World Index Fund	Anheuser-Busch Inbev		6,141	Equity	406,308	0.088%	
JNL/Mellon World Index Fund	The Capra Group		1,877	Equity	650,268	0.140%	
JNL/Mellon World Index Fund	Vistra Corp.		2,168	Equity	256,995	0.055%	
JNL/Mellon World Index Fund	DocuSign, Inc.		1,331	Equity	82,642	0.018%	
JNL/Mellon World Index Fund	Energys, Inc.		1,604	Equity	99,464	0.021%	
JNL/Mellon World Index Fund	Pirelli & C. S.p.A.		2,974	Equity	18,046	0.004%	
JNL/Mellon World Index Fund	ING Groep N.V.		21,706	Equity	394,979	0.085%	
JNL/Mellon World Index Fund	Axon Enterprise, Inc.		465	Equity	185,814	0.040%	
JNL/Mellon World Index Fund	Moncler S.p.A.		1,306	Equity	83,036	0.018%	
JNL/Mellon World Index Fund	Qorvo, Inc.		631	Equity	65,182	0.014%	
JNL/Mellon World Index Fund	Pentair Public Limited Company		1,147	Equity	112,165	0.024%	
JNL/Mellon World Index Fund	SG Holdings Co., Ltd.		2,400	Equity	26,175	0.006%	
JNL/Mellon World Index Fund	Burlington Stores, Inc.		432	Equity	113,823	0.025%	
JNL/Mellon World Index Fund	Sika AG		1,070	Equity	355,063	0.077%	
JNL/Mellon World Index Fund	Broadcom Inc.		30,192	Equity	5,208,120	1.122%	
JNL/Mellon World Index Fund	Leidos Holdings, Inc.		897	Equity	146,211	0.032%	
JNL/Mellon World Index Fund	James Hardie Industries Public Limited Company		2,695	Equity	107,679	0.023%	
JNL/Mellon World Index Fund	WH Group Limited		52,000	Equity	40,896	0.009%	
JNL/Mellon World Index Fund	Booking Holdings Inc.		224	Equity	943,515	0.203%	
JNL/Mellon World Index Fund	Umicore		1,330	Equity	17,289	0.004%	
JNL/Mellon World Index Fund	Wharf Real Estate Investment Company Limited		11,000	Equity	38,470	0.008%	
JNL/Mellon World Index Fund	Infarma PLC		8,152	Equity	89,659	0.019%	
JNL/Mellon World Index Fund	Veeva Systems Inc.		1,003	Equity	210,500	0.045%	
JNL/Mellon World Index Fund	WiseTech Global Limited		1,104	Equity	105,374	0.023%	
JNL/Mellon World Index Fund	Vodafone Group Public Limited Company		132,994	Equity	133,334	0.029%	
JNL/Mellon World Index Fund	Biomerieux SA		307	Equity	36,784	0.008%	
JNL/Mellon World Index Fund	Allergan Public Limited Company		583	Equity	84,866	0.018%	
JNL/Mellon World Index Fund	Amundi		433	Equity	32,341	0.007%	
JNL/Mellon World Index Fund	Intercontinental Exchange, Inc.		3,757	Equity	603,524	0.130%	
JNL/Mellon World Index Fund	Paycom Software, Inc.		335	Equity	55,801	0.012%	
JNL/Mellon World Index Fund	Essity Aktiefond (publ)		4,155	Equity	129,786	0.028%	
JNL/Mellon World Index Fund	CHN Industrial N.V.		4,943	Equity	54,867	0.012%	
JNL/Mellon World Index Fund	Groupe WSP Global Inc.		848	Equity	150,893	0.033%	
JNL/Mellon World Index Fund	Arista Networks, Inc.		1,719	Equity	659,787	0.142%	
JNL/Mellon World Index Fund	S&P Global Inc.		2,071	Equity	1,069,920	0.231%	
JNL/Mellon World Index Fund	Auckland International Airport Limited		8,926	Equity	42,728	0.009%	
JNL/Mellon World Index Fund	Waste Connections, Inc.		1,699	Equity	303,696	0.065%	
JNL/Mellon World Index Fund	Equity Residential		2,343	Equity	176,041	0.038%	
JNL/Mellon World Index Fund	Kraft Heinz Company, The		5,728	Equity	201,110	0.043%	
JNL/Mellon World Index Fund	Exor Nederland N.V.		618	Equity	66,359	0.014%	
JNL/Mellon World Index Fund	Shopify Inc.		7,921	Equity	634,582	0.137%	
JNL/Mellon World Index Fund	Elevance Health, Inc.		1,510	Equity	785,200	0.169%	
JNL/Mellon World Index Fund	Citizens Financial Group, Inc.		2,947	Equity	121,033	0.026%	
JNL/Mellon World Index Fund	Poste Italiane - Societa' Per Azioni		3,130	Equity	43,888	0.009%	
JNL/Mellon World Index Fund	Zillow Group, Inc.		251	Equity	15,544	0.003%	
JNL/Mellon World Index Fund	Iron Mountain Incorporated		1,966	Equity	235,025	0.051%	
JNL/Mellon World Index Fund	TransUnion		1,238	Equity	129,619	0.028%	
JNL/Mellon World Index Fund	Flutter Entertainment Public Limited Company		1,043	Equity	245,444	0.053%	
JNL/Mellon World Index Fund	Hydro One Limited		2,300	Equity	79,725	0.017%	
JNL/Mellon World Index Fund	Walgreens Boots Alliance, Inc.		4,409	Equity	39,505	0.009%	
JNL/Mellon World Index Fund	Covestro AG		1,228	Equity	76,470	0.016%	
JNL/Mellon World Index Fund	Eversource Energy		2,318	Equity	157,740	0.034%	
JNL/Mellon World Index Fund	CK Hutchison Holdings Limited		18,000	Equity	102,315	0.022%	
JNL/Mellon World Index Fund	ASSA ABLOY AB		6,913	Equity	232,676	0.050%	
JNL/Mellon World Index Fund	Recruit Holdings Co., Ltd.		10,200	Equity	621,652	0.134%	
JNL/Mellon World Index Fund	Orsted A/S		1,267	Equity	84,020	0.018%	
JNL/Mellon World Index Fund	Capitaland Ascendas REIT		22,855	Equity	50,761	0.011%	
JNL/Mellon World Index Fund	Zillow Group, Inc.		1,268	Equity	80,962	0.017%	
JNL/Mellon World Index Fund	Alphabet Inc.		38,901	Equity	6,451,731	1.390%	
JNL/Mellon World Index Fund	Keysight Technologies, Inc.		1,140	Equity	181,180	0.039%	
JNL/Mellon World Index Fund	Banca Mediolanum SpA		1,653	Equity	20,837	0.004%	
JNL/Mellon World Index Fund	Celnex Telecom, S.A.		3,905	Equity	158,247	0.034%	
JNL/Mellon World Index Fund	Japan Post Bank Co., Ltd.		9,400	Equity	87,713	0.019%	
JNL/Mellon World Index Fund	Synchrony Financial		2,590	Equity	129,189	0.028%	
JNL/Mellon World Index Fund	Block, Inc.		3,688	Equity	247,575	0.053%	
JNL/Mellon World Index Fund	South32 Limited		30,263	Equity	79,919	0.017%	
JNL/Mellon World Index Fund	Hewlett Packard Enterprise Company		8,546	Equity	175,962	0.038%	
JNL/Mellon World Index Fund	Alphabet Inc.		34,441	Equity	5,758,191	1.241%	
JNL/Mellon World Index Fund	AVANGRID, Inc.		376	Equity	13,622	0.003%	
JNL/Mellon World Index Fund	Meridian Energy Limited		9,293	Equity	34,972	0.008%	
JNL/Mellon World Index Fund	Dell Technologies Inc.		1,742	Equity	206,497	0.044%	
JNL/Mellon World Index Fund	Monster Beverage 1990 Corporation		4,919	Equity	256,624	0.055%	
JNL/Mellon World Index Fund	Medibank Private Limited		17,986	Equity	45,551	0.010%	
JNL/Mellon World Index Fund	Atlas Arteria Limited		5,349	Equity	18,867	0.004%	
JNL/Mellon World Index Fund	HubSpot, Inc.		333	Equity	177,023	0.038%	
JNL/Mellon World Index Fund	HP, Inc.		6,436	Equity	232,633	0.050%	
JNL/Mellon World Index Fund	PayPal Holdings, Inc.		6,758	Equity	527,327	0.114%	
JNL/Mellon World Index Fund	Johnson Controls International Public Limited Company		4,539	Equity	353,951	0.076%	
JNL/Mellon World Index Fund	AENA, S.M.E., S.A.		478	Equity	105,112	0.023%	
JNL/Mellon World Index Fund	ArcelorMittal		3,170	Equity	83,464	0.018%	
JNL/Mellon World Index Fund	Restaurant Brands International Limited Partnership		2,000	Equity	145,479	0.031%	
JNL/Mellon World Index Fund	Auto Trader Group PLC		6,456	Equity	75,108	0.016%	
JNL/Mellon World Index Fund	Zscaler, Inc.		613	Equity	104,786	0.023%	
JNL/Mellon World Index Fund	CK Asset Holdings Limited		10,500	Equity	45,719	0.010%	
JNL/Mellon World Index Fund	Svenska Handelsbanken AB		9,695	Equity	99,567	0.021%	
JNL/Mellon World Index Fund	Bio-Techne Corporation		992	Equity	79,291	0.017%	
JNL/Mellon World Index Fund	Industria de Diseno Textil, S.A.		7,308	Equity	432,706	0.093%	
JNL/Mellon World Index Fund	Japan Post Holdings Co., Ltd.		13,600	Equity	132,521	0.029%	
JNL/Mellon World Index Fund	Tryg AS		2,244	Equity	53,234	0.011%	
JNL/Mellon World Index Fund	Demant AS		623	Equity	24,376	0.005%	
JNL/Mellon World Index Fund	Schibsted ASA		192	Equity	5,799	0.001%	
JNL/Mellon World Index Fund	Hilton Worldwide Holdings Inc.		1,607	Equity	370,414	0.080%	
JNL/Mellon World Index Fund	UES Group AG		21,009	Equity	650,600	0.140%	
JNL/Mellon World Index Fund	CK Infrastructure Holdings Limited		4,000	Equity	27,210	0.006%	
JNL/Mellon World Index Fund	Mettronic, Inc.		8,644	Equity	784,270	0.169%	
JNL/Mellon World Index Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.		10,837	Equity	476,598	0.103%	
JNL/Mellon World Index Fund	Fortive Corporation		2,396	Equity	182,013	0.039%	
JNL/Mellon World Index Fund	Crown Castle Inc.		2,807	Equity	332,994	0.072%	
JNL/Mellon World Index Fund	WEC Energy Group Inc.		2,162	Equity	207,941	0.045%	
JNL/Mellon World Index Fund	Equinix, Inc.		622	Equity	552,106	0.119%	
JNL/Mellon World Index Fund	Stockland Corporation Ltd		16,081	Equity	58,335	0.013%	
JNL/Mellon World Index Fund	Adyen N.V.		207	Equity	324,357	0.070%	
JNL/Mellon World Index Fund	Nippon Building Fund Inc.		55	Equity	50,488	0.011%	
JNL/Mellon World Index Fund	Bayerische Motoren Werke Aktiengesellschaft		353	Equity	29,293	0.006%	
JNL/Mellon World Index Fund	Mapietree Commercial Trust Treasury Company Pte. Ltd.		13,100	Equity	15,094	0.003%	
JNL/Mellon World Index Fund	Alexandria Real Estate Equities, Inc.		1,086	Equity	130,374	0.028%	
JNL/Mellon World Index Fund	CapitaLand Group Pte. Ltd.		35,045	Equity	58,234	0.013%	
JNL/Mellon World Index Fund	Camden Property Trust		763	Equity	95,039	0.020%	
JNL/Mellon World Index Fund	Volkswagen Aktiengesellschaft		1,371	Equity	145,542	0.031%	
JNL/Mellon World Index Fund	Prologis Inc.		6,151	Equity	776,701	0.167%	
JNL/Mellon World Index Fund	W.P. Carey Inc.		1,389	Equity	87,750	0.019%	
JNL/Mellon World Index Fund	Invitation Homes Inc.		3,949	Equity	140,347	0.030%	
JNL/Mellon World Index Fund	Realty Income Corporation		5,653	Equity	358,513	0.077%	
JNL/Mellon World Index Fund	Kimco Realty OP, LLC		4,570	Equity	106,115	0.023%	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Mellon World Index Fund	SEGRO Public Limited Company			Equity	7,168	83,820	0.018%
JNL/Mellon World Index Fund	Public Storage Operating Company			Equity	1,046	30,608	0.062%
JNL/Mellon World Index Fund	DEXUS Funds Management Limited			Equity	7,920	41,556	0.009%
JNL/Mellon World Index Fund	Equity Lifestyle Properties, Inc.			Equity	1,189	85,391	0.018%
JNL/Mellon World Index Fund	Sun Communities, Inc.			Equity	778	105,878	0.023%
JNL/Mellon World Index Fund	Simon Property Group, Inc.			Equity	2,062	249,518	0.075%
JNL/Mellon World Index Fund	Essex Property Trust, Inc.			Equity	400	119,148	0.026%
JNL/Mellon World Index Fund	American Tower Corporation			Equity	3,062	712,099	0.153%
JNL/Mellon World Index Fund	Host Hotels & Resorts, Inc.			Equity	4,749	84,532	0.018%
JNL/Mellon World Index Fund	CBRE Group, Inc.			Equity	1,993	248,089	0.053%
JNL/Mellon World Index Fund	AvatarBay Communities, Inc.			Equity	886	201,078	0.043%
JNL/Mellon World Index Fund	Weyerhaeuser Company			Equity	4,710	159,481	0.034%
JNL/Mellon World Index Fund	Extra Space Storage Inc.			Equity	1,405	253,167	0.055%
JNL/Mellon World Index Fund	Nippon Prologis REIT, Inc.			Equity	16	27,481	0.006%
JNL/Mellon World Index Fund	CLP J-REIT			Equity	30	28,403	0.006%
JNL/Mellon World Index Fund	Japan Real Estate Investment Corporation			Equity	9	36,556	0.008%
JNL/Mellon World Index Fund	Ventis, Inc.			Equity	2,755	176,678	0.038%
JNL/Mellon World Index Fund	Digital Realty Trust, Inc.			Equity	2,194	355,055	0.077%
JNL/Mellon World Index Fund	Welltower Inc.			Equity	4,005	512,888	0.111%
JNL/Mellon World Index Fund	Regency Centers Corporation			Equity	1,085	79,097	0.017%
JNL/Mellon World Index Fund	Canadian Apartment Properties Real Estate Investment Trust			Equity	500	20,376	0.004%
JNL/Mellon World Index Fund	Japan Metropolitan Fund Investment Corporation			Equity	48	33,090	0.007%
JNL/Mellon World Index Fund	Goodman Funding Pty Ltd			Equity	11,798	302,345	0.065%
JNL/Mellon World Index Fund	UDR, Inc.			Equity	1,995	90,453	0.019%
JNL/Mellon World Index Fund	BXP, Inc.			Equity	1,145	93,249	0.020%
JNL/Mellon World Index Fund	IA Societe Financiere Inc.			Equity	618	51,224	0.011%
JNL/Mellon World Index Fund	Scotiabank Group Limited			Equity	37,597	95,197	0.021%
JNL/Mellon World Index Fund	Link Real Estate Investment Trust			Equity	17,530	87,335	0.019%
JNL/Mellon World Index Fund	Mirvac Limited			Equity	24,850	37,042	0.008%
JNL/Mellon World Index Fund	GPT Management Holdings Limited			Equity	13,257	45,753	0.010%
JNL/Mellon World Index Fund	Sarbanus Aktiengesellschaft			Equity	168	47,232	0.010%
JNL/Mellon World Index Fund	Hiscox Ltd.			Equity	1,090	36,473	0.008%
JNL/Mellon World Index Fund	Vicinity Centres RE Ltd			Equity	26,215	40,165	0.009%
JNL/Mellon World Index Fund	SBA Communications Corporation			Equity	698	168,009	0.036%
JNL/Mellon World Index Fund	Nomura Real Estate Master Fund, Inc.			Equity	31	31,590	0.007%
JNL/Mellon World Index Fund	VCI Properties Inc.			Equity	6,733	203,884	0.046%
JNL/Mellon World Index Fund	Land Securities Group PLC			Equity	4,627	40,993	0.009%
JNL/Mellon World Index Fund	SoftBank Corp.			Equity	187,000	249,608	0.054%
JNL/Mellon World Index Fund	InterContinental Hotels Group PLC			Equity	1,014	110,898	0.024%
JNL/Mellon World Index Fund	Akzo Nobel N.V.			Equity	1,094	11,000	0.017%
JNL/Mellon World Index Fund	Phoenix Group Holdings PLC			Equity	5,569	41,744	0.009%
JNL/Mellon World Index Fund	Intermediate Capital Group PLC			Equity	1,990	59,159	0.013%
JNL/Mellon World Index Fund	CGI Inc.			Equity	1,390	159,941	0.034%
JNL/Mellon World Index Fund	Heurg Dr Pepper Inc.			Equity	6,950	282,085	0.064%
JNL/Mellon World Index Fund	Amplison S.p.A.			Equity	869	24,960	0.005%
JNL/Mellon World Index Fund	Contact Energy Limited			Equity	5,170	26,799	0.006%
JNL/Mellon World Index Fund	Roche Holding AG			Equity	177	60,427	0.013%
JNL/Mellon World Index Fund	Castellum Aktiebolag			Equity	2,931	42,952	0.009%
JNL/Mellon World Index Fund	Aker ASA			Equity	160	8,308	0.002%
JNL/Mellon World Index Fund	Ardor AB			Equity	709	19,986	0.004%
JNL/Mellon World Index Fund	Fox Corporation			Equity	882	34,222	0.007%
JNL/Mellon World Index Fund	Lawerac Co., Ltd.			Equity	500	92,718	0.018%
JNL/Mellon World Index Fund	Fox Corporation			Equity	1,384	58,585	0.013%
JNL/Mellon World Index Fund	Steris Public Limited Company			Equity	641	155,468	0.033%
JNL/Mellon World Index Fund	Dow Inc.			Equity	4,603	251,462	0.054%
JNL/Mellon World Index Fund	Enbridge Energy, Inc.			Equity	900	100,396	0.022%
JNL/Mellon World Index Fund	Alcon AG			Equity	3,190	321,177	0.069%
JNL/Mellon World Index Fund	Nexi S.p.A.			Equity	3,534	24,061	0.005%
JNL/Mellon World Index Fund	Pinterest, Inc.			Equity	3,948	127,797	0.028%
JNL/Mellon World Index Fund	Zoom Video Communications, Inc.			Equity	1,637	114,164	0.025%
JNL/Mellon World Index Fund	Cronda International Public Limited Company			Equity	943	10,000	0.012%
JNL/Mellon World Index Fund	TC Energy Corporation			Equity	6,656	321,124	0.069%
JNL/Mellon World Index Fund	Uber Technologies, Inc.			Equity	13,280	998,125	0.215%
JNL/Mellon World Index Fund	FirstService Corporation			Equity	265	48,485	0.010%
JNL/Mellon World Index Fund	Avantor, Inc.			Equity	4,294	111,086	0.024%
JNL/Mellon World Index Fund	Quebecor Inc.			Equity	1,200	31,330	0.007%
JNL/Mellon World Index Fund	Carl Zeiss Meditec AG			Equity	227	18,000	0.004%
JNL/Mellon World Index Fund	Adventist Corporation			Equity	4,700	222,068	0.048%
JNL/Mellon World Index Fund	DuPont de Nemours, Inc.			Equity	2,805	249,054	0.054%
JNL/Mellon World Index Fund	Corteva, Inc.			Equity	4,517	265,554	0.057%
JNL/Mellon World Index Fund	Amcor Pty Ltd			Equity	9,186	104,077	0.022%
JNL/Mellon World Index Fund	CrowdStrike Holdings, Inc.			Equity	1,547	433,887	0.093%
JNL/Mellon World Index Fund	IFI International Inc.			Equity	522	71,708	0.015%
JNL/Mellon World Index Fund	Air Canada			Equity	1,346	16,312	0.004%
JNL/Mellon World Index Fund	DS Smith PLC			Equity	9,277	58,765	0.013%
JNL/Mellon World Index Fund	Howden Joinery Group PLC			Equity	4,080	49,652	0.011%
JNL/Mellon World Index Fund	Buzzi S.p.A.			Equity	410	16,224	0.004%
JNL/Mellon World Index Fund	Ackermans			Equity	151	32,103	0.007%
JNL/Mellon World Index Fund	Kesko Oyj			Equity	1,862	39,746	0.009%
JNL/Mellon World Index Fund	Schibsted ASA			Equity	849	27,406	0.006%
JNL/Mellon World Index Fund	IBIDEN Co., Ltd.			Equity	900	29,017	0.006%
JNL/Mellon World Index Fund	SCSK Corporation			Equity	900	18,783	0.004%
JNL/Mellon World Index Fund	Mineral Resources Limited			Equity	1,158	41,576	0.009%
JNL/Mellon World Index Fund	Swedish Orphan Biovitrum AB (Publ)			Equity	1,117	35,921	0.008%
JNL/Mellon World Index Fund	Seven Group Holdings Limited			Equity	894	26,619	0.006%
JNL/Mellon World Index Fund	DaSonn S.p.A.			Equity	158	18,487	0.004%
JNL/Mellon World Index Fund	Mercury NZ Limited			Equity	4,442	18,169	0.004%
JNL/Mellon World Index Fund	Talanx Aktiengesellschaft			Equity	358	30,181	0.007%
JNL/Mellon World Index Fund	B&M European Value Retail S.A.			Equity	5,760	32,038	0.007%
JNL/Mellon World Index Fund	ASM International N.V.			Equity	294	10,000	0.014%
JNL/Mellon World Index Fund	Japan Post Insurance Co., Ltd.			Equity	900	16,777	0.004%
JNL/Mellon World Index Fund	Banco BPM Societa Per Azioni			Equity	8,522	57,557	0.012%
JNL/Mellon World Index Fund	Kawasaki Kisen Kaisha, Inc.			Equity	3,000	47,587	0.010%
JNL/Mellon World Index Fund	Trelleborg AB			Equity	1,350	52,177	0.011%
JNL/Mellon World Index Fund	SCREEN Holdings Co., Ltd.			Equity	600	42,655	0.009%
JNL/Mellon World Index Fund	Rheinmetall Aktiengesellschaft			Equity	283	153,838	0.033%
JNL/Mellon World Index Fund	Ela Group			Equity	184	21,043	0.005%
JNL/Mellon World Index Fund	EYN AG			Equity	980	12,308	0.002%
JNL/Mellon World Index Fund	VIENNA INSURANCE GROUP AG Wiener Versicherung Gruppe			Equity	358	11,907	0.003%
JNL/Mellon World Index Fund	TIS Inc.			Equity	1,400	35,993	0.008%
JNL/Mellon World Index Fund	Telekom Austria Aktiengesellschaft			Equity	943	9,225	0.002%
JNL/Mellon World Index Fund	L3Harris Technologies, Inc.			Equity	1,236	294,054	0.063%
JNL/Mellon World Index Fund	Blackstone Inc.			Equity	4,770	730,430	0.157%
JNL/Mellon World Index Fund	D'Ieteren Group			Equity	138	29,233	0.006%
JNL/Mellon World Index Fund	Investment Ab Latour			Equity	930	29,045	0.006%
JNL/Mellon World Index Fund	Evolution AB (publ)			Equity	1,247	122,526	0.026%
JNL/Mellon World Index Fund	Prosus N.V.			Equity	9,319	408,670	0.088%
JNL/Mellon World Index Fund	Cloudflare, Inc.			Equity	2,009	162,508	0.035%
JNL/Mellon World Index Fund	Holmen Aktiebolag			Equity	298	12,895	0.003%
JNL/Mellon World Index Fund	Budweiser Brewing Company APAC Limited			Equity	12,600	16,714	0.004%
JNL/Mellon World Index Fund	TMX Group Limited			Equity	1,890	59,238	0.013%
JNL/Mellon World Index Fund	EQT AB			Equity	4,860	166,672	0.036%
JNL/Mellon World Index Fund	Kobe Bussan Co., Ltd.			Equity	800	24,934	0.005%
JNL/Mellon World Index Fund	Hera S.p.A.			Equity	5,335	21,262	0.005%
JNL/Mellon World Index Fund	Orion Oyj			Equity	205	11,262	0.002%
JNL/Mellon World Index Fund	M&G PLC			Equity	12,733	36,497	0.008%
JNL/Mellon World Index Fund	ESR Group Limited			Equity	18,400	29,195	0.006%
JNL/Mellon World Index Fund	Gen Digital Inc.			Equity	3,995	109,583	0.024%
JNL/Mellon World Index Fund	Healthpeak OP, LLC			Equity	4,512	103,189	0.022%
JNL/Mellon World Index Fund	Kesko Oyj			Equity	635	13,482	0.003%
JNL/Mellon World Index Fund	Aktiebolaget Volvo			Equity	1,444	38,539	0.008%
JNL/Mellon World Index Fund	EDP Renovateis, S.A.			Equity	1,698	29,674	0.006%
JNL/Mellon World Index Fund	Trust Financial Corporation			Equity	8,727	37,254	0.008%
JNL/Mellon World Index Fund	Equitable Holdings, Inc.			Equity	2,084	88,011	0.019%
JNL/Mellon World Index Fund	Datadog, Inc.			Equity	1,941	223,331	0.048%
JNL/Mellon World Index Fund	Swire Pacific Limited			Equity	22,500	30,662	0.007%
JNL/Mellon World Index Fund	Ingersoll Rand Inc.			Equity	2,612	256,294	0.056%
JNL/Mellon World Index Fund	Trane Technologies Public Limited Company			Equity	1,504	584,650	0.126%
JNL/Mellon World Index Fund	GFL Environmental Inc.			Equity	1,447	57,722	0.012%
JNL/Mellon World Index Fund	AON Public Limited Company			Equity	1,408	487,154	0.105%
JNL/Mellon World Index Fund	Howmet Aerospace Inc.			Equity	2,061	286,765	0.057%
JNL/Mellon World Index Fund	FinecoBank Banca Fimco S.p.A.			Equity	4,104	70,460	0.015%
JNL/Mellon World Index Fund	Carrier Global Corporation			Equity	5,568	448,168	0.097%
JNL/Mellon World Index Fund	RTX Corporation			Equity	8,802	1,066,450	0.230%
JNL/Mellon World Index Fund	Otis Worldwide Corporation			Equity	2,769	287,810	0.062%
JNL/Mellon World Index Fund	Slanec Inc.			Equity	613	49,391	0.011%
JNL/Mellon World Index Fund	HAL Trust			Equity	312	41,199	0.009%
JNL/Mellon World Index Fund	Sofina			Equity	97	27,459	0.006%
JNL/Mellon World Index Fund	Kongsborg Gruppen ASA			Equity	608	59,590	0.013%
JNL/Mellon World Index Fund	Teva Pharmaceutical Industries Ltd			Equity	7,566	136,073	0.029%
JNL/Mellon World Index Fund	Reece Limited			Equity	2,208	43,678	0.009%
JNL/Mellon World Index Fund	Aktiebolaget Industriavarden			Equity	678	25,064	0.005%
JNL/Mellon World Index Fund	argenx SE			Equity	387	209,053	0.045%
JNL/Mellon World Index Fund	BAWAG Group AG			Equity	470	36,467	0.008%
JNL/Mellon World Index Fund	Infrastruttura Wireless Italiane S.p.A. O, In Forma Abbreviata, Inwi S.p.A.			Equity	2,222	27,355	0.006%
JNL/Mellon World Index Fund	Vertiv Holdings Co			Equity	2,387	237,483	0.051%
JNL/Mellon World Index Fund	Ampol Limited			Equity	1,491	31,542	0.007%
JNL/Mellon World Index Fund	The Carlyle Group, Inc.			Equity	1,531	65,925	0.014%

Derivatives				
JNL/Mellon World Index Fund	Bought AUD / Sold USD	Derivative	149	0.000%
JNL/Mellon World Index Fund	Bought CAD / Sold USD	Derivative	684	0.000%
JNL/Mellon World Index Fund	Bought EUR / Sold USD	Derivative	2,322	0.001%
JNL/Mellon World Index Fund	Bought JPY / Sold USD	Derivative	(5,484)	0.001%
JNL/Mellon World Index Fund	Bought USD / Sold GBP	Derivative	(656)	0.000%
JNL/Mellon World Index Fund	S&P 500 Index FUTURE - CASH SETTLED	Derivative	9	0.011%
JNL/Mellon World Index Fund	SAPTX 3X 60 Index FUTURE - CASH SETTLED	Derivative	1	0.000%
JNL/Mellon World Index Fund	Topix Index FUTURE - CASH SETTLED	Derivative	2	0.002%
JNL/Mellon World Index Fund	Euro STOXX 50 Price Index FUTURE - CASH SETTLED	Derivative	8	0.002%
JNL/Mellon World Index Fund	S&P500 - 200 Index FUTURE - CASH SETTLED	Derivative	1	0.000%
JNL/Mellon World Index Fund	FTSE 100 Index FUTURE - CASH SETTLED	Derivative	3	-0.001%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLJMS Mid Cap Value Fund	Cash			Cash Equivalent	919.360	919.360	0.045%
JNLJMS Mid Cap Value Fund	Mid-America Apartment Communities, Inc.			Equity	91.104	14,476.426	0.713%
JNLJMS Mid Cap Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	23,506.884	23,584.987	1.162%
JNLJMS Mid Cap Value Fund	Chesapeake Energy Corporation			Equity	169.782	13,964.570	0.688%
JNLJMS Mid Cap Value Fund	Marvell Technology, Inc.			Equity	109.090	7,867.571	0.388%
JNLJMS Mid Cap Value Fund	Organo & Co.			Equity	332.794	8,366.349	0.314%
JNLJMS Mid Cap Value Fund	TPG Inc.			Equity	298.949	17,207.504	0.848%
JNLJMS Mid Cap Value Fund	Jacobs Solutions Inc.			Equity	88.663	11,605.987	0.572%
JNLJMS Mid Cap Value Fund	Permian Resources Corporation			Equity	1,005.503	13,684.896	0.674%
JNLJMS Mid Cap Value Fund	Cardinale Financial, Inc.			Equity	510.570	14,888.231	0.734%
JNLJMS Mid Cap Value Fund	GE HealthCare Technologies Inc.			Equity	85.030	7,980.066	0.393%
JNLJMS Mid Cap Value Fund	SLM Corporation			Equity	700.349	16,016.982	0.789%
JNLJMS Mid Cap Value Fund	Valero Energy Corporation			Equity	96.188	13,258.326	0.653%
JNLJMS Mid Cap Value Fund	Avery Dennison Corporation			Equity	60.054	8,937.321	0.436%
JNLJMS Mid Cap Value Fund	Pinnacle West Capital Corporation			Equity	165.055	14,622.222	0.721%
JNLJMS Mid Cap Value Fund	The AES Corporation			Equity	638.542	12,809.153	0.631%
JNLJMS Mid Cap Value Fund	Alaska Air Group, Inc.			Equity	137.227	6,204.033	0.306%
JNLJMS Mid Cap Value Fund	Jones Lang LaSalle Incorporated			Equity	51.040	13,771.102	0.679%
JNLJMS Mid Cap Value Fund	Quanta Services, Inc.			Equity	50.733	15,126.044	0.746%
JNLJMS Mid Cap Value Fund	American International Group, Inc.			Equity	220.777	16,167.500	0.797%
JNLJMS Mid Cap Value Fund	Brunswick Corporation			Equity	181.176	15,186.172	0.748%
JNLJMS Mid Cap Value Fund	Sempra			Equity	175.356	14,773.743	0.728%
JNLJMS Mid Cap Value Fund	Hanover Insurance Group Inc. The			Equity	86.242	12,773.303	0.630%
JNLJMS Mid Cap Value Fund	AGCO Corporation			Equity	117.490	11,497.571	0.567%
JNLJMS Mid Cap Value Fund	Crown Holdings, Inc.			Equity	131.465	12,604.864	0.621%
JNLJMS Mid Cap Value Fund	MAT Bank Corporation			Equity	127.931	22,787.031	1.129%
JNLJMS Mid Cap Value Fund	Eastman Chemical Company			Equity	192.392	21,696.366	1.069%
JNLJMS Mid Cap Value Fund	Halliburton Company			Equity	265.216	7,704.525	0.380%
JNLJMS Mid Cap Value Fund	Columbia Banking System, Inc.			Equity	339.317	8,859.567	0.437%
JNLJMS Mid Cap Value Fund	Biogen Inc.			Equity	50.680	9,823.811	0.484%
JNLJMS Mid Cap Value Fund	CMS Energy Corporation			Equity	261.402	18,462.823	0.910%
JNLJMS Mid Cap Value Fund	Assurant, Inc.			Equity	95.266	18,944.597	0.934%
JNLJMS Mid Cap Value Fund	Flex Ltd.			Equity	611.365	20,437.932	1.007%
JNLJMS Mid Cap Value Fund	The Estee Lauder Companies Inc.			Equity	61.044	6,065.476	0.300%
JNLJMS Mid Cap Value Fund	Garden Restaurants, Inc.			Equity	186.429	11,691.268	0.576%
JNLJMS Mid Cap Value Fund	Amros Energy Corporation			Equity	80.777	11,204.578	0.552%
JNLJMS Mid Cap Value Fund	International Flavors & Fragrances Inc.			Equity	135.100	14,230.083	0.701%
JNLJMS Mid Cap Value Fund	Check Point Software Technologies Ltd			Equity	62.536	12,057.566	0.594%
JNLJMS Mid Cap Value Fund	General Mills, Inc.			Equity	121.016	9,597.491	0.469%
JNLJMS Mid Cap Value Fund	CenterPoint Energy, Inc.			Equity	407.328	11,983.590	0.591%
JNLJMS Mid Cap Value Fund	Prosperity Bancshares, Inc.			Equity	127.532	9,263.678	0.457%
JNLJMS Mid Cap Value Fund	Skechers U.S.A., Inc.			Equity	233.044	15,595.304	0.769%
JNLJMS Mid Cap Value Fund	Humana Inc.			Equity	33.636	10,683.526	0.527%
JNLJMS Mid Cap Value Fund	The Hershey Company			Equity	50.422	9,669.931	0.477%
JNLJMS Mid Cap Value Fund	Electronic Arts Inc.			Equity	99.325	14,247.178	0.702%
JNLJMS Mid Cap Value Fund	Revvity, Inc.			Equity	79.374	10,140.029	0.500%
JNLJMS Mid Cap Value Fund	J.B. Hunt Transport Services, Inc.			Equity	58.647	10,106.638	0.498%
JNLJMS Mid Cap Value Fund	International Paper Company			Equity	212.258	10,368.803	0.511%
JNLJMS Mid Cap Value Fund	Corning Incorporated			Equity	379.962	17,155.284	0.846%
JNLJMS Mid Cap Value Fund	Ross Stores, Inc.			Equity	92.173	13,872.958	0.684%
JNLJMS Mid Cap Value Fund	Global Payments Inc.			Equity	170.069	17,419.467	0.869%
JNLJMS Mid Cap Value Fund	Raymond James Financial, Inc.			Equity	168.905	20,684.106	1.019%
JNLJMS Mid Cap Value Fund	On Semiconductor Corporation			Equity	177.870	12,915.141	0.637%
JNLJMS Mid Cap Value Fund	Public Service Enterprise Group Incorporated			Equity	247.039	22,038.349	1.086%
JNLJMS Mid Cap Value Fund	Zimmer Biomet Holdings, Inc.			Equity	86.584	9,367.523	0.462%
JNLJMS Mid Cap Value Fund	Adient Technologies, Inc.			Equity	127.901	18,991.534	0.936%
JNLJMS Mid Cap Value Fund	Hartford Financial Services Group, Inc. , The			Equity	242.741	28,680.589	1.414%
JNLJMS Mid Cap Value Fund	Mohawk Industries, Inc.			Equity	65.950	10,596.846	0.522%
JNLJMS Mid Cap Value Fund	PACCAR Inc.			Equity	108.091	10,666.420	0.526%
JNLJMS Mid Cap Value Fund	Fidelity National Information Services, Inc.			Equity	186.439	15,614.268	0.770%
JNLJMS Mid Cap Value Fund	B.J's Wholesale Club Holdings, Inc.			Equity	153.707	12,677.753	0.625%
JNLJMS Mid Cap Value Fund	Norfolk Southern Corporation			Equity	51.985	12,918.273	0.637%
JNLJMS Mid Cap Value Fund	Mattel, Inc.			Equity	549.797	17,043.633	0.840%
JNLJMS Mid Cap Value Fund	East West Bancorp. Inc.			Equity	173.610	14,394.491	0.708%
JNLJMS Mid Cap Value Fund	PG&E Corporation			Equity	1,383.155	27,358.806	1.348%
JNLJMS Mid Cap Value Fund	Everest Group, Ltd.			Equity	29.909	11,719.243	0.578%
JNLJMS Mid Cap Value Fund	Newell Brands Inc.			Equity	678.503	6,746.903	0.333%
JNLJMS Mid Cap Value Fund	Northern Trust Corporation			Equity	182.105	12,411.266	0.616%
JNLJMS Mid Cap Value Fund	Lincoln National Corporation			Equity	321.135	10,118.964	0.499%
JNLJMS Mid Cap Value Fund	Regal Rexnord Corporation			Equity	95.453	15,867.152	0.782%
JNLJMS Mid Cap Value Fund	LKQ Corporation			Equity	472.054	18,844.396	0.929%
JNLJMS Mid Cap Value Fund	Toll Brothers, Inc.			Equity	150.274	14,303.279	0.708%
JNLJMS Mid Cap Value Fund	Zebra Technologies Corporation			Equity	40.746	15,089.059	0.744%
JNLJMS Mid Cap Value Fund	Skyworks Solutions, Inc.			Equity	89.862	8,875.670	0.437%
JNLJMS Mid Cap Value Fund	Westinghouse Air Brake Technologies Corporation			Equity	115.334	20,964.261	1.033%
JNLJMS Mid Cap Value Fund	Cencora, Inc.			Equity	103.066	23,189.085	1.142%
JNLJMS Mid Cap Value Fund	Universal Health Services, Inc.			Equity	81.326	18,624.467	0.918%
JNLJMS Mid Cap Value Fund	Edison International			Equity	139.615	12,159.070	0.599%
JNLJMS Mid Cap Value Fund	Teleflex Incorporated			Equity	36.901	9,126.355	0.450%
JNLJMS Mid Cap Value Fund	Alliant Energy Corporation			Equity	279.546	16,965.647	0.836%
JNLJMS Mid Cap Value Fund	United States Steel Corporation			Equity	332.322	11,740.038	0.579%
JNLJMS Mid Cap Value Fund	Sysco Corporation			Equity	150.670	11,761.300	0.580%
JNLJMS Mid Cap Value Fund	Regions Financial Corporation			Equity	678.574	16,003.218	0.789%
JNLJMS Mid Cap Value Fund	Delta Air Lines, Inc.			Equity	287.893	14,622.085	0.721%
JNLJMS Mid Cap Value Fund	Discover Financial Services			Equity	91.728	12,868.123	0.634%
JNLJMS Mid Cap Value Fund	Evercore Inc.			Equity	78.226	19,817.775	0.977%
JNLJMS Mid Cap Value Fund	Avis Budget Group, Inc.			Equity	51.554	4,515.615	0.223%
JNLJMS Mid Cap Value Fund	Builders FirstSource, Inc.			Equity	17,927	13,943.768	0.687%
JNLJMS Mid Cap Value Fund	KBR, Inc.			Equity	262.908	17,165.072	0.846%
JNLJMS Mid Cap Value Fund	CBCE Global Markets, Inc.			Equity	45.018	9,222.838	0.455%
JNLJMS Mid Cap Value Fund	NXP Semiconductors N.V.			Equity	58.296	14,060.143	0.693%
JNLJMS Mid Cap Value Fund	Stanley Black & Decker, Inc.			Equity	147.243	16,215.872	0.799%
JNLJMS Mid Cap Value Fund	Motorola Solutions, Inc.			Equity	22.035	9,429.036	0.469%
JNLJMS Mid Cap Value Fund	Ingredion Incorporated			Equity	127.996	17,590.490	0.867%
JNLJMS Mid Cap Value Fund	XPO, Inc.			Equity	87.837	9,443.356	0.465%
JNLJMS Mid Cap Value Fund	Targa Resources Corp.			Equity	129.333	19,142.577	0.943%
JNLJMS Mid Cap Value Fund	Graphic Packaging Holding Company			Equity	724.737	21,518.488	1.081%
JNLJMS Mid Cap Value Fund	PVH Corp.			Equity	122.627	12,364.480	0.609%
JNLJMS Mid Cap Value Fund	Apliv PLC			Equity	166.303	11,975.479	0.590%
JNLJMS Mid Cap Value Fund	Hyatt Hotels Corporation			Equity	84.057	12,793.475	0.631%
JNLJMS Mid Cap Value Fund	Berry Global Group, Inc.			Equity	199.073	13,632.983	0.676%
JNLJMS Mid Cap Value Fund	Diamondback Energy, Inc.			Equity	104.670	18,045.108	0.889%
JNLJMS Mid Cap Value Fund	CDW Corp.			Equity	51.102	11,564.383	0.570%
JNLJMS Mid Cap Value Fund	Willis Towers Watson Public Limited Company			Equity	67.047	19,806.354	0.976%
JNLJMS Mid Cap Value Fund	US Foods Holding Corp.			Equity	296.103	18,333.335	0.904%
JNLJMS Mid Cap Value Fund	Plains GP Holdings, L.P.			Equity	634.974	11,747.018	0.579%
JNLJMS Mid Cap Value Fund	Coca-Cola Europacific Partners PLC			Equity	188.273	14,826.499	0.731%
JNLJMS Mid Cap Value Fund	Icon Public Limited Company			Equity	42.736	12,278.480	0.605%
JNLJMS Mid Cap Value Fund	Lamb Weston Holdings, Inc.			Equity	116.123	7,517.803	0.371%
JNLJMS Mid Cap Value Fund	TechComp PLC			Equity	330.925	8,680.163	0.428%
JNLJMS Mid Cap Value Fund	Knight-Swift Transportation Holdings Inc.			Equity	157.181	8,479.915	0.418%
JNLJMS Mid Cap Value Fund	Pentair Public Limited Company			Equity	160.243	15,670.163	0.772%
JNLJMS Mid Cap Value Fund	Aramark			Equity	371.352	14,382.463	0.709%
JNLJMS Mid Cap Value Fund	Senesta Technologies Holding PLC			Equity	237.104	8,502.549	0.419%
JNLJMS Mid Cap Value Fund	Leidos Holdings, Inc.			Equity	129.738	21,147.294	1.042%
JNLJMS Mid Cap Value Fund	Alliegon Public Limited Company			Equity	100.869	14,700.648	0.725%
JNLJMS Mid Cap Value Fund	Voya Financial, Inc.			Equity	197.039	15,509.430	0.769%
JNLJMS Mid Cap Value Fund	ITT Inc.			Equity	91.699	13,709.917	0.678%
JNLJMS Mid Cap Value Fund	International Game Technology PLC			Equity	463.319	9,868.695	0.486%
JNLJMS Mid Cap Value Fund	TransUnion			Equity	147.453	15,438.329	0.761%
JNLJMS Mid Cap Value Fund	Johnson Controls International Public Limited Company			Equity	203.658	15,981.251	0.783%
JNLJMS Mid Cap Value Fund	Anshand Inc.			Equity	177.915	17,513.268	0.732%
JNLJMS Mid Cap Value Fund	W.P. Carey Inc.			Equity	232.551	14,691.409	0.724%
JNLJMS Mid Cap Value Fund	Brimor Property Group Inc.			Equity	575.739	16,040.089	0.791%
JNLJMS Mid Cap Value Fund	Sun Communities, Inc.			Equity	111.161	15,127.900	0.746%
JNLJMS Mid Cap Value Fund	STAC Industrial, Inc.			Equity	261.281	9,853.566	0.486%
JNLJMS Mid Cap Value Fund	Essex Property Trust, Inc.			Equity	49.818	14,839.288	0.731%
JNLJMS Mid Cap Value Fund	Extra Space Storage Inc.			Equity	122.999	22,163.190	1.092%
JNLJMS Mid Cap Value Fund	Ventris, Inc.			Equity	168.006	10,774.225	0.531%
JNLJMS Mid Cap Value Fund	VICI Properties Inc.			Equity	534.626	18,039.618	0.889%
JNLJMS Mid Cap Value Fund	Stiers Public Limited Company			Equity	54.298	13,169.437	0.649%
JNLJMS Mid Cap Value Fund	Dow Inc.			Equity	158.795	8,674.971	0.428%
JNLJMS Mid Cap Value Fund	DuPont de Nemours, Inc.			Equity	220.131	19,615.873	0.967%
JNLJMS Mid Cap Value Fund	Corveia, Inc.			Equity	316.379	18,599.921	0.917%
JNLJMS Mid Cap Value Fund	LSHarris Technologies, Inc.			Equity	70.424	16,751.737	0.829%
JNLJMS Mid Cap Value Fund	Equitable Holdings, Inc.			Equity	318.693	13,394.667	0.660%
JNLJMS Mid Cap Value Fund	GFL Environmental Inc.			Equity	320.338	12,775.079	0.630%
JNLJMS Mid Cap Value Fund	Howmet Aerospace Inc.			Equity	180.406	18,085.702	0.891%
JNLJMS Mid Cap Value Fund	Clis Worldwide Corporation			Equity	121.012	12,017.778	0.602%
JNLJMS Mid Cap Value Fund	Albertsons Companies, Inc.			Equity	535.807	9,901.713	0.488%
JNLJMS Mid Cap Value Fund	Dun & Bradstreet Holdings, Inc.			Equity	850.525	9,789.543	0.482%
JNLJMS Mid Cap Value Fund	Kenvue Inc.			Equity	710.346	16,430.903	0.810%
JNLJMS Mid Cap Value Fund	Viking Holdings Ltd			Equity	239.633	8,360.785	0.412%
JNLJMS Mid Cap Value Fund	Labcorp Holdings Inc.			Equity	49.738	11,115.448	0.548%
JNLJMS Mid Cap Value Fund	Amazon Holdco Inc.			Equity	88.663	2,859.382	0.141%
JNLJMS Mid Cap Value Fund	Te Connectivity Public Limited Company			Equity	89.878	13,570.679	0.669%
Total Non Derivatives						2,028,952,753	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% of Total Investments
	Derivatives						
	Total Derivatives					0	
	Total All Investments					2,028,952,753	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non-Derivatives							
JNL Mid Cap Index Fund	Cash			Cash Equivalent	2,076,742	2,076,742	0.059%
JNL Mid Cap Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	21,690,825	21,790,259	0.615%
JNL Mid Cap Index Fund	Sotera Health LLC			Equity	185,465	3,097,266	0.087%
JNL Mid Cap Index Fund	Chord Energy Corporation			Equity	75,032	9,771,417	0.276%
JNL Mid Cap Index Fund	Celastus Holdings, Inc.			Equity	190,889	5,986,278	0.169%
JNL Mid Cap Index Fund	Concentrix Corporation			Equity	55,704	2,854,830	0.081%
JNL Mid Cap Index Fund	NOV Inc.			Equity	472,382	7,543,941	0.213%
JNL Mid Cap Index Fund	Texas Pacific Land Corporation			Equity	22,702	20,085,367	0.567%
JNL Mid Cap Index Fund	Chesapeake Energy Corporation			Equity	134,513	11,063,694	0.312%
JNL Mid Cap Index Fund	Travel + Leisure Co.			Equity	83,070	3,507,866	0.108%
JNL Mid Cap Index Fund	Allegro Microsystems Inc.			Equity	187,348	4,365,208	0.123%
JNL Mid Cap Index Fund	Warner Music Group Corp.			Equity	174,413	5,459,127	0.154%
JNL Mid Cap Index Fund	Frontier Communications Parent, Inc.			Equity	267,994	9,521,827	0.269%
JNL Mid Cap Index Fund	Valaris Limited			Equity	79,335	4,422,926	0.125%
JNL Mid Cap Index Fund	Doximity, Inc.			Equity	153,103	6,670,698	0.188%
JNL Mid Cap Index Fund	DT Midstream, Inc.			Equity	117,297	9,314,723	0.263%
JNL Mid Cap Index Fund	Ryan Specialty Group Holdings, Inc.			Equity	124,945	8,295,099	0.234%
JNL Mid Cap Index Fund	Doolingo, Inc.			Equity	45,225	12,754,355	0.360%
JNL Mid Cap Index Fund	GXO Logistics Inc.			Equity	142,481	7,418,986	0.209%
JNL Mid Cap Index Fund	Roivant Sciences Ltd.			Equity	526,943	6,080,922	0.172%
JNL Mid Cap Index Fund	Cadence Bank			Equity	220,223	7,070,644	0.199%
JNL Mid Cap Index Fund	Civitas Resources, Inc.			Equity	109,971	5,572,231	0.157%
JNL Mid Cap Index Fund	Kyndryl Holdings, Inc.			Equity	276,848	6,361,967	0.179%
JNL Mid Cap Index Fund	FirstCash, Inc.			Equity	47,148	5,412,590	0.153%
JNL Mid Cap Index Fund	Coe & Main, Inc.			Equity	233,125	10,350,750	0.292%
JNL Mid Cap Index Fund	Bellring Intermediate Holdings, Inc.			Equity	156,535	9,504,807	0.268%
JNL Mid Cap Index Fund	HF Sinclair Corporation			Equity	196,107	8,740,489	0.247%
JNL Mid Cap Index Fund	Enovis Corporation			Equity	66,728	2,872,640	0.081%
JNL Mid Cap Index Fund	ESAB Corporation			Equity	68,620	7,300,614	0.206%
JNL Mid Cap Index Fund	Aspen Technology, Inc.			Equity	29,225	7,896,975	0.217%
JNL Mid Cap Index Fund	Crane Nat. Co.			Equity	59,695	3,348,880	0.094%
JNL Mid Cap Index Fund	R1 RCM Holdco Inc.			Equity	188,652	2,673,199	0.075%
JNL Mid Cap Index Fund	Healthcare Realty Trust Incorporated			Equity	438,972	7,967,342	0.225%
JNL Mid Cap Index Fund	Permian Resources Corporation			Equity	764,567	10,405,757	0.294%
JNL Mid Cap Index Fund	Coherent Corp.			Equity	185,603	9,607,831	0.468%
JNL Mid Cap Index Fund	Annaly Capital Management, Inc.			Equity	606,272	12,561,956	0.354%
JNL Mid Cap Index Fund	YETI Holdings, Inc.			Equity	101,835	4,178,290	0.118%
JNL Mid Cap Index Fund	F.N.B. Corporation			Equity	426,694	6,020,652	0.170%
JNL Mid Cap Index Fund	Boyd Gaming Corporation			Equity	89,463	5,410,823	0.153%
JNL Mid Cap Index Fund	SLM Corporation			Equity	262,095	5,994,113	0.169%
JNL Mid Cap Index Fund	Inspirety, Inc.			Equity	43,306	3,810,928	0.108%
JNL Mid Cap Index Fund	Amedisys, Inc.			Equity	40,127	3,872,857	0.109%
JNL Mid Cap Index Fund	Azelea, Inc.			Equity	58,993	2,857,521	0.081%
JNL Mid Cap Index Fund	Choice Hotels International, Inc.			Equity	27,341	3,562,532	0.100%
JNL Mid Cap Index Fund	Power Integrations, Inc.			Equity	69,207	4,437,553	0.125%
JNL Mid Cap Index Fund	Autoliv, Inc.			Equity	88,913	8,301,807	0.234%
JNL Mid Cap Index Fund	Abercrombie & Fitch Co.			Equity	61,051	8,541,026	0.241%
JNL Mid Cap Index Fund	Affiliated Managers Group, Inc.			Equity	36,169	6,430,848	0.181%
JNL Mid Cap Index Fund	Associated Banc-Corp			Equity	179,512	3,866,688	0.109%
JNL Mid Cap Index Fund	Arnet, Inc.			Equity	106,317	5,774,076	0.163%
JNL Mid Cap Index Fund	Jones Lang LaSalle Incorporated			Equity	57,481	5,608,947	0.158%
JNL Mid Cap Index Fund	Black Hills Corporation			Equity	82,919	5,068,009	0.143%
JNL Mid Cap Index Fund	Arrow Electronics, Inc.			Equity	63,833	8,478,937	0.239%
JNL Mid Cap Index Fund	American Financial Group, Inc.			Equity	87,184	11,734,966	0.331%
JNL Mid Cap Index Fund	Brunswick Corporation			Equity	80,227	6,724,627	0.190%
JNL Mid Cap Index Fund	TD SYNNEX Corporation			Equity	92,127	11,982,630	0.312%
JNL Mid Cap Index Fund	MasTec, Inc.			Equity	74,698	9,195,324	0.259%
JNL Mid Cap Index Fund	Applied Industrial Technologies, Inc.			Equity	46,444	10,363,050	0.292%
JNL Mid Cap Index Fund	Comfort Systems USA, Inc.			Equity	43,127	16,834,624	0.475%
JNL Mid Cap Index Fund	Bio-Rad Laboratories, Inc.			Equity	23,003	7,698,344	0.217%
JNL Mid Cap Index Fund	AptarGroup, Inc.			Equity	80,132	12,836,345	0.362%
JNL Mid Cap Index Fund	Maximus, Inc.			Equity	72,568	6,760,435	0.191%
JNL Mid Cap Index Fund	Boston Beer Company, Inc., The			Equity	10,672	3,085,702	0.087%
JNL Mid Cap Index Fund	Hanover Insurance Group Inc. The			Equity	42,812	4,940,385	0.139%
JNL Mid Cap Index Fund	AGCO Corporation			Equity	75,641	7,402,228	0.209%
JNL Mid Cap Index Fund	H & R Block, Inc.			Equity	168,920	10,800,030	0.305%
JNL Mid Cap Index Fund	Manhattan Associates, Inc.			Equity	74,278	20,900,344	0.590%
JNL Mid Cap Index Fund	GATX Corporation			Equity	42,471	5,525,284	0.156%
JNL Mid Cap Index Fund	International Bancshares Corporation			Equity	63,596	3,802,405	0.107%
JNL Mid Cap Index Fund	Crown Holdings, Inc.			Equity	144,237	13,829,444	0.390%
JNL Mid Cap Index Fund	Cirrus Logic, Inc.			Equity	64,776	8,045,827	0.227%
JNL Mid Cap Index Fund	Casi International Inc.			Equity	27,030	13,638,257	0.385%
JNL Mid Cap Index Fund	Columbia Banking System, Inc.			Equity	257,486	6,722,959	0.190%
JNL Mid Cap Index Fund	Commercial Metals Company			Equity	138,846	7,630,976	0.215%
JNL Mid Cap Index Fund	BioMarin Pharmaceutical Inc.			Equity	230,371	16,192,778	0.457%
JNL Mid Cap Index Fund	First Horizon Corporation			Equity	649,631	10,889,534	0.297%
JNL Mid Cap Index Fund	First Financial Bankshares, Inc.			Equity	154,692	5,753,859	0.162%
JNL Mid Cap Index Fund	Cullen/Frost Bankers, Inc.			Equity	77,346	8,651,924	0.244%
JNL Mid Cap Index Fund	Ankor Technology, Inc.			Equity	136,818	4,186,631	0.118%
JNL Mid Cap Index Fund	Columbia Sportswear Company			Equity	38,891	8,325,342	0.231%
JNL Mid Cap Index Fund	The Goodyear Tire & Rubber Company			Equity	358,963	3,176,823	0.090%
JNL Mid Cap Index Fund	Hexcel Corporation			Equity	99,175	6,131,990	0.173%
JNL Mid Cap Index Fund	Universal Display Corporation			Equity	53,236	11,174,236	0.315%
JNL Mid Cap Index Fund	Lennox International Inc.			Equity	38,639	23,514,684	0.663%
JNL Mid Cap Index Fund	Clean Harbors, Inc.			Equity	61,001	14,744,552	0.418%
JNL Mid Cap Index Fund	Exponent, Inc.			Equity	60,954	7,026,777	0.198%
JNL Mid Cap Index Fund	Tempur Sealy International, Inc.			Equity	210,349	11,485,055	0.324%
JNL Mid Cap Index Fund	Ceconomy's General Stores, Inc.			Equity	44,924	16,878,396	0.476%
JNL Mid Cap Index Fund	FTI Consulting, Inc.			Equity	42,074	8,943,775	0.249%
JNL Mid Cap Index Fund	Federated Hermes, Inc.			Equity	95,017	3,937,775	0.099%
JNL Mid Cap Index Fund	Prosperity Bancshares, Inc.			Equity	114,779	8,337,858	0.235%
JNL Mid Cap Index Fund	Cognex Corporation			Equity	207,083	8,386,862	0.237%
JNL Mid Cap Index Fund	AAON, Inc.			Equity	81,515	8,790,578	0.248%
JNL Mid Cap Index Fund	Graco Inc.			Equity	204,593	17,903,933	0.505%
JNL Mid Cap Index Fund	Curtiss-Wright Corporation			Equity	46,387	15,256,684	0.430%
JNL Mid Cap Index Fund	Blackbaud, Inc.			Equity	48,099	4,073,023	0.115%
JNL Mid Cap Index Fund	Starchem U.S.A., Inc.			Equity	159,626	15,682,172	0.431%
JNL Mid Cap Index Fund	Commerce Bancshares, Inc.			Equity	142,093	8,440,324	0.238%
JNL Mid Cap Index Fund	Harley-Davidson, Inc.			Equity	142,292	5,482,511	0.155%
JNL Mid Cap Index Fund	Eagle Materials Inc.			Equity	40,758	11,734,603	0.331%
JNL Mid Cap Index Fund	Genlex Corporation			Equity	278,044	8,205,128	0.233%
JNL Mid Cap Index Fund	Donaldson Company, Inc.			Equity	145,199	10,701,166	0.302%
JNL Mid Cap Index Fund	WESCO International, Inc.			Equity	53,595	9,002,888	0.254%
JNL Mid Cap Index Fund	Unum Group			Equity	207,042	12,306,576	0.347%
JNL Mid Cap Index Fund	IDACORP, Inc.			Equity	63,938	6,891,368	0.190%
JNL Mid Cap Index Fund	Chemered Corporation			Equity	18,175	10,922,630	0.308%
JNL Mid Cap Index Fund	Haemonetics Corporation			Equity	62,511	5,024,634	0.142%
JNL Mid Cap Index Fund	Wintrust Financial Corporation			Equity	79,175	8,592,863	0.242%
JNL Mid Cap Index Fund	Euronet Worldwide, Inc.			Equity	51,178	5,078,393	0.143%
JNL Mid Cap Index Fund	Coca-Cola Consolidated, Inc.			Equity	7,117	9,968,819	0.284%
JNL Mid Cap Index Fund	Greif, Inc.			Equity	32,716	2,067,651	0.058%
JNL Mid Cap Index Fund	MKS Instruments, Inc.			Equity	81,318	8,840,080	0.249%
JNL Mid Cap Index Fund	Hancock Whitney Corporation			Equity	106,250	5,436,813	0.153%
JNL Mid Cap Index Fund	Flowserve Corporation			Equity	159,023	8,253,284	0.233%
JNL Mid Cap Index Fund	United Therapeutics Corporation			Equity	53,867	19,303,239	0.545%
JNL Mid Cap Index Fund	Carlisle Companies Incorporated			Equity	55,519	24,969,670	0.704%
JNL Mid Cap Index Fund	Gap, Inc., The			Equity	269,997	5,953,434	0.168%
JNL Mid Cap Index Fund	Darling Ingredients Inc.			Equity	180,418	7,075,933	0.200%
JNL Mid Cap Index Fund	Glacier Bancorp, Inc.			Equity	136,404	6,233,663	0.176%
JNL Mid Cap Index Fund	Cabot Corporation			Equity	66,406	7,422,199	0.209%
JNL Mid Cap Index Fund	Churchill Downs Incorporated			Equity	88,590	11,976,902	0.338%
JNL Mid Cap Index Fund	Macy's, Inc.			Equity	326,543	5,152,377	0.146%
JNL Mid Cap Index Fund	RPM International Inc.			Equity	155,897	18,863,537	0.532%
JNL Mid Cap Index Fund	Range Resources Corporation			Equity	292,847	9,007,974	0.254%
JNL Mid Cap Index Fund	Neurocrine Biosciences, Inc.			Equity	121,867	14,041,516	0.396%
JNL Mid Cap Index Fund	Trex Company, Inc.			Equity	130,329	8,017,305	0.235%
JNL Mid Cap Index Fund	AutoNation, Inc.			Equity	31,697	5,671,227	0.160%
JNL Mid Cap Index Fund	Litellfuse, Inc.			Equity	29,949	7,943,972	0.224%
JNL Mid Cap Index Fund	Orion Corporation			Equity	142,280	6,826,594	0.193%
JNL Mid Cap Index Fund	RLI Corp.			Equity	49,456	7,664,693	0.216%
JNL Mid Cap Index Fund	Brinker Corporation			Equity	133,747	9,236,568	0.261%
JNL Mid Cap Index Fund	Brink's Company, The			Equity	53,545	6,191,944	0.175%
JNL Mid Cap Index Fund	Lithia Motors, Inc.			Equity	32,371	10,282,324	0.290%
JNL Mid Cap Index Fund	Rambus Inc.			Equity	129,222	5,855,753	0.164%
JNL Mid Cap Index Fund	Reliance, Inc.			Equity	66,401	19,203,833	0.542%
JNL Mid Cap Index Fund	Royal Gold, Inc.			Equity	79,060	11,092,118	0.313%
JNL Mid Cap Index Fund	Silicon Laboratories Inc.			Equity	39,129	4,522,139	0.128%
JNL Mid Cap Index Fund	TXNM Energy, Inc.			Equity	111,325	4,872,695	0.137%
JNL Mid Cap Index Fund	Landstar System, Inc.			Equity	42,862	8,096,346	0.228%
JNL Mid Cap Index Fund	OGE Energy Corp.			Equity	242,186	9,934,470	0.280%
JNL Mid Cap Index Fund	Lancaster Colony Corporation			Equity	23,348	4,122,556	0.116%
JNL Mid Cap Index Fund	ManpowerGroup Inc.			Equity	57,701	4,242,178	0.120%
JNL Mid Cap Index Fund	Oakliff Corporation			Equity	78,690	7,885,526	0.222%
JNL Mid Cap Index Fund	Exelvio, Inc.			Equity	345,123	8,955,942	0.253%
JNL Mid Cap Index Fund	Pinnacle Financial Partners, Inc.			Equity	92,249	9,037,635	0.255%
JNL Mid Cap Index Fund	EMCOR Group, Inc.			Equity	56,146	24,172,537	0.682%
JNL Mid Cap Index Fund	New Jersey Resources Corporation			Equity	121,430	5,786,140	0.163%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Mid Cap Index Fund	MGIC Investment Corporation			Equity	314,531	8,051,994	0.227%
JNL Mid Cap Index Fund	The New York Times Company			Equity	195,968	10,945,968	0.306%
JNL Mid Cap Index Fund	Flowers Foods, Inc.			Equity	233,417	5,384,930	0.152%
JNL Mid Cap Index Fund	CNO Financial Group, Inc.			Equity	127,327	4,469,178	0.126%
JNL Mid Cap Index Fund	Fluor Corporation			Equity	206,761	9,864,567	0.278%
JNL Mid Cap Index Fund	Murphy Oil Corporation			Equity	171,375	5,782,193	0.163%
JNL Mid Cap Index Fund	B.J's Wholesale Club Holdings, Inc.			Equity	160,349	13,225,588	0.373%
JNL Mid Cap Index Fund	Lattice Semiconductor Corporation			Equity	167,693	8,899,468	0.251%
JNL Mid Cap Index Fund	National Fuel Gas Company			Equity	112,373	6,868,800	0.194%
JNL Mid Cap Index Fund	Ryder System, Inc.			Equity	52,412	7,641,670	0.216%
JNL Mid Cap Index Fund	Nordstrom, Inc.			Equity	121,744	2,739,147	0.077%
JNL Mid Cap Index Fund	Illumina, Inc.			Equity	192,976	25,166,000	0.710%
JNL Mid Cap Index Fund	Neogen Corporation			Equity	233,736	3,929,102	0.111%
JNL Mid Cap Index Fund	Reinsurance Group of America, Incorporated			Equity	79,901	17,408,031	0.491%
JNL Mid Cap Index Fund	Polaris Inc.			Equity	63,307	5,277,166	0.149%
JNL Mid Cap Index Fund	RenaissanceRe Holdings Ltd			Equity	63,267	17,233,931	0.486%
JNL Mid Cap Index Fund	Mattel, Inc.			Equity	410,262	7,815,491	0.220%
JNL Mid Cap Index Fund	MDU Resources Group, Inc.			Equity	248,519	6,844,213	0.193%
JNL Mid Cap Index Fund	MSC Industrial Direct Co., Inc.			Equity	53,903	4,638,802	0.131%
JNL Mid Cap Index Fund	East West Bancorp. Inc.			Equity	168,191	13,916,123	0.393%
JNL Mid Cap Index Fund	Old National Bancorp			Equity	386,454	7,211,232	0.203%
JNL Mid Cap Index Fund	Louisiana-Pacific Corporation (W VA)			Equity	75,848	8,150,626	0.230%
JNL Mid Cap Index Fund	PGP Phonex Corporation			Equity	32,727	2,432,271	0.069%
JNL Mid Cap Index Fund	KB Home			Equity	87,100	7,463,599	0.211%
JNL Mid Cap Index Fund	Repligen Corporation			Equity	62,587	9,314,197	0.263%
JNL Mid Cap Index Fund	Regal Reznard Corporation			Equity	80,587	13,395,977	0.378%
JNL Mid Cap Index Fund	Selective Insurance Group, Inc.			Equity	73,354	6,843,028	0.190%
JNL Mid Cap Index Fund	Middleby Corporation, The			Equity	65,034	9,048,180	0.255%
JNL Mid Cap Index Fund	Old Republic International Corporation			Equity	290,188	10,278,459	0.290%
JNL Mid Cap Index Fund	Lincoln Electric Holdings, Inc.			Equity	68,613	13,223,783	0.373%
JNL Mid Cap Index Fund	Kirby Corporation			Equity	68,764	8,541,207	0.241%
JNL Mid Cap Index Fund	Scotts Miracle-Gro Company, The			Equity	51,369	4,352,565	0.120%
JNL Mid Cap Index Fund	Sitel Financial Corp.			Equity	124,346	11,676,089	0.329%
JNL Mid Cap Index Fund	Tetra Tech, Inc.			Equity	324,177	15,288,187	0.431%
JNL Mid Cap Index Fund	Vail Resorts, Inc.			Equity	45,644	7,955,293	0.224%
JNL Mid Cap Index Fund	Toll Brothers, Inc.			Equity	124,425	19,294,574	0.542%
JNL Mid Cap Index Fund	Valley National Bancorp			Equity	517,193	4,742,660	0.134%
JNL Mid Cap Index Fund	United Bankshares, Inc.			Equity	162,589	6,094,084	0.172%
JNL Mid Cap Index Fund	Sonoco Products Company			Equity	118,104	6,652,022	0.182%
JNL Mid Cap Index Fund	Valmont Industries, Inc.			Equity	23,917	9,998,477	0.279%
JNL Mid Cap Index Fund	Synaptics Incorporated			Equity	47,996	3,723,530	0.105%
JNL Mid Cap Index Fund	Toro Company, The			Equity	125,711	10,948,171	0.309%
JNL Mid Cap Index Fund	Southwest Gas Holdings, Inc.			Equity	71,501	5,273,914	0.149%
JNL Mid Cap Index Fund	UMB Financial Corporation			Equity	53,454	6,639,928	0.186%
JNL Mid Cap Index Fund	Nexstar Media Group, Inc.			Equity	36,633	6,057,267	0.171%
JNL Mid Cap Index Fund	Light & Wonder, Inc.			Equity	107,556	9,758,556	0.275%
JNL Mid Cap Index Fund	Watts Water Technologies, Inc.			Equity	33,038	6,845,143	0.193%
JNL Mid Cap Index Fund	Zions Bancorporation, National Association			Equity	176,640	8,340,841	0.235%
JNL Mid Cap Index Fund	Silgan Holdings Inc.			Equity	99,089	5,202,173	0.147%
JNL Mid Cap Index Fund	Simpson Manufacturing Co., Inc.			Equity	50,913	9,738,130	0.275%
JNL Mid Cap Index Fund	Southwestern Energy Company			Equity	1,333,874	9,483,844	0.268%
JNL Mid Cap Index Fund	Acuity Brands, Inc.			Equity	37,380	9,034,078	0.250%
JNL Mid Cap Index Fund	Penske Automotive Group, Inc.			Equity	22,585	3,668,256	0.103%
JNL Mid Cap Index Fund	Sava, Inc.			Equity	32,230	14,092,890	0.398%
JNL Mid Cap Index Fund	Watco, Inc.			Equity	42,036	20,676,668	0.583%
JNL Mid Cap Index Fund	Stericycle, Inc.			Equity	110,723	6,754,103	0.190%
JNL Mid Cap Index Fund	Woodward, Inc.			Equity	72,338	12,405,680	0.350%
JNL Mid Cap Index Fund	The Timken Company			Equity	77,098	6,498,590	0.183%
JNL Mid Cap Index Fund	Williams-Sonoma, Inc.			Equity	155,837	24,142,268	0.681%
JNL Mid Cap Index Fund	Webster Financial Corporation			Equity	206,888	9,643,050	0.272%
JNL Mid Cap Index Fund	USCI Corporation			Equity	269,680	6,594,474	0.186%
JNL Mid Cap Index Fund	Dick's Sporting Goods, Inc.			Equity	70,199	14,729,481	0.416%
JNL Mid Cap Index Fund	Texas Capital Bancshares, Inc.			Equity	55,383	3,957,669	0.112%
JNL Mid Cap Index Fund	Halcyone Therapeutics, Inc.			Equity	153,337	8,717,010	0.248%
JNL Mid Cap Index Fund	Thor Industries, Inc.			Equity	63,668	6,998,477	0.197%
JNL Mid Cap Index Fund	Whirlpool Corporation			Equity	65,973	7,059,111	0.199%
JNL Mid Cap Index Fund	United States Steel Corporation			Equity	268,853	9,498,576	0.268%
JNL Mid Cap Index Fund	Carter's, Inc.			Equity	43,359	2,817,468	0.079%
JNL Mid Cap Index Fund	Service Corporation International			Equity	175,916	13,885,050	0.392%
JNL Mid Cap Index Fund	Visay InterTechnology, Inc.			Equity	136,072	2,573,122	0.073%
JNL Mid Cap Index Fund	SEI Investments Company			Equity	119,611	8,275,885	0.233%
JNL Mid Cap Index Fund	Terex Corporation			Equity	81,582	4,316,504	0.122%
JNL Mid Cap Index Fund	Dolby Laboratories, Inc.			Equity	72,715	5,644,878	0.157%
JNL Mid Cap Index Fund	Westlake Corporation			Equity	38,766	5,976,432	0.169%
JNL Mid Cap Index Fund	Texas Roadhouse, Inc.			Equity	80,832	14,274,931	0.403%
JNL Mid Cap Index Fund	EnerSys			Equity	48,603	4,959,936	0.140%
JNL Mid Cap Index Fund	NewMarket Corporation			Equity	9,138	5,064,446	0.142%
JNL Mid Cap Index Fund	ALLETE, Inc.			Equity	68,179	4,376,410	0.123%
JNL Mid Cap Index Fund	NorthWestern Corporation			Equity	75,210	4,303,516	0.121%
JNL Mid Cap Index Fund	Ormat Technologies, Inc.			Equity	63,268	4,867,840	0.137%
JNL Mid Cap Index Fund	Ciena Corporation			Equity	174,004	10,716,906	0.302%
JNL Mid Cap Index Fund	CommVault Systems, Inc.			Equity	52,075	8,011,739	0.226%
JNL Mid Cap Index Fund	Belden Inc.			Equity	48,722	5,709,333	0.161%
JNL Mid Cap Index Fund	Western Alliance Bancorporation			Equity	131,407	11,365,391	0.321%
JNL Mid Cap Index Fund	Morningstar, Inc.			Equity	32,028	10,220,775	0.288%
JNL Mid Cap Index Fund	Under Armour, Inc.			Equity	189,545	1,777,946	0.050%
JNL Mid Cap Index Fund	RBC Bearings Incorporated			Equity	35,197	10,537,278	0.297%
JNL Mid Cap Index Fund	Masimo Corporation			Equity	53,502	7,133,422	0.201%
JNL Mid Cap Index Fund	AECOM			Equity	162,328	16,763,613	0.473%
JNL Mid Cap Index Fund	Owens Corning			Equity	105,355	18,597,441	0.525%
JNL Mid Cap Index Fund	ExService Holdings, Inc.			Equity	194,555	7,422,273	0.209%
JNL Mid Cap Index Fund	The Western Union Company			Equity	403,275	4,811,071	0.136%
JNL Mid Cap Index Fund	Evercore Inc.			Equity	42,920	10,873,353	0.307%
JNL Mid Cap Index Fund	Home BancShares, Inc.			Equity	226,427	6,133,907	0.173%
JNL Mid Cap Index Fund	Crocs, Inc.			Equity	71,963	10,420,962	0.294%
JNL Mid Cap Index Fund	Chart Industries, Inc.			Equity	51,153	6,350,133	0.179%
JNL Mid Cap Index Fund	GameStop Corp.			Equity	469,574	10,767,332	0.304%
JNL Mid Cap Index Fund	Tenetdata Corporation			Equity	112,533	12,114,251	0.340%
JNL Mid Cap Index Fund	Interactive Brokers Group, Inc.			Equity	132,318	18,439,836	0.520%
JNL Mid Cap Index Fund	Avis Budget Group, Inc.			Equity	19,685	1,724,209	0.049%
JNL Mid Cap Index Fund	Genpact Limited			Equity	198,626	7,788,125	0.220%
JNL Mid Cap Index Fund	The Ensign Group, Inc.			Equity	67,296	9,678,511	0.272%
JNL Mid Cap Index Fund	Portland General Electric Company			Equity	122,899	5,948,312	0.168%
JNL Mid Cap Index Fund	KBR, Inc.			Equity	161,053	10,514,104	0.297%
JNL Mid Cap Index Fund	Fabrinet			Equity	43,651	10,320,842	0.291%
JNL Mid Cap Index Fund	Idium Communications Inc.			Equity	143,323	4,364,185	0.123%
JNL Mid Cap Index Fund	Post Holdings, Inc.			Equity	56,900	6,586,175	0.186%
JNL Mid Cap Index Fund	Jazz Pharmaceuticals Public Limited Company			Equity	74,508	8,300,936	0.234%
JNL Mid Cap Index Fund	Matador Resources Company			Equity	143,152	7,074,572	0.200%
JNL Mid Cap Index Fund	Primoris, Inc.			Equity	40,958	10,860,014	0.306%
JNL Mid Cap Index Fund	First American Financial Corporation			Equity	125,202	9,084,584	0.253%
JNL Mid Cap Index Fund	Acadia Healthcare Company, Inc.			Equity	112,382	7,126,143	0.201%
JNL Mid Cap Index Fund	Ingredion Incorporated			Equity	78,823	10,832,645	0.306%
JNL Mid Cap Index Fund	XPO, Inc.			Equity	140,963	15,154,932	0.428%
JNL Mid Cap Index Fund	Graphic Packaging Holding Company			Equity	362,816	10,715,518	0.304%
JNL Mid Cap Index Fund	The Wendy's Company			Equity	200,487	3,512,532	0.099%
JNL Mid Cap Index Fund	PVH Corp.			Equity	67,164	6,772,146	0.191%
JNL Mid Cap Index Fund	Vision Corporation			Equity	34,092	3,246,922	0.092%
JNL Mid Cap Index Fund	Ally Financial Inc.			Equity	330,979	11,779,453	0.332%
JNL Mid Cap Index Fund	Grand Canyon Education, Inc.			Equity	34,817	4,938,791	0.139%
JNL Mid Cap Index Fund	Pilgrim's Pride Corporation			Equity	46,800	2,155,140	0.061%
JNL Mid Cap Index Fund	Hyatt Hotels Corporation			Equity	54,249	8,256,698	0.233%
JNL Mid Cap Index Fund	Leas Corporation			Equity	67,004	7,114,487	0.200%
JNL Mid Cap Index Fund	MACOM Technology Solutions Holdings, Inc.			Equity	69,856	7,772,179	0.219%
JNL Mid Cap Index Fund	Globus Medical, Inc.			Equity	135,885	9,721,213	0.274%
JNL Mid Cap Index Fund	Fortune Brands Innovations, Inc.			Equity	150,507	13,474,892	0.380%
JNL Mid Cap Index Fund	RFI Energy Inc.			Equity	120,517	7,130,001	0.200%
JNL Mid Cap Index Fund	Zurich American Corporation			Equity	71,834	4,399,833	0.124%
JNL Mid Cap Index Fund	Marriott Vacations Worldwide Corporation			Equity	37,942	2,818,768	0.080%
JNL Mid Cap Index Fund	Berry Global Group, Inc.			Equity	138,494	9,414,822	0.266%
JNL Mid Cap Index Fund	Kinsale Capital Group, Inc.			Equity	26,807	12,480,535	0.352%
JNL Mid Cap Index Fund	Valvoline, Inc.			Equity	155,610	8,512,278	0.240%
JNL Mid Cap Index Fund	Qualys, Inc.			Equity	44,108	5,666,114	0.160%
JNL Mid Cap Index Fund	Cytokinetics, Incorporated			Equity	143,629	7,583,611	0.214%
JNL Mid Cap Index Fund	US Foods Holding Corp.			Equity	295,742	18,188,133	0.513%
JNL Mid Cap Index Fund	Novera Inc.			Equity	43,851	7,845,921	0.221%
JNL Mid Cap Index Fund	Taylor Morrison Home II Corporation			Equity	125,983	8,851,566	0.250%
JNL Mid Cap Index Fund	Under Armour, Inc.			Equity	156,463	1,308,031	0.037%
JNL Mid Cap Index Fund	Murphy USA Inc.			Equity	22,568	11,123,090	0.314%
JNL Mid Cap Index Fund	Tenet Healthcare Corporation			Equity	116,065	19,290,003	0.544%
JNL Mid Cap Index Fund	e.l.f. Beauty, Inc.			Equity	68,292	7,445,877	0.210%
JNL Mid Cap Index Fund	Sprouts Farmers Market, Inc.			Equity	121,270	13,389,421	0.378%
JNL Mid Cap Index Fund	Medpace Holdings, Inc.			Equity	30,730	10,257,674	0.289%
JNL Mid Cap Index Fund	Five Below, Inc.			Equity	66,787	5,900,631	0.166%
JNL Mid Cap Index Fund	American Airlines Group Inc.			Equity	793,740	8,921,638	0.252%
JNL Mid Cap Index Fund	Sarepta Therapeutics, Inc.			Equity	114,678	14,322,135	0.404%
JNL Mid Cap Index Fund	Wex, Inc.			Equity	49,880	10,461,332	0.295%
JNL Mid Cap Index Fund	Coty Inc.			Equity	436,530	4,099,017	0.116%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Mid Cap Index Fund	Fidelity National Financial, Inc.			Equity	315,057	19,552,437	0.552%
JNL Mid Cap Index Fund	Prior & Desor Holdings, Inc.			Equity	129,847	16,133,103	0.455%
JNL Mid Cap Index Fund	Essent Group Ltd.			Equity	128,786	8,279,652	0.234%
JNL Mid Cap Index Fund	Science Applications International Corporation			Equity	61,307	8,538,226	0.241%
JNL Mid Cap Index Fund	CNX Resources Corporation			Equity	182,048	5,929,303	0.167%
JNL Mid Cap Index Fund	Southstate Corporation			Equity	91,970	8,937,645	0.252%
JNL Mid Cap Index Fund	Knight-Swift Transportation Holdings Inc.			Equity	195,759	10,563,356	0.298%
JNL Mid Cap Index Fund	Cleveland-Cliffs Inc.			Equity	564,409	7,207,503	0.203%
JNL Mid Cap Index Fund	One Gas, Inc.			Equity	70,035	5,212,005	0.147%
JNL Mid Cap Index Fund	Avamar			Equity	317,088	12,280,818	0.349%
JNL Mid Cap Index Fund	Sennata Technologies Holding PLC			Equity	184,287	6,698,532	0.189%
JNL Mid Cap Index Fund	Brighthouse Financial, Inc.			Equity	72,369	3,258,776	0.092%
JNL Mid Cap Index Fund	Burlington Stores, Inc.			Equity	76,488	20,153,058	0.569%
JNL Mid Cap Index Fund	HealthEquity, Inc.			Equity	105,212	8,611,602	0.243%
JNL Mid Cap Index Fund	Dropbox, Inc.			Equity	288,101	7,526,408	0.207%
JNL Mid Cap Index Fund	Paylocity Holding Corporation			Equity	52,036	8,584,379	0.242%
JNL Mid Cap Index Fund	Hamilton Lane Incorporated			Equity	48,202	8,116,735	0.229%
JNL Mid Cap Index Fund	Mine Safety Appliances Company, LLC			Equity	47,357	8,398,290	0.237%
JNL Mid Cap Index Fund	Graham Holdings Co., Ltd.			Equity	4,117	3,383,301	0.095%
JNL Mid Cap Index Fund	ASGN Incorporated			Equity	54,287	5,061,177	0.143%
JNL Mid Cap Index Fund	Synovus Financial Corp.			Equity	175,567	7,876,593	0.222%
JNL Mid Cap Index Fund	Antero Resources Corporation			Equity	353,900	10,139,235	0.286%
JNL Mid Cap Index Fund	Voys Financial, Inc.			Equity	119,172	9,440,806	0.266%
JNL Mid Cap Index Fund	Nvent Electric Public Limited Company			Equity	201,360	14,147,554	0.399%
JNL Mid Cap Index Fund	ITT Inc.			Equity	99,081	14,813,600	0.418%
JNL Mid Cap Index Fund	Wyndham Hotels & Resorts, Inc.			Equity	95,690	7,477,217	0.211%
JNL Mid Cap Index Fund	CBN Industrial N.V.			Equity	1,052,490	11,682,539	0.330%
JNL Mid Cap Index Fund	Jefferies Financial Group Inc.			Equity	196,849	12,116,056	0.342%
JNL Mid Cap Index Fund	Pemco Company Public Limited Company			Equity	166,772	4,374,430	0.123%
JNL Mid Cap Index Fund	Weatherford International Public Limited Company			Equity	90,041	7,646,282	0.216%
JNL Mid Cap Index Fund	Janus Henderson Group PLC			Equity	154,187	5,889,899	0.166%
JNL Mid Cap Index Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	74,823	7,272,672	0.205%
JNL Mid Cap Index Fund	AppFolio, Inc.			Equity	27,858	6,557,773	0.185%
JNL Mid Cap Index Fund	EastGroup Properties, Inc.			Equity	59,338	11,168,598	0.315%
JNL Mid Cap Index Fund	Penumbra, Inc.			Equity	46,730	9,080,106	0.256%
JNL Mid Cap Index Fund	Planet Fitness, Inc.			Equity	126,428	4,178,108	0.118%
JNL Mid Cap Index Fund	Arrowhead Pharmaceuticals Inc			Equity	145,298	2,814,422	0.079%
JNL Mid Cap Index Fund	Lantheus Holdings, Inc.			Equity	84,100	9,229,975	0.260%
JNL Mid Cap Index Fund	Encompass Health Corporation			Equity	121,454	11,137,315	0.311%
JNL Mid Cap Index Fund	PotlatchDeltic Corporation			Equity	87,089	9,623,648	0.271%
JNL Mid Cap Index Fund	Pure Storage, Inc.			Equity	371,818	18,680,136	0.527%
JNL Mid Cap Index Fund	LiveNova PLC			Equity	64,601	3,394,137	0.096%
JNL Mid Cap Index Fund	Axalta Coating Systems Ltd.			Equity	264,808	9,583,402	0.270%
JNL Mid Cap Index Fund	Spirio Inc.			Equity	71,621	7,471,621	0.210%
JNL Mid Cap Index Fund	Performance Food Group Company			Equity	188,886	14,802,996	0.418%
JNL Mid Cap Index Fund	Dentistry Sirona Inc.			Equity	247,390	6,733,956	0.190%
JNL Mid Cap Index Fund	The ChemoCentryx Company			Equity	186,216	3,783,909	0.107%
JNL Mid Cap Index Fund	Hilton Grand Vacations Inc.			Equity	77,486	2,814,262	0.078%
JNL Mid Cap Index Fund	Advanced Drainage Systems, Inc.			Equity	85,340	13,412,034	0.378%
JNL Mid Cap Index Fund	Alcoa Corporation			Equity	312,013	12,037,462	0.340%
JNL Mid Cap Index Fund	Wingstop Inc.			Equity	35,516	14,777,497	0.417%
JNL Mid Cap Index Fund	Topbuild Corp.			Equity	36,336	14,781,848	0.417%
JNL Mid Cap Index Fund	Houlihan Lokey, Inc.			Equity	64,093	10,127,976	0.286%
JNL Mid Cap Index Fund	Ashland Inc.			Equity	58,985	5,129,925	0.145%
JNL Mid Cap Index Fund	RH			Equity	18,100	6,053,183	0.171%
JNL Mid Cap Index Fund	Lumentum Holdings Inc.			Equity	83,017	5,281,617	0.148%
JNL Mid Cap Index Fund	Capri Holdings Limited			Equity	141,258	5,994,980	0.169%
JNL Mid Cap Index Fund	American Homes 4 Rent			Equity	379,983	14,587,547	0.412%
JNL Mid Cap Index Fund	BWXT Government Group, Inc.			Equity	110,437	12,004,502	0.339%
JNL Mid Cap Index Fund	Sabra Health Care REIT, Inc.			Equity	282,577	5,258,758	0.148%
JNL Mid Cap Index Fund	COPT Defense Properties			Equity	136,428	4,178,108	0.118%
JNL Mid Cap Index Fund	Gaming and Leisure Properties, Inc.			Equity	329,925	16,974,641	0.479%
JNL Mid Cap Index Fund	Agree Realty Corporation			Equity	120,758	9,127,478	0.257%
JNL Mid Cap Index Fund	W.P. Carey Inc.			Equity	265,095	16,147,377	0.472%
JNL Mid Cap Index Fund	Cubescmt, L.P.			Equity	272,555	5,994,980	0.169%
JNL Mid Cap Index Fund	Starwood Property Trust, Inc.			Equity	381,225	7,952,354	0.224%
JNL Mid Cap Index Fund	NNN REIT, Inc.			Equity	221,461	10,738,644	0.303%
JNL Mid Cap Index Fund	Kirby Realty Corporation			Equity	127,393	5,001,362	0.141%
JNL Mid Cap Index Fund	Equity Lifestyle Properties, Inc.			Equity	224,944	16,154,032	0.450%
JNL Mid Cap Index Fund	Brixmor Property Group Inc.			Equity	363,874	10,137,530	0.286%
JNL Mid Cap Index Fund	STAG Industrial, Inc.			Equity	219,621	8,612,625	0.243%
JNL Mid Cap Index Fund	Vornado Realty Trust			Equity	202,285	7,970,029	0.225%
JNL Mid Cap Index Fund	Redford Industrial Realty, Inc.			Equity	263,806	12,383,683	0.378%
JNL Mid Cap Index Fund	Rayonier Inc.			Equity	161,770	5,205,759	0.147%
JNL Mid Cap Index Fund	Omega Healthcare Investors, Inc.			Equity	311,634	12,683,504	0.368%
JNL Mid Cap Index Fund	Independence Realty Trust, Inc.			Equity	276,587	5,714,287	0.161%
JNL Mid Cap Index Fund	First Industrial Realty Trust, Inc.			Equity	159,432	9,983,993	0.253%
JNL Mid Cap Index Fund	EPR Properties			Equity	88,285	4,354,658	0.123%
JNL Mid Cap Index Fund	Park Hotels & Resorts Inc.			Equity	245,005	3,515,822	0.099%
JNL Mid Cap Index Fund	Lamar Advertising Company			Equity	106,408	14,216,109	0.401%
JNL Mid Cap Index Fund	National Storage Affiliates Trust			Equity	86,688	4,178,362	0.118%
JNL Mid Cap Index Fund	Kite Realty Group, LLC			Equity	265,008	7,038,612	0.199%
JNL Mid Cap Index Fund	Altair Engineering Inc.			Equity	72,376	6,912,632	0.195%
JNL Mid Cap Index Fund	Antero Midstream Corporation			Equity	405,224	6,098,621	0.172%
JNL Mid Cap Index Fund	Bank OZK			Equity	129,844	5,581,994	0.157%
JNL Mid Cap Index Fund	Avantor, Inc.			Equity	824,201	21,322,080	0.601%
JNL Mid Cap Index Fund	Cousins Properties Incorporated			Equity	187,189	5,518,332	0.156%
JNL Mid Cap Index Fund	Envista Holdings Corporation			Equity	207,226	4,094,786	0.116%
JNL Mid Cap Index Fund	Orto Innovation Inc.			Equity	56,381	12,325,120	0.348%
JNL Mid Cap Index Fund	Parsons Corporation			Equity	56,208	5,857,845	0.164%
JNL Mid Cap Index Fund	Equitable Holdings, Inc.			Equity	385,906	16,219,629	0.458%
JNL Mid Cap Index Fund	Ovintiv Canada ULC			Equity	318,219	12,190,970	0.344%
JNL Mid Cap Index Fund	Optum Care Health, Inc.			Equity	206,183	6,453,528	0.182%
JNL Mid Cap Index Fund	Essential Utilities, Inc.			Equity	305,684	11,790,232	0.333%
JNL Mid Cap Index Fund	UPF Industries, Inc.			Equity	73,791	9,682,117	0.273%
JNL Mid Cap Index Fund	The Carlyle Group, Inc.			Equity	254,930	10,977,286	0.310%
JNL Mid Cap Index Fund	Dynatrace, Inc.			Equity	360,853	19,294,810	0.544%
JNL Mid Cap Index Fund	ChampionX Corporation			Equity	229,253	6,911,978	0.195%
JNL Mid Cap Index Fund	ZoomInfo Technologies Inc.			Equity	336,819	3,475,972	0.098%
JNL Mid Cap Index Fund	Avient Corporation			Equity	111,964	5,662,859	0.160%
JNL Mid Cap Index Fund	Vorster Corporation			Equity	185,633	6,263,257	0.177%
JNL Mid Cap Index Fund	Crane Company			Equity	58,940	9,329,023	0.263%
JNL Mid Cap Index Fund	RB Global, Inc.			Equity	223,317	17,974,785	0.507%
JNL Mid Cap Index Fund	Knife River Corporation			Equity	67,641	6,046,384	0.171%
JNL Mid Cap Index Fund	TKO Group Holdings Inc.			Equity	80,229	9,925,130	0.280%
JNL Mid Cap Index Fund	NexteraNet LLC			Equity	173,584	6,505,928	0.184%
JNL Mid Cap Index Fund	Arcadium Lithium PLC			Equity	1,263,326	3,600,478	0.102%
JNL Mid Cap Index Fund	Viper Energy, Inc.			Equity	119,166	5,375,578	0.152%
JNL Mid Cap Index Fund	New York Community Bancorp, Inc.			Equity	360,706	4,050,728	0.114%
Total Non Derivatives							
Derivatives							
JNL Mid Cap Index Fund	S&P Midcap 400 Index FUTURE - CASH SETTLED			Derivative	80	603,594	0.017%
Total Derivatives						603,594	
Total All Investments						3,544,873,559	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Moderate Allocation Fund	JNL/WMC Equity Income Fund			Fund	2,596,410	51,772,409	2.510%
JNL Moderate Allocation Fund	JNL Multi-Manager U.S. Select Equity Fund			Fund	7,996,451	123,305,272	5.977%
JNL Moderate Allocation Fund	JNL/JPMorgan Hedged Equity Fund			Fund	1,235,241	20,702,639	1.004%
JNL Moderate Allocation Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	9,823,265	143,616,141	6.962%
JNL Moderate Allocation Fund	JNL/PIMCO Real Return Fund			Fund	2,523,429	30,811,064	1.494%
JNL Moderate Allocation Fund	JNL/Causeway International Value Select Fund			Fund	2,209,126	49,749,520	2.412%
JNL Moderate Allocation Fund	JNL/PIMCO Income Fund			Fund	8,379,223	101,723,762	4.931%
JNL Moderate Allocation Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	2,197,303	20,720,567	1.004%
JNL Moderate Allocation Fund	JNL Multi-Manager Small Cap Value Fund			Fund	1,862,121	41,264,598	2.000%
JNL Moderate Allocation Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	459,082	20,704,617	1.004%
JNL Moderate Allocation Fund	JNL Multi-Manager Mid Cap Fund			Fund	2,456,610	51,760,769	2.509%
JNL Moderate Allocation Fund	JNL/T. Rowe Price Established Growth Fund			Fund	391,258	35,866,631	1.739%
JNL Moderate Allocation Fund	JNL Multi-Manager Alternative Fund			Fund	8,098,507	104,065,814	5.045%
JNL Moderate Allocation Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	12,660,836	163,851,220	7.942%
JNL Moderate Allocation Fund	JNL/PPM America Total Return Fund			Fund	9,203,498	123,971,121	6.010%
JNL Moderate Allocation Fund	JNL/GQG Emerging Markets Equity Fund			Fund	2,798,768	45,955,777	2.228%
JNL Moderate Allocation Fund	JNL/JPMorgan U.S. Value Fund			Fund	2,676,845	51,796,956	2.511%
JNL Moderate Allocation Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	4,965,406	61,384,174	2.976%
JNL Moderate Allocation Fund	JNL/T. Rowe Price Value Fund			Fund	1,342,287	41,422,969	2.008%
JNL Moderate Allocation Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	4,524,126	56,325,363	2.730%
JNL Moderate Allocation Fund	JNL/Lord Abbett Short Duration Income Fund			Fund	6,258,477	66,777,950	3.237%
JNL Moderate Allocation Fund	JNL/WCM Focused International Equity Fund			Fund	3,267,097	53,057,052	2.572%
JNL Moderate Allocation Fund	JNL/T. Rowe Price Capital Appreciation Fund			Fund	5,067,250	144,771,347	7.018%
JNL Moderate Allocation Fund	JNL/PIMCO Investment Grade Credit Bond Fund			Fund	2,386,584	30,739,205	1.490%
JNL Moderate Allocation Fund	JNL/DoubleLine Total Return Fund			Fund	12,550,313	142,069,548	6.887%
JNL Moderate Allocation Fund	JNL/Morningstar Wide Moat Index Fund			Fund	5,739,635	63,095,140	3.028%
JNL Moderate Allocation Fund	JNL/Loomis Sayles Global Growth Fund			Fund	1,650,978	31,104,422	1.508%
JNL Moderate Allocation Fund	JNL Multi-Manager International Small Cap Fund			Fund	1,275,598	15,587,802	0.756%
JNL Moderate Allocation Fund	Jackson Credit Opportunities Fund			Fund	8,170,000	86,814,839	4.209%
JNL Moderate Allocation Fund	Jackson Real Assets Fund			Fund	3,496,535	37,527,773	1.810%
JNL Moderate Allocation Fund	JNL/PPM America Investment Grade Credit Fund			Fund	2,849,440	30,745,454	1.490%
Total Non Derivatives						2,062,843,415	
Derivatives							
Total Derivatives						0	
Total All Investments						2,062,843,415	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Moderate Growth Allocation Fund	JNL/WMC Equity Income Fund			Fund	5,249,632	104,677,667	2.770%
JNL Moderate Growth Allocation Fund	JNL/Newton Equity Income Fund			Fund	3,041,086	105,221,581	2.784%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager U.S. Select Equity Fund			Fund	17,016,295	262,391,268	6.942%
JNL Moderate Growth Allocation Fund	JNL/DoubleLine Core Fixed Income Fund			Fund	13,566,565	198,343,175	5.248%
JNL Moderate Growth Allocation Fund	JNL/PMCO Real Return Fund			Fund	1,544,761	18,861,529	0.499%
JNL Moderate Growth Allocation Fund	JNL/Causeway International Value Select Fund			Fund	7,821,092	176,130,993	4.660%
JNL Moderate Growth Allocation Fund	JNL/PMCO Income Fund			Fund	6,948,204	84,351,192	2.232%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager Emerging Markets Equity Fund			Fund	6,299,948	59,408,509	1.572%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager Small Cap Value Fund			Fund	3,420,331	75,794,527	2.059%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager Small Cap Growth Fund			Fund	1,482,553	66,863,129	1.759%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager Mid Cap Fund			Fund	6,321,871	133,201,816	3.524%
JNL Moderate Growth Allocation Fund	JNL/T. Rowe Price Established Growth Fund			Fund	1,345,897	123,378,400	3.264%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager Alternative Fund			Fund	14,818,446	190,417,037	5.038%
JNL Moderate Growth Allocation Fund	JNL/Harris Oakmark Global Equity Fund			Fund	2,643,211	38,685,148	1.018%
JNL Moderate Growth Allocation Fund	JNL/Fidelity Institutional Asset Management Total Bond Fund			Fund	15,603,618	201,910,819	5.342%
JNL Moderate Growth Allocation Fund	JNL/PPM America Total Return Fund			Fund	8,594,649	115,769,920	3.063%
JNL Moderate Growth Allocation Fund	JNL/QQG Emerging Markets Equity Fund			Fund	5,610,869	92,130,475	2.438%
JNL Moderate Growth Allocation Fund	JNL/JPMorgan U.S. Value Fund			Fund	5,411,095	104,704,690	2.770%
JNL Moderate Growth Allocation Fund	JNL/DoubleLine Shiller Enhanced CAPE Fund			Fund	1,441,613	38,101,844	1.008%
JNL Moderate Growth Allocation Fund	JNL/DoubleLine Emerging Markets Fixed Income Fund			Fund	7,598,572	93,918,351	2.485%
JNL Moderate Growth Allocation Fund	JNL/T. Rowe Price Value Fund			Fund	4,060,859	125,318,095	3.310%
JNL Moderate Growth Allocation Fund	JNL/T. Rowe Price U.S. High Yield Fund			Fund	4,499,929	56,034,111	1.482%
JNL Moderate Growth Allocation Fund	JNL/Lord Abbett Short Duration Income Fund			Fund	10,178,001	108,599,272	2.873%
JNL Moderate Growth Allocation Fund	JNL/WCM Focused International Equity Fund			Fund	11,346,697	184,270,354	4.875%
JNL Moderate Growth Allocation Fund	JNL/T. Rowe Price Capital Appreciation Fund			Fund	7,969,314	227,683,291	6.024%
JNL Moderate Growth Allocation Fund	JNL/PMCO Investment Grade Credit Bond Fund			Fund	1,463,177	18,845,715	0.499%
JNL Moderate Growth Allocation Fund	JNL/DoubleLine Total Return Fund			Fund	17,984,824	203,588,209	5.386%
JNL Moderate Growth Allocation Fund	JNL/Morningstar Wide Moat Index Fund			Fund	11,260,754	163,055,715	4.314%
JNL Moderate Growth Allocation Fund	JNL/Loomis Sayles Global Growth Fund			Fund	4,075,179	76,776,375	2.031%
JNL Moderate Growth Allocation Fund	JNL Multi-Manager International Small Cap Fund			Fund	5,155,540	63,000,698	1.667%
JNL Moderate Growth Allocation Fund	Jackson Credit Opportunities Fund			Fund	12,755,000	138,535,283	3.586%
JNL Moderate Growth Allocation Fund	JNL/Morningstar SMID Moat Focus Index Fund			Fund	3,563,971	38,526,521	1.019%
JNL Moderate Growth Allocation Fund	Jackson Real Assets Fund			Fund	7,052,117	75,477,698	1.997%
JNL Moderate Growth Allocation Fund	JNL/PPM America Investment Grade Credit Fund			Fund	1,746,920	18,849,262	0.499%
Total Non Derivatives						3,779,612,670	
Derivatives							
Total Derivatives						0	
Total All Investments						3,779,612,670	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLMorningstar PitchBook Listed Private Equity Index Fund	Cash			Cash Equivalent	512	512	0.002%
JNLMorningstar PitchBook Listed Private Equity Index Fund	JNL Government Money Market Fund			4.82 Cash Equivalent	551	700	0.004%
JNLMorningstar PitchBook Listed Private Equity Index Fund	GCM Grosvenor Inc.			Equity	8,032	90,922	0.562%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Patia Investments Ltd			Equity	11,049	123,417	0.763%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Molten Ventures PLC			Equity	38,634	209,496	1.295%
JNLMorningstar PitchBook Listed Private Equity Index Fund	BEENOS Inc.			Equity	2,800	52,107	0.322%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Mutares SE & Co. KGaA			Equity	3,465	81,248	0.502%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Chrysalis Investments Limited			Equity	1,401	1,752	0.011%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Puretech Health PLC			Equity	47,411	93,405	0.578%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Alaris Royalty Corp.			Equity	5,022	66,090	0.412%
JNLMorningstar PitchBook Listed Private Equity Index Fund	StepStone Group Inc.			Equity	7,050	400,652	2.477%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Caledonia Investments PLC			Fund	630	29,003	0.179%
JNLMorningstar PitchBook Listed Private Equity Index Fund	SI Infrastructure PLC			Fund	26,152	119,502	0.739%
JNLMorningstar PitchBook Listed Private Equity Index Fund	NB Private Equity Partners Limited			Fund	2,652	57,071	0.353%
JNLMorningstar PitchBook Listed Private Equity Index Fund	HBM Healthcare Investments AG			Fund	119	26,657	0.165%
JNLMorningstar PitchBook Listed Private Equity Index Fund	HqCapital Trust PLC			Fund	24,157	167,226	1.034%
JNLMorningstar PitchBook Listed Private Equity Index Fund	RIT Capital Partners PLC			Fund	3,883	95,379	0.590%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Cresides AB (publ)			Equity	7,851	64,356	0.398%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Blue Owl Capital Inc.			Equity	25,007	484,136	2.993%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Bridgepoint Group PLC			Equity	75,070	352,749	2.181%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Anin Infrastructure Partners			Equity	12,470	166,302	1.028%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Vinci Partners Investments Ltda			Equity	6,149	61,060	0.378%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Princess Private Equity Holding Limited			Fund	4,241	50,327	0.311%
JNLMorningstar PitchBook Listed Private Equity Index Fund	TPG Inc.			Equity	5,952	342,597	2.118%
JNLMorningstar PitchBook Listed Private Equity Index Fund	ICG Enterprise Trust PLC			Fund	3,562	57,180	0.354%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Syncona Limited			Fund	28,235	42,623	0.264%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Pantheon International PLC			Fund	16,318	72,216	0.447%
JNLMorningstar PitchBook Listed Private Equity Index Fund	DigitalBridge Group, Inc.			Equity	22,232	314,360	1.944%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Compass Diversified Holdings			Equity	13,728	303,801	1.878%
JNLMorningstar PitchBook Listed Private Equity Index Fund	MA Financial Group Limited			Equity	26,918	96,570	0.609%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Slagwell, Inc.			Equity	21,923	153,888	0.952%
JNLMorningstar PitchBook Listed Private Equity Index Fund	ONEX Corporation			Equity	6,093	426,774	2.639%
JNLMorningstar PitchBook Listed Private Equity Index Fund	T. Rowe Price Group, Inc.			Equity	3,129	340,842	2.107%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Ares Management Corporation			Equity	4,466	695,981	4.303%
JNLMorningstar PitchBook Listed Private Equity Index Fund	SBI Holdings, Inc.			Equity	17,300	403,415	2.494%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Eurazeo			Equity	4,310	354,556	2.192%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Wendel			Equity	3,082	315,284	1.949%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Partners Group Holding AG			Equity	632	949,417	5.870%
JNLMorningstar PitchBook Listed Private Equity Index Fund	3i Group PLC			Equity	16,626	736,670	4.555%
JNLMorningstar PitchBook Listed Private Equity Index Fund	KKR & Co. Inc.			Equity	12,611	1,646,744	10.182%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Hamilton Lane Incorporated			Equity	3,249	548,743	3.393%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Intermediate Capital Group PLC			Equity	20,020	595,160	3.680%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Ackermans			Equity	1,872	397,995	2.461%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Gimv			Equity	4,351	203,133	1.256%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Italmobiliare Societa' Per Azioni O in Forma Abbreviata Italmobiliare Spa			Equity	3,042	96,301	0.595%
JNLMorningstar PitchBook Listed Private Equity Index Fund	JAFCO Group Co., Ltd.			Equity	11,200	160,520	0.993%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Blackstone Inc.			Equity	10,412	1,594,390	9.858%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Investment Ab Labor			Equity	12,467	389,363	2.407%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Ratos AB			Equity	47,819	163,421	1.010%
JNLMorningstar PitchBook Listed Private Equity Index Fund	EQT AB			Equity	16,815	576,664	3.566%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Deutsche Beteiligungs AG			Equity	3,276	92,002	0.569%
JNLMorningstar PitchBook Listed Private Equity Index Fund	IP Group PLC			Equity	182,198	121,304	0.750%
JNLMorningstar PitchBook Listed Private Equity Index Fund	The Carlyle Group, Inc.			Equity	14,388	619,547	3.831%
JNLMorningstar PitchBook Listed Private Equity Index Fund	VNV Global AB (publ)			Equity	25,740	52,900	0.327%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Polar Capital Holdings PLC			Equity	11,143	79,846	0.494%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Integral Corporation			Equity	2,200	62,258	0.385%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Oakley Capital Investments Limited			Fund	9,155	62,782	0.388%
JNLMorningstar PitchBook Listed Private Equity Index Fund	Kinnevik AB			Equity	37,802	307,118	1.899%
Total Non Derivatives						16,173,046	
Derivatives						0	
Total All Investments						16,173,046	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLMorningstar SMID Moat Focus Index Fund	Cash			Cash Equivalent	89,310	89,310	0.067%
JNLMorningstar SMID Moat Focus Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	264,050	265,185	0.200%
JNLMorningstar SMID Moat Focus Index Fund	DoorDash, Inc.			Equity	13,059	1,863,911	1.408%
JNLMorningstar SMID Moat Focus Index Fund	Roblox Corporation			Equity	18,278	808,984	0.611%
JNLMorningstar SMID Moat Focus Index Fund	Warner Music Group Corp.			Equity	25,887	810,263	0.612%
JNLMorningstar SMID Moat Focus Index Fund	Bath & Body Works, Inc.			Equity	20,386	650,721	0.491%
JNLMorningstar SMID Moat Focus Index Fund	HF Sinclair Corporation			Equity	16,628	741,110	0.560%
JNLMorningstar SMID Moat Focus Index Fund	DK Crown Holdings Inc.			Equity	21,385	838,292	0.633%
JNLMorningstar SMID Moat Focus Index Fund	GE HealthCare Technologies Inc.			Equity	9,428	884,618	0.688%
JNLMorningstar SMID Moat Focus Index Fund	Elastic N.V.			Equity	11,042	847,584	0.649%
JNLMorningstar SMID Moat Focus Index Fund	Baxter International Inc.			Equity	20,931	800,577	0.605%
JNLMorningstar SMID Moat Focus Index Fund	Autodesk, Inc.			Equity	3,501	964,455	0.728%
JNLMorningstar SMID Moat Focus Index Fund	Jones Lang LaSalle Incorporated			Equity	3,858	1,040,927	0.786%
JNLMorningstar SMID Moat Focus Index Fund	Brunswick Corporation			Equity	21,555	1,906,740	1.384%
JNLMorningstar SMID Moat Focus Index Fund	BorgWarner Inc.			Equity	24,611	893,133	0.675%
JNLMorningstar SMID Moat Focus Index Fund	Hess Corporation			Equity	5,858	795,516	0.601%
JNLMorningstar SMID Moat Focus Index Fund	Eastman Chemical Company			Equity	16,107	1,817,248	1.372%
JNLMorningstar SMID Moat Focus Index Fund	Entergy Corporation			Equity	6,727	885,340	0.689%
JNLMorningstar SMID Moat Focus Index Fund	The Interpublic Group of Companies, Inc.			Equity	26,585	840,884	0.635%
JNLMorningstar SMID Moat Focus Index Fund	Hasbro, Inc.			Equity	25,768	1,863,542	1.407%
JNLMorningstar SMID Moat Focus Index Fund	Campbell Soup Company			Equity	16,711	817,502	0.617%
JNLMorningstar SMID Moat Focus Index Fund	International Flavors & Fragrances Inc.			Equity	16,096	1,692,358	1.278%
JNLMorningstar SMID Moat Focus Index Fund	Equifax Inc.			Equity	3,310	972,677	0.735%
JNLMorningstar SMID Moat Focus Index Fund	Sealed Air Corporation			Equity	46,702	1,695,283	1.280%
JNLMorningstar SMID Moat Focus Index Fund	Cognizant Technology Solutions Corporation			Equity	22,808	1,760,321	1.329%
JNLMorningstar SMID Moat Focus Index Fund	Genent Corporation			Equity	52,397	1,555,867	1.175%
JNLMorningstar SMID Moat Focus Index Fund	WESCO International, Inc.			Equity	10,002	1,680,136	1.269%
JNLMorningstar SMID Moat Focus Index Fund	Omnicon Group Inc.			Equity	17,334	1,805,326	1.363%
JNLMorningstar SMID Moat Focus Index Fund	Revvity, Inc.			Equity	13,831	1,766,910	1.334%
JNLMorningstar SMID Moat Focus Index Fund	PS, Inc.			Equity	4,686	1,027,453	0.778%
JNLMorningstar SMID Moat Focus Index Fund	Cometech Incorporated			Equity	16,306	989,031	0.747%
JNLMorningstar SMID Moat Focus Index Fund	Carnival Corporation			Equity	96,352	1,780,585	1.345%
JNLMorningstar SMID Moat Focus Index Fund	NSource Inc.			Equity	51,873	1,797,399	1.357%
JNLMorningstar SMID Moat Focus Index Fund	Masco Corporation			Equity	11,579	971,841	0.734%
JNLMorningstar SMID Moat Focus Index Fund	Autoliv, Inc.			Equity	9,176	924,185	0.710%
JNLMorningstar SMID Moat Focus Index Fund	Charles River Laboratories International, Inc.			Equity	3,736	735,880	0.556%
JNLMorningstar SMID Moat Focus Index Fund	Litellfuse, Inc.			Equity	6,653	1,764,708	1.333%
JNLMorningstar SMID Moat Focus Index Fund	Lithia Motors, Inc.			Equity	6,558	2,083,083	1.573%
JNLMorningstar SMID Moat Focus Index Fund	Boych Corporation			Equity	13,016	860,326	0.656%
JNLMorningstar SMID Moat Focus Index Fund	Global Payments Inc.			Equity	8,331	853,261	0.644%
JNLMorningstar SMID Moat Focus Index Fund	Raymond James Financial, Inc.			Equity	7,088	867,996	0.645%
JNLMorningstar SMID Moat Focus Index Fund	Zimmer Biomet Holdings, Inc.			Equity	7,819	845,938	0.639%
JNLMorningstar SMID Moat Focus Index Fund	Apient Technologies, Inc.			Equity	5,928	880,167	0.671%
JNLMorningstar SMID Moat Focus Index Fund	Rockwell Automation, Inc.			Equity	3,160	848,334	0.641%
JNLMorningstar SMID Moat Focus Index Fund	Mattel, Inc.			Equity	47,099	897,236	0.678%
JNLMorningstar SMID Moat Focus Index Fund	Microchip Technology Incorporated			Equity	10,613	852,118	0.644%
JNLMorningstar SMID Moat Focus Index Fund	MSC Industrial Direct Co., Inc.			Equity	9,691	934,007	0.690%
JNLMorningstar SMID Moat Focus Index Fund	Capital One Financial Corporation			Equity	12,173	1,822,663	1.377%
JNLMorningstar SMID Moat Focus Index Fund	Devon Energy Corporation			Equity	18,811	735,886	0.556%
JNLMorningstar SMID Moat Focus Index Fund	Trinet Group, Inc.			Equity	8,099	785,360	0.593%
JNLMorningstar SMID Moat Focus Index Fund	Reshield Inc.			Equity	3,594	877,686	0.669%
JNLMorningstar SMID Moat Focus Index Fund	Scotts Miracle-Gro Company, The			Equity	24,785	2,148,860	1.623%
JNLMorningstar SMID Moat Focus Index Fund	Asbury Automotive Group, Inc.			Equity	7,653	1,825,929	1.379%
JNLMorningstar SMID Moat Focus Index Fund	Skyworks Solutions, Inc.			Equity	8,067	796,778	0.602%
JNLMorningstar SMID Moat Focus Index Fund	Cemex Corporation			Equity	23,594	1,776,156	1.341%
JNLMorningstar SMID Moat Focus Index Fund	Wynn Resorts, Limited			Equity	8,740	837,891	0.633%
JNLMorningstar SMID Moat Focus Index Fund	Teradyne, Inc.			Equity	6,253	837,464	0.632%
JNLMorningstar SMID Moat Focus Index Fund	SEI Investments Company			Equity	24,615	1,703,112	1.286%
JNLMorningstar SMID Moat Focus Index Fund	Carfax, Inc.			Equity	23,485	1,817,269	1.372%
JNLMorningstar SMID Moat Focus Index Fund	MarketAxess Holdings Inc.			Equity	3,217	824,185	0.622%
JNLMorningstar SMID Moat Focus Index Fund	Discover Financial Services			Equity	13,212	1,853,511	1.400%
JNLMorningstar SMID Moat Focus Index Fund	The Western Union Company			Equity	134,018	1,598,835	1.207%
JNLMorningstar SMID Moat Focus Index Fund	Live Nation Entertainment, Inc.			Equity	17,188	1,881,914	1.421%
JNLMorningstar SMID Moat Focus Index Fund	Chart Industries, Inc.			Equity	5,929	827,929	0.626%
JNLMorningstar SMID Moat Focus Index Fund	Celanese Corporation			Equity	6,823	927,655	0.701%
JNLMorningstar SMID Moat Focus Index Fund	Invesco Ltd.			Equity	52,005	913,208	0.690%
JNLMorningstar SMID Moat Focus Index Fund	Portland General Electric Company			Equity	18,416	891,376	0.673%
JNLMorningstar SMID Moat Focus Index Fund	Huntington Ingalls Industries, Inc.			Equity	6,719	1,573,369	1.192%
JNLMorningstar SMID Moat Focus Index Fund	SS&C Technologies Holdings, Inc.			Equity	24,409	1,811,392	1.368%
JNLMorningstar SMID Moat Focus Index Fund	LPL Financial Holdings Inc.			Equity	6,925	1,610,963	1.217%
JNLMorningstar SMID Moat Focus Index Fund	Allison Systems, Inc.			Equity	11,348	1,090,202	0.823%
JNLMorningstar SMID Moat Focus Index Fund	Esperia Group, Inc.			Equity	13,066	1,830,552	1.382%
JNLMorningstar SMID Moat Focus Index Fund	LyondellBasell Industries N.V.			Equity	17,320	1,660,988	1.254%
JNLMorningstar SMID Moat Focus Index Fund	Fortune Brands Innovations, Inc.			Equity	11,545	1,033,624	0.781%
JNLMorningstar SMID Moat Focus Index Fund	Ionis Pharmaceuticals, Inc.			Equity	19,329	1,774,320	1.358%
JNLMorningstar SMID Moat Focus Index Fund	KOVA Holdings Inc.			Equity	7,278	1,724,668	1.303%
JNLMorningstar SMID Moat Focus Index Fund	Tapestry, Inc.			Equity	37,619	1,767,341	1.335%
JNLMorningstar SMID Moat Focus Index Fund	Norwegian Cruise Line Holdings Ltd.			Equity	85,563	1,754,897	1.325%
JNLMorningstar SMID Moat Focus Index Fund	Workday, Inc.			Equity	3,820	933,646	0.705%
JNLMorningstar SMID Moat Focus Index Fund	Evergy, Inc.			Equity	14,502	899,269	0.679%
JNLMorningstar SMID Moat Focus Index Fund	Sensata Technologies Holding PLC			Equity	45,854	1,644,324	1.242%
JNLMorningstar SMID Moat Focus Index Fund	iShares Core S&P Mid-Cap ETF			Fund	725	45,182	0.034%
JNLMorningstar SMID Moat Focus Index Fund	Veeva Systems Inc.			Equity	7,674	1,610,542	1.216%
JNLMorningstar SMID Moat Focus Index Fund	Allison Public Limited Company			Equity	12,604	1,836,907	1.387%
JNLMorningstar SMID Moat Focus Index Fund	Wyndham Hotels & Resorts, Inc.			Equity	21,567	1,685,245	1.273%
JNLMorningstar SMID Moat Focus Index Fund	Kraft Heinz Company, The			Equity	23,371	820,556	0.620%
JNLMorningstar SMID Moat Focus Index Fund	TransUnion			Equity	18,902	1,979,039	1.495%
JNLMorningstar SMID Moat Focus Index Fund	Block, Inc.			Equity	25,591	1,717,924	1.297%
JNLMorningstar SMID Moat Focus Index Fund	Zscaler, Inc.			Equity	5,084	869,059	0.656%
JNLMorningstar SMID Moat Focus Index Fund	Fortive Corporation			Equity	10,878	858,601	0.648%
JNLMorningstar SMID Moat Focus Index Fund	Crown Castle Inc.			Equity	14,167	1,680,631	1.269%
JNLMorningstar SMID Moat Focus Index Fund	WEC Energy Group Inc.			Equity	9,642	927,368	0.700%
JNLMorningstar SMID Moat Focus Index Fund	Lyb, Inc.			Equity	117,904	1,503,276	1.135%
JNLMorningstar SMID Moat Focus Index Fund	Dow Inc.			Equity	30,899	1,688,012	1.275%
JNLMorningstar SMID Moat Focus Index Fund	Pinterest, Inc.			Equity	28,138	910,827	0.688%
JNLMorningstar SMID Moat Focus Index Fund	Zoom Video Communications, Inc.			Equity	12,217	852,014	0.643%
JNLMorningstar SMID Moat Focus Index Fund	DuPont de Nemours, Inc.			Equity	20,537	1,830,052	1.362%
JNLMorningstar SMID Moat Focus Index Fund	SmartSheet Inc.			Equity	16,111	891,905	0.674%
JNLMorningstar SMID Moat Focus Index Fund	Corteva, Inc.			Equity	30,558	1,796,505	1.357%
JNLMorningstar SMID Moat Focus Index Fund	Cloudflare, Inc.			Equity	21,315	1,724,170	1.302%
JNLMorningstar SMID Moat Focus Index Fund	Trust Financial Corporation			Equity	22,709	971,264	0.734%
JNLMorningstar SMID Moat Focus Index Fund	Ots Worldwide Corporation			Equity	8,886	923,611	0.698%
JNLMorningstar SMID Moat Focus Index Fund	The Carlyle Group, Inc.			Equity	42,389	1,825,270	1.378%
JNLMorningstar SMID Moat Focus Index Fund	Royalty Pharma PLC			Equity	29,719	840,751	0.635%
JNLMorningstar SMID Moat Focus Index Fund	Vorster Corporation			Equity	25,830	871,504	0.658%
JNLMorningstar SMID Moat Focus Index Fund	Kenvue Inc.			Equity	35,597	823,358	0.622%
JNLMorningstar SMID Moat Focus Index Fund	Liberty Global Ltd.			Equity	41,468	896,123	0.677%
JNLMorningstar SMID Moat Focus Index Fund	Labcorp Holdings Inc.			Equity	4,199	938,393	0.709%
Total Non Derivatives						132,395,004	
Derivatives							
JNLMorningstar SMID Moat Focus Index Fund	S&P Midcap 400 Index FUTURE - CASH SETTLED			Derivative	2	16,529	0.012%
Total Derivatives						16,529	
Total All Investments						132,411,533	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLMorningstar U.S. Sustainability Index Fund	Cash			Cash Equivalent	175,889	175,889	0.36%
JNLMorningstar U.S. Sustainability Index Fund	Mid-America Apartment Communities, Inc.			Equity	2,317	368,171	0.07%
JNLMorningstar U.S. Sustainability Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,053,467	2,059,581	0.42%
JNLMorningstar U.S. Sustainability Index Fund	DoorDash, Inc.			Equity	6,068	866,086	0.17%
JNLMorningstar U.S. Sustainability Index Fund	Arling, Inc.			Equity	8,483	1,075,729	0.23%
JNLMorningstar U.S. Sustainability Index Fund	Texas Pacific Land Corporation			Equity	389	544,184	0.11%
JNLMorningstar U.S. Sustainability Index Fund	Roblox Corporation			Equity	10,259	454,063	0.09%
JNLMorningstar U.S. Sustainability Index Fund	Seagate Technology Holdings Public Limited Company			Equity	4,023	443,361	0.09%
JNLMorningstar U.S. Sustainability Index Fund	Core & Main, Inc.			Equity	3,679	163,348	0.03%
JNLMorningstar U.S. Sustainability Index Fund	Warner Bros. Discovery, Inc.			Equity	43,816	361,482	0.07%
JNLMorningstar U.S. Sustainability Index Fund	Yum! Brands, Inc.			Equity	5,528	772,317	0.16%
JNLMorningstar U.S. Sustainability Index Fund	United Rentals, Inc.			Equity	1,311	1,061,556	0.22%
JNLMorningstar U.S. Sustainability Index Fund	Verizon Communications Inc.			Equity	83,215	3,737,186	0.77%
JNLMorningstar U.S. Sustainability Index Fund	ONEOK, Inc.			Equity	11,481	1,046,264	0.21%
JNLMorningstar U.S. Sustainability Index Fund	Mettler-Toledo International Inc.			Equity	420	629,874	0.13%
JNLMorningstar U.S. Sustainability Index Fund	Valero Energy Corporation			Equity	6,403	864,597	0.17%
JNLMorningstar U.S. Sustainability Index Fund	FedEx Corporation			Equity	4,452	1,224,566	0.25%
JNLMorningstar U.S. Sustainability Index Fund	Ball Corporation			Equity	6,183	419,888	0.08%
JNLMorningstar U.S. Sustainability Index Fund	AFLAC Incorporated			Equity	9,966	1,114,199	0.23%
JNLMorningstar U.S. Sustainability Index Fund	Avery Dennison Corporation			Equity	1,573	347,255	0.07%
JNLMorningstar U.S. Sustainability Index Fund	Comcast Corporation			Equity	76,547	3,197,368	0.66%
JNLMorningstar U.S. Sustainability Index Fund	International Business Machines Corporation			Equity	18,178	4,018,782	0.83%
JNLMorningstar U.S. Sustainability Index Fund	Adobe Inc.			Equity	8,774	4,543,002	0.94%
JNLMorningstar U.S. Sustainability Index Fund	W. R. Berkley Corporation			Equity	6,036	342,422	0.07%
JNLMorningstar U.S. Sustainability Index Fund	Abermark Corporation			Equity	2,398	228,086	0.04%
JNLMorningstar U.S. Sustainability Index Fund	Berkshire Hathaway Inc.			Equity	39,657	18,412,411	3.87%
JNLMorningstar U.S. Sustainability Index Fund	Take-Two Interactive Software, Inc.			Equity	3,214	494,024	0.10%
JNLMorningstar U.S. Sustainability Index Fund	Best Buy Co., Inc.			Equity	3,875	403,930	0.08%
JNLMorningstar U.S. Sustainability Index Fund	CRH Public Limited Company			Equity	13,582	1,259,595	0.26%
JNLMorningstar U.S. Sustainability Index Fund	Bristle-Myers Squibb Company			Equity	40,221	2,080,035	0.43%
JNLMorningstar U.S. Sustainability Index Fund	Automatic Data Processing, Inc.			Equity	9,064	2,042,840	0.42%
JNLMorningstar U.S. Sustainability Index Fund	Advanced Micro Devices, Inc.			Equity	31,893	5,233,003	1.08%
JNLMorningstar U.S. Sustainability Index Fund	AutoZone, Inc.			Equity	338	1,064,714	0.22%
JNLMorningstar U.S. Sustainability Index Fund	U-Haul Holding Company			Equity	119	9,220	0.002%
JNLMorningstar U.S. Sustainability Index Fund	American Express Company			Equity	11,214	3,041,728	0.63%
JNLMorningstar U.S. Sustainability Index Fund	Brown-Forman Corporation			Equity	1,001	48,346	0.01%
JNLMorningstar U.S. Sustainability Index Fund	Applied Materials, Inc.			Equity	16,415	3,316,651	0.68%
JNLMorningstar U.S. Sustainability Index Fund	TD SYNNEX Corporation			Equity	1,026	123,202	0.025%
JNLMorningstar U.S. Sustainability Index Fund	Arlate Corporation, The			Equity	5,133	478,128	0.10%
JNLMorningstar U.S. Sustainability Index Fund	Sempra			Equity	12,413	1,045,795	0.21%
JNLMorningstar U.S. Sustainability Index Fund	Brown-Forman Corporation			Equity	5,781	285,684	0.059%
JNLMorningstar U.S. Sustainability Index Fund	Amgen Inc.			Equity	10,612	3,419,293	0.70%
JNLMorningstar U.S. Sustainability Index Fund	AME-TEK, Inc.			Equity	4,549	781,413	0.16%
JNLMorningstar U.S. Sustainability Index Fund	Air Products and Chemicals, Inc.			Equity	4,371	1,301,422	0.269%
JNLMorningstar U.S. Sustainability Index Fund	Hess Corporation			Equity	5,451	740,246	0.153%
JNLMorningstar U.S. Sustainability Index Fund	Home Depot, Inc., The			Equity	19,632	7,954,886	1.64%
JNLMorningstar U.S. Sustainability Index Fund	Crown Holdings, Inc.			Equity	2,302	420,716	0.088%
JNLMorningstar U.S. Sustainability Index Fund	The Clorox Company			Equity	2,491	405,809	0.084%
JNLMorningstar U.S. Sustainability Index Fund	Consolidated Edison, Inc.			Equity	6,932	721,829	0.149%
JNLMorningstar U.S. Sustainability Index Fund	Eastman Chemical Company			Equity	2,364	266,565	0.055%
JNLMorningstar U.S. Sustainability Index Fund	Cisco Systems, Inc.			Equity	79,637	4,248,169	0.87%
JNLMorningstar U.S. Sustainability Index Fund	Halliburton Company			Equity	17,616	511,745	0.106%
JNLMorningstar U.S. Sustainability Index Fund	IDEXX Laboratories, Inc.			Equity	1,630	823,509	0.170%
JNLMorningstar U.S. Sustainability Index Fund	Target Corporation			Equity	9,148	1,425,807	0.295%
JNLMorningstar U.S. Sustainability Index Fund	Copart, Inc.			Equity	17,363	909,821	0.188%
JNLMorningstar U.S. Sustainability Index Fund	BioGen Inc.			Equity	2,845	551,475	0.114%
JNLMorningstar U.S. Sustainability Index Fund	FactSet Research Systems Inc.			Equity	764	351,325	0.073%
JNLMorningstar U.S. Sustainability Index Fund	BioMarin Pharmaceutical Inc.			Equity	3,676	258,386	0.053%
JNLMorningstar U.S. Sustainability Index Fund	CoStar Group, Inc.			Equity	8,082	609,706	0.126%
JNLMorningstar U.S. Sustainability Index Fund	The Interpublic Group of Companies, Inc.			Equity	7,558	428,968	0.089%
JNLMorningstar U.S. Sustainability Index Fund	Deere & Company			Equity	5,012	2,099,026	0.434%
JNLMorningstar U.S. Sustainability Index Fund	Marriott International, Inc.			Equity	4,632	1,151,515	0.238%
JNLMorningstar U.S. Sustainability Index Fund	Wood's Corporation			Equity	3,147	1,493,535	0.309%
JNLMorningstar U.S. Sustainability Index Fund	CMS Energy Corporation			Equity	10,029	425,928	0.088%
JNLMorningstar U.S. Sustainability Index Fund	Fifth Third Bancorp			Equity	13,428	580,224	0.120%
JNLMorningstar U.S. Sustainability Index Fund	Deckers Outdoor Corporation			Equity	2,965	472,769	0.098%
JNLMorningstar U.S. Sustainability Index Fund	Cummins Inc.			Equity	7,684	869,052	0.180%
JNLMorningstar U.S. Sustainability Index Fund	Fastenal Company			Equity	11,295	856,689	0.178%
JNLMorningstar U.S. Sustainability Index Fund	Juniper Networks, Inc.			Equity	6,489	252,941	0.052%
JNLMorningstar U.S. Sustainability Index Fund	Flex Ltd.			Equity	8,224	274,928	0.057%
JNLMorningstar U.S. Sustainability Index Fund	Lennox International Inc.			Equity	615	372,346	0.077%
JNLMorningstar U.S. Sustainability Index Fund	D.R. Horton, Inc.			Equity	5,903	1,126,688	0.232%
JNLMorningstar U.S. Sustainability Index Fund	Constellation Brands, Inc.			Equity	3,185	802,743	0.170%
JNLMorningstar U.S. Sustainability Index Fund	Campbell Soup Company			Equity	3,862	188,929	0.039%
JNLMorningstar U.S. Sustainability Index Fund	NVIDIA Corporation			Equity	395,133	47,988,988	9.932%
JNLMorningstar U.S. Sustainability Index Fund	Darden Restaurants, Inc.			Equity	2,437	399,985	0.082%
JNLMorningstar U.S. Sustainability Index Fund	Expeditors International of Washington, Inc.			Equity	2,735	359,379	0.074%
JNLMorningstar U.S. Sustainability Index Fund	International Flavors & Fragrances Inc.			Equity	5,157	543,132	0.112%
JNLMorningstar U.S. Sustainability Index Fund	Gilead Sciences, Inc.			Equity	24,608	2,063,135	0.427%
JNLMorningstar U.S. Sustainability Index Fund	Walt Disney Company, The			Equity	38,926	3,455,722	0.719%
JNLMorningstar U.S. Sustainability Index Fund	General Mills, Inc.			Equity	11,090	818,997	0.170%
JNLMorningstar U.S. Sustainability Index Fund	Church & Dwight Co., Inc.			Equity	4,933	516,584	0.107%
JNLMorningstar U.S. Sustainability Index Fund	Equifax Inc.			Equity	1,165	342,347	0.071%
JNLMorningstar U.S. Sustainability Index Fund	McKesson Corporation			Equity	2,567	1,270,994	0.263%
JNLMorningstar U.S. Sustainability Index Fund	Dollar Tree, Inc.			Equity	1,007	281,772	0.058%
JNLMorningstar U.S. Sustainability Index Fund	Danaher Corporation			Equity	12,740	3,545,415	0.734%
JNLMorningstar U.S. Sustainability Index Fund	Salesforce, Inc.			Equity	18,347	5,029,154	1.041%
JNLMorningstar U.S. Sustainability Index Fund	Illinois Tool Works Inc.			Equity	5,891	1,552,691	0.321%
JNLMorningstar U.S. Sustainability Index Fund	eBay Inc.			Equity	10,023	652,623	0.135%
JNLMorningstar U.S. Sustainability Index Fund	Arthur J. Gallagher & Co.			Equity	4,283	1,205,108	0.249%
JNLMorningstar U.S. Sustainability Index Fund	Genuine Parts Company			Equity	2,754	387,433	0.080%
JNLMorningstar U.S. Sustainability Index Fund	Omnicon Group Inc.			Equity	3,769	392,315	0.081%
JNLMorningstar U.S. Sustainability Index Fund	Franklin Resources, Inc.			Equity	5,565	1,113,667	0.231%
JNLMorningstar U.S. Sustainability Index Fund	Ecolab Inc.			Equity	5,031	1,287,400	0.266%
JNLMorningstar U.S. Sustainability Index Fund	Unum Group			Equity	3,577	212,617	0.044%
JNLMorningstar U.S. Sustainability Index Fund	Humana Inc.			Equity	2,377	754,995	0.156%
JNLMorningstar U.S. Sustainability Index Fund	NextEra Energy, Inc.			Equity	40,538	3,426,677	0.709%
JNLMorningstar U.S. Sustainability Index Fund	The Hershey Company			Equity	2,935	562,874	0.116%
JNLMorningstar U.S. Sustainability Index Fund	Electronic Arts Inc.			Equity	4,831	692,959	0.143%
JNLMorningstar U.S. Sustainability Index Fund	Cardinal Health, Inc.			Equity	4,794	529,833	0.110%
JNLMorningstar U.S. Sustainability Index Fund	Cadence Design Systems, Inc.			Equity	5,262	1,463,534	0.301%
JNLMorningstar U.S. Sustainability Index Fund	CSX Corporation			Equity	38,608	1,333,134	0.276%
JNLMorningstar U.S. Sustainability Index Fund	Republic Services, Inc.			Equity	4,051	813,603	0.168%
JNLMorningstar U.S. Sustainability Index Fund	Colgate-Palmolive Company			Equity	16,189	1,680,580	0.348%
JNLMorningstar U.S. Sustainability Index Fund	Jabil Inc.			Equity	2,179	281,110	0.058%
JNLMorningstar U.S. Sustainability Index Fund	Realty, Inc.			Equity	2,497	318,992	0.066%
JNLMorningstar U.S. Sustainability Index Fund	Huntington Bancshares Incorporated			Equity	28,378	421,555	0.087%
JNLMorningstar U.S. Sustainability Index Fund	Emerson Electric Co.			Equity	11,322	1,238,287	0.256%
JNLMorningstar U.S. Sustainability Index Fund	Carlisle Companies Incorporated			Equity	950	427,263	0.088%
JNLMorningstar U.S. Sustainability Index Fund	J.B. Hunt Transport Services, Inc.			Equity	1,650	294,345	0.059%
JNLMorningstar U.S. Sustainability Index Fund	Cintas Corporation			Equity	6,823	1,404,719	0.291%
JNLMorningstar U.S. Sustainability Index Fund	Morgan Stanley			Equity	24,727	2,577,542	0.533%
JNLMorningstar U.S. Sustainability Index Fund	Carnival Corporation			Equity	19,859	366,994	0.076%
JNLMorningstar U.S. Sustainability Index Fund	Packaging Corporation of America			Equity	1,753	379,787	0.078%
JNLMorningstar U.S. Sustainability Index Fund	Ross Stores, Inc.			Equity	6,535	983,583	0.204%
JNLMorningstar U.S. Sustainability Index Fund	BlackRock, Inc.			Equity	2,948	2,799,155	0.579%
JNLMorningstar U.S. Sustainability Index Fund	NiSource Inc.			Equity	8,997	311,746	0.065%
JNLMorningstar U.S. Sustainability Index Fund	Masco Corporation			Equity	4,251	366,829	0.074%
JNLMorningstar U.S. Sustainability Index Fund	Charles River Laboratories International, Inc.			Equity	977	192,440	0.040%
JNLMorningstar U.S. Sustainability Index Fund	MetLife, Inc.			Equity	11,787	972,192	0.201%
JNLMorningstar U.S. Sustainability Index Fund	Paychex, Inc.			Equity	6,396	858,279	0.178%
JNLMorningstar U.S. Sustainability Index Fund	CEC Energy Inc.			Equity	10,911	1,718,341	0.349%
JNLMorningstar U.S. Sustainability Index Fund	Poet Corporation			Equity	765	288,252	0.060%
JNLMorningstar U.S. Sustainability Index Fund	Bruker Corporation			Equity	1,882	129,971	0.027%
JNLMorningstar U.S. Sustainability Index Fund	Royal Caribbean Cruises Ltd.			Equity	4,657	827,796	0.171%
JNLMorningstar U.S. Sustainability Index Fund	Cosco Wholesale Corporation			Equity	7,789	7,781,624	1.613%
JNLMorningstar U.S. Sustainability Index Fund	T. Rowe Price Group, Inc.			Equity	4,439	483,540	0.100%
JNLMorningstar U.S. Sustainability Index Fund	Travelers Companies, Inc., The			Equity	4,490	1,051,199	0.218%
JNLMorningstar U.S. Sustainability Index Fund	Schlumberger Limited			Equity	28,297	1,194,723	0.247%
JNLMorningstar U.S. Sustainability Index Fund	Reliance, Inc.			Equity	1,130	326,897	0.068%
JNLMorningstar U.S. Sustainability Index Fund	Lam Research Corporation			Equity	2,574	2,106,510	0.436%
JNLMorningstar U.S. Sustainability Index Fund	Global Payments Inc.			Equity	5,033	515,480	0.107%
JNLMorningstar U.S. Sustainability Index Fund	KeyCorp			Equity	18,393	308,083	0.064%
JNLMorningstar U.S. Sustainability Index Fund	Lennar Corporation			Equity	4,648	871,407	0.180%
JNLMorningstar U.S. Sustainability Index Fund	PulteGroup, Inc.			Equity	4,145	696,761	0.143%
JNLMorningstar U.S. Sustainability Index Fund	Pullen Corporation			Equity	19,683	798,146	0.165%
JNLMorningstar U.S. Sustainability Index Fund	Arch Capital Group Ltd.			Equity	7,376	825,227	0.171%
JNLMorningstar U.S. Sustainability Index Fund	Merck & Co., Inc.			Equity	50,120	5,729,903	1.186%
JNLMorningstar U.S. Sustainability Index Fund	CVS Health Corporation			Equity	24,797	1,559,226	0.323%
JNLMorningstar U.S. Sustainability Index Fund	Lennar Corporation			Equity	188	32,513	0.007%
JNLMorningstar U.S. Sustainability Index Fund	McDonald's Corporation			Equity	14,308	4,356,929	0.902%
JNLMorningstar U.S. Sustainability Index Fund	Public Service Enterprise Group Incorporated			Equity	9,869	880,413	0.182%
JNLMorningstar U.S. Sustainability Index Fund	Crack Corporation			Equity	31,689	5,999,806	1.181%
JNLMorningstar U.S. Sustainability Index Fund	United Parcel Service, Inc.			Equity	14,418	1,965,750	0.407%
JNLMorningstar U.S. Sustainability Index Fund	Agilent Technologies, Inc.			Equity	5,820	864,154	0.179%
JNLMorningstar U.S. Sustainability Index Fund	Qualcomm Incorporated			Equity	22,109	3,759,635	0.778%
JNLMorningstar U.S. Sustainability Index Fund	Marsh & McLennan Companies, Inc.			Equity	9,798	2,185,636	0.452%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLMorningstar U.S. Sustainability Index Fund	Hartford Financial Services Group, Inc. , The			Equity	5,886	694,962	0.144%
JNLMorningstar U.S. Sustainability Index Fund	The PNC Financial Services Group, Inc.			Equity	7,889	1,458,097	0.302%
JNLMorningstar U.S. Sustainability Index Fund	PepsiCo, Inc.			Equity	27,238	4,631,822	0.959%
JNLMorningstar U.S. Sustainability Index Fund	Quest Diagnostics Incorporated			Equity	2,229	346,052	0.072%
JNLMorningstar U.S. Sustainability Index Fund	Newmont Corporation			Equity	22,829	1,220,210	0.253%
JNLMorningstar U.S. Sustainability Index Fund	Kroger Co., The			Equity	13,526	1,775,040	0.369%
JNLMorningstar U.S. Sustainability Index Fund	Norfolk Southern Corporation			Equity	4,490	1,115,765	0.231%
JNLMorningstar U.S. Sustainability Index Fund	Regeneron Pharmaceuticals, Inc.			Equity	2,087	2,193,938	0.454%
JNLMorningstar U.S. Sustainability Index Fund	Rockwell Automation, Inc.			Equity	2,278	611,552	0.127%
JNLMorningstar U.S. Sustainability Index Fund	Reinsurance Group of America, Incorporated			Equity	1,269	276,477	0.057%
JNLMorningstar U.S. Sustainability Index Fund	Edwards Lifesciences Corporation			Equity	11,884	284,725	0.182%
JNLMorningstar U.S. Sustainability Index Fund	Pfizer Inc.			Equity	112,295	3,249,817	0.673%
JNLMorningstar U.S. Sustainability Index Fund	NVR, Inc.			Equity	60	588,708	0.122%
JNLMorningstar U.S. Sustainability Index Fund	Old Dominion Freight Line, Inc.			Equity	3,751	745,099	0.154%
JNLMorningstar U.S. Sustainability Index Fund	Brown & Brown, Inc.			Equity	4,877	505,257	0.105%
JNLMorningstar U.S. Sustainability Index Fund	Microsoft Corporation			Equity	104,679	45,043,374	9.323%
JNLMorningstar U.S. Sustainability Index Fund	Akamai Technologies, Inc.			Equity	2,978	300,629	0.062%
JNLMorningstar U.S. Sustainability Index Fund	Capital One Financial Corporation			Equity	7,574	1,134,055	0.235%
JNLMorningstar U.S. Sustainability Index Fund	The Progressive Corporation			Equity	11,582	2,939,048	0.608%
JNLMorningstar U.S. Sustainability Index Fund	NIKE, Inc.			Equity	23,524	2,088,021	0.432%
JNLMorningstar U.S. Sustainability Index Fund	Regal Rexnord Corporation			Equity	1,332	221,418	0.046%
JNLMorningstar U.S. Sustainability Index Fund	Ares Management Corporation			Equity	3,701	576,764	0.119%
JNLMorningstar U.S. Sustainability Index Fund	Low's Companies, Inc.			Equity	11,270	3,052,480	0.632%
JNLMorningstar U.S. Sustainability Index Fund	Lincoln Electric Holdings, Inc.			Equity	1,138	219,327	0.045%
JNLMorningstar U.S. Sustainability Index Fund	PPG Industries, Inc.			Equity	4,668	618,323	0.128%
JNLMorningstar U.S. Sustainability Index Fund	ResMed Inc.			Equity	2,890	705,507	0.146%
JNLMorningstar U.S. Sustainability Index Fund	Hollins, Inc.			Equity	5,907	298,778	0.062%
JNLMorningstar U.S. Sustainability Index Fund	Cheniere Energy, Inc.			Equity	4,512	811,438	0.168%
JNLMorningstar U.S. Sustainability Index Fund	Align Technology, Inc.			Equity	1,496	380,463	0.079%
JNLMorningstar U.S. Sustainability Index Fund	Tractor Supply Company			Equity	2,143	623,463	0.129%
JNLMorningstar U.S. Sustainability Index Fund	West Pharmaceutical Services, Inc.			Equity	1,441	432,531	0.090%
JNLMorningstar U.S. Sustainability Index Fund	LYCO Corporation			Equity	5,130	204,780	0.042%
JNLMorningstar U.S. Sustainability Index Fund	Trimble Inc.			Equity	4,781	296,852	0.061%
JNLMorningstar U.S. Sustainability Index Fund	Tetra Tech, Inc.			Equity	5,280	249,005	0.052%
JNLMorningstar U.S. Sustainability Index Fund	Western Digital Corporation			Equity	6,500	443,885	0.092%
JNLMorningstar U.S. Sustainability Index Fund	State Street Corporation			Equity	6,023	1,532,548	0.317%
JNLMorningstar U.S. Sustainability Index Fund	Vertex Pharmaceuticals Incorporated			Equity	5,090	2,367,257	0.490%
JNLMorningstar U.S. Sustainability Index Fund	Nasdaq, Inc.			Equity	7,688	561,301	0.116%
JNLMorningstar U.S. Sustainability Index Fund	Zebra Technologies Corporation			Equity	1,022	378,467	0.078%
JNLMorningstar U.S. Sustainability Index Fund	Convia Inc.			Equity	3,015	1,068,389	0.224%
JNLMorningstar U.S. Sustainability Index Fund	Principal Financial Group, Inc.			Equity	4,643	398,834	0.083%
JNLMorningstar U.S. Sustainability Index Fund	Prudential Financial, Inc.			Equity	7,195	871,315	0.180%
JNLMorningstar U.S. Sustainability Index Fund	Union Pacific Corporation			Equity	12,063	2,973,288	0.615%
JNLMorningstar U.S. Sustainability Index Fund	Thermo Fisher Scientific Inc.			Equity	7,551	4,819,742	0.997%
JNLMorningstar U.S. Sustainability Index Fund	Cenora, Inc.			Equity	3,411	767,748	0.159%
JNLMorningstar U.S. Sustainability Index Fund	Centene Corporation			Equity	10,410	783,665	0.162%
JNLMorningstar U.S. Sustainability Index Fund	Intuitive Surgical, Inc.			Equity	6,995	3,436,434	0.711%
JNLMorningstar U.S. Sustainability Index Fund	AT&T Inc.			Equity	141,209	3,106,578	0.642%
JNLMorningstar U.S. Sustainability Index Fund	Penske Automotive Group, Inc.			Equity	351	57,009	0.012%
JNLMorningstar U.S. Sustainability Index Fund	Saia, Inc.			Equity	522	228,250	0.047%
JNLMorningstar U.S. Sustainability Index Fund	Starbucks Corporation			Equity	22,437	2,187,383	0.453%
JNLMorningstar U.S. Sustainability Index Fund	Watsco, Inc.			Equity	5,695	341,857	0.071%
JNLMorningstar U.S. Sustainability Index Fund	Waste Management, Inc.			Equity	7,271	1,509,460	0.312%
JNLMorningstar U.S. Sustainability Index Fund	Synopsys, Inc.			Equity	3,035	1,536,894	0.318%
JNLMorningstar U.S. Sustainability Index Fund	Waters Corporation			Equity	1,151	414,233	0.086%
JNLMorningstar U.S. Sustainability Index Fund	Williams Companies, Inc., The			Equity	23,947	1,063,181	0.220%
JNLMorningstar U.S. Sustainability Index Fund	Williams-Sonoma, Inc.			Equity	2,427	375,391	0.078%
JNLMorningstar U.S. Sustainability Index Fund	Alliant Energy Corporation			Equity	5,102	309,640	0.064%
JNLMorningstar U.S. Sustainability Index Fund	Dick's Sporting Goods, Inc.			Equity	1,154	242,109	0.050%
JNLMorningstar U.S. Sustainability Index Fund	Sysco Corporation			Equity	9,835	767,720	0.159%
JNLMorningstar U.S. Sustainability Index Fund	CMF Group Inc.			Equity	7,150	1,577,648	0.327%
JNLMorningstar U.S. Sustainability Index Fund	Service Corporation International			Equity	2,844	224,477	0.046%
JNLMorningstar U.S. Sustainability Index Fund	Netflix, Inc.			Equity	8,499	6,028,086	1.248%
JNLMorningstar U.S. Sustainability Index Fund	LTX Companies, Inc., The			Equity	22,355	2,627,607	0.544%
JNLMorningstar U.S. Sustainability Index Fund	Carfax, Inc.			Equity	3,209	298,312	0.061%
JNLMorningstar U.S. Sustainability Index Fund	Moderna, Inc.			Equity	6,515	435,397	0.090%
JNLMorningstar U.S. Sustainability Index Fund	Las Vegas Sands Corp.			Equity	8,071	406,294	0.084%
JNLMorningstar U.S. Sustainability Index Fund	Regions Financial Corporation			Equity	18,307	431,669	0.089%
JNLMorningstar U.S. Sustainability Index Fund	Ameriprise Financial, Inc.			Equity	1,949	515,369	0.107%
JNLMorningstar U.S. Sustainability Index Fund	Delta Air Lines, Inc.			Equity	12,744	647,268	0.134%
JNLMorningstar U.S. Sustainability Index Fund	MercadoLibre, Inc.			Equity	963	1,976,037	0.409%
JNLMorningstar U.S. Sustainability Index Fund	Discover Financial Services			Equity	4,949	694,295	0.144%
JNLMorningstar U.S. Sustainability Index Fund	Owens Corning			Equity	3,703	500,614	0.104%
JNLMorningstar U.S. Sustainability Index Fund	Chipotle Mexican Grill, Inc.			Equity	27,043	1,558,218	0.323%
JNLMorningstar U.S. Sustainability Index Fund	Molson Coors Beverage Company			Equity	3,473	199,767	0.041%
JNLMorningstar U.S. Sustainability Index Fund	MSCI Inc.			Equity	1,561	509,954	0.108%
JNLMorningstar U.S. Sustainability Index Fund	Lukemon Athletics Inc.			Equity	2,209	599,412	0.124%
JNLMorningstar U.S. Sustainability Index Fund	Bank of New York Mellon Corporation, The			Equity	14,737	1,059,001	0.219%
JNLMorningstar U.S. Sustainability Index Fund	Ulta Beauty, Inc.			Equity	931	362,271	0.075%
JNLMorningstar U.S. Sustainability Index Fund	Marathon Petroleum Corporation			Equity	6,720	1,094,755	0.227%
JNLMorningstar U.S. Sustainability Index Fund	Booz Allen Hamilton Holding Corporation			Equity	2,570	1,019,203	0.208%
JNLMorningstar U.S. Sustainability Index Fund	Accenture Public Limited Company			Equity	12,407	4,385,628	0.908%
JNLMorningstar U.S. Sustainability Index Fund	O'Reilly Automotive, Inc.			Equity	1,139	1,311,672	0.271%
JNLMorningstar U.S. Sustainability Index Fund	Motorola Solutions, Inc.			Equity	3,287	1,481,124	0.307%
JNLMorningstar U.S. Sustainability Index Fund	Targa Resources Corp.			Equity	4,362	645,620	0.134%
JNLMorningstar U.S. Sustainability Index Fund	Expedia Group, Inc.			Equity	2,469	365,461	0.076%
JNLMorningstar U.S. Sustainability Index Fund	American Water Works Company, Inc.			Equity	3,863	564,925	0.117%
JNLMorningstar U.S. Sustainability Index Fund	Apiv PLC			Equity	4,717	339,671	0.070%
JNLMorningstar U.S. Sustainability Index Fund	Phillips 66			Equity	8,227	1,081,438	0.224%
JNLMorningstar U.S. Sustainability Index Fund	Dollar General Corporation			Equity	1,283	262,213	0.054%
JNLMorningstar U.S. Sustainability Index Fund	LyondellBasell Industries N.V.			Equity	5,159	494,748	0.102%
JNLMorningstar U.S. Sustainability Index Fund	Xylem Inc.			Equity	4,809	649,359	0.134%
JNLMorningstar U.S. Sustainability Index Fund	Visa Inc.			Equity	33,093	9,098,920	1.883%
JNLMorningstar U.S. Sustainability Index Fund	Terisa Analytics, Inc.			Equity	2,851	759,399	0.157%
JNLMorningstar U.S. Sustainability Index Fund	Kinder Morgan, Inc.			Equity	38,818	857,490	0.177%
JNLMorningstar U.S. Sustainability Index Fund	CDW Corp.			Equity	2,632	595,622	0.123%
JNLMorningstar U.S. Sustainability Index Fund	Willis Towers Watson Public Limited Company			Equity	2,046	604,409	0.125%
JNLMorningstar U.S. Sustainability Index Fund	Zoetis Inc.			Equity	9,032	1,784,172	0.365%
JNLMorningstar U.S. Sustainability Index Fund	US Foods Holding Corp.			Equity	4,537	279,026	0.058%
JNLMorningstar U.S. Sustainability Index Fund	News Corporation			Equity	7,383	197,348	0.041%
JNLMorningstar U.S. Sustainability Index Fund	KKR & Co. Inc.			Equity	13,078	1,707,725	0.353%
JNLMorningstar U.S. Sustainability Index Fund	News Corporation			Equity	2,104	591,017	0.124%
JNLMorningstar U.S. Sustainability Index Fund	Medpace Holdings, Inc.			Equity	514	171,573	0.036%
JNLMorningstar U.S. Sustainability Index Fund	IOVIA Holdings Inc.			Equity	3,621	858,068	0.178%
JNLMorningstar U.S. Sustainability Index Fund	Hubbell Incorporated			Equity	1,048	448,911	0.093%
JNLMorningstar U.S. Sustainability Index Fund	T-Mobile US, Inc.			Equity	9,697	2,001,073	0.414%
JNLMorningstar U.S. Sustainability Index Fund	Snap Inc.			Equity	22,078	236,725	0.049%
JNLMorningstar U.S. Sustainability Index Fund	Twilio Inc.			Equity	3,210	209,356	0.043%
JNLMorningstar U.S. Sustainability Index Fund	Palo Alto Networks, Inc.			Equity	6,378	2,180,000	0.451%
JNLMorningstar U.S. Sustainability Index Fund	Edison Corporation Public Limited Company			Equity	7,886	2,613,736	0.541%
JNLMorningstar U.S. Sustainability Index Fund	Baker Hughes Company			Equity	19,965	721,735	0.149%
JNLMorningstar U.S. Sustainability Index Fund	Former Charter Communications Parent, Inc.			Equity	1,957	634,225	0.131%
JNLMorningstar U.S. Sustainability Index Fund	The Cigna Group			Equity	5,543	1,920,317	0.397%
JNLMorningstar U.S. Sustainability Index Fund	Floor & Decor Holdings, Inc.			Equity	2,134	264,979	0.055%
JNLMorningstar U.S. Sustainability Index Fund	Burlington Stores, Inc.			Equity	1,284	338,308	0.070%
JNLMorningstar U.S. Sustainability Index Fund	Booking Holdings Inc.			Equity	664	2,796,848	0.579%
JNLMorningstar U.S. Sustainability Index Fund	Veeva Systems Inc.			Equity	2,922	613,240	0.127%
JNLMorningstar U.S. Sustainability Index Fund	Aleppion Public Limited Company			Equity	1,757	256,065	0.053%
JNLMorningstar U.S. Sustainability Index Fund	Intercontinental Exchange, Inc.			Equity	10,314	1,817,481	0.376%
JNLMorningstar U.S. Sustainability Index Fund	Nvent Electric Public Limited Company			Equity	3,284	230,734	0.048%
JNLMorningstar U.S. Sustainability Index Fund	CNH Industrial N.V.			Equity	17,495	194,195	0.040%
JNLMorningstar U.S. Sustainability Index Fund	S&P Global Inc.			Equity	6,202	3,204,077	0.663%
JNLMorningstar U.S. Sustainability Index Fund	Equity Residential			Equity	9,676	1,601,601	0.334%
JNLMorningstar U.S. Sustainability Index Fund	Elevance Health, Inc.			Equity	4,609	2,396,680	0.496%
JNLMorningstar U.S. Sustainability Index Fund	Iron Mountain Incorporated			Equity	5,688	679,972	0.141%
JNLMorningstar U.S. Sustainability Index Fund	TransUnion			Equity	3,884	406,655	0.084%
JNLMorningstar U.S. Sustainability Index Fund	Walgreens Boots Alliance, Inc.			Equity	13,728	2,529,037	0.525%
JNLMorningstar U.S. Sustainability Index Fund	Eversource Energy			Equity	7,066	480,841	0.100%
JNLMorningstar U.S. Sustainability Index Fund	Performance Food Group Company			Equity	2,978	233,386	0.048%
JNLMorningstar U.S. Sustainability Index Fund	Keyshift Technologies, Inc.			Equity	3,453	548,785	0.114%
JNLMorningstar U.S. Sustainability Index Fund	Synchrony Financial			Equity	7,791	389,615	0.080%
JNLMorningstar U.S. Sustainability Index Fund	Hewlett Packard Enterprise Company			Equity	25,665	528,442	0.109%
JNLMorningstar U.S. Sustainability Index Fund	AVANGRID, Inc.			Equity	1,462	52,968	0.011%
JNLMorningstar U.S. Sustainability Index Fund	Dell Technologies Inc.			Equity	5,260	623,520	0.129%
JNLMorningstar U.S. Sustainability Index Fund	HP, Inc.			Equity	19,326	698,550	0.145%
JNLMorningstar U.S. Sustainability Index Fund	Paycom Software Inc.			Equity	20,131	1,570,822	0.326%
JNLMorningstar U.S. Sustainability Index Fund	Johnson Controls International Public Limited Company			Equity	13,368	1,042,437	0.216%
JNLMorningstar U.S. Sustainability Index Fund	Bio-Tech Corporation			Equity	3,135	250,581	0.052%
JNLMorningstar U.S. Sustainability Index Fund	TopBuild Corp.			Equity	620	252,222	0.052%
JNLMorningstar U.S. Sustainability Index Fund	Hilltop Worldwide Holdings Inc.			Equity	4,845	1,164,773	0.241%
JNLMorningstar U.S. Sustainability Index Fund	Medtronic, Inc.			Equity	25,422	2,306,538	0.477%
JNLMorningstar U.S. Sustainability Index Fund	Crown Castle Inc.			Equity	8,668	1,028,285	0.213%
JNLMorningstar U.S. Sustainability Index Fund	Equinix, Inc.			Equity	1,883	1,671,407	0.348%
JNLMorningstar U.S. Sustainability Index Fund	American Homes 4 Rent			Equity	6,213	238,517	0.049%
JNLMorningstar U.S. Sustainability Index Fund	Alexandria Real Estate Equities, Inc.			Equity	3,054	366,633	0.076%
JNLMorningstar U.S. Sustainability Index Fund	Gaming and Leisure Properties, Inc.			Equity	5,244	269,804	0.056%
JNLMorningstar U.S. Sustainability Index Fund	Camden Property Trust			Equity	2,109	262,697	0.054%
JNLMorningstar U.S. Sustainability Index Fund	Prologis Inc.			Equity	18,287	2,309,298	0.478%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLMorningstar U.S. Sustainability Index Fund	W.P. Carey Inc.			Equity	4,379	276,643	0.057%
JNLMorningstar U.S. Sustainability Index Fund	Invitation Homes Inc.			Equity	11,414	405,954	0.094%
JNLMorningstar U.S. Sustainability Index Fund	Realty Income Corporation			Equity	17,471	1,108,011	0.229%
JNLMorningstar U.S. Sustainability Index Fund	Public Storage Operating Company			Equity	3,127	1,137,821	0.235%
JNLMorningstar U.S. Sustainability Index Fund	Equity Lifestyle Properties, Inc.			Equity	3,615	259,620	0.054%
JNLMorningstar U.S. Sustainability Index Fund	Sun Communities, Inc.			Equity	2,439	331,924	0.069%
JNLMorningstar U.S. Sustainability Index Fund	Simon Property Group, Inc.			Equity	6,114	1,033,388	0.214%
JNLMorningstar U.S. Sustainability Index Fund	Essex Property Trust, Inc.			Equity	1,269	377,997	0.078%
JNLMorningstar U.S. Sustainability Index Fund	American Tower Corporation			Equity	9,218	2,143,738	0.444%
JNLMorningstar U.S. Sustainability Index Fund	Host Hotels & Resorts, Inc.			Equity	13,828	246,138	0.051%
JNLMorningstar U.S. Sustainability Index Fund	CBRE Group, Inc.			Equity	5,972	743,395	0.154%
JNLMorningstar U.S. Sustainability Index Fund	AvalonBay Communities, Inc.			Equity	2,793	633,871	0.131%
JNLMorningstar U.S. Sustainability Index Fund	Weyerhaeuser Company			Equity	14,241	482,200	0.100%
JNLMorningstar U.S. Sustainability Index Fund	Extra Space Storage Inc.			Equity	4,176	752,473	0.156%
JNLMorningstar U.S. Sustainability Index Fund	Veritas, Inc.			Equity	8,056	516,531	0.107%
JNLMorningstar U.S. Sustainability Index Fund	Digital Realty Trust, Inc.			Equity	6,393	1,034,579	0.214%
JNLMorningstar U.S. Sustainability Index Fund	Regency Centers Corporation			Equity	3,325	242,393	0.050%
JNLMorningstar U.S. Sustainability Index Fund	UDR, Inc.			Equity	5,949	269,728	0.056%
JNLMorningstar U.S. Sustainability Index Fund	Avantor, Inc.			Equity	3,137	255,477	0.053%
JNLMorningstar U.S. Sustainability Index Fund	SBA Communications Corporation			Equity	2,127	511,969	0.106%
JNLMorningstar U.S. Sustainability Index Fund	VICI Properties Inc.			Equity	20,552	693,290	0.143%
JNLMorningstar U.S. Sustainability Index Fund	Fox Corporation			Equity	2,463	95,564	0.020%
JNLMorningstar U.S. Sustainability Index Fund	Fox Corporation			Equity	4,518	191,247	0.040%
JNLMorningstar U.S. Sustainability Index Fund	Dow Inc.			Equity	13,786	753,129	0.156%
JNLMorningstar U.S. Sustainability Index Fund	Trideweb Markets Inc.			Equity	2,228	275,537	0.057%
JNLMorningstar U.S. Sustainability Index Fund	Pinterest, Inc.			Equity	11,638	376,722	0.078%
JNLMorningstar U.S. Sustainability Index Fund	Avantor, Inc.			Equity	13,455	349,981	0.072%
JNLMorningstar U.S. Sustainability Index Fund	Ancor Pty Ltd			Equity	28,422	322,021	0.067%
JNLMorningstar U.S. Sustainability Index Fund	Healthpeak OP, LLC			Equity	13,766	314,828	0.065%
JNLMorningstar U.S. Sustainability Index Fund	Trust Financial Corporation			Equity	26,228	1,121,772	0.232%
JNLMorningstar U.S. Sustainability Index Fund	Equitable Holdings, Inc.			Equity	5,816	244,446	0.051%
JNLMorningstar U.S. Sustainability Index Fund	Essential Utilities, Inc.			Equity	4,963	101,423	0.040%
JNLMorningstar U.S. Sustainability Index Fund	Ingersoll Rand Inc.			Equity	7,990	784,298	0.162%
JNLMorningstar U.S. Sustainability Index Fund	Trane Technologies Public Limited Company			Equity	4,469	1,737,234	0.360%
JNLMorningstar U.S. Sustainability Index Fund	ADN Public Limited Company			Equity	4,271	1,477,723	0.306%
JNLMorningstar U.S. Sustainability Index Fund	Carmer Global Corporation			Equity	16,654	1,340,480	0.277%
JNLMorningstar U.S. Sustainability Index Fund	Otis Worldwide Corporation			Equity	8,053	837,029	0.173%
JNLMorningstar U.S. Sustainability Index Fund	The Carlyle Group, Inc.			Equity	4,108	176,890	0.037%
JNLMorningstar U.S. Sustainability Index Fund	Linde Public Limited Company			Equity	9,515	4,537,323	0.939%
JNLMorningstar U.S. Sustainability Index Fund	Kenvue Inc.			Equity	34,152	789,936	0.163%
JNLMorningstar U.S. Sustainability Index Fund	Liberty Media Corporation			Equity	543	38,841	0.008%
JNLMorningstar U.S. Sustainability Index Fund	Liberty Media Corporation			Equity	4,293	332,407	0.069%
JNLMorningstar U.S. Sustainability Index Fund	The Cooper Companies, Inc.			Equity	3,910	431,429	0.089%
JNLMorningstar U.S. Sustainability Index Fund	Labcorp Holdings Inc.			Equity	1,672	373,659	0.077%
JNLMorningstar U.S. Sustainability Index Fund	Smurfit Westrock Public Limited Company			Equity	9,921	490,296	0.101%
JNLMorningstar U.S. Sustainability Index Fund	Ferguson Enterprises Inc.			Equity	3,985	794,450	0.164%
JNLMorningstar U.S. Sustainability Index Fund	Sirius XM Holdings Inc.			Equity	4,664	110,304	0.023%
JNLMorningstar U.S. Sustainability Index Fund	Te Connectivity Public Limited Company			Equity	6,049	913,339	0.189%
Total Non Derivatives						463,123,278	
Derivatives							
JNLMorningstar U.S. Sustainability Index Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	8	41,876	0.009%
Total Derivatives						41,876	
Total All Investments						463,165,154	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLMorningstar Wide Moat Index Fund	Cash			Cash Equivalent	570.737	570.737	0.040%
JNLMorningstar Wide Moat Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	3,713.845	3,736.960	0.260%
JNLMorningstar Wide Moat Index Fund	GE HealthCare Technologies Inc.			Equity	195.514	18,348.989	1.276%
JNLMorningstar Wide Moat Index Fund	Comcast Corporation			Equity	425.159	17,758.891	1.235%
JNLMorningstar Wide Moat Index Fund	Adobe Inc.			Equity	63.584	32,922.524	2.289%
JNLMorningstar Wide Moat Index Fund	Boeing Company, The			Equity	191.998	29,101.375	2.030%
JNLMorningstar Wide Moat Index Fund	Autodesk, Inc.			Equity	136.716	37,662.524	2.619%
JNLMorningstar Wide Moat Index Fund	Bristol-Myers Squibb Company			Equity	730.939	37,818.784	2.630%
JNLMorningstar Wide Moat Index Fund	Honeywell International Inc.			Equity	83.547	17,270.000	1.201%
JNLMorningstar Wide Moat Index Fund	Bio-Rad Laboratories, Inc.			Equity	110.393	36,935.290	2.588%
JNLMorningstar Wide Moat Index Fund	Brown-Forman Corporation			Equity	744.582	36,715.324	2.553%
JNLMorningstar Wide Moat Index Fund	Amazon.com, Inc.			Equity	92.385	17,214.097	1.197%
JNLMorningstar Wide Moat Index Fund	Air Products and Chemicals, Inc.			Equity	61.384	18,276.472	1.271%
JNLMorningstar Wide Moat Index Fund	IDEX Corporation			Equity	86.475	18,548.988	1.290%
JNLMorningstar Wide Moat Index Fund	The Clorox Company			Equity	123.586	20,133.395	1.400%
JNLMorningstar Wide Moat Index Fund	The Estee Lauder Companies Inc.			Equity	342.099	34,103.849	2.371%
JNLMorningstar Wide Moat Index Fund	Campbell Soup Company			Equity	733.178	35,867.068	2.494%
JNLMorningstar Wide Moat Index Fund	International Flavors & Fragrances Inc.			Equity	328.543	34,623.812	2.408%
JNLMorningstar Wide Moat Index Fund	Gilead Sciences, Inc.			Equity	459.179	38,497.567	2.677%
JNLMorningstar Wide Moat Index Fund	Walt Disney Company, The			Equity	350.841	33,747.396	2.347%
JNLMorningstar Wide Moat Index Fund	Equifax Inc.			Equity	65.123	19,137.045	1.331%
JNLMorningstar Wide Moat Index Fund	Salesforce, Inc.			Equity	134.791	36,920.843	2.587%
JNLMorningstar Wide Moat Index Fund	Emerson Electric Co.			Equity	315.929	34,553.155	2.403%
JNLMorningstar Wide Moat Index Fund	Masco Corporation			Equity	231.370	19,421.198	1.360%
JNLMorningstar Wide Moat Index Fund	U.S. Bancorp			Equity	788.119	36,434.741	2.533%
JNLMorningstar Wide Moat Index Fund	Lam Research Corporation			Equity	22.230	18,141.458	1.261%
JNLMorningstar Wide Moat Index Fund	Zimmer Biomet Holdings, Inc.			Equity	310.060	33,545.391	2.333%
JNLMorningstar Wide Moat Index Fund	United Parcel Service, Inc.			Equity	132.660	18,086.864	1.258%
JNLMorningstar Wide Moat Index Fund	Agilent Technologies, Inc.			Equity	241.693	35,886.577	2.495%
JNLMorningstar Wide Moat Index Fund	Altria Group, Inc.			Equity	673.057	35,109.555	2.441%
JNLMorningstar Wide Moat Index Fund	Rockwell Automation, Inc.			Equity	61.843	18,602.372	1.154%
JNLMorningstar Wide Moat Index Fund	Pfizer Inc.			Equity	1,150.938	33,308.146	2.316%
JNLMorningstar Wide Moat Index Fund	Charles Schwab Corporation, The			Equity	268.835	17,423.196	1.212%
JNLMorningstar Wide Moat Index Fund	Microchip Technology Incorporated			Equity	220.101	17,671.909	1.229%
JNLMorningstar Wide Moat Index Fund	Microsoft Corporation			Equity	40.296	17,539.369	1.206%
JNLMorningstar Wide Moat Index Fund	NIKE, Inc.			Equity	386.434	34,287.073	2.384%
JNLMorningstar Wide Moat Index Fund	Northrop Grumman Corporation			Equity	37.536	19,821.636	1.378%
JNLMorningstar Wide Moat Index Fund	Thermo Fisher Scientific Inc.			Equity	27.851	17,238.655	1.199%
JNLMorningstar Wide Moat Index Fund	Starbucks Corporation			Equity	190.326	18,564.882	1.290%
JNLMorningstar Wide Moat Index Fund	Waters Corporation			Equity	53.045	19,090.365	1.327%
JNLMorningstar Wide Moat Index Fund	Teradyne, Inc.			Equity	129.624	17,360.542	1.207%
JNLMorningstar Wide Moat Index Fund	MarketAxess Holdings Inc.			Equity	146.564	37,549.697	2.611%
JNLMorningstar Wide Moat Index Fund	NXP Semiconductors N.V.			Equity	73.837	17,771.618	1.232%
JNLMorningstar Wide Moat Index Fund	Huntington Ingalls Industries, Inc.			Equity	132.327	34,984.612	2.433%
JNLMorningstar Wide Moat Index Fund	Fortinet, Inc.			Equity	260.253	20,182.620	1.403%
JNLMorningstar Wide Moat Index Fund	Workday, Inc.			Equity	75.344	18,414.827	1.280%
JNLMorningstar Wide Moat Index Fund	Veeva Systems Inc.			Equity	159.520	33,478.462	2.328%
JNLMorningstar Wide Moat Index Fund	Allegion Public Limited Company			Equity	255.916	37,297.198	2.593%
JNLMorningstar Wide Moat Index Fund	TransUnion			Equity	386.213	40,436.501	2.812%
JNLMorningstar Wide Moat Index Fund	ETSY, Inc.			Equity	254.414	14,127.609	0.982%
JNLMorningstar Wide Moat Index Fund	Alphabet Inc.			Equity	112.773	18,703.402	1.301%
JNLMorningstar Wide Moat Index Fund	Keysight Technologies, Inc.			Equity	114.474	18,193.353	1.265%
JNLMorningstar Wide Moat Index Fund	Corteva, Inc.			Equity	616.397	36,237.980	2.520%
JNLMorningstar Wide Moat Index Fund	RTX Corporation			Equity	150.167	18,194.234	1.265%
JNLMorningstar Wide Moat Index Fund	Citi Worldwide Corporation			Equity	184.310	19,157.181	1.332%
JNLMorningstar Wide Moat Index Fund	Kenvue Inc.			Equity	1,621.752	37,511.124	2.608%
Total Non Derivatives						1,438,068,333	
Derivatives							
JNLMorningstar Wide Moat Index Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	19	80.820	0.006%
Total Derivatives						80.820	
Total All Investments						1,438,149,153	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager Alternative Fund	Cash			Cash Equivalent	63,469,816	63,469,816	8.276%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,495,017	1,501,567	0.196%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,692,913	2,705,144	0.353%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	50,667,141	50,876,197	6.634%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,756,964	4,775,275	0.633%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	13,954,202	14,014,608	1.827%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	27,493,860	27,571,321	3.595%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	3,790,887	3,814,954	0.497%
JNL Multi-Manager Alternative Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,341,325	1,348,628	0.176%
JNL Multi-Manager Alternative Fund	Wind River 2018-2 CLO Ltd.	7/15/2030	11.31	Fixed Income	500,000	478,397	0.624%
JNL Multi-Manager Alternative Fund	Pharming Group N.V.			Equity	-201,703	(168,969)	-0.022%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	11/25/2050		Fixed Income	7,020,654	385,504	0.050%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	10/20/2050	1.22	Fixed Income	2,862,066	365,170	0.048%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	11/25/2050		Fixed Income	5,098,672	294,088	0.037%
JNL Multi-Manager Alternative Fund	GCM Grosvenor Inc.	11/17/2025		Equity	39,911	39,113	0.005%
JNL Multi-Manager Alternative Fund	Traverse Therapeutics, Inc.			Equity	-7,512	(105,093)	-0.014%
JNL Multi-Manager Alternative Fund	Eurofins Scientific SE			Equity	4,129	260,832	0.034%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	2/25/2031	1.40	Fixed Income	3,445,255	179,672	0.023%
JNL Multi-Manager Alternative Fund	Abu Dhabi Islamic Bank			Equity	129,206	447,566	0.058%
JNL Multi-Manager Alternative Fund	Celsius Holdings, Inc.			Equity	51,103	1,602,590	0.209%
JNL Multi-Manager Alternative Fund	Baldwin Insurance Group, Inc., The			Equity	-46,286	(2,305,043)	-0.301%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	8/15/2042	13.07	Fixed Income	128,565	74,570	0.010%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	12/15/2042		Fixed Income	92,000	45,383	0.006%
JNL Multi-Manager Alternative Fund	Pebblebrook Hotel Trust	12/15/2026	1.75	Fixed Income	1,628,000	1,490,550	0.194%
JNL Multi-Manager Alternative Fund	Yang Ming Marine Transport Corporation			Equity	95,000	208,356	0.027%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	12/18/2062	0.98	Fixed Income	4,669,963	349,613	0.046%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	12/20/2050	1.22	Fixed Income	2,274,132	353,916	0.046%
JNL Multi-Manager Alternative Fund	Summit Hotel Properties, Inc.	2/15/2026	1.50	Fixed Income	901,000	848,271	0.111%
JNL Multi-Manager Alternative Fund	Apidos CLO XXIV	10/21/2030	11.34	Fixed Income	500,000	511,446	0.067%
JNL Multi-Manager Alternative Fund	The Union Group Public Company Limited			Equity	458,400	207,988	0.027%
JNL Multi-Manager Alternative Fund	Vactor Group Ltd.	2/1/2029	5.75	Fixed Income	1,088,000	1,114,235	0.145%
JNL Multi-Manager Alternative Fund	Repay Holdings Corporation	2/1/2026		Fixed Income	1,667,000	1,514,568	0.197%
JNL Multi-Manager Alternative Fund	McDermott International, Ltd.			Equity	317	58,599	0.008%
JNL Multi-Manager Alternative Fund	Madison Park Funding XLVIII Ltd	4/19/2033	11.79	Fixed Income	1,000,000	1,025,978	0.134%
JNL Multi-Manager Alternative Fund	Danimer Scientific, Inc.			Equity	52,661	193,961	0.025%
JNL Multi-Manager Alternative Fund	MongoDB, Inc.	1/15/2026	0.25	Fixed Income	2,129,000	2,939,404	0.383%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/20/2050	1.22	Fixed Income	2,478,337	398,105	0.052%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	8/25/2050	0.76	Fixed Income	2,142,193	299,550	0.039%
JNL Multi-Manager Alternative Fund	Vol. I XCL, LLC	2/27/2051	4.95	Fixed Income	2,075,467	2,040,408	0.266%
JNL Multi-Manager Alternative Fund	LCM XVII Limited Partnership	10/15/2031	11.56	Fixed Income	500,000	400,786	0.052%
JNL Multi-Manager Alternative Fund	Just Eat Takeaway.Com N.V.	4/30/2026	1.25	Fixed Income	800,000	841,915	0.110%
JNL Multi-Manager Alternative Fund	Delivery Hero SE	11/15/2028	1.50	Fixed Income	100,000	94,885	0.012%
JNL Multi-Manager Alternative Fund	SMB Private Education Loan Trust 2021-A	3/15/2053		Fixed Income	484	1,119,963	0.146%
JNL Multi-Manager Alternative Fund	AMS-Osram AG	11/30/2027	2.13	Fixed Income	800,000	722,229	0.094%
JNL Multi-Manager Alternative Fund	Chesapeake Energy Corporation			Equity	-520	(42,770)	-0.006%
JNL Multi-Manager Alternative Fund	Catalent Pharma Solutions, Inc.	2/15/2029	3.13	Fixed Income	793,000	782,409	0.102%
JNL Multi-Manager Alternative Fund	Constant Contact Inc.	2/10/2029		Fixed Income	360,000	339,282	0.044%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	8/25/2048	0.86	Fixed Income	2,279,678	240,318	0.031%
JNL Multi-Manager Alternative Fund	Meridian Management Ltd			Equity	38,376	0	0.000%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	8/20/2048		Fixed Income	2,193,399	108,768	0.014%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	9/20/2050	1.22	Fixed Income	2,541,546	365,422	0.047%
JNL Multi-Manager Alternative Fund	Charles Schwab Corporation, The	1/1/2200	4.00	Fixed Income	242,000	232,815	0.030%
JNL Multi-Manager Alternative Fund	Indiv. Inc.			Equity	-18,702	(31,793)	-0.004%
JNL Multi-Manager Alternative Fund	McDermott International, Ltd.			Equity	52,019	8,687	0.001%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	4/16/2063	0.72	Fixed Income	4,566,058	247,958	0.032%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	8/20/2048	1.17	Fixed Income	1,367,136	161,125	0.021%
JNL Multi-Manager Alternative Fund	Hikma Pharmaceuticals Public Limited Company			Equity	15,498	396,795	0.052%
JNL Multi-Manager Alternative Fund	Progress Residential 2021-SFR2 Trust	4/1/2026	4.25	Fixed Income	4,000,000	3,930,975	0.513%
JNL Multi-Manager Alternative Fund	Crucik, Inc.			Equity	-194,753	(1,349,638)	-0.176%
JNL Multi-Manager Alternative Fund	QCLP Trust 2021-NYC	5/1/2031	3.70	Fixed Income	375,000	250,909	0.033%
JNL Multi-Manager Alternative Fund	Mirum Pharmaceuticals, Inc.			Equity	-4,662	(181,818)	-0.024%
JNL Multi-Manager Alternative Fund	Coimbase Global, Inc.			Equity	-244	(43,473)	-0.006%
JNL Multi-Manager Alternative Fund	Health Catalyst, Inc.	4/15/2025	2.50	Fixed Income	1,534,000	1,512,494	0.197%
JNL Multi-Manager Alternative Fund	Cohesus Biosciences, Inc.	4/15/2026	1.50	Fixed Income	935,000	732,324	0.095%
JNL Multi-Manager Alternative Fund	JAMF Holding Corp.			Equity	-1,466	(25,435)	-0.003%
JNL Multi-Manager Alternative Fund	GS Mortgage Securities Trust 2015-GC28	2/12/2048	4.53	Fixed Income	800,000	766,117	0.100%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	7/20/2048	1.12	Fixed Income	1,384,059	157,524	0.021%
JNL Multi-Manager Alternative Fund	Hyundai Rotem Company			Equity	14,968	619,033	0.081%
JNL Multi-Manager Alternative Fund	Rockland Park Limited	4/20/2034	11.79	Fixed Income	500,000	512,018	0.067%
JNL Multi-Manager Alternative Fund	Endeavor Group Holdings, Inc.			Equity	214,652	613,041	0.799%
JNL Multi-Manager Alternative Fund	Goal Acquisitions Corp.	2/1/2026		Equity	45,463	455	0.000%
JNL Multi-Manager Alternative Fund	Frontier Communications Parent, Inc.			Equity	1,836	65,233	0.009%
JNL Multi-Manager Alternative Fund	Topgolf Callaway Brands Corp.	5/1/2026	2.75	Fixed Income	629,000	668,197	0.086%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	5/25/2029	0.44	Fixed Income	8,936,136	113,779	0.015%
JNL Multi-Manager Alternative Fund	Vornado Realty LP	6/1/2026	2.15	Fixed Income	112,000	107,191	0.014%
JNL Multi-Manager Alternative Fund	StorageHub Canada Inc.			Equity	-29,975	(99,350)	-0.013%
JNL Multi-Manager Alternative Fund	Sound Point CLO XXX Ltd	7/1/2034	12.03	Fixed Income	500,000	441,615	0.058%
JNL Multi-Manager Alternative Fund	Seagate Technology Holdings Public Limited Company			Equity	61,639	(6,794,467)	-0.886%
JNL Multi-Manager Alternative Fund	Seagate Technology Holdings Public Limited Company			Equity	-2,361	(259,486)	-0.034%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	8/20/2050		Fixed Income	3,894,226	177,812	0.023%
JNL Multi-Manager Alternative Fund	Gulfport Energy Operating Corporation			Equity	2,625	442,699	0.058%
JNL Multi-Manager Alternative Fund	Gulfport Energy Operating Corporation		10.00	Equity	11	4,397	0.001%
JNL Multi-Manager Alternative Fund	Elmwood CLO IX Ltd	7/20/2034	11.49	Fixed Income	500,000	513,868	0.067%
JNL Multi-Manager Alternative Fund	Group Commercial Chedrau, S.A.B. de C.V.			Equity	63,800	47,868	0.062%
JNL Multi-Manager Alternative Fund	Shift Technologies, Inc.	5/15/2026	4.75	Fixed Income	1,395,000	6,526	0.001%
JNL Multi-Manager Alternative Fund	Pepco Group N.V.			Equity	57,672	308,672	0.040%
JNL Multi-Manager Alternative Fund	Milos CLO, Ltd.	10/21/2030	11.69	Fixed Income	500,000	512,055	0.067%
JNL Multi-Manager Alternative Fund	Neuberger Berman Loan Advisers CLO 34, Ltd.	7/21/2031	11.29	Fixed Income	500,000	512,218	0.067%
JNL Multi-Manager Alternative Fund	CPA Credit Funding S Ltd	10/1/2035		Fixed Income	1,000,000	1,000,768	0.134%
JNL Multi-Manager Alternative Fund	JPMBB Commercial Mortgage Securities Trust 2014-C24	11/18/2047	0.93	Fixed Income	3,501,140	3,426	0.000%
JNL Multi-Manager Alternative Fund	PetIQ, Inc.	6/1/2026	4.00	Fixed Income	229,000	268,799	0.035%
JNL Multi-Manager Alternative Fund	Yunnan Yunlinhua Co., Ltd.			Equity	308,900	990,510	0.129%
JNL Multi-Manager Alternative Fund	SoFi Technologies, Inc.			Equity	-97,092	(763,143)	-0.099%
JNL Multi-Manager Alternative Fund	BX Trust 2021-MFM1	6/16/2036	8.11	Fixed Income	220,000	211,459	0.028%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	6/25/2029	0.68	Fixed Income	7,903,857	152,797	0.020%
JNL Multi-Manager Alternative Fund	O-Si Operations Inc.	6/10/2026		Equity	13,237	908	0.000%
JNL Multi-Manager Alternative Fund	Traverse Therapeutics, Inc.	11/15/2025	2.50	Fixed Income	209,000	194,549	0.025%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	12/15/2042		Fixed Income	119,115	67,376	0.009%
JNL Multi-Manager Alternative Fund	Leland Finance Company B.V.	6/30/2027	10.09	Fixed Income	381,217	259,865	0.034%
JNL Multi-Manager Alternative Fund	PREMF 2018-KF56 Mortgage Trust	11/25/2028	11.26	Fixed Income	245,982	231,674	0.030%
JNL Multi-Manager Alternative Fund	Madison Park Funding XLV Ltd	7/1/2034	11.81	Fixed Income	500,000	513,566	0.067%
JNL Multi-Manager Alternative Fund	Mara Holdings, Inc.			Equity	-11,274	(182,864)	-0.024%
JNL Multi-Manager Alternative Fund	Upstart Holdings, Inc.			Equity	-10,383	(415,424)	-0.054%
JNL Multi-Manager Alternative Fund	Vares Imaging Corporation	6/1/2025	4.00	Fixed Income	1,809,000	1,821,881	0.238%
JNL Multi-Manager Alternative Fund	Dowmy, Inc.			Equity	76,763	3,344,564	0.436%
JNL Multi-Manager Alternative Fund	Northern Revival Acquisition Corp			Equity	10,743	121,421	0.016%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	6/20/2051		Fixed Income	8,780,500	131,005	0.017%
JNL Multi-Manager Alternative Fund	Evert Holdings Inc.	7/15/2029	5.00	Fixed Income	792,000	797,016	0.104%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	6/20/2051		Fixed Income	6,074,876	126,376	0.016%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	3/1/2030	3.00	Fixed Income	1,478,010	1,437,960	0.187%
JNL Multi-Manager Alternative Fund	Ryan Specialty Group Holdings, Inc.			Equity	55,483	3,683,516	0.480%
JNL Multi-Manager Alternative Fund	Wells Fargo Commercial Mortgage Trust 2017-RC1	3/1/2027	3.25	Fixed Income	484,000	379,552	0.049%
JNL Multi-Manager Alternative Fund	Wayfair Inc.	10/1/2025	0.63	Fixed Income	1,025,000	1,114,726	0.145%
JNL Multi-Manager Alternative Fund	Wayfair Inc.	10/1/2025	0.63	Fixed Income	2,795,000	2,691,116	0.351%
JNL Multi-Manager Alternative Fund	Fisker Group Inc.	9/15/2026	2.50	Fixed Income	2,160,000	54,000	0.007%
JNL Multi-Manager Alternative Fund	Neuberger Berman Loan Advisers CLO 44, Ltd.	10/16/2034	11.55	Fixed Income	500,000	513,875	0.067%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	6/20/2051		Fixed Income	3,442,440	117,009	0.015%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	1/1/2033	3.24	Fixed Income	1,111,879	1,052,909	0.137%
JNL Multi-Manager Alternative Fund	Citigroup Commercial Mortgage Trust 2018-B2	3/10/2051	1.56	Fixed Income	2,521,590	105,876	0.014%
JNL Multi-Manager Alternative Fund	Capri Lietro	8/26/2026		Equity	30,652	0	0.000%
JNL Multi-Manager Alternative Fund	Bank 2019-BNK17	4/1/2052	1.50	Fixed Income	1,978,000	103,011	0.013%
JNL Multi-Manager Alternative Fund	CF 2019-CF2 Mortgage Trust	11/18/2052	1.06	Fixed Income	3,079,600	114,709	0.015%
JNL Multi-Manager Alternative Fund	Shinhan Financial Group Co., Ltd.			Equity	8,179	346,544	0.045%
JNL Multi-Manager Alternative Fund	Sea Limited	9/15/2026	0.25	Fixed Income	101,000	91,157	0.012%
JNL Multi-Manager Alternative Fund	Porch Group Inc.	9/15/2026	0.75	Fixed Income	1,049,000	498,242	0.065%
JNL Multi-Manager Alternative Fund	Upstart Securitization Trust 2021-4	9/20/2031	3.19	Fixed Income	500,000	479,771	0.063%
JNL Multi-Manager Alternative Fund	Thryv Holdings, Inc.			Equity	-45,171	(778,296)	-0.101%
JNL Multi-Manager Alternative Fund	Pacira Pharmaceuticals, Inc.	8/1/2025	0.75	Fixed Income	890,000	844,034	0.110%
JNL Multi-Manager Alternative Fund	Monetly Technologies Inc.	9/22/2026		Equity	40,481	1,882	0.000%
JNL Multi-Manager Alternative Fund	Catalent Pharma Solutions, Inc.	4/1/2030	3.50	Fixed Income	774,000	774,000	0.100%
JNL Multi-Manager Alternative Fund	Stanwood Mortgage Residential Trust 2021-4	8/25/2055	3.98	Fixed Income	3,767,000	2,942,875	0.384%
JNL Multi-Manager Alternative Fund	Cleanwater Analytics Holdings, Inc.			Equity	152,895	3,860,590	0.503%
JNL Multi-Manager Alternative Fund	Parsons Corporation	8/15/2025	0.25	Fixed Income	837,000	1,912,025	0.249%
JNL Multi-Manager Alternative Fund	ALEN 2021-ACEN Mortgage Trust	4/1/2034	9.21	Fixed Income	819,000	435,329	0.057%
JNL Multi-Manager Alternative Fund	Abot Multifamily Mortgage Securities Trust 2021-MF3	10/16/2054	2.00	Fixed Income	275,000	1,990,905	0.259%
JNL Multi-Manager Alternative Fund	Morgan Stanley Capital I Trust 2016-UBS11	8/17/2049	1.57	Fixed Income	14,538,298	311,181	0.041%
JNL Multi-Manager Alternative Fund	SoFi Technologies, Inc.			Fixed Income	752,000	681,735	0.089%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	9/20/2051		Fixed Income	5,056,996	199,980	0.026%
JNL Multi-Manager Alternative Fund	CCM 2018-HCLV Mortgage Trust	9/20/2051	7.57	Fixed Income	1,000,000	451,215	0.059%
JNL Multi-Manager Alternative Fund	Upstart Pass-Through Trust Series 2021-ST9	11/20/2029		Fixed Income	1,500,000	499,467	0.06

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Leasand Finance Company B.V.	12/31/2049		Fixed Income	196,627	110,111	0.014%
JNL Multi-Manager Alternative Fund	SC Residential Mortgage Trust 2021-2	12/25/2061	4.04	Fixed Income	4,191,000	2,940,670	0.362%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	9/20/2070	1.36	Fixed Income	5,938,074	444,339	0.058%
JNL Multi-Manager Alternative Fund	Castlake Aircraft Securitization Trust 2018-1	6/15/2025	6.63	Fixed Income	965,601	288,893	0.038%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	1/1/2028	3.26	Fixed Income	1,435,553	1,406,683	0.183%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	11/25/2042		Fixed Income		811,084	0.046%
JNL Multi-Manager Alternative Fund	Carlyle US CLO 2020-3, Ltd.	1/25/2035	12.25	Fixed Income	1,500,000	1,537,071	0.200%
JNL Multi-Manager Alternative Fund	Reese Park CLO, Ltd.	10/16/2034	12.06	Fixed Income	500,000	513,238	0.067%
JNL Multi-Manager Alternative Fund	Sound Point CLO XX001 Ltd	10/25/2034	12.25	Fixed Income	500,000	468,319	0.061%
JNL Multi-Manager Alternative Fund	Astra Acquisition Corp.	10/22/2029	14.47	Fixed Income	404,875	40,650	0.005%
JNL Multi-Manager Alternative Fund	Pavaya AI Debt Selection Trust 2021-5	8/15/2029		Fixed Income	760,000	32,384	0.004%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	1/25/2051		Fixed Income	7,095,350	317,462	0.041%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/20/2051		Fixed Income	14,339,469	170,631	0.022%
JNL Multi-Manager Alternative Fund	Bain Capital Credit CLO 2019-3, Limited	10/23/2034	12.64	Fixed Income	500,000	510,082	0.067%
JNL Multi-Manager Alternative Fund	Slam Corp.			Equity	21,698	241,716	0.030%
JNL Multi-Manager Alternative Fund	Octagon Investment Partners 40 Ltd.	1/20/2035	12.54	Fixed Income	1,000,000	962,971	0.126%
JNL Multi-Manager Alternative Fund	Benchmark 2021-B31 Mortgage Trust	12/17/2054	2.25	Fixed Income	617,000	341,318	0.045%
JNL Multi-Manager Alternative Fund	HashCorp, Inc.			Equity	133,965	4,536,955	0.591%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	5/20/2071	0.13	Fixed Income	21,007,489	525,272	0.068%
JNL Multi-Manager Alternative Fund	Coloqix Data Centers US Issuer LLC	12/28/2026	5.99	Fixed Income	1,500,000	1,400,987	0.183%
JNL Multi-Manager Alternative Fund	Vision Solutions, Inc.	4/24/2028	9.51	Fixed Income	32,417	32,036	0.004%
JNL Multi-Manager Alternative Fund	GS Mortgage Securities Trust 2021-GS43	12/17/2054	1.53	Fixed Income	3,608,000	271,987	0.035%
JNL Multi-Manager Alternative Fund	Danmer Scientific, Inc.	12/15/2026	3.25	Fixed Income	440,000	56,305	0.007%
JNL Multi-Manager Alternative Fund	Corporation Nuvei			Equity	33,763	1,125,996	0.147%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	12/20/2051		Fixed Income	8,566,128	287,343	0.037%
JNL Multi-Manager Alternative Fund	RingCentral, Inc.	3/1/2025		Fixed Income	524,000	508,036	0.066%
JNL Multi-Manager Alternative Fund	GS Mortgage Securities Trust 2018-GS9	3/1/2028	3.00	Fixed Income	1,000,000	753,499	0.098%
JNL Multi-Manager Alternative Fund	Cathay Pacific Airways Limited	2/5/2026	2.75	Fixed Income	20,000,000	2,794,316	0.364%
JNL Multi-Manager Alternative Fund	Aveanna Healthcare, LLC	12/8/2029	12.21	Fixed Income	195,365	185,398	0.024%
JNL Multi-Manager Alternative Fund	Guardant Health, Inc.	11/15/2027		Fixed Income	252,000	201,364	0.026%
JNL Multi-Manager Alternative Fund	nCruc OnCo, Inc.			Equity	143,984	4,548,391	0.592%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	11/25/2031	0.66	Fixed Income	12,639,445	243,886	0.032%
JNL Multi-Manager Alternative Fund	Connecticut Avenue Securities Trust 2021-R01	12/26/2041	11.28	Fixed Income	1,250,000	1,317,054	0.172%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	12/20/2051		Fixed Income	7,930,322	164,294	0.021%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/20/2071	0.96	Fixed Income	7,502,987	501,524	0.065%
JNL Multi-Manager Alternative Fund	Dalaccho, Inc.	6/15/2025	0.13	Fixed Income	1,514,400	1,973,298	0.257%
JNL Multi-Manager Alternative Fund	Hennessy Capital Investment Corp. VI			Equity	776	8,940	0.001%
JNL Multi-Manager Alternative Fund	Vista Outdoor Inc.	3/15/2029	4.50	Fixed Income	298,000	286,663	0.037%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	2/25/2029	0.61	Fixed Income	1,013,459	216,283	0.028%
JNL Multi-Manager Alternative Fund	Com'l Public Company Limited			Equity	893,210	697,731	0.078%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	5/25/2030	0.27	Fixed Income	34,805,000	314,589	0.041%
JNL Multi-Manager Alternative Fund	Bloom Energy Corporation	8/15/2025	2.50	Fixed Income	1,004,000	1,030,147	0.134%
JNL Multi-Manager Alternative Fund	Traverse Therapeutics, Inc.	3/1/2029	2.25	Fixed Income	397,000	339,724	0.044%
JNL Multi-Manager Alternative Fund	Delivery Hero SE	1/23/2027	1.03	Fixed Income	1,380,000	1,310,897	0.173%
JNL Multi-Manager Alternative Fund	Veco Instruments Inc.	6/1/2027	3.75	Fixed Income	352,000	851,844	0.111%
JNL Multi-Manager Alternative Fund	ManKind Corporation	3/1/2026	2.50	Fixed Income	1,864,000	2,473,830	0.323%
JNL Multi-Manager Alternative Fund	Spotify USA Inc.	3/15/2026		Fixed Income	878,000	869,087	0.113%
JNL Multi-Manager Alternative Fund	Connecticut Avenue Securities Trust 2022-R03	3/25/2042	15.13	Fixed Income	1,000,000	1,142,838	0.149%
JNL Multi-Manager Alternative Fund	THL Credit Wind River 2014-3 CLO Ltd	10/22/2031	11.76	Fixed Income	500,000	436,934	0.057%
JNL Multi-Manager Alternative Fund	Blackstone Mortgage Trust, Inc.	3/15/2027	5.50	Fixed Income	126,000	119,707	0.016%
JNL Multi-Manager Alternative Fund	DK Crown Holdings Inc.	3/15/2028		Fixed Income	124,000	107,715	0.014%
JNL Multi-Manager Alternative Fund	Compass, Inc.			Equity	126,947	175,646	0.023%
JNL Multi-Manager Alternative Fund	Mitek Systems, Inc.	2/1/2026	0.75	Fixed Income	1,124,000	1,044,694	0.136%
JNL Multi-Manager Alternative Fund	Redfin Corporation	4/1/2027	0.50	Fixed Income	728,000	534,048	0.070%
JNL Multi-Manager Alternative Fund	Earthstone Energy Holdings, LLC	4/15/2027	8.00	Fixed Income	214,000	228,232	0.030%
JNL Multi-Manager Alternative Fund	The Greenletter Company, Inc.	4/15/2028	2.88	Fixed Income	1,873,000	2,068,026	0.270%
JNL Multi-Manager Alternative Fund	Bain Capital Credit CLO 2022-3, Limited	7/17/2035	12.64	Fixed Income	500,000	513,451	0.067%
JNL Multi-Manager Alternative Fund	Century Aluminum Company	5/1/2028	2.75	Fixed Income	174,000	194,491	0.025%
JNL Multi-Manager Alternative Fund	Galaxy XIX CLO, Ltd.	7/24/2030	12.07	Fixed Income	500,000	503,785	0.066%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/16/2064	0.71	Fixed Income	7,452,700	450,501	0.059%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	12/25/2024	0.50	Fixed Income	182,692,854	176,258	0.002%
JNL Multi-Manager Alternative Fund	Snap Inc.	5/1/2027		Fixed Income	50,000	42,627	0.006%
JNL Multi-Manager Alternative Fund	DK Crown Holdings Inc.			Equity	-507	(19,874)	-0.003%
JNL Multi-Manager Alternative Fund	Bausch & Lomb Corporation	12/31/2049		Fixed Income	931,000	926,699	0.121%
JNL Multi-Manager Alternative Fund	Haned Chemical Co., Ltd.			Equity	4,574	473,331	0.061%
JNL Multi-Manager Alternative Fund	Chunbo Co., Ltd.			Equity	4,392	203,484	0.027%
JNL Multi-Manager Alternative Fund	Aspen Technology, Inc.			Equity	13,062	3,119,467	0.407%
JNL Multi-Manager Alternative Fund	Dynatrace Technologies Corporation	5/15/2026	2.50	Fixed Income	2,765,000	3,371,998	0.440%
JNL Multi-Manager Alternative Fund	Wells Fargo & Company	3/17/2026	3.12	Fixed Income	470,000	472,293	0.061%
JNL Multi-Manager Alternative Fund	BBKMS Trust 2018-CBM	7/15/2037	8.69	Fixed Income	470,000	441,531	0.058%
JNL Multi-Manager Alternative Fund	Grove Collaborative Holdings, Inc.	6/16/2027		Equity	3,626	71	0.000%
JNL Multi-Manager Alternative Fund	Livent Corporation	7/15/2025	4.13	Fixed Income	780,000	851,641	0.111%
JNL Multi-Manager Alternative Fund	R1 RCM Holdco Inc.			Equity	8,623	63,265	0.008%
JNL Multi-Manager Alternative Fund	Shift Payments, LLC	12/15/2025		Fixed Income	752,000	920,448	0.120%
JNL Multi-Manager Alternative Fund	Enphysis Acquisition Corp.			Equity	39,957	441,525	0.058%
JNL Multi-Manager Alternative Fund	Pershing Square Tonline Holdings, Ltd.			Equity	5,051	0	0.000%
JNL Multi-Manager Alternative Fund	Pershing Square Tonline Holdings, Ltd.			Equity	29,869	0	0.000%
JNL Multi-Manager Alternative Fund	Wayfair Inc.	8/15/2026	1.00	Fixed Income	57,000	53,394	0.007%
JNL Multi-Manager Alternative Fund	Wayfair Inc.	8/15/2026	1.00	Fixed Income	1,002,000	936,609	0.122%
JNL Multi-Manager Alternative Fund	ITAU Umbanco Holding SA			Equity	76,231	510,873	0.067%
JNL Multi-Manager Alternative Fund	Decktop Meat Operating, Inc.	5/15/2027	6.00	Fixed Income	229,000	203,925	0.027%
JNL Multi-Manager Alternative Fund	Zillow Group, Inc.	3/1/2026	1.38	Fixed Income	164,000	241,639	0.032%
JNL Multi-Manager Alternative Fund	Zillow Group, Inc.	5/15/2025	2.75	Fixed Income	23,000	25,819	0.003%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/20/2050	2.50	Fixed Income	5,267,218	749,317	0.098%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	6/20/2051	2.50	Fixed Income	3,858,877	714,880	0.092%
JNL Multi-Manager Alternative Fund	Oxia, Inc.	8/1/2025	0.13	Fixed Income	1,656,000	1,572,492	0.205%
JNL Multi-Manager Alternative Fund	PRKCM 2022-AFC2 Trust	8/25/2026	6.09	Fixed Income	2,000,000	2,010,557	0.262%
JNL Multi-Manager Alternative Fund	Cloudflare, Inc.	8/15/2026		Fixed Income	2,839,000	2,625,064	0.342%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	11/25/2050	3.00	Fixed Income	3,279,165	547,919	0.071%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	9/15/2051	2.50	Fixed Income	4,254,049	534,320	0.070%
JNL Multi-Manager Alternative Fund	Ampruss Technologies Operating, Inc.	9/14/2027		Equity	15,314	2,144	0.000%
JNL Multi-Manager Alternative Fund	TLGY Acquisition Corporation			Equity	13,935	160,810	0.021%
JNL Multi-Manager Alternative Fund	Slam Corp.	2/23/2026		Equity	2,641	396	0.000%
JNL Multi-Manager Alternative Fund	NEPI Rockcastle PLC			Equity	37,466	327,873	0.043%
JNL Multi-Manager Alternative Fund	Inotiv, Inc.	10/15/2027	3.25	Fixed Income	1,167,000	308,384	0.040%
JNL Multi-Manager Alternative Fund	Adella Inc.			Equity	-107,754	(1,283,350)	-0.167%
JNL Multi-Manager Alternative Fund	Carica Acquisition Corp.			Equity	5,535	63,265	0.008%
JNL Multi-Manager Alternative Fund	Transcass, Inc.	9/30/2029	4.63	Fixed Income	1,773,000	2,699,817	0.349%
JNL Multi-Manager Alternative Fund	Morgan Stanley Mortgage Loan Trust 2006-13ARX	10/25/2036	5.15	Fixed Income	4,166,700	1,265,210	0.165%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	1/15/2033		Fixed Income	431,627	390,088	0.051%
JNL Multi-Manager Alternative Fund	Lehman Mortgage Trust 2006-5	9/25/2036	5.47	Fixed Income	671,030	225,228	0.029%
JNL Multi-Manager Alternative Fund	Butech Acquisition Corp.			Equity	5,413	61,059	0.008%
JNL Multi-Manager Alternative Fund	DigitalOcean Holdings, Inc.	12/1/2026		Fixed Income	2,727,000	2,407,608	0.314%
JNL Multi-Manager Alternative Fund	NCL Corporation Ltd.	2/15/2027	1.13	Fixed Income	512,000	497,032	0.065%
JNL Multi-Manager Alternative Fund	Unity Software Inc.	11/15/2026		Fixed Income	676,000	604,864	0.079%
JNL Multi-Manager Alternative Fund	RCF Acquisition Corp.			Equity	17,495	184,195	0.025%
JNL Multi-Manager Alternative Fund	Cero Therapeutics Holdings, Inc.	2/1/2029		Equity	2,967	15	0.000%
JNL Multi-Manager Alternative Fund	Northern Star Investment Corp. IV	2/25/2028		Equity	764	2	0.000%
JNL Multi-Manager Alternative Fund	Akousis, Inc.	1/7/2031		Equity	14,398	7,199	0.001%
JNL Multi-Manager Alternative Fund	RingCentral, Inc.	3/15/2026		Fixed Income	547,000	496,963	0.065%
JNL Multi-Manager Alternative Fund	LATAM Airlines Group S.A.	10/15/2027	13.38	Fixed Income	1,444,000	1,679,240	0.219%
JNL Multi-Manager Alternative Fund	Vaso Holding Corporation	1/1/2026		Equity	9,957	66	0.000%
JNL Multi-Manager Alternative Fund	Getaround Operating, Inc.	3/9/2026		Equity	596	1	0.000%
JNL Multi-Manager Alternative Fund	ETZCORP, Inc.	12/15/2029	3.75	Fixed Income	753,000	917,119	0.120%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/20/2051	2.50	Fixed Income	4,694,155	668,320	0.087%
JNL Multi-Manager Alternative Fund	Investcorp Europe Acquisition Corp I			Equity	21,681	255,619	0.033%
JNL Multi-Manager Alternative Fund	Adani Wilmar Limited			Equity	120,270	502,867	0.066%
JNL Multi-Manager Alternative Fund	Ningbo Deye Technology Co., Ltd.			Equity	30,900	443,950	0.058%
JNL Multi-Manager Alternative Fund	Sea Limited	12/1/2025	2.38	Fixed Income	3,017,000	3,600,302	0.468%
JNL Multi-Manager Alternative Fund	ABIOMED, Inc.	1/7/2031		Equity	2,237	3,915	0.001%
JNL Multi-Manager Alternative Fund	StorageVault Canada Inc.	3/31/2028	5.00	Fixed Income	704,000	509,885	0.066%
JNL Multi-Manager Alternative Fund	Oca Acquisition Corp.			Equity	3,400	38,080	0.005%
JNL Multi-Manager Alternative Fund	Bill Holdings, Inc.	12/1/2025		Fixed Income	780,000	741,752	0.097%
JNL Multi-Manager Alternative Fund	Confluent, Inc.	1/15/2027		Fixed Income	223,000	197,126	0.026%
JNL Multi-Manager Alternative Fund	Fiwe9, Inc.	6/1/2025	0.50	Fixed Income	1,743,000	1,682,545	0.219%
JNL Multi-Manager Alternative Fund	Marble Point CLO XII Ltd.	7/16/2031	8.55	Fixed Income	500,000	508,666	0.066%
JNL Multi-Manager Alternative Fund	Escalier, Inc.	7/1/2025		Fixed Income	251,000	205,833	0.027%
JNL Multi-Manager Alternative Fund	O2 Holdings, Inc.	6/1/2026	0.75	Fixed Income	1,945,000	2,109,955	0.275%
JNL Multi-Manager Alternative Fund	LatAmGrowth SPAC			Equity	15,320	177,559	0.023%
JNL Multi-Manager Alternative Fund	Cartesian Growth Corporation II			Equity	37,907	434,414	0.057%
JNL Multi-Manager Alternative Fund	Metal Sky Star Acquisition Corp.			Equity	3,726	42,365	0.006%
JNL Multi-Manager Alternative Fund	Target Global Acquisition I Corp.	12/8/2026		Equity	5,919	445	0.000%
JNL Multi-Manager Alternative Fund	Volato Group, Inc.	12/4/2028		Equity	7,828	40	0.000%
JNL Multi-Manager Alternative Fund	Ross Acquisition Corp. II	2/1/2026		Equity	829	75	0.000%
JNL Multi-Manager Alternative Fund	Freightbox Ltd	12/3/2028		Equity	2,568	180	0.000%
JNL Multi-Manager Alternative Fund	ACE Securities Corp. Home Equity Loan Trust, Series 2006-CW1	2/25/2036	5.25	Fixed Income	1,744,620	1,463,329	0.191%
JNL Multi-Manager Alternative Fund	Velocity Commercial Capital Loan Trust 2018-2	3/25/2026	5.32	Fixed Income	185,761	158,597	0.021%
JNL Multi-Manager Alternative Fund	Velocity Commercial Capital Loan Trust 2018-2	6/25/2026	6.36	Fixed Income	107,352	90,305	0.012%
JNL Multi-Manager Alternative Fund	Velocity Commercial Capital Loan Trust 2018-2	8/25/2027	7.05	Fixed Income	239,819	197,402	0.026%
JNL Multi-Manager Alternative Fund	MongoDB, Inc.			Equity	-8,044	(2,174,696)	-0.284%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	9/20/2048	1.12	Fixed Income	1,672,746	201,857	0.026%
JNL Multi-Manager Alternative Fund	Charles Schwab Corporation, The	1/1/2200	5.00	Fixed Income	33,00		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Comcast Corporation			Equity	60,850	2,541,705	0.331%
JNL Multi-Manager Alternative Fund	Analog Devices, Inc.			Equity	12,147	2,705,975	0.350%
JNL Multi-Manager Alternative Fund	Boeing Company, The			Equity	56,062	8,523,666	1.111%
JNL Multi-Manager Alternative Fund	OPKO Health, Inc.			Equity	-535,014	(797,171)	-0.104%
JNL Multi-Manager Alternative Fund	Best Buy Co., Inc.			Equity	-52,282	(5,449,876)	-0.711%
JNL Multi-Manager Alternative Fund	AutoZone, Inc.			Equity	-965	(3,039,789)	-0.390%
JNL Multi-Manager Alternative Fund	Osi Systems, Inc.			Equity	-160	(24,293)	-0.033%
JNL Multi-Manager Alternative Fund	ANSYS, Inc.			Equity	2,330	742,408	0.097%
JNL Multi-Manager Alternative Fund	Bio-Rad Laboratories, Inc.			Equity	1,305	436,627	0.057%
JNL Multi-Manager Alternative Fund	Amazon.com, Inc.			Equity	75,179	14,008,103	1.827%
JNL Multi-Manager Alternative Fund	Amazon.com, Inc.			Equity	9,145	2,703,988	0.222%
JNL Multi-Manager Alternative Fund	Hess Corporation			Equity	101,648	13,803,798	1.800%
JNL Multi-Manager Alternative Fund	Home Depot, Inc., The			Equity	6,903	2,797,096	0.365%
JNL Multi-Manager Alternative Fund	Home Depot, Inc., The			Equity	-13,605	(5,512,146)	-0.719%
JNL Multi-Manager Alternative Fund	Chesapeake Factory Incorporated, The			Equity	-2,944	(119,379)	-0.016%
JNL Multi-Manager Alternative Fund	Marriott International, Inc.			Equity	3,455	858,913	0.112%
JNL Multi-Manager Alternative Fund	Moody's Corporation			Equity	8,666	4,112,797	0.538%
JNL Multi-Manager Alternative Fund	Diodes Incorporated			Equity	2,916	186,886	0.024%
JNL Multi-Manager Alternative Fund	CONMED Corporation			Equity	-1,947	(140,439)	-0.018%
JNL Multi-Manager Alternative Fund	Juniper Networks, Inc.			Equity	52,770	2,056,975	0.268%
JNL Multi-Manager Alternative Fund	The Greenbrier Companies, Inc.			Equity	-22,551	(1,147,620)	-0.150%
JNL Multi-Manager Alternative Fund	Lernox International Inc.			Equity	5,391	3,263,927	0.426%
JNL Multi-Manager Alternative Fund	D.R. Horton, Inc.			Equity	-9,622	(1,644,819)	-0.214%
JNL Multi-Manager Alternative Fund	Deluxe Corporation			Equity	-71,183	(1,387,357)	-0.181%
JNL Multi-Manager Alternative Fund	Expeditors International of Washington, Inc.			Equity	6,172	811,001	0.106%
JNL Multi-Manager Alternative Fund	Inhult Inc.			Equity	4,721	2,931,741	0.382%
JNL Multi-Manager Alternative Fund	International Flavors & Fragrances Inc.			Equity	22,290	2,947,806	0.380%
JNL Multi-Manager Alternative Fund	Century Aluminum Company			Equity	-6,641	(107,783)	-0.014%
JNL Multi-Manager Alternative Fund	EZCORP, Inc.			Equity	-54,733	(613,557)	-0.080%
JNL Multi-Manager Alternative Fund	Encore Capital Group, Inc.			Equity	-29,811	(1,409,166)	-0.184%
JNL Multi-Manager Alternative Fund	Salesforce, Inc.			Equity	24,307	6,862,782	0.898%
JNL Multi-Manager Alternative Fund	Granite Construction Incorporated			Equity	-1,834	(153,378)	-0.020%
JNL Multi-Manager Alternative Fund	Haemonetics Corporation			Equity	-43	(3,456)	-0.000%
JNL Multi-Manager Alternative Fund	MKS Instruments, Inc.			Equity	-691	(75,119)	-0.010%
JNL Multi-Manager Alternative Fund	CSG Systems International, Inc.			Equity	-4,558	(221,747)	-0.029%
JNL Multi-Manager Alternative Fund	Jack Henry & Associates, Inc.			Equity	12,570	2,219,880	0.290%
JNL Multi-Manager Alternative Fund	GRUMA, S.A.B. de C.V.			Equity	10,665	197,625	0.026%
JNL Multi-Manager Alternative Fund	Topgolf Callaway Brands Corp.			Equity	-11,519	(126,479)	-0.016%
JNL Multi-Manager Alternative Fund	Citigroup Inc.			Equity	38,230	2,393,198	0.312%
JNL Multi-Manager Alternative Fund	CHL Mortgage Pass-Through Trust 2002-HYB1	8/25/2037	6.00	Fixed Income	965,523	699,597	0.095%
JNL Multi-Manager Alternative Fund	Masco Corporation			Equity	-22,508	(1,889,322)	-0.246%
JNL Multi-Manager Alternative Fund	Mesa Laboratories, Inc.			Equity	-68	(8,830)	-0.001%
JNL Multi-Manager Alternative Fund	Pool Corporation			Equity	11,076	4,173,437	0.544%
JNL Multi-Manager Alternative Fund	Pool Corporation			Equity	-11,357	(1,279,318)	-0.166%
JNL Multi-Manager Alternative Fund	Plug Power Inc.			Equity	-10,440	(23,594)	-0.003%
JNL Multi-Manager Alternative Fund	WisdomTree, Inc.			Equity	-62,916	(628,531)	-0.082%
JNL Multi-Manager Alternative Fund	Cosco Wholesale Corporation			Equity	-105	(83,085)	-0.012%
JNL Multi-Manager Alternative Fund	Schlumberger Limited			Equity	-6,943	(291,259)	-0.038%
JNL Multi-Manager Alternative Fund	KLA Corporation			Equity	-5,431	(4,205,821)	-0.548%
JNL Multi-Manager Alternative Fund	Pegsystems Inc.			Equity	-354	(25,874)	-0.003%
JNL Multi-Manager Alternative Fund	NetApp, Inc.			Equity	-61,712	(7,622,049)	-0.994%
JNL Multi-Manager Alternative Fund	Lennar Corporation			Equity	-1,926	(1,495,956)	-0.194%
JNL Multi-Manager Alternative Fund	Zephyrus Capital Aviation Partners 2018-1 LLC	10/15/2038	4.61	Fixed Income	212,739	200,436	0.026%
JNL Multi-Manager Alternative Fund	Merit Medical Systems, Inc.			Equity	-2,333	(230,570)	-0.030%
JNL Multi-Manager Alternative Fund	Oracle Corporation			Equity	97,607	16,632,233	2.169%
JNL Multi-Manager Alternative Fund	Kellanova			Equity	61,545	4,987,297	0.648%
JNL Multi-Manager Alternative Fund	McGrath RentCorp			Equity	5,529	882,053	0.076%
JNL Multi-Manager Alternative Fund	PENN Entertainment, Inc.			Equity	-32,093	(605,274)	-0.079%
JNL Multi-Manager Alternative Fund	Regeneron Pharmaceuticals, Inc.			Equity	8,538	8,975,487	1.170%
JNL Multi-Manager Alternative Fund	Neogenomics, Inc.			Equity	-713	(10,517)	-0.001%
JNL Multi-Manager Alternative Fund	Microchip Technology Incorporated			Equity	-787	(4,833,188)	-0.628%
JNL Multi-Manager Alternative Fund	Old Dominion Freight Line, Inc.			Equity	13,887	2,758,514	0.360%
JNL Multi-Manager Alternative Fund	NCR Voyix Corporation			Equity	23,560	319,709	0.042%
JNL Multi-Manager Alternative Fund	PG&E Corporation			Equity	6,190	122,438	0.016%
JNL Multi-Manager Alternative Fund	Repligen Corporation			Equity	-548	(69,555)	-0.009%
JNL Multi-Manager Alternative Fund	Meritage Homes Corporation			Equity	-132	(27,069)	-0.004%
JNL Multi-Manager Alternative Fund	PAR Technology Corporation			Equity	-10,054	(523,612)	-0.068%
JNL Multi-Manager Alternative Fund	Milliken, Inc.			Equity	-30,371	(757,681)	-0.099%
JNL Multi-Manager Alternative Fund	Ford Motor Company			Equity	6,055	63,941	0.008%
JNL Multi-Manager Alternative Fund	Wells Fargo & Company			Equity	30,020	1,695,830	0.221%
JNL Multi-Manager Alternative Fund	Kimberly - Clark De Mexico S.A.B. De C.V.			Equity	515,900	835,816	0.109%
JNL Multi-Manager Alternative Fund	Winnebago Industries, Inc.			Equity	-360	(20,520)	-0.003%
JNL Multi-Manager Alternative Fund	Hellenic Telecommunications Organization S.A.			Equity	47,870	824,228	0.107%
JNL Multi-Manager Alternative Fund	Erste Group Bank AG			Equity	10,349	598,332	0.074%
JNL Multi-Manager Alternative Fund	Vail Resorts, Inc.			Equity	2,650	461,869	0.060%
JNL Multi-Manager Alternative Fund	Western Digital Corporation			Equity	-2,391	(163,281)	-0.021%
JNL Multi-Manager Alternative Fund	Toll Brothers, Inc.			Equity	-14,242	(2,293,386)	-0.297%
JNL Multi-Manager Alternative Fund	Vertex Pharmaceuticals Incorporated			Equity	13,576	6,313,926	0.823%
JNL Multi-Manager Alternative Fund	MicroStrategy Incorporated			Equity	-8,234	(1,388,252)	-0.181%
JNL Multi-Manager Alternative Fund	UMB Financial Corporation			Equity	-1,801	(189,888)	-0.025%
JNL Multi-Manager Alternative Fund	Westinghouse Air Brake Technologies Corporation			Equity	3,416	620,928	0.081%
JNL Multi-Manager Alternative Fund	Webfile Anvays Corporation			Equity	512	3,359	0.000%
JNL Multi-Manager Alternative Fund	Watts Water Technologies, Inc.			Equity	8,865	1,836,739	0.239%
JNL Multi-Manager Alternative Fund	The Sherwin-Williams Company			Equity	-2,792	(1,065,623)	-0.139%
JNL Multi-Manager Alternative Fund	Permot Ricard			Equity	3,460	522,224	0.068%
JNL Multi-Manager Alternative Fund	Southwestern Energy Company			Equity	636,453	4,525,181	0.589%
JNL Multi-Manager Alternative Fund	Stericycle, Inc.			Equity	69,852	4,260,972	0.556%
JNL Multi-Manager Alternative Fund	Heartland Financial USA, Inc.			Equity	26,373	1,495,349	0.195%
JNL Multi-Manager Alternative Fund	Vennit Systems Inc.			Equity	-1,671	(142,326)	-0.009%
JNL Multi-Manager Alternative Fund	Vesco Instruments Inc.			Equity	-30,625	(1,312,676)	-0.171%
JNL Multi-Manager Alternative Fund	Armit Holdings Berhad			Equity	236,700	285,978	0.037%
JNL Multi-Manager Alternative Fund	United States Steel Corporation			Equity	101,154	3,573,771	0.466%
JNL Multi-Manager Alternative Fund	Werner Enterprises, Inc.			Equity	-21,614	(834,084)	-0.109%
JNL Multi-Manager Alternative Fund	Vishay InterTechnology, Inc.			Equity	-12,624	(238,720)	-0.031%
JNL Multi-Manager Alternative Fund	SEI Investments Company			Equity	26,158	1,909,872	0.246%
JNL Multi-Manager Alternative Fund	Netflix, Inc.			Equity	18,486	13,111,565	1.710%
JNL Multi-Manager Alternative Fund	Netflix, Inc.			Equity	253	379,445	0.023%
JNL Multi-Manager Alternative Fund	CardMax, Inc.			Equity	13,060	3,010,583	0.127%
JNL Multi-Manager Alternative Fund	GS Engineering & Construction Corp.			Equity	13,863	194,440	0.025%
JNL Multi-Manager Alternative Fund	RHB Bank Berhad			Equity	288,300	432,507	0.056%
JNL Multi-Manager Alternative Fund	CMBG Group Holdings Berhad			Equity	395,000	771,894	0.101%
JNL Multi-Manager Alternative Fund	Abu Dhabi Commercial Bank PJSC			Equity	116,833	2,988,053	0.389%
JNL Multi-Manager Alternative Fund	Fluitt Centre Travel Group Limited			Equity	-14,837	(231,248)	-0.030%
JNL Multi-Manager Alternative Fund	LG Corp.			Equity	12,643	763,169	0.100%
JNL Multi-Manager Alternative Fund	Samsung Fire & Marine Insurance Co., Ltd.			Equity	2,134	567,014	0.074%
JNL Multi-Manager Alternative Fund	LG M&H Co., Ltd.			Equity	1,127	326,572	0.042%
JNL Multi-Manager Alternative Fund	Angel Yeast Co., Ltd.			Equity	181,455	637,869	0.072%
JNL Multi-Manager Alternative Fund	Safar			Equity	6,213	1,463,151	0.191%
JNL Multi-Manager Alternative Fund	Haynes International, Inc.			Equity	32,341	1,925,583	0.251%
JNL Multi-Manager Alternative Fund	Cencosud S.A.			Equity	115,644	233,438	0.030%
JNL Multi-Manager Alternative Fund	Emar Properties (P.J.S.C)			Equity	298,722	566,773	0.074%
JNL Multi-Manager Alternative Fund	Standard Bank Group			Equity	39,596	555,106	0.072%
JNL Multi-Manager Alternative Fund	Samsung Engineering Co., Ltd.			Equity	19,974	336,257	0.044%
JNL Multi-Manager Alternative Fund	Herbalife Nutrition Ltd.			Equity	13,980	100,516	0.013%
JNL Multi-Manager Alternative Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	22,001	673,381	0.088%
JNL Multi-Manager Alternative Fund	Holcim AG			Equity	27,080	2,647,699	0.345%
JNL Multi-Manager Alternative Fund	Shiseido Company, Limited			Equity	3,800	102,671	0.013%
JNL Multi-Manager Alternative Fund	Swin Pacific Limited			Equity	18,969	164,819	0.021%
JNL Multi-Manager Alternative Fund	KEPCO Plant Service & Engineering Co., Ltd.			Equity	7,581	244,432	0.032%
JNL Multi-Manager Alternative Fund	Heineken Holding N.V.			Equity	21,119	1,595,731	0.208%
JNL Multi-Manager Alternative Fund	Nintendo Co., Ltd.			Equity	16,654	892,886	0.116%
JNL Multi-Manager Alternative Fund	UPL Limited			Equity	71,003	521,035	0.068%
JNL Multi-Manager Alternative Fund	Discover Financial Services			Equity	4,141	580,941	0.076%
JNL Multi-Manager Alternative Fund	Anoropacific Corporation			Equity	6,159	696,630	0.091%
JNL Multi-Manager Alternative Fund	Under Armour, Inc.			Equity	209,290	1,864,774	0.243%
JNL Multi-Manager Alternative Fund	Central Garden & Pet Company			Equity	-20,178	(633,589)	-0.083%
JNL Multi-Manager Alternative Fund	Logis Remyer SIA			Equity	134,200	1,447,574	0.189%
JNL Multi-Manager Alternative Fund	American Coastal Insurance Corporation			Equity	-55,039	(620,290)	-0.081%
JNL Multi-Manager Alternative Fund	Live Nation Entertainment, Inc.			Equity	-13,183	(1,443,407)	-0.188%
JNL Multi-Manager Alternative Fund	Insulet Corporation			Equity	-4,494	(1,045,979)	-0.136%
JNL Multi-Manager Alternative Fund	DexCom, Inc.			Equity	-584	(59,153)	-0.008%
JNL Multi-Manager Alternative Fund	EchoStar Corporation			Equity	8,124	901,638	0.098%
JNL Multi-Manager Alternative Fund	Chart Industries, Inc.			Equity	-14,033	(1,742,057)	-0.227%
JNL Multi-Manager Alternative Fund	ACCO Brands Corporation			Equity	-199,720	(1,092,468)	-0.142%
JNL Multi-Manager Alternative Fund	Super Micro Computer, Inc.			Equity	-200	(83,280)	-0.011%
JNL Multi-Manager Alternative Fund	Vodafone Group			Equity	90,391	972,993	0.079%
JNL Multi-Manager Alternative Fund	NEXON Co., Ltd.			Equity	22,820	450,131	0.059%
JNL Multi-Manager Alternative Fund	PT Kalbe Farma Tbk			Equity	3,548,400	404,713	0.053%
JNL Multi-Manager Alternative Fund	Gudewine Software, Inc.			Equity	-12,521	(2,290,592)	-0.299%
JNL Multi-Manager Alternative Fund	NXP Semiconductors N.V.			Equity	4,361	1,051,347	0.137%
JNL Multi-Manager Alternative Fund	Jazz Pharmaceuticals Public Limited Company			Equity	-6,342	(706,562)	-0.092%
JNL Multi-Manager Alternative Fund	Hoshizaki Corporation			Equity	2,474	86,059	0.011%
JNL Multi-Manager Alternative Fund	Life Healthcare Group Holdings			Equity	107,170	99,369	0.013%
JNL Multi-Manager Alternative Fund	Glencone P.L.C.			Equity	214,720	1,225,296	0.160%
JNL Multi-Manager Alternative Fund	Tesla, Inc.			Equity	45,597	11,929,543	1.555%
JNL Multi-Manager Alternative Fund	Primerica, Inc.			Equity	19,285	5,113,418	0.667%
JNL Multi-Manager Alternative Fund	LPL Financial Holdings Inc.			Equity	8,822	2,052,262	0.268%
JNL Multi-Manager Alternative Fund	LPL Financial Holdings Inc.			Equity	3,507	815,633	0.106%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Bajaj Auto Limited			Equity	-1,815	288,116	0.035%
JNL Multi-Manager Alternative Fund	Transcosmos Ltd			Equity	-431,610	1,234,343	0.238%
JNL Multi-Manager Alternative Fund	Expedia Group, Inc.			Equity	-1,101	(162,970)	-0.021%
JNL Multi-Manager Alternative Fund	Ionwood Pharmaceuticals, Inc.			Equity	-603	(2,484)	0.000%
JNL Multi-Manager Alternative Fund	The Chefs' Warehouse, Inc.			Equity	-13,813	(580,284)	-0.076%
JNL Multi-Manager Alternative Fund	Visa Inc.			Equity	10,801	2,969,735	0.387%
JNL Multi-Manager Alternative Fund	Visa Inc.			Equity	27,424	7,540,228	0.983%
JNL Multi-Manager Alternative Fund	Verisk Analytics, Inc.			Equity	10,987	2,944,077	0.384%
JNL Multi-Manager Alternative Fund	EnviroNet, Inc.			Equity	29,407	1,841,466	0.240%
JNL Multi-Manager Alternative Fund	Fortune Brands Innovations, Inc.			Equity	1,405	125,790	0.016%
JNL Multi-Manager Alternative Fund	Kinder Morgan, Inc.			Equity	45,180	988,026	0.130%
JNL Multi-Manager Alternative Fund	Marriott Vacations Worldwide Corporation			Equity	-141	(10,466)	-0.001%
JNL Multi-Manager Alternative Fund	Meta Platforms, Inc.			Equity	47,627	27,263,600	3.555%
JNL Multi-Manager Alternative Fund	Meta Platforms, Inc.			Equity	5,192	2,972,108	0.388%
JNL Multi-Manager Alternative Fund	Cytokinetics, Incorporated			Equity	-12,309	(649,915)	-0.085%
JNL Multi-Manager Alternative Fund	CDW Corp.			Equity	12,272	2,777,154	0.362%
JNL Multi-Manager Alternative Fund	Zoetis Inc.			Equity	11,172	2,182,785	0.285%
JNL Multi-Manager Alternative Fund	HD Hyundai Co., Ltd.			Equity	3,479	204,866	0.027%
JNL Multi-Manager Alternative Fund	Compagnie Financiere Richemont SA			Equity	5,210	822,132	0.107%
JNL Multi-Manager Alternative Fund	Richier Gedeon Vegyeszeti Gyar Nyilvánosan Mukodo Rt.			Equity	11,709	360,825	0.047%
JNL Multi-Manager Alternative Fund	Trade Desk, Inc., The			Equity	48,681	5,337,872	0.696%
JNL Multi-Manager Alternative Fund	American Airlines Group Inc.			Equity	-1,535	(17,253)	-0.002%
JNL Multi-Manager Alternative Fund	Innoviva, Inc.			Equity	-37,556	(775,206)	-0.095%
JNL Multi-Manager Alternative Fund	Snap Inc.			Equity	-33,097	(354,138)	-0.046%
JNL Multi-Manager Alternative Fund	Independent Bank Group, Inc.			Equity	11,166	843,832	0.084%
JNL Multi-Manager Alternative Fund	Icon Public Limited Company			Equity	2,008	5,76,918	0.075%
JNL Multi-Manager Alternative Fund	Lamb Weston Holdings, Inc.			Equity	97,125	2,493,473	0.319%
JNL Multi-Manager Alternative Fund	ANI Pharmaceuticals, Inc.			Equity	-8,492	(506,633)	-0.066%
JNL Multi-Manager Alternative Fund	Norwegian Cruise Line Holdings Ltd.			Equity	-8,957	(183,708)	-0.024%
JNL Multi-Manager Alternative Fund	Former Charter Communications Parent, Inc.			Equity	3,377	1,094,418	0.143%
JNL Multi-Manager Alternative Fund	Former Charter Communications Parent, Inc.			Equity	-817	(264,773)	-0.035%
JNL Multi-Manager Alternative Fund	Sea Limited			Equity	-21,443	(7,021,646)	-0.284%
JNL Multi-Manager Alternative Fund	Novo Nordisk A/S			Equity	38,789	4,618,606	0.602%
JNL Multi-Manager Alternative Fund	Redfin Corporation			Equity	-3,892	(48,767)	-0.006%
JNL Multi-Manager Alternative Fund	Alibaba Group Holding Limited			Equity	21,129	2,242,209	0.292%
JNL Multi-Manager Alternative Fund	Alibaba Group Holding Limited			Equity	5,189	988,026	0.130%
JNL Multi-Manager Alternative Fund	American Beverage Co Ambev			Equity	1,025,427	2,502,042	0.326%
JNL Multi-Manager Alternative Fund	Nien Made Enterprise Co., Ltd.			Equity	17,000	273,553	0.036%
JNL Multi-Manager Alternative Fund	CONSOL Energy Inc.			Equity	-65	(6,802)	-0.001%
JNL Multi-Manager Alternative Fund	O2 Holdings, Inc.			Equity	-13,027	(1,039,164)	-0.135%
JNL Multi-Manager Alternative Fund	SPDR S&P 500 ETF Trust			Fund	-28,588	(16,452,552)	-2.145%
JNL Multi-Manager Alternative Fund	SPDR S&P 500 ETF Trust			Fund	-163	(93,807)	-0.012%
JNL Multi-Manager Alternative Fund	Delivery Hero SE			Equity	4,740	181,645	0.023%
JNL Multi-Manager Alternative Fund	Delivery Hero SE			Equity	-1,195	(68,316)	-0.009%
JNL Multi-Manager Alternative Fund	SSR Mining Inc.			Equity	-2,011	(11,422)	-0.001%
JNL Multi-Manager Alternative Fund	Atlantica Sustainable Infrastructure PLC			Equity	50,599	1,112,166	0.145%
JNL Multi-Manager Alternative Fund	JD.com, Inc.			Equity	36,214	1,448,560	0.189%
JNL Multi-Manager Alternative Fund	Drobox, Inc.			Equity	-3,335	(84,899)	-0.011%
JNL Multi-Manager Alternative Fund	Broadcom Inc.			Equity	3,709	639,803	0.083%
JNL Multi-Manager Alternative Fund	KASIKORN BANK Public Company Limited			Equity	240,400	1,133,563	0.148%
JNL Multi-Manager Alternative Fund	ASML Holding N.V.			Equity	-3,752	(3,126,354)	-0.408%
JNL Multi-Manager Alternative Fund	Charoen Pokphand Foods Public Company Limited			Equity	760,100	565,993	0.074%
JNL Multi-Manager Alternative Fund	Orion Incorporation			Equity	-4,194	(313,769)	-0.041%
JNL Multi-Manager Alternative Fund	Jefferies Financial Group Inc.			Equity	29,516	1,816,710	0.237%
JNL Multi-Manager Alternative Fund	Spotify Technology S.A.			Equity	-625	(230,331)	-0.030%
JNL Multi-Manager Alternative Fund	Novartis AG			Equity	51,389	5,910,763	0.771%
JNL Multi-Manager Alternative Fund	SMART Global Holdings, Inc.			Equity	-61,866	(1,298,093)	-0.169%
JNL Multi-Manager Alternative Fund	Shopify Inc.			Equity	-3,491	(279,769)	-0.036%
JNL Multi-Manager Alternative Fund	Dynavax Technologies Corporation			Equity	-186,116	(2,073,332)	-0.270%
JNL Multi-Manager Alternative Fund	Apellis Pharmaceuticals, Inc.			Equity	-9,233	(266,280)	-0.035%
JNL Multi-Manager Alternative Fund	Lantheus Holdings, Inc.			Equity	-6,438	(708,851)	-0.092%
JNL Multi-Manager Alternative Fund	Zyklus Lifesciences Limited			Equity	36,919	472,980	0.062%
JNL Multi-Manager Alternative Fund	TransUnion			Equity	44,468	4,655,800	0.607%
JNL Multi-Manager Alternative Fund	Celastrel, Inc.			Equity	62,100	3,761,397	0.480%
JNL Multi-Manager Alternative Fund	Alphabet Inc.			Equity	81,400	1,400,000	0.180%
JNL Multi-Manager Alternative Fund	Alphabet Inc.			Equity	17,021	2,822,933	0.368%
JNL Multi-Manager Alternative Fund	Vista Outdoor Inc.			Equity	42,304	1,657,471	0.216%
JNL Multi-Manager Alternative Fund	Evolent Health, Inc.			Equity	-21,064	(595,090)	-0.078%
JNL Multi-Manager Alternative Fund	Block, Inc.			Equity	36,840	2,473,069	0.322%
JNL Multi-Manager Alternative Fund	Alphabet Inc.			Equity	18,926	3,164,238	0.413%
JNL Multi-Manager Alternative Fund	Alphabet Inc.			Equity	7,752	1,296,057	0.169%
JNL Multi-Manager Alternative Fund	Alphabet Inc.			Equity	9,890	1,653,509	0.216%
JNL Multi-Manager Alternative Fund	Monster Beverage 1990 Corporation			Equity	91,881	4,789,432	0.625%
JNL Multi-Manager Alternative Fund	Yum China Holdings, Inc.			Equity	28,310	1,274,516	0.166%
JNL Multi-Manager Alternative Fund	Samsung C&T Corporation			Equity	5,960	628,104	0.082%
JNL Multi-Manager Alternative Fund	Wayfair Inc.			Equity	-1,753	(98,484)	-0.013%
JNL Multi-Manager Alternative Fund	HubSpot, Inc.			Equity	-4,457	(2,369,241)	-0.309%
JNL Multi-Manager Alternative Fund	Zscaler, Inc.			Equity	-1,226	(209,572)	-0.027%
JNL Multi-Manager Alternative Fund	Irhythm Technologies, Inc.			Equity	-588	(43,653)	-0.006%
JNL Multi-Manager Alternative Fund	Alarm.com Holdings, Inc.			Equity	-153	(8,365)	-0.001%
JNL Multi-Manager Alternative Fund	Mir Price Group			Equity	31,207	489,288	0.064%
JNL Multi-Manager Alternative Fund	Collegium Pharmaceutical, Inc.			Equity	-21,023	(812,251)	-0.106%
JNL Multi-Manager Alternative Fund	Event Holdings Inc.			Equity	59,528	782,198	0.102%
JNL Multi-Manager Alternative Fund	RH			Equity	-4,799	(1,604,930)	-0.209%
JNL Multi-Manager Alternative Fund	RH			Equity	-11,685	(3,907,815)	-0.510%
JNL Multi-Manager Alternative Fund	Rapid7, Inc.			Equity	-2,318	(92,465)	-0.012%
JNL Multi-Manager Alternative Fund	Viavi Solutions Inc.			Equity	-32,461	(292,798)	-0.038%
JNL Multi-Manager Alternative Fund	LCI Industries			Equity	-5,432	(654,773)	-0.085%
JNL Multi-Manager Alternative Fund	Capri Holdings Limited			Equity	18,284	1,757,973	0.228%
JNL Multi-Manager Alternative Fund	Pebblebrook Hotel Trust			Equity	-15,543	(2,000,000)	-0.259%
JNL Multi-Manager Alternative Fund	Summit Hotel Properties, Inc.			Equity	-25,041	(171,781)	-0.022%
JNL Multi-Manager Alternative Fund	Banco Actinver, S.A., Institucion de Banca Multiple, Grupo Financiero Actinver			Equity	155,000	180,505	0.024%
JNL Multi-Manager Alternative Fund	Adyen N.V.			Equity	4,264	6,681,451	0.871%
JNL Multi-Manager Alternative Fund	Triumph Financial, Inc.			Equity	32,076	3,651,325	0.473%
JNL Multi-Manager Alternative Fund	Vornado Realty Trust			Equity	14,330	564,602	0.074%
JNL Multi-Manager Alternative Fund	Retail Opportunity Investments Corp.			Equity	64,484	(1,024,006)	-0.134%
JNL Multi-Manager Alternative Fund	Douglas Emmett, Inc.			Equity	35,380	628,349	0.082%
JNL Multi-Manager Alternative Fund	Blackstone Mortgage Trust, Inc.			Equity	-350	(6,877)	-0.001%
JNL Multi-Manager Alternative Fund	Thai Beverage Public Company Limited			Equity	1,127,300	468,083	0.061%
JNL Multi-Manager Alternative Fund	Bairings CLO Ltd 2018-III	7/20/2029	11.29	Fixed Income	500,000	513,041	0.067%
JNL Multi-Manager Alternative Fund	Cybera DC Holdings, Inc.	5/1/2026	8.33	Fixed Income	54,266	54	0.000%
JNL Multi-Manager Alternative Fund	Vornado Realty LP	11/15/2025	9.50	Fixed Income	125,000	125,132	0.016%
JNL Multi-Manager Alternative Fund	Citigroup Commercial Mortgage Trust 2015-GC27	11/10/2025	4.55	Fixed Income	291,000	267,721	0.035%
JNL Multi-Manager Alternative Fund	Guidewire Software, Inc.	3/15/2025	1.25	Fixed Income	1,425,000	2,288,297	0.298%
JNL Multi-Manager Alternative Fund	JPMDB Commercial Mortgage Securities Trust 2015-C31	11/18/2048	1.24	Fixed Income	18,533,877	109,168	0.014%
JNL Multi-Manager Alternative Fund	Eleven Madison Trust 2015-11MD Mortgage Trust	9/11/2025	3.67	Fixed Income	143,000	139,554	0.018%
JNL Multi-Manager Alternative Fund	Wells Fargo Commercial Mortgage Trust 2015-NX54	11/18/2025	3.83	Fixed Income	293,000	265,384	0.035%
JNL Multi-Manager Alternative Fund	Liberty Media Corporation	11/15/2029	4.00	Fixed Income	1,696,000	631,926	0.082%
JNL Multi-Manager Alternative Fund	Liberty Media Corporation	2/15/2030	3.75	Fixed Income	3,184,000	1,121,667	0.146%
JNL Multi-Manager Alternative Fund	GSAA Home Equity Trust 2007-9	10/25/2037	6.50	Fixed Income	1,570,079	925,219	0.121%
JNL Multi-Manager Alternative Fund	Velocity Commercial Capital Loan Trust 2019-1	3/25/2027	4.61	Fixed Income	399,969	399,969	0.040%
JNL Multi-Manager Alternative Fund	Velocity Commercial Capital Loan Trust 2019-1	8/25/2027	5.70	Fixed Income	207,031	181,605	0.024%
JNL Multi-Manager Alternative Fund	Velocity Commercial Capital Loan Trust 2019-1	8/25/2028	6.79	Fixed Income	309,373	248,333	0.032%
JNL Multi-Manager Alternative Fund	Soft Professional Loan Program 2016-F LLC	2/27/2040		Fixed Income	100,000	180,574	0.024%
JNL Multi-Manager Alternative Fund	Fox Corporation			Equity	9,219	316,897	0.041%
JNL Multi-Manager Alternative Fund	Carbon Capital VI Commercial Mortgage 2017-FL1 Tru	10/15/2035	8.06	Fixed Income	317,626	186,397	0.024%
JNL Multi-Manager Alternative Fund	United Microelectronics Corporation			Equity	84,102	708,139	0.092%
JNL Multi-Manager Alternative Fund	Varicost Semiconductor ETF			Fund	-34,980	(8,585,841)	-1.120%
JNL Multi-Manager Alternative Fund	Enphase Energy, Inc.			Equity	-1,014	(114,802)	-0.015%
JNL Multi-Manager Alternative Fund	MannKind Corporation			Equity	-249,897	(1,571,862)	-0.205%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	85,000	80,412	0.010%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	99,000	93,064	0.012%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2033	4.60	Fixed Income	104,000	94,512	0.012%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.60	Fixed Income	114,000	103,545	0.014%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	5/6/2032	4.34	Fixed Income	83,000	79,019	0.010%
JNL Multi-Manager Alternative Fund	Uber Technologies, Inc.			Equity	8,170	614,057	0.080%
JNL Multi-Manager Alternative Fund	Match Group FinancialCo 2, Inc.	8/15/2026	0.88	Fixed Income	3,038,000	2,836,097	0.370%
JNL Multi-Manager Alternative Fund	Octagon Investment Partners XVI, Ltd.	7/17/2030		Fixed Income	1,500,000	17,556	0.002%
JNL Multi-Manager Alternative Fund	Mitek Systems, Inc.			Equity	-1,663	(14,418)	-0.002%
JNL Multi-Manager Alternative Fund	Axonics, Inc.			Equity	58,909	4,100,066	0.535%
JNL Multi-Manager Alternative Fund	SmartSheet Inc.			Equity	20,993	1,162,172	0.152%
JNL Multi-Manager Alternative Fund	Guardant Health, Inc.			Equity	-342	(7,845)	-0.001%
JNL Multi-Manager Alternative Fund	Contemporary Ampere Technology Co., Limited			Equity	13,300	469,715	0.061%
JNL Multi-Manager Alternative Fund	GrubHub Holdings Inc.	7/1/2027	5.50	Fixed Income	113,000	106,439	0.014%
JNL Multi-Manager Alternative Fund	Cies 2019-1 Limited	4/15/2039		Fixed Income	1,000,000	41,500	0.005%
JNL Multi-Manager Alternative Fund	Al Rajhi Banking and Investment Corporation			Equity	87,103	862,916	0.113%
JNL Multi-Manager Alternative Fund	Voya CLO Ltd	7/20/2032	12.14	Fixed Income	500,000	512,930	0.067%
JNL Multi-Manager Alternative Fund	Cathay Pacific Airways Limited			Equity	-1,490,600	(1,635,179)	-0.213%
JNL Multi-Manager Alternative Fund	Doucormas, S.A.P.I de C.V.	7/24/2025	10.25	Fixed Income	200,000	10,032	0.001%
JNL Multi-Manager Alternative Fund	Oriden 40 Senior Loan Fund	8/15/2031	11.13	Fixed Income	500,000	456,015	0.059%
JNL Multi-Manager Alternative Fund	HPS Loan Management 2013-2, Ltd.	10/22/2029	12.14	Fixed Income	1,000,000	1,015,835	0.132%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	7/20/2049	1.02	Fixed Income	1,470,733	174,718	0.023%
JNL Multi-Manager Alternative Fund	Mesa Laboratories, Inc.			Equity	630,000	599,420	0.078%
JNL Multi-Manager Alternative Fund	Mxvi App Tec Co., Ltd.	8/15/2025	1.38	Fixed Income	61,200	450,146	0.059%
JNL Multi-Manager Alternative Fund	Nuvei Technologies Corp.	9/29/2025	8.35	Fixed Income	348,576	348,999	0.045%
JNL Multi-Manager Alternative Fund	Nuvei Technologies Corp.	9/29/2025	8.35	Fixed Income	60,542	60,598	0.008%
JNL Multi-Manager Alternative Fund	Prosus N.V.			Equity	24,750	1,085,372	0.142%
JNL Multi-Manager Alternative Fund	Cloudflare, Inc.			Equity	-2,740	(221,639)	-0.029%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Bandhan Bank Limited			Equity	643,669	1,533,344	0.200%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	12/20/2048	1.07	Fixed Income	1,538,914	313,160	0.029%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	7/20/2048	1.12	Fixed Income	175,470	21,753	0.003%
JNL Multi-Manager Alternative Fund	Altaba Inc.			Equity	43,940	62,175	0.008%
JNL Multi-Manager Alternative Fund	Altaba Inc.			Equity	1,953,238	2,777,982	0.362%
JNL Multi-Manager Alternative Fund	Monriva Asset Acceptance Corporation, Alternative Loan Trust, Series 2005-ARA	2/25/2036	0.79	Fixed Income	6,745,966	429,244	0.008%
JNL Multi-Manager Alternative Fund	Evkient Health, Inc.	10/15/2025	1.50	Fixed Income	1,597,000	1,690,591	0.220%
JNL Multi-Manager Alternative Fund	Nuvel Technologies Corp.	9/29/2025	8.35	Fixed Income	234,142	234,359	0.031%
JNL Multi-Manager Alternative Fund	SOFi Professional Loan Program 2018-A LLC	2/25/2042		Fixed Income	21,000	165,926	0.022%
JNL Multi-Manager Alternative Fund	SOFi Professional Loan Program 2018-A LLC	2/25/2042		Fixed Income	6,218	49,130	0.006%
JNL Multi-Manager Alternative Fund	Benchmark 2019-B14 Mortgage Trust	12/15/2062	0.89	Fixed Income	17,285,350	524,316	0.068%
JNL Multi-Manager Alternative Fund	Cascade MH Asset Trust 2019-MH1	10/25/2024	5.99	Fixed Income	4,100,000	3,780,785	0.493%
JNL Multi-Manager Alternative Fund	First Bancshares Inc.			Equity	9,330	299,773	0.039%
JNL Multi-Manager Alternative Fund	Brexit-Myers Squibb Company	12/31/2049		Equity	25,297	21,502	0.003%
JNL Multi-Manager Alternative Fund	Hongfa Technology Co., Ltd.			Equity	156,800	712,793	0.093%
JNL Multi-Manager Alternative Fund	Zhejiang NHU Company Ltd.			Equity	232,400	744,890	0.097%
JNL Multi-Manager Alternative Fund	Sumoda Electronic Co., Ltd.			Equity	209,100	648,962	0.085%
JNL Multi-Manager Alternative Fund	Repay Holdings Corporation			Equity	-1,214	(9,906)	-0.001%
JNL Multi-Manager Alternative Fund	Parsons Corporation	7/5/2031		Equity	18,659	(1,934,965)	-0.252%
JNL Multi-Manager Alternative Fund	BX Trust 2019-OC11	12/11/2029	4.08	Fixed Income	252,000	226,530	0.030%
JNL Multi-Manager Alternative Fund	Madison Park Funding XIV, Ltd.	10/22/2030	11.34	Fixed Income	500,000	501,258	0.065%
JNL Multi-Manager Alternative Fund	Match Group FinanceCo 3, Inc.	1/15/2030	2.00	Fixed Income	305,000	272,940	0.036%
JNL Multi-Manager Alternative Fund	HPS Loan Management 4-2014, Ltd.	7/5/2031	10.60	Fixed Income	1,000,000	1,003,391	0.131%
JNL Multi-Manager Alternative Fund	K1Discovery Ontrack, LLC	12/1/2025		Equity	34,651	35	0.000%
JNL Multi-Manager Alternative Fund	Alpha Holding, S.A. de C.V.	2/10/2025	9.00	Fixed Income	235,683	1,960	0.000%
JNL Multi-Manager Alternative Fund	Operadora de Servicios Mega SA de CV SOFOM ER	2/11/2025	8.25	Fixed Income	200,000	68,426	0.009%
JNL Multi-Manager Alternative Fund	Madison Park Funding XXI Ltd.	11/15/2033		Fixed Income	500,000	514,381	0.067%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	12/15/2041	0.44	Fixed Income	2,923,376	314,416	0.041%
JNL Multi-Manager Alternative Fund	HPS Loan Management 4-2014, Ltd.	10/15/2030	11.06	Fixed Income	900,000	909,182	0.119%
JNL Multi-Manager Alternative Fund	Spruce Hill Mortgage Loan Trust 2020-SH1	1/28/2050	4.68	Fixed Income	1,200,000	1,146,338	0.149%
JNL Multi-Manager Alternative Fund	Dealogic, Inc.			Equity	-15,631	(1,568,330)	-0.205%
JNL Multi-Manager Alternative Fund	Citicorp Commercial Mortgage Trust 2020-555	12/1/2029	3.62	Fixed Income	500,000	587,178	0.050%
JNL Multi-Manager Alternative Fund	SSR Mining Inc.	4/1/2039	2.50	Fixed Income	146,000	139,151	0.018%
JNL Multi-Manager Alternative Fund	AON Public Limited Company			Equity	4,644	1,606,778	0.210%
JNL Multi-Manager Alternative Fund	Howmet Aerospace Inc.			Equity	5,890	590,473	0.077%
JNL Multi-Manager Alternative Fund	Sphere Entertainment Co.			Equity	-6,793	(309,115)	-0.039%
JNL Multi-Manager Alternative Fund	Neogenomics, Inc.	5/1/2025	1.25	Fixed Income	1,002,000	970,975	0.127%
JNL Multi-Manager Alternative Fund	PENN Entertainment, Inc.	5/15/2026	2.75	Fixed Income	1,527,000	1,655,999	0.216%
JNL Multi-Manager Alternative Fund	Arch Resources, Inc.			Equity	49	6,770	0.001%
JNL Multi-Manager Alternative Fund	The Goodyear Tire & Rubber Company	9/31/2025	9.50	Fixed Income	399,000	499,248	0.064%
JNL Multi-Manager Alternative Fund	JDE Peet's N.V.			Equity	44,569	929,203	0.121%
JNL Multi-Manager Alternative Fund	Benchmark 2018-B4 Mortgage Trust	7/1/2028	2.90	Fixed Income	377,000	292,119	0.038%
JNL Multi-Manager Alternative Fund	ChampionX Corporation			Equity	116,555	3,514,133	0.458%
JNL Multi-Manager Alternative Fund	Octagon Investment Partners XVI, Ltd.	7/1/2030	11.30	Fixed Income	500,000	470,421	0.061%
JNL Multi-Manager Alternative Fund	American Airlines Group Inc.	7/1/2025	6.50	Fixed Income	124,000	128,777	0.017%
JNL Multi-Manager Alternative Fund	Albertsons Companies, Inc.			Equity	61,513	1,136,760	0.148%
JNL Multi-Manager Alternative Fund	The ODP Corporation			Equity	-35,953	(1,069,602)	-0.139%
JNL Multi-Manager Alternative Fund	Match Group, Inc.			Equity	-4,709	(118,189)	-0.015%
JNL Multi-Manager Alternative Fund	Tricon American Homes 2020-SFR1 Trust	7/1/2026	4.88	Fixed Income	5,000,000	4,996,571	0.652%
JNL Multi-Manager Alternative Fund	CSAIL 2016-CS Commercial Mortgage Trust	11/18/2025	4.79	Fixed Income	344,000	324,987	0.042%
JNL Multi-Manager Alternative Fund	Bloom Energy Corporation			Equity	-21,128	(223,112)	-0.029%
JNL Multi-Manager Alternative Fund	Benchmark 2020-B18 Mortgage Trust	8/15/2025	3.76	Fixed Income	343,000	329,860	0.043%
JNL Multi-Manager Alternative Fund	McDermott International, Ltd.			Equity	149,338	29,868	0.004%
JNL Multi-Manager Alternative Fund	Lealand Finance Company B.V.	6/30/2027	8.36	Fixed Income	1,912	980	0.000%
JNL Multi-Manager Alternative Fund	Lealand Finance Company B.V.	6/30/2027	8.36	Fixed Income	5,451	2,795	0.000%
JNL Multi-Manager Alternative Fund	Shifra Payments, LLC			Equity	-45,600	(564,760)	-0.076%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	7/25/2032	0.99	Fixed Income	11,820,316	432,695	0.056%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	12/25/2027	0.86	Fixed Income	9,132,779	111,818	0.015%
JNL Multi-Manager Alternative Fund	Just Eat Takeaway.Com N.V.			Equity	5,550	83,529	0.011%
JNL Multi-Manager Alternative Fund	Chenango Park CLO, Ltd.	4/15/2030	11.36	Fixed Income	1,000,000	1,007,742	0.131%
JNL Multi-Manager Alternative Fund	Canyon Capital CLO 2014-1 Ltd	7/30/2031	11.02	Fixed Income	700,000	654,970	0.085%
JNL Multi-Manager Alternative Fund	Carlyle Global Market Strategies CLO 2014-2-R, Ltd.	5/15/2031	10.73	Fixed Income	1,000,000	1,003,777	0.131%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	1/20/2042		Fixed Income	3,650,995	117,617	0.015%
JNL Multi-Manager Alternative Fund	Lehman Mortgage Trust 2007-2	3/25/2037	5.28	Fixed Income	10,783,749	1,772,719	0.231%
JNL Multi-Manager Alternative Fund	Lehman Mortgage Trust 2007-2	3/25/2037	1.72	Fixed Income	10,862,947	999,268	0.129%
JNL Multi-Manager Alternative Fund	Ironwood Pharmaceuticals, Inc.	6/15/2026	1.50	Fixed Income	50,000	44,363	0.006%
JNL Multi-Manager Alternative Fund	Lealand Finance Company B.V.	6/30/2025	9.36	Fixed Income	27,681	9,806	0.001%
JNL Multi-Manager Alternative Fund	Lealand Finance Company B.V.	6/30/2025	9.36	Fixed Income	412,450	146,115	0.019%
JNL Multi-Manager Alternative Fund	Maxson Solar Technologies, Ltd.			Equity	653,799	63,126	0.008%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	8/20/2050	1.17	Fixed Income	3,152,115	453,313	0.059%
JNL Multi-Manager Alternative Fund	JPMBB Commercial Mortgage Securities Trust 2014-C23	10/18/2024	3.36	Fixed Income	650,000	539,861	0.070%
JNL Multi-Manager Alternative Fund	Encore Capital Group, Inc.	10/1/2025	3.25	Fixed Income	839,000	1,088,653	0.142%
JNL Multi-Manager Alternative Fund	Shopyify Inc.	11/1/2026	0.13	Fixed Income	2,765,000	2,849,578	0.345%
JNL Multi-Manager Alternative Fund	AMSR 2020-SFR4 Trust	11/19/2025	4.87	Fixed Income	370,000	3,668,751	0.478%
JNL Multi-Manager Alternative Fund	Snowflake Inc.			Equity	-380	(43,647)	-0.006%
JNL Multi-Manager Alternative Fund	SOFi Professional Loan Program 2018-C Trust	1/25/2048		Fixed Income	50,000	418,833	0.055%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-MFP	7/1/2035	9.19	Fixed Income	347,000	339,860	0.043%
JNL Multi-Manager Alternative Fund	Apellis Pharmaceuticals, Inc.	9/15/2026	3.50	Fixed Income	731,000	801,868	0.105%
JNL Multi-Manager Alternative Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2019-MFP	7/15/2036	0.50	Fixed Income	347,000	2,147	0.000%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	3/25/2031	1.14	Fixed Income	3,714,262	204,632	0.027%
JNL Multi-Manager Alternative Fund	Travelport Finance (Luxembourg) S.A.r.l.	2/28/2025	13.59	Fixed Income	346,390	346,390	0.046%
JNL Multi-Manager Alternative Fund	Myers Park CLO, Ltd.	10/21/2030	11.04	Fixed Income	1,000,000	1,022,638	0.131%
JNL Multi-Manager Alternative Fund	Structured Adjustable Rate Mortgage Loan Trust 2005-3XS	1/25/2035	5.50	Fixed Income	1,012,324	930,203	0.121%
JNL Multi-Manager Alternative Fund	Willis Engine Structured Trust IV	9/15/2026	4.75	Fixed Income	637,185	631,202	0.082%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	9/25/2030	1.33	Fixed Income	3,429,625	155,171	0.020%
JNL Multi-Manager Alternative Fund	Federal National Mortgage Association, Inc.	11/15/2026	5.26	Fixed Income	5,296,988	295,822	0.038%
JNL Multi-Manager Alternative Fund	AMSR 2020-SFR5 Trust	11/19/2025	4.11	Fixed Income	5,000,000	4,905,929	0.640%
JNL Multi-Manager Alternative Fund	TIM S.A.			Equity	203,500	706,161	0.092%
JNL Multi-Manager Alternative Fund	TechTarget, Inc.	12/15/2026		Fixed Income	2,149,000	2,079,233	0.271%
JNL Multi-Manager Alternative Fund	Spring Valley Acquisition Corp. II			Equity	-30,133	(69,138)	-0.009%
JNL Multi-Manager Alternative Fund	Cheesecake Factory Incorporated, The	6/15/2026	0.38	Fixed Income	1,258,000	1,195,217	0.156%
JNL Multi-Manager Alternative Fund	Enphase Energy, Inc.	3/1/2026	1,475,000	Fixed Income	1,475,000	1,380,389	0.180%
JNL Multi-Manager Alternative Fund	SMART Global Holdings, Inc.	2/1/2029	2.00	Fixed Income	1,093,000	1,300,671	0.170%
JNL Multi-Manager Alternative Fund	Snap Inc.	8/1/2026	0.75	Fixed Income	1,434,000	1,385,052	0.181%
JNL Multi-Manager Alternative Fund	Instructure Holdings, Inc.			Equity	-1,900	44,745	0.006%
JNL Multi-Manager Alternative Fund	HubSpot, Inc.	6/1/2025	0.38	Fixed Income	1,280,000	2,414,246	0.315%
JNL Multi-Manager Alternative Fund	Enphase Energy, Inc.	3/1/2028		Fixed Income	201,000	177,322	0.023%
JNL Multi-Manager Alternative Fund	Chegg, Inc.	3/15/2025	0.13	Fixed Income	922,000	982,989	0.125%
JNL Multi-Manager Alternative Fund	Marriott Vacations Worldwide Corporation	11/15/2026	2,428,000	Fixed Income	2,428,000	2,239,034	0.292%
JNL Multi-Manager Alternative Fund	LCI Industries	5/15/2026	1.13	Fixed Income	2,313,000	2,349,914	0.306%
JNL Multi-Manager Alternative Fund	Five 2023-V1 Mortgage Trust	2/11/2028	6.51	Fixed Income	417,000	379,353	0.049%
JNL Multi-Manager Alternative Fund	Snap Inc.	3/1/2026	0.13	Fixed Income	123,000	97,254	0.012%
JNL Multi-Manager Alternative Fund	Wells Fargo Commercial Mortgage Trust 2018-C46	8/1/2028	5.13	Fixed Income	800,000	700,850	0.091%
JNL Multi-Manager Alternative Fund	NCL Corporation Ltd.	2/15/2027	2.50	Fixed Income	251,000	248,723	0.032%
JNL Multi-Manager Alternative Fund	Altavox, Inc.	3/15/2028	8.75	Fixed Income	370,000	379,980	0.050%
JNL Multi-Manager Alternative Fund	Vreco Instruments Inc.	11/15/2025	3.50	Fixed Income	187,000	266,065	0.035%
JNL Multi-Manager Alternative Fund	ABRA Global Finance	3/2/2030	5.00	Fixed Income	2,511,138	2,536,591	0.331%
JNL Multi-Manager Alternative Fund	Pyrophyte Acquisition Corp.	5/3/2028		Equity	3,950	237	0.000%
JNL Multi-Manager Alternative Fund	O2 Holdings, Inc.	11/15/2025	0.13	Fixed Income	970,000	929,176	0.121%
JNL Multi-Manager Alternative Fund	Innoviva, Inc.	3/15/2028	2.13	Fixed Income	1,879,000	1,812,644	0.236%
JNL Multi-Manager Alternative Fund	Metrolink Infrastructure Issuer LLC	2/20/2029	8.01	Fixed Income	500,000	520,103	0.068%
JNL Multi-Manager Alternative Fund	Block, Inc.	3/1/2025	0.13	Fixed Income	3,069,000	2,982,106	0.389%
JNL Multi-Manager Alternative Fund	Pagaya AI Debt Trust 2022-2	1/15/2030	5.72	Fixed Income	245,084	246,220	0.032%
JNL Multi-Manager Alternative Fund	Distoken Acquisition Corporation			Equity	8,730	94,982	0.012%
JNL Multi-Manager Alternative Fund	Alteryx Acquisition Corp.	10/29/2026		Equity	2,967	405,33	0.006%
JNL Multi-Manager Alternative Fund	Unigel Luxembourg SA	10/1/2026	8.75	Fixed Income	400,000	100,783	0.013%
JNL Multi-Manager Alternative Fund	Fortune Rise Acquisition Corporation			Equity	64,303	731,768	0.095%
JNL Multi-Manager Alternative Fund	Cartesian Growth Corporation II	7/12/2028		Equity	12,237	162	0.000%
JNL Multi-Manager Alternative Fund	Delivery Hero SE	2/21/2030	3.25	Fixed Income	400,000	465,715	0.061%
JNL Multi-Manager Alternative Fund	Delivery Hero SE	2/21/2030	3.25	Fixed Income	100,000	116,429	0.015%
JNL Multi-Manager Alternative Fund	Direct Selling Acquisition Corp.			Equity	28,606	319,815	0.042%
JNL Multi-Manager Alternative Fund	Zapp Electric Vehicles Group Limited	4/28/2028		Equity	6,785	67	0.000%
JNL Multi-Manager Alternative Fund	Avaya, Inc.	8/1/2028	12.75	Fixed Income	299,845	262,770	0.034%
JNL Multi-Manager Alternative Fund	Avaya, Inc.			Equity	-1,905	12,383	0.002%
JNL Multi-Manager Alternative Fund	Avaya Holdings Corp.			Equity	29,381	190,977	0.025%
JNL Multi-Manager Alternative Fund	TMT Acquisition Corp.			Equity	15,141	170,261	0.022%
JNL Multi-Manager Alternative Fund	WFRBS Commercial Mortgage Trust 2013-C14	6/15/2046	3.49	Fixed Income	61,209	61,209	0.008%
JNL Multi-Manager Alternative Fund	Jaws Mustang Acquisition Corp.	1/30/2026		Equity	11,567	267	0.000%
JNL Multi-Manager Alternative Fund	Vitamin Odco Holdings, Inc.			Equity	3,463	173	0.000%
JNL Multi-Manager Alternative Fund	Oak Woods Acquisition Corporation			Equity	11,827	126,549	0.017%
JNL Multi-Manager Alternative Fund	TMT Acquisition Corp.	3/27/2028		Equity	11,242	3,069	0.004%
JNL Multi-Manager Alternative Fund	Israel Acquisitions Corp.	12/1/2027		Equity	14,686	454	0.000%
JNL Multi-Manager Alternative Fund	Spring Valley Acquisition Corp. II	2/25/2026		Equity	3,589	327	0.000%
JNL Multi-Manager Alternative Fund	Spring Valley Acquisition Corp. II	2/25/2026		Equity	1,794	67	0.000%
JNL Multi-Manager Alternative Fund	MoneyGram International, Inc.	6/1/2030	9.00	Fixed Income	268,000	265,275	0.035%
JNL Multi-Manager Alternative Fund	Trjectory Alpha Acquisition Corp.			Equity	12,634	12,634	0.001%
JNL Multi-Manager Alternative Fund	Pegsystems Inc.	3/1/2025	0.75	Fixed Income	3,824,000	3,735,920	0.487%
JNL Multi-Manager Alternative Fund	Mellen Energy & Metals S.A.			Equity	-18,223	(718,382)	-0.094%
JNL Multi-Manager Alternative Fund	Homlymes Power Electronics Inc.			Equity	46,018	1,085,745	0.142%
JNL Multi-Manager Alternative Fund	Metals Acquisition Limited			Equity	601	8,421	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Riverbed Holdings, Inc.			Equity	7,247	72	0.000%
JNL Multi-Manager Alternative Fund	Amifinity Investment Corp. I			Equity	5,474	63	0.000%
JNL Multi-Manager Alternative Fund	Electric Power Holdings, Inc.	1/25/2028		Equity	4,472	0	0.000%
JNL Multi-Manager Alternative Fund	Ares Acquisition Corp II			Equity	132,786	1,438,072	0.188%
JNL Multi-Manager Alternative Fund	Bowen Acquisition Corp.			Equity	9,974	104,727	0.014%
JNL Multi-Manager Alternative Fund	Liberty Media Corporation	9/30/2053	2.38	Fixed Income	1,859,000	2,212,051	0.288%
JNL Multi-Manager Alternative Fund	CSC Systems International, Inc.	9/15/2028	3.88	Fixed Income	696,000	696,300	0.091%
JNL Multi-Manager Alternative Fund	Michael Kors (USA), Inc.	11/1/2024	4.25	Fixed Income	2,016,000	2,047,422	0.267%
JNL Multi-Manager Alternative Fund	CBI STS de LLC	12/31/2026	12.70	Fixed Income	506,612	515,431	0.067%
JNL Multi-Manager Alternative Fund	JetBlue Airways Corporation	4/1/2026	0.50	Fixed Income	266,000	(248,568)	-0.032%
JNL Multi-Manager Alternative Fund	Canex Energy Ltd.	11/24/2025	5.75	Fixed Income	400,000	722,303	0.093%
JNL Multi-Manager Alternative Fund	Expedia Group, Inc.	2/15/2026		Fixed Income	1,754,000	1,671,062	0.218%
JNL Multi-Manager Alternative Fund	Ford Motor Company	3/15/2026		Fixed Income	248,000	(243,459)	-0.032%
JNL Multi-Manager Alternative Fund	PSS ASA	3/31/2027	13.50	Fixed Income	1,600,000	1,751,495	0.228%
JNL Multi-Manager Alternative Fund	Nabors Energy Transition Corp.			Equity	65,901	701,545	0.092%
JNL Multi-Manager Alternative Fund	Nabors Energy Transition Corp.	9/1/2028		Equity	9,133	822	0.000%
JNL Multi-Manager Alternative Fund	Haymaker Acquisition Corp. IV			Equity	11,939	127,270	0.017%
JNL Multi-Manager Alternative Fund	Haymaker Acquisition Corp. IV	9/12/2028		Equity	5,969	955	0.000%
JNL Multi-Manager Alternative Fund	Keen Vision Acquisition Corporation			Equity	26,898	289,422	0.038%
JNL Multi-Manager Alternative Fund	Keen Vision Acquisition Corporation	9/15/2028		Equity	26,898	1,294	0.000%
JNL Multi-Manager Alternative Fund	Golden Star Acquisition Corporation	3/30/2025		Equity	9,676	3	0.000%
JNL Multi-Manager Alternative Fund	NCH Atlasco Corporation			Equity	15,846	452,086	0.059%
JNL Multi-Manager Alternative Fund	Western Digital Corporation	11/15/2028	3.00	Fixed Income	149,000	722,228	0.093%
JNL Multi-Manager Alternative Fund	Horizon Space Acquisition I Corp.			Equity	46,714	523,197	0.068%
JNL Multi-Manager Alternative Fund	Gintlog Technologies Co., Ltd.			Equity	102,300	1,203,684	0.157%
JNL Multi-Manager Alternative Fund	Chart Industries, Inc.	11/15/2024	1.00	Fixed Income	1,072,000	2,279,691	0.297%
JNL Multi-Manager Alternative Fund	Global Lights Acquisition Corp.			Equity	1,862	83,269	0.011%
JNL Multi-Manager Alternative Fund	Insulet Corporation	9/1/2026	0.38	Fixed Income	1,503,000	1,806,847	0.236%
JNL Multi-Manager Alternative Fund	Chambal Fertilisers and Chemicals Limited			Equity	69,061	437,766	0.057%
JNL Multi-Manager Alternative Fund	Colombier Acquisition Corp.			Equity	8,530	87,688	0.011%
JNL Multi-Manager Alternative Fund	Global Lights Acquisition Corp.			Equity	8,220	85,981	0.011%
JNL Multi-Manager Alternative Fund	Globalink Investments, Inc.			Equity	15,235	172,765	0.023%
JNL Multi-Manager Alternative Fund	Merit Medical Systems, Inc.	2/1/2029	3.00	Fixed Income	251,000	327,487	0.043%
JNL Multi-Manager Alternative Fund	Repligen Corporation	12/15/2028	1.00	Fixed Income	175,000	182,167	0.024%
JNL Multi-Manager Alternative Fund	Eve Mobility Acquisition Corp.	12/31/2028		Equity	4,281	167	0.000%
JNL Multi-Manager Alternative Fund	Lantheus Holdings, Inc.	12/15/2027	2.63	Fixed Income	626,000	979,664	0.127%
JNL Multi-Manager Alternative Fund	Marriott Vacations Worldwide Corporation	12/15/2027	3.25	Fixed Income	176,000	164,379	0.021%
JNL Multi-Manager Alternative Fund	Evergreen Corp.	2/8/2027		Equity	9,733	295	0.000%
JNL Multi-Manager Alternative Fund	Argo Capital Acquisition Corporation	3/23/2028		Equity	9,733	70	0.000%
JNL Multi-Manager Alternative Fund	CONMED Corporation	6/15/2027	2.25	Fixed Income	990,000	925,103	0.121%
JNL Multi-Manager Alternative Fund	Pershing Square SPARC Holdings, Ltd.	12/31/2033		Equity	1,262	379	0.000%
JNL Multi-Manager Alternative Fund	Pershing Square SPARC Holdings, Ltd.	12/31/2033		Equity	6,467	1,940	0.000%
JNL Multi-Manager Alternative Fund	The Chef's Warehouse, Inc.	12/15/2028	2.38	Fixed Income	826,000	969,445	0.126%
JNL Multi-Manager Alternative Fund	Ampl Tech Group, Inc.			Equity	16,657	172,657	0.023%
JNL Multi-Manager Alternative Fund	AI Transportation Acquisition Corp.			Equity	9,597	100,577	0.013%
JNL Multi-Manager Alternative Fund	Acropolis Infrastructure Acquisition Corp.			Equity	16,963	0	0.000%
JNL Multi-Manager Alternative Fund	Arcaidum Lithium PLC			Equity	97,760	(278,616)	-0.036%
JNL Multi-Manager Alternative Fund	Climastock			Equity	9,119	90,933	0.012%
JNL Multi-Manager Alternative Fund	OPKO Health, Inc.	1/15/2029	3.75	Fixed Income	773,000	1,036,555	0.135%
JNL Multi-Manager Alternative Fund	Hangzhou GreatStar Industrial Co. Ltd.			Equity	205,800	915,225	0.119%
JNL Multi-Manager Alternative Fund	Vinnemago Industries, Inc.	1/15/2030	3.25	Fixed Income	62,000	61,205	0.008%
JNL Multi-Manager Alternative Fund	PAR Technology Corporation	4/1/2028	2.88	Fixed Income	610,244	843,234	0.110%
JNL Multi-Manager Alternative Fund	Pyne Biomedical Ltd.	1/25/2029		Equity	4,024	51	0.000%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	11/20/2051	3.50	Fixed Income	3,970,344	728,974	0.095%
JNL Multi-Manager Alternative Fund	Hyundai Motor Company			Equity	-4,013	(249,938)	-0.033%
JNL Multi-Manager Alternative Fund	Hemmonics Corporation	3/1/2026		Fixed Income	497,000	459,715	0.060%
JNL Multi-Manager Alternative Fund	Tevogen Bio Holdings Inc.	2/14/2029		Equity	3,940	51	0.000%
JNL Multi-Manager Alternative Fund	Lyft, Inc.	5/15/2025	1.50	Fixed Income	223,000	217,564	0.028%
JNL Multi-Manager Alternative Fund	Collegium Pharmaceutical, Inc.	2/15/2029	2.88	Fixed Income	977,000	1,232,067	0.161%
JNL Multi-Manager Alternative Fund	Dropbox, Inc.	3/1/2026		Fixed Income	750,000	725,542	0.095%
JNL Multi-Manager Alternative Fund	The Cooper Companies, Inc.			Equity	29,361	278,824	0.036%
JNL Multi-Manager Alternative Fund	Dayforce, Inc.	3/15/2026	0.25	Fixed Income	498,000	468,824	0.061%
JNL Multi-Manager Alternative Fund	Coimbase Global, Inc.	6/1/2026	0.50	Fixed Income	256,000	248,598	0.032%
JNL Multi-Manager Alternative Fund	FTAC Emerald Acquisition Corp.			Equity	12,727	137,961	0.018%
JNL Multi-Manager Alternative Fund	Super Micro Computer, Inc.	3/1/2029		Fixed Income	539,000	433,193	0.056%
JNL Multi-Manager Alternative Fund	Bukit Jali Global Acquisition 1 Ltd	5/2/2029		Equity	3,123	94	0.000%
JNL Multi-Manager Alternative Fund	Bukit Jali Global Acquisition 1 Ltd	12/30/2024		Equity	6,246	750	0.000%
JNL Multi-Manager Alternative Fund	Great Wolf Trust 2024-WOLF	3/16/2026	8.80	Fixed Income	500,000	502,890	0.066%
JNL Multi-Manager Alternative Fund	Qentia Acquisition Corporation			Equity	22,255	231,245	0.030%
JNL Multi-Manager Alternative Fund	Integra LifeSciences Holdings Corporation	8/15/2025	0.50	Fixed Income	2,540,000	2,415,425	0.315%
JNL Multi-Manager Alternative Fund	Gol Finance LLP	1/29/2025	15.82	Fixed Income	1,763,219	1,887,285	0.246%
JNL Multi-Manager Alternative Fund	Gol Finance LLP	1/29/2025	15.82	Fixed Income	2,338,126	2,502,645	0.326%
JNL Multi-Manager Alternative Fund	IAHF Holding Corp.	9/1/2026	0.13	Fixed Income	92,000	823,145	0.107%
JNL Multi-Manager Alternative Fund	Papaya Growth Opportunity Corp. I	12/31/2028		Equity	4,380	127	0.000%
JNL Multi-Manager Alternative Fund	Ihythm Technologies, Inc.	9/1/2029	1.50	Fixed Income	154,000	137,220	0.018%
JNL Multi-Manager Alternative Fund	Sofi Technologies, Inc.	3/15/2029	1.25	Fixed Income	1,132,000	1,208,300	0.158%
JNL Multi-Manager Alternative Fund	Naco Pharma Limited			Equity	44,074	152,074	0.019%
JNL Multi-Manager Alternative Fund	MicroStrategy Incorporated	3/15/2030	0.63	Fixed Income	1,485,000	1,960,670	0.256%
JNL Multi-Manager Alternative Fund	Tandem Diabetes Care, Inc.	3/15/2029	1.50	Fixed Income	1,636,000	2,395,076	0.312%
JNL Multi-Manager Alternative Fund	Sphere Entertainment Co.	12/1/2028	3.50	Fixed Income	282,000	412,922	0.054%
JNL Multi-Manager Alternative Fund	Agriculture & Natural Solutions Acquisition Corp.			Equity	73,459	760,301	0.099%
JNL Multi-Manager Alternative Fund	Spark I Acquisition Corp.			Equity	19,850	208,425	0.027%
JNL Multi-Manager Alternative Fund	Agriculture & Natural Solutions Acquisition Corp.	10/1/2028		Equity	39,328	9,439	0.001%
JNL Multi-Manager Alternative Fund	Spark I Acquisition Corp.	10/1/2030		Equity	9,925	1,290	0.000%
JNL Multi-Manager Alternative Fund	Amel Health Technology Co., Ltd.			Equity	15,458	162,077	0.021%
JNL Multi-Manager Alternative Fund	Qentia Acquisition Corporation	11/30/2024		Equity	1,790	2,327	0.000%
JNL Multi-Manager Alternative Fund	Amel Health Technology Co., Ltd.	11/17/2028		Equity	15,458	3,555	0.000%
JNL Multi-Manager Alternative Fund	Zeo Energy Corp.	3/13/2029		Equity	3,464	176	0.000%
JNL Multi-Manager Alternative Fund	Encore Capital Group, Inc.	3/15/2029	4.00	Fixed Income	1,280,000	1,284,823	0.168%
JNL Multi-Manager Alternative Fund	MicroStrategy Incorporated	3/15/2031		Fixed Income	-276,000	(288,446)	-0.038%
JNL Multi-Manager Alternative Fund	Plug Power Inc.	6/1/2026	7.00	Fixed Income	59,000	52,616	0.007%
JNL Multi-Manager Alternative Fund	Piericent, Inc.	11/15/2026	0.13	Fixed Income	377,000	369,065	0.048%
JNL Multi-Manager Alternative Fund	MicroStrategy Incorporated	2/15/2027		Fixed Income	50,000	68,308	0.009%
JNL Multi-Manager Alternative Fund	Vetric Systems Inc.	4/15/2025	0.25	Fixed Income	1,029,000	954,548	0.124%
JNL Multi-Manager Alternative Fund	Cracker Barrel Old Country Store, Inc.	6/15/2026	0.63	Fixed Income	1,522,000	1,392,365	0.182%
JNL Multi-Manager Alternative Fund	Lealand Refcar Term Loan	6/30/2027	12.84	Fixed Income	19,104	12,902	0.002%
JNL Multi-Manager Alternative Fund	ILearniEngines, Inc.	4/16/2029		Equity	13,614	3,608	0.000%
JNL Multi-Manager Alternative Fund	Miron Pharmaceuticals, Inc.	5/1/2029	4.00	Fixed Income	176,000	261,606	0.034%
JNL Multi-Manager Alternative Fund	Meritage Homes Corporation	5/15/2028	1.75	Fixed Income	50,000	57,385	0.007%
JNL Multi-Manager Alternative Fund	Ready Capital Mortgage Financing 2022-FL10, LLC	7/25/2027	9.10	Fixed Income	300,000	301,376	0.039%
JNL Multi-Manager Alternative Fund	Danimer Scientific, Inc.	7/15/2025		Equity	4,900	992	0.000%
JNL Multi-Manager Alternative Fund	Snap Inc.	5/1/2030	0.50	Fixed Income	901,000	426,253	0.056%
JNL Multi-Manager Alternative Fund	Viavi Solutions Inc.	3/15/2026	1.63	Fixed Income	1,465,000	1,450,785	0.189%
JNL Multi-Manager Alternative Fund	MKS Instruments, Inc.	6/1/2030	1.25	Fixed Income	173,000	174,464	0.023%
JNL Multi-Manager Alternative Fund	DT Cloud Acquisition Corp.			Equity	7,530	77,634	0.010%
JNL Multi-Manager Alternative Fund	Legato Merger Corp. III			Equity	20,643	210,455	0.027%
JNL Multi-Manager Alternative Fund	Legato Merger Corp.	5/8/2031		Equity	10,321	1,548	0.000%
JNL Multi-Manager Alternative Fund	DT Cloud Acquisition Corp.	2/14/2029		Equity	7,530	1,657	0.000%
JNL Multi-Manager Alternative Fund	Iron Horse Acquisitions Corp.			Equity	10,812	110,174	0.014%
JNL Multi-Manager Alternative Fund	Iron Horse Acquisitions Corp.	12/30/2024		Equity	10,812	811	0.000%
JNL Multi-Manager Alternative Fund	Ampl Tech Group, Inc.	5/15/2025		Equity	13,389	2,010	0.000%
JNL Multi-Manager Alternative Fund	Iron Horse Acquisitions Corp.	12/27/2028		Equity	10,812	271	0.000%
JNL Multi-Manager Alternative Fund	Vecco Instruments Inc.	6/1/2029	2.88	Fixed Income	277,000	376,038	0.049%
JNL Multi-Manager Alternative Fund	Cytokinetics, Incorporated	7/1/2027	3.50	Fixed Income	882,000	1,149,617	0.150%
JNL Multi-Manager Alternative Fund	Alarm Com Holdings, Inc.	6/1/2029	2.25	Fixed Income	25,000	23,847	0.003%
JNL Multi-Manager Alternative Fund	Inhibrx, Inc.	1/7/2031		Equity	10,538	7,904	0.001%
JNL Multi-Manager Alternative Fund	Microchip Technology Incorporated	6/1/2030	0.75	Fixed Income	248,000	246,615	0.032%
JNL Multi-Manager Alternative Fund	Amynis, Inc.	11/15/2026	1.50	Fixed Income	2,856,000	48,135	0.006%
JNL Multi-Manager Alternative Fund	Fortuna Mining Corp.	6/30/2029	3.75	Fixed Income	249,000	266,567	0.035%
JNL Multi-Manager Alternative Fund	Granite Construction Incorporated	6/15/2030	3.25	Fixed Income	198,000	244,641	0.032%
JNL Multi-Manager Alternative Fund	Alibaba Group Holding Limited	6/1/2031	0.50	Fixed Income	-1,238,000	(1,533,478)	-0.200%
JNL Multi-Manager Alternative Fund	Desktop Metal Operating, Inc.			Equity	-9,002	(42,400)	-0.005%
JNL Multi-Manager Alternative Fund	MicroStrategy Incorporated	6/15/2032	2.25	Fixed Income	50,000	55,266	0.007%
JNL Multi-Manager Alternative Fund	BBSCMS Mortgage Trust 2024-SC27	7/17/2057	2.97	Fixed Income	3,110,000	360,176	0.047%
JNL Multi-Manager Alternative Fund	Arbor Realty Commercial Real Estate Notes 2022-FL1	1/15/2037	7.64	Fixed Income	350,000	344,704	0.045%
JNL Multi-Manager Alternative Fund	Sunbird Engine Finance Limited	2/15/2027	6.78	Fixed Income	362,132	335,573	0.044%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	12/20/2050	3.50	Fixed Income	3,465,569	3,449,583	0.045%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	2/20/2052	3.50	Fixed Income	3,775,049	643,278	0.084%
JNL Multi-Manager Alternative Fund	Liberty Broadband Corporation	6/30/2054	3.13	Fixed Income	495,000	538,389	0.070%
JNL Multi-Manager Alternative Fund	Hill CRE CLO 2021-FL1, Ltd.	6/19/2036	7.43	Fixed Income	350,000	344,050	0.045%
JNL Multi-Manager Alternative Fund	Grif Global Corp.			Equity	87,753	87,753	0.011%
JNL Multi-Manager Alternative Fund	Fortuna Mining Corp.			Equity	-26,502	(122,004)	-0.016%
JNL Multi-Manager Alternative Fund	Kronos Acquisition Holdings Inc	6/30/2031	8.25	Fixed Income	131,000	134,039	0.017%
JNL Multi-Manager Alternative Fund	Kronos Acquisition Holdings Inc	6/30/2032	10.75	Fixed Income	65,000	64,543	0.008%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association	9/20/2051	3.00	Fixed Income	3,839,163	645,084	0.084%
JNL Multi-Manager Alternative Fund	Maxon Solar Technologies, Ltd.	11/15/2028		Equity	81,000	0	0.000%
JNL Multi-Manager Alternative Fund	Maxon Solar Technologies, Ltd.	11/15/2028	9.50	Fixed Income	297,769	194,091	0.025%
JNL Multi-Manager Alternative Fund	CSMC Trust 2017-PFHP	12/15/2030	6.09	Fixed Income	340,000	329,996	0.043%
JNL Multi-Manager Alternative Fund	MF1 2024-FL15 LLC	8/18/2041	9.00	Fixed Income	350,000	353,833	0.046%
JNL Multi-Manager Alternative Fund	MF1 2023-FL12 LLC	10/19/2029		Fixed Income	360,000	363,013	0.046%
JNL Multi-Manager Alternative Fund	Repay Holdings Corporation	7/15/2029	2.88	Fixed Income	25,000	24,500	0.003%
JNL Multi-Manager Alternative Fund	STWD 2021-FL2, Ltd.	4/16/2038	7.01	Fixed Income	100,000	97,993	0.013%
JNL Multi-Manager Alternative Fund	STWD 2021-FL2, Ltd.	4/16/2038	7.31	Fixed Income	300,000	294,443	0.038%
JNL Multi-Manager Alternative Fund	Treasury, United States Department of	2/20/2025		Cash Equivalent	14,100,000	13,857	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	SIM Acquisition Corp. I			Equity	46,469	466,549	0.061%
JNL Multi-Manager Alternative Fund	Flight Centre Travel Group Limited	11/1/2028	1.63	Fixed Income	890,000	890,000	0.074%
JNL Multi-Manager Alternative Fund	Ginnie Mae REMIC Trust 2019-091	21/6/2062	0.59	Fixed Income	27,093,053	1,199,946	0.156%
JNL Multi-Manager Alternative Fund	Jiangsu Jieji Microelectronics Co., Ltd.			Equity	209,800	753,547	0.089%
JNL Multi-Manager Alternative Fund	Wuxi Nce Power Co., Ltd.			Equity	139,400	680,155	0.089%
JNL Multi-Manager Alternative Fund	Jazz Investments I Limited	6/15/2026	2.00	Fixed Income	1,022,000	1,024,245	0.134%
JNL Multi-Manager Alternative Fund	PFFP 2024-11 Ltd.	9/19/2039	8.33	Fixed Income	300,000	300,549	0.039%
JNL Multi-Manager Alternative Fund	DevCom, Inc.	11/15/2025	0.25	Fixed Income	753,000	717,542	0.094%
JNL Multi-Manager Alternative Fund	Hawaiian Brand Intellectual Property, Ltd.	4/15/2029	11.00	Fixed Income	52,000	53,240	0.007%
JNL Multi-Manager Alternative Fund	MAPS 2021-1 Trust	6/15/2028	5.44	Fixed Income	29,799	29,160	0.004%
JNL Multi-Manager Alternative Fund	CSAL 2019-C18 Commercial Mortgage Trust	6/15/2029	4.24	Fixed Income	360,000	303,554	0.040%
JNL Multi-Manager Alternative Fund	Shenzhen Topband Co., Ltd.			Equity	365,100	585,524	0.076%
JNL Multi-Manager Alternative Fund	Ferguson Enterprises Inc.	21/9/2030		Equity	6,002	1,196,559	0.156%
JNL Multi-Manager Alternative Fund	BRSP Ltd	21/9/2030	6.51	Fixed Income	317,000	317,046	0.041%
JNL Multi-Manager Alternative Fund	SMART Global Holdings, Inc.	9/1/2029	2.00	Fixed Income	882,000	891,572	0.116%
JNL Multi-Manager Alternative Fund	ANI Pharmaceuticals, Inc.	9/1/2029	2.25	Fixed Income	902,000	951,095	0.124%
JNL Multi-Manager Alternative Fund	WisdomTree, Inc.	8/15/2029	3.25	Fixed Income	1,092,000	1,139,143	0.149%
JNL Multi-Manager Alternative Fund	Voyager Acquisition Corp.			Equity	18,002	180,020	0.023%
JNL Multi-Manager Alternative Fund	Core Scientific, Inc.			Equity	-3,712	(44,024)	-0.006%
JNL Multi-Manager Alternative Fund	Mara Holdings, Inc.	9/1/2031	2.13	Fixed Income	247,000	284,447	0.037%
JNL Multi-Manager Alternative Fund	Core Scientific, Inc.	9/1/2029	3.00	Fixed Income	50,000	69,057	0.009%
JNL Multi-Manager Alternative Fund	Biddeer Technologies Group			Equity	-30,323	(237,429)	-0.031%
JNL Multi-Manager Alternative Fund	SilverBox Corp IV			Equity	17,700	177,531	0.023%
JNL Multi-Manager Alternative Fund	Biddeer Technologies Group	8/15/2029	8.50	Fixed Income	335,000	399,248	0.052%
JNL Multi-Manager Alternative Fund	Wells Fargo Commercial Mortgage Trust 2024-C63	8/17/2057	2.51	Fixed Income	1,840,000	321,087	0.042%
JNL Multi-Manager Alternative Fund	Banks 2024-5YH9	9/17/2029	4.00	Fixed Income	325,000	277,333	0.036%
JNL Multi-Manager Alternative Fund	Questet Wireless Solutions Co., Ltd.			Equity	45,700	315,639	0.041%
JNL Multi-Manager Alternative Fund	Chongqing Baiya Sanitary Products Co., Ltd.			Equity	115,100	434,935	0.057%
JNL Multi-Manager Alternative Fund	Hanzhou Changchuan Technology Co., Ltd.			Equity	29,500	158,203	0.021%
JNL Multi-Manager Alternative Fund	Jd Air Limited	4/15/2026	4.95	Fixed Income	363,096	344,025	0.045%
JNL Multi-Manager Alternative Fund	Op S.A. - Em Recuperacao Judicial	6/30/2027	10.00	Fixed Income	99,643	86,146	0.011%
JNL Multi-Manager Alternative Fund	Op S.A. - Em Recuperacao Judicial	12/31/2028	8.50	Fixed Income	220,944	218,683	0.028%
JNL Multi-Manager Alternative Fund	Ready Capital Mortgage Financing 2021-FL6, LLC	7/25/2036	7.37	Fixed Income	300,000	296,724	0.039%
JNL Multi-Manager Alternative Fund	Jazz Investments I Limited	9/15/2030	3.13	Fixed Income	1,190,000	1,240,828	0.162%
JNL Multi-Manager Alternative Fund	RBCUS 20241007 5.4 MAT-ROYCUS3XXXX	10/7/2024	5.40	Cash Equivalent	-2,718,000	(2,728,193)	-0.356%
JNL Multi-Manager Alternative Fund	MF1 2024-FL14 Ltd.	31/9/2039	9.80	Fixed Income	300,000	300,000	0.000%
JNL Multi-Manager Alternative Fund	Treasury, United States Department of	4/17/2025		Cash Equivalent	14,800,000	14,474,807	1.887%
JNL Multi-Manager Alternative Fund	Government National Mortgage Association Guaranteed Remic Pass-Through Securities, The	8/20/2051	3.00	Fixed Income	5,580,516	913,411	0.119%
JNL Multi-Manager Alternative Fund	Federal Home Loan Mortgage Corporation	8/25/2051	3.00	Fixed Income	3,721,310	588,922	0.078%
JNL Multi-Manager Alternative Fund	Op S.A. - Em Recuperacao Judicial			Equity	442	2,000	0.000%
JNL Multi-Manager Alternative Fund	Treasury, United States Department of	8/31/2026	3.75	Fixed Income	-3,865,000	(3,883,733)	-0.506%
JNL Multi-Manager Alternative Fund	Business Jet Securities 2024-2, LLC	9/15/2030	7.97	Fixed Income	550,000	601,034	0.078%
JNL Multi-Manager Alternative Fund	Andretti Acquisition Corp. II			Equity	19,056	190,580	0.025%
JNL Multi-Manager Alternative Fund	Zhejiang Jingan Pharmaceutical Co., Ltd.			Equity	269,200	488,320	0.064%
JNL Multi-Manager Alternative Fund	Cury Construtora E Incorporadora S.A.			Equity	47,100	194,445	0.025%
JNL Multi-Manager Alternative Fund	RBCUS 20241007 5.4 MAT-ROYCUS3XXXX	10/7/2024	5.40	Cash Equivalent	-400,000	(401,260)	-0.052%
JNL Multi-Manager Alternative Fund	Treasury, United States Department of	10/8/2024		Cash Equivalent	-23,000,000	(22,979,245)	-2.996%
JNL Multi-Manager Alternative Fund	DevCom, Inc.	5/15/2028	0.38	Fixed Income	251,000	221,738	0.029%
JNL Multi-Manager Alternative Fund	BMO 2024-SC8 Mortgage Trust	9/17/2057	4.50	Fixed Income	330,000	291,661	0.038%
JNL Multi-Manager Alternative Fund	BSRPT 2021-FL7 Issuer, Ltd.	12/15/2038	8.61	Fixed Income	300,000	292,520	0.038%
JNL Multi-Manager Alternative Fund	Argentina, Republic of	12/1/2037	8.74	Fixed Income	330,000	323,851	0.042%
JNL Multi-Manager Alternative Fund	Vishay Intertechnology, Inc.	9/15/2030	2.25	Fixed Income	778,000	712,434	0.091%
JNL Multi-Manager Alternative Fund	Pharming Group N.V.	4/25/2029	4.50	Fixed Income	500,000	538,764	0.070%
JNL Multi-Manager Alternative Fund	Upstart Holdings, Inc.	10/1/2029	2.00	Fixed Income	644,000	705,893	0.092%
JNL Multi-Manager Alternative Fund	Rapid7, Inc.	3/15/2029	1.25	Fixed Income	263,000	246,709	0.032%
JNL Multi-Manager Alternative Fund	Cayson Acquisition Corp.			Equity	6,797	68,106	0.009%
JNL Multi-Manager Alternative Fund	Snowflake Inc.	10/1/2027		Fixed Income	50,000	51,928	0.007%
JNL Multi-Manager Alternative Fund	Snowflake Inc.	10/1/2029		Fixed Income	50,000	51,327	0.007%
JNL Multi-Manager Alternative Fund	Seagate HDD Cayman	6/1/2028	3.50	Fixed Income	248,000	355,663	0.046%
JNL Multi-Manager Alternative Fund	McDermott Tanks Escrow LC	12/31/2026	10.09	Fixed Income	87,959	49,282	0.006%
JNL Multi-Manager Alternative Fund	McDermott International, Ltd			Equity	425,792	71,427	0.009%
JNL Multi-Manager Alternative Fund	Te Connectivity Public Limited Company			Equity	15,656	2,363,899	0.308%
JNL Multi-Manager Alternative Fund	H.I.G. RCP 2023-FL1, LLC	9/21/2038	8.95	Fixed Income	400,000	401,475	0.052%
Total Non Derivatives							763,563,830
Derivatives							
JNL Multi-Manager Alternative Fund	Bought AUD / Sold USD			Derivative		188,472	0.025%
JNL Multi-Manager Alternative Fund	Bought GBP / Sold USD			Derivative		(168)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(20,358)	-0.003%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(18,654)	-0.002%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(1,193)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(2,096)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(184)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(2,590)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(2,834)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(5,194)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(3,448)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(17,823)	-0.002%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(11,114)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(3,724)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(7,353)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(8,967)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(1,519)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(8,655)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(2,792)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(17,662)	-0.002%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(6,419)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(1,663)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(485)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(23,869)	-0.003%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(3,151)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(23,560)	-0.003%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(340)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(98)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(343)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(4,118)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(13,788)	-0.002%
JNL Multi-Manager Alternative Fund	Bought USD / Sold AUD			Derivative		(2,474)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(6,525)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(3,227)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(2,199)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(7,564)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(6,390)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(16,885)	-0.002%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(1,174)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(1,591)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(1,627)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold SEK			Derivative		(1,319)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(5,379)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(5,797)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(357)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(491)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(2,474)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(847)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(913)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(891)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(5)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(178,140)	-0.023%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(4,127)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(239)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(4,428)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(1,148)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(1,232)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(6,423)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(1,192)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(5,385)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(13,541)	-0.002%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(2,390)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(258)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(1,071)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(772)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(1,224)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold JPY			Derivative		(2,155)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(5,521)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(6,602)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(3,514)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(1,911)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(464)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(1,487)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(412)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(611)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(1,054)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(541)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(10,454)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(72)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(458)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(172)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		0	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,201)	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(222)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		162	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		14	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,052)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(276)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(583)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,327)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		(85)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,062)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(336)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(593)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,835)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(604)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(307)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		508	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,054)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(717)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(8,130)	-0.001%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(3,082)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(954)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(490)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		477	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(252)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		(1,054)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		334	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		307	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold GBP			Derivative		272	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold EUR			Derivative		998	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold HKD			Derivative		(601)	0.000%
JNL Multi-Manager Alternative Fund	Bought USD / Sold CAD			Derivative		289	0.000%
JNL Multi-Manager Alternative Fund	Endeavor Group Holdings, Inc. OPTION			Derivative	-308	(47,749)	-0.000%
JNL Multi-Manager Alternative Fund	Envistat, Inc. OPTION	-10		Derivative	-10	(695)	0.000%
JNL Multi-Manager Alternative Fund	Kellanova OPTION			Derivative	-121	(364)	0.000%
JNL Multi-Manager Alternative Fund	Kellanova OPTION			Derivative	-76	(1,520)	0.000%
JNL Multi-Manager Alternative Fund	Vista Outdoor Inc. OPTION			Derivative	-192	(29,760)	-0.004%
JNL Multi-Manager Alternative Fund	Brooks-Meyers South Company TOTAL RETURN SWAP			Derivative	22,643	19,224	0.000%
JNL Multi-Manager Alternative Fund	Brookfield Property Preferred LP TOTAL RETURN SWAP			Derivative	2,308	12,047	0.002%
JNL Multi-Manager Alternative Fund	Chesapeake Energy Corporation TOTAL RETURN SWAP			Derivative	4,053,091	71,416	0.009%
JNL Multi-Manager Alternative Fund	Capital One Financial Corporation TOTAL RETURN SWAP			Derivative	588,235	(42,969)	-0.006%
JNL Multi-Manager Alternative Fund	ConocoPhillips TOTAL RETURN SWAP			Derivative	2,407	508	0.000%
JNL Multi-Manager Alternative Fund	Chevron Corporation TOTAL RETURN SWAP			Derivative	15,150,508	(167,041)	-0.022%
JNL Multi-Manager Alternative Fund	Fox Corporation TOTAL RETURN SWAP			Derivative	334,039	(19,975)	-0.003%
JNL Multi-Manager Alternative Fund	International Paper Company TOTAL RETURN SWAP			Derivative	2,453,657	(286,401)	-0.037%
JNL Multi-Manager Alternative Fund	Renascant Corporation TOTAL RETURN SWAP			Derivative	380,799	(4,026)	0.000%
JNL Multi-Manager Alternative Fund	Schlumberger Limited TOTAL RETURN SWAP			Derivative	3,657,254	337,632	0.004%
JNL Multi-Manager Alternative Fund	Synopsys, Inc. TOTAL RETURN SWAP			Derivative	453,479	46,962	0.006%
JNL Multi-Manager Alternative Fund	Southstate Corporation TOTAL RETURN SWAP			Derivative	530,246	(103,609)	-0.014%
JNL Multi-Manager Alternative Fund	UMB Financial Corporation TOTAL RETURN SWAP			Derivative	1,208,563	(128,862)	-0.017%
JNL Multi-Manager Alternative Fund	Willscot Holdings Corporation TOTAL RETURN SWAP			Derivative	88,158	1,987	0.000%
JNL Multi-Manager Alternative Fund	Shinko Electric Industries Co., Ltd. TOTAL RETURN SWAP			Derivative	65,269	87,814	0.011%
JNL Multi-Manager Alternative Fund	Brinvc PLC TOTAL RETURN SWAP			Derivative	127,132	20,939	0.003%
JNL Multi-Manager Alternative Fund	Daktrace PLC TOTAL RETURN SWAP			Derivative	124,384	37,204	0.005%
JNL Multi-Manager Alternative Fund	Hargreaves Lansdown PLC TOTAL RETURN SWAP			Derivative	57,478	15,507	0.002%
JNL Multi-Manager Alternative Fund	Kindred Group PLC TOTAL RETURN SWAP			Derivative	108,408	129,113	0.017%
JNL Multi-Manager Alternative Fund	Neoen TOTAL RETURN SWAP			Derivative	59,345	94,261	0.012%
JNL Multi-Manager Alternative Fund	DS Smith PLC TOTAL RETURN SWAP			Derivative	63,698	114,032	0.015%
JNL Multi-Manager Alternative Fund	Sprint Communications PLC TOTAL RETURN SWAP			Derivative	145,680	(8,487)	-0.001%
JNL Multi-Manager Alternative Fund	Chesapeake Energy Corporation TOTAL RETURN SWAP			Derivative	484,795	50,149	0.007%
JNL Multi-Manager Alternative Fund	International Paper Company TOTAL RETURN SWAP			Derivative	1,359,581	(282,568)	-0.037%
JNL Multi-Manager Alternative Fund	South Street Corp. TOTAL RETURN SWAP			Derivative	16,854	(1,551)	0.000%
JNL Multi-Manager Alternative Fund	Brinvc PLC TOTAL RETURN SWAP			Derivative	10,871	(59)	0.000%
JNL Multi-Manager Alternative Fund	Daktrace PLC TOTAL RETURN SWAP			Derivative	364,677	101,257	0.013%
JNL Multi-Manager Alternative Fund	DS Smith PLC TOTAL RETURN SWAP			Derivative	634,986	812,326	0.106%
JNL Multi-Manager Alternative Fund	Willscot Holdings Corporation OPTION	-8		Derivative	-8	(2,160)	0.000%
JNL Multi-Manager Alternative Fund	Willscot Holdings Corporation OPTION	-13		Derivative	-13	(8,497)	0.000%
JNL Multi-Manager Alternative Fund	Estun Automation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	49,346	(15,001)	-0.002%
JNL Multi-Manager Alternative Fund	Huizhou Desay SV Automotive Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	27,553	(11,237)	-0.001%
JNL Multi-Manager Alternative Fund	POSCO Future M Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	283,969	(3,155)	0.000%
JNL Multi-Manager Alternative Fund	YULON Motor Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	144,392	10,046	0.001%
JNL Multi-Manager Alternative Fund	SonoScape Medical Corp. CONTRACT FOR DIFFERENCE			Derivative	74,230	(5,505)	-0.001%
JNL Multi-Manager Alternative Fund	CSPC Innovation Pharmaceutical Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	59,301	(20,325)	-0.003%
JNL Multi-Manager Alternative Fund	SerComm Corporation CONTRACT FOR DIFFERENCE			Derivative	276,664	(9,653)	-0.001%
JNL Multi-Manager Alternative Fund	Sunshine City Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	407,346	(14,436)	-0.002%
JNL Multi-Manager Alternative Fund	Starpower Semiconductor Ltd. CONTRACT FOR DIFFERENCE			Derivative	181,885	(9,148)	-0.001%
JNL Multi-Manager Alternative Fund	Jiangsu Pacific Quartz Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	307,978	119,208	0.016%
JNL Multi-Manager Alternative Fund	MGI Tech Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	230,285	(11,141)	-0.001%
JNL Multi-Manager Alternative Fund	PT. Air Corporindo CONTRACT FOR DIFFERENCE			Derivative	19,496	1,217	0.000%
JNL Multi-Manager Alternative Fund	PT Unilever Indonesia, Tbk. CONTRACT FOR DIFFERENCE			Derivative	533,840	85,988	0.011%
JNL Multi-Manager Alternative Fund	Shanxi Coking Coal Energy Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	362,605	(30,266)	-0.004%
JNL Multi-Manager Alternative Fund	Zhejiang Shuangshan Drilling Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	183,501	(43,375)	-0.006%
JNL Multi-Manager Alternative Fund	POSCO Future M Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	209,433	51,914	0.007%
JNL Multi-Manager Alternative Fund	Hanwha Solutions Corporation CONTRACT FOR DIFFERENCE			Derivative	283,592	29,292	0.004%
JNL Multi-Manager Alternative Fund	Hansol Chemical Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	261,217	97,388	0.013%
JNL Multi-Manager Alternative Fund	LG H&H Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	531,520	242,565	0.032%
JNL Multi-Manager Alternative Fund	Ecopro Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	168,725	31,903	0.004%
JNL Multi-Manager Alternative Fund	Amerapacific Corporation CONTRACT FOR DIFFERENCE			Derivative	184,814	(8,474)	-0.001%
JNL Multi-Manager Alternative Fund	China Shenhuo Energy Company Limited CONTRACT FOR DIFFERENCE			Derivative	1,075,308	(61,947)	-0.008%
JNL Multi-Manager Alternative Fund	Cowell E Holdings Inc. CONTRACT FOR DIFFERENCE			Derivative	1,957,777	(87,959)	-0.011%
JNL Multi-Manager Alternative Fund	Fortune Electric Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	267,591	(54,810)	-0.007%
JNL Multi-Manager Alternative Fund	Yadeo Group Holdings Ltd. CONTRACT FOR DIFFERENCE			Derivative	1,529,368	(70,833)	-0.009%
JNL Multi-Manager Alternative Fund	Tsintao Brewery Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	2,158,523	(44,085)	-0.006%
JNL Multi-Manager Alternative Fund	Lotus Pharmaceutical Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	225,342	7,802	0.001%
JNL Multi-Manager Alternative Fund	Budweiser Brewing Company APAC Limited CONTRACT FOR DIFFERENCE			Derivative	6,746,960	145,429	0.019%
JNL Multi-Manager Alternative Fund	China Coal Energy Company Limited CONTRACT FOR DIFFERENCE			Derivative	999,139	(80,216)	-0.010%
JNL Multi-Manager Alternative Fund	Samsonite International S.A. CONTRACT FOR DIFFERENCE			Derivative	2,163,794	6,171	0.001%
JNL Multi-Manager Alternative Fund	King Slide Works Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	333,452	(25,632)	-0.003%
JNL Multi-Manager Alternative Fund	YULON Motor Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	284,683	39,893	0.005%
JNL Multi-Manager Alternative Fund	China Motor Corporation CONTRACT FOR DIFFERENCE			Derivative	136,686	(10,292)	-0.001%
JNL Multi-Manager Alternative Fund	Acton Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	495,689	(69,917)	-0.009%
JNL Multi-Manager Alternative Fund	Elite Material Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	102,055	14,480	0.002%
JNL Multi-Manager Alternative Fund	Advanced Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	380,447	(1,673)	0.000%
JNL Multi-Manager Alternative Fund	ELAN Microelectronics Corporation CONTRACT FOR DIFFERENCE			Derivative	1,053,694	(62,386)	-0.008%
JNL Multi-Manager Alternative Fund	Ecopro BM Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	460,400	100,097	0.013%
JNL Multi-Manager Alternative Fund	Aerospace Industrial Development Corporation CONTRACT FOR DIFFERENCE			Derivative	262,365	(2,251)	0.000%
JNL Multi-Manager Alternative Fund	Chunbo Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	210,165	158,139	0.021%
JNL Multi-Manager Alternative Fund	Kakao Games Corp. CONTRACT FOR DIFFERENCE			Derivative	436,874	101,337	0.013%
JNL Multi-Manager Alternative Fund	Novatek Microelectronics Corporation CONTRACT FOR DIFFERENCE			Derivative	604,507	(11,294)	-0.001%
JNL Multi-Manager Alternative Fund	Global Unichip Corp. CONTRACT FOR DIFFERENCE			Derivative	251,205	39,189	0.005%
JNL Multi-Manager Alternative Fund	LG Chem, Ltd. CONTRACT FOR DIFFERENCE			Derivative	623,030	59,042	0.008%
JNL Multi-Manager Alternative Fund	Nuvoton Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	269,049	86,255	0.011%
JNL Multi-Manager Alternative Fund	ASMedia Technology Inc. CONTRACT FOR DIFFERENCE			Derivative	157,864	3,213	0.000%
JNL Multi-Manager Alternative Fund	SerComm Corporation CONTRACT FOR DIFFERENCE			Derivative	277,194	(13,933)	-0.002%
JNL Multi-Manager Alternative Fund	Yankuang Energy Group Company Limited CONTRACT FOR DIFFERENCE			Derivative	195,731	(30,309)	-0.004%
JNL Multi-Manager Alternative Fund	Pingdingshan Yituan Coal Mining Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	97,460	(26,308)	-0.003%
JNL Multi-Manager Alternative Fund	Starpower Semiconductor Ltd. CONTRACT FOR DIFFERENCE			Derivative	88,279	(2,599)	0.000%
JNL Multi-Manager Alternative Fund	Kumyang Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	187,661	55,082	0.007%
JNL Multi-Manager Alternative Fund	Ennocom Corporation CONTRACT FOR DIFFERENCE			Derivative	266,020	(48)	0.000%
JNL Multi-Manager Alternative Fund	Great Tree Pharmacy Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	472,798	59,596	0.008%
JNL Multi-Manager Alternative Fund	Bora Pharmaceuticals Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	112,151	30,392	0.004%
JNL Multi-Manager Alternative Fund	Laserteck Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	46,803,868	9,687	0.001%
JNL Multi-Manager Alternative Fund	ROHM Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	47,002,303	59,444	0.008%
JNL Multi-Manager Alternative Fund	Tokyo Electron Limited CONTRACT FOR DIFFERENCE			Derivative	6,261,949	(28,432)	-0.004%
JNL Multi-Manager Alternative Fund	Phison Electronics Corporation CONTRACT FOR DIFFERENCE			Derivative	545,973	(13,220)	-0.002%
JNL Multi-Manager Alternative Fund	Nongfu Spring Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	1,980,027	(45,795)	-0.006%
JNL Multi-Manager Alternative Fund	Remegen, Ltd. CONTRACT FOR DIFFERENCE			Derivative	2,927,647	21,513	0.003%
JNL Multi-Manager Alternative Fund	Adient Public Limited Company CONTRACT FOR DIFFERENCE			Derivative	260,707	(23,205)	-0.003%
JNL Multi-Manager Alternative Fund	Antipageta PLC CONTRACT FOR DIFFERENCE			Derivative	178,054	(22,311)	-0.003%
JNL Multi-Manager Alternative Fund	Airports of Thailand Public Company Limited CONTRACT FOR DIFFERENCE			Derivative	570,302	(119,335)	-0.016%
JNL Multi-Manager Alternative Fund	Arcos Dorados S.A. CONTRACT FOR DIFFERENCE			Derivative	536,454	55,364	0.007%
JNL Multi-Manager Alternative Fund	Grupo Aeroportuario del Sureste, S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	466,991	(13,610)	-0.002%
JNL Multi-Manager Alternative Fund	United International Transportation Co. Ltd. CONTRACT FOR DIFFERENCE			Derivative	226,453	(9,030)	-0.001%
JNL Multi-Manager Alternative Fund	CEMEX S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	345,822	(7,545)	0.000%
JNL Multi-Manager Alternative Fund	Dino Polska Spolka Akcyjna CONTRACT FOR DIFFERENCE			Derivative	770,126	(17,306)	-0.002%
JNL Multi-Manager Alternative Fund	New Oriental Education & Technology Group Inc. CONTRACT FOR DIFFERENCE			Derivative	331,627	(26,215)	-0.003%
JNL Multi-Manager Alternative Fund	Ronglian Group Ltd. CONTRACT FOR DIFFERENCE			Derivative	329,369	(18,869)	-0.002%
JNL Multi-Manager Alternative Fund	Helios Towers PLC CONTRACT FOR DIFFERENCE			Derivative	156,847	(7,545)	0.000%
JNL Multi-Manager Alternative Fund	Mobileye Global Inc. CONTRACT FOR DIFFERENCE			Derivative	269,721	25,786	0.003%
JNL Multi-Manager Alternative Fund	Melco Resorts & Entertainment Limited CONTRACT FOR DIFFERENCE			Derivative	101,682	(39,833)	-0.005%
JNL Multi-Manager Alternative Fund	NetEase, Inc. CONTRACT FOR DIFFERENCE			Derivative	341,804	(69,265)	-0.009%
JNL Multi-Manager Alternative Fund	Nova Ltd. CONTRACT FOR DIFFERENCE			Derivative	287,619	(2,000)	-0.000%
JNL Multi-Manager Alternative Fund	Ozon Holdings PLC CONTRACT FOR DIFFERENCE			Derivative	158,320	261,171	0.034%
JNL Multi-Manager Alternative Fund	Raia Drogasil S.A. CONTRACT FOR DIFFERENCE			Derivative	535,464	45,746	0.006%
JNL Multi-Manager Alternative Fund	Reliance Industries Limited CONTRACT FOR DIFFERENCE			Derivative	562,502	6,403	0.001%
JNL Multi-Manager Alternative Fund	S.L.C. Agricola S.A. CONTRACT FOR DIFFERENCE			Derivative	325,150	58,150	0.008%
JNL Multi-Manager Alternative Fund	Santander Bank Polska Spolka Akcyjna CONTRACT FOR DIFFERENCE			Derivative	340,155	1,360	0.000%
JNL Multi-Manager Alternative Fund	Woodworth Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	6,081,231	(47,202)	-0.006%
JNL Multi-Manager Alternative Fund	Wizz Air Holdings PLC CONTRACT FOR DIFFERENCE			Derivative	383,029	(36,283)	-0.005%
JNL Multi-Manager Alternative Fund	NH Investment & Securities Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	20,236	2,663	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	SK Telecom Co. Ltd. CONTRACT FOR DIFFERENCE			Derivative	34,396	76,644	0.010%
JNL Multi-Manager Alternative Fund	LG Electronics Inc. CONTRACT FOR DIFFERENCE			Derivative	2,874	9,741	0.003%
JNL Multi-Manager Alternative Fund	Korea Investment Holdings Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	3,957	19,927	0.003%
JNL Multi-Manager Alternative Fund	Hyundai Glovis Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	4,031	22,939	0.003%
JNL Multi-Manager Alternative Fund	Geely Automobile Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	390,000	168,805	0.022%
JNL Multi-Manager Alternative Fund	Chenow Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	152,400	5,063	0.001%
JNL Multi-Manager Alternative Fund	United Microelectronics Corporation CONTRACT FOR DIFFERENCE			Derivative	523,000	(18,633)	-0.002%
JNL Multi-Manager Alternative Fund	Wuxi AppTec Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	71,200	145,991	0.019%
JNL Multi-Manager Alternative Fund	Sunny Optical Technology (Group) Company Limited CONTRACT FOR DIFFERENCE			Derivative	35,300	42,983	0.006%
JNL Multi-Manager Alternative Fund	Krafton, Inc. CONTRACT FOR DIFFERENCE			Derivative	6,798	101,340	0.013%
JNL Multi-Manager Alternative Fund	WH Group Limited CONTRACT FOR DIFFERENCE			Derivative	1,463,500	145,235	0.019%
JNL Multi-Manager Alternative Fund	Largan Precision Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	3,000	(19,389)	-0.003%
JNL Multi-Manager Alternative Fund	LG Chem, Ltd. CONTRACT FOR DIFFERENCE			Derivative	1,361	98,531	0.013%
JNL Multi-Manager Alternative Fund	China Fehie Limited CONTRACT FOR DIFFERENCE			Derivative	320,000	70,135	0.009%
JNL Multi-Manager Alternative Fund	Sterng Corp. CONTRACT FOR DIFFERENCE			Derivative	28,000	28,000	0.004%
JNL Multi-Manager Alternative Fund	Techtronic Industries Company Limited CONTRACT FOR DIFFERENCE			Derivative	87,000	339,964	0.044%
JNL Multi-Manager Alternative Fund	Ninebot Limited CONTRACT FOR DIFFERENCE			Derivative	80,938	33,025	0.004%
JNL Multi-Manager Alternative Fund	Tencent Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	48,300	277,344	0.036%
JNL Multi-Manager Alternative Fund	Nien Made Enterprise Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	22,000	(3,292)	-0.000%
JNL Multi-Manager Alternative Fund	Alibaba Group Holding Limited CONTRACT FOR DIFFERENCE			Derivative	258,400	895,958	0.117%
JNL Multi-Manager Alternative Fund	America Movil, S.A.B. De C.V. CONTRACT FOR DIFFERENCE			Derivative	2,976,500	(30,631)	-0.004%
JNL Multi-Manager Alternative Fund	Minerva S.A. CONTRACT FOR DIFFERENCE			Derivative	166,200	(14,754)	-0.002%
JNL Multi-Manager Alternative Fund	DBS Group Holdings Ltd. CONTRACT FOR DIFFERENCE			Derivative	11,824	36,521	0.005%
JNL Multi-Manager Alternative Fund	Public Joint Stock Company Children's World CONTRACT FOR DIFFERENCE			Derivative	560,770	(283,693)	-0.037%
JNL Multi-Manager Alternative Fund	ICL Group Ltd. CONTRACT FOR DIFFERENCE			Derivative	64,726	5,079	0.001%
JNL Multi-Manager Alternative Fund	ITAU Unibanco Holding SA CONTRACT FOR DIFFERENCE			Derivative	78,167	11,883	0.002%
JNL Multi-Manager Alternative Fund	ID.com, Inc. CONTRACT FOR DIFFERENCE			Derivative	29,128	327,178	0.042%
JNL Multi-Manager Alternative Fund	Coca-Cola FEMSA S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	4,852	13,800	0.002%
JNL Multi-Manager Alternative Fund	Mosaic Company, The CONTRACT FOR DIFFERENCE			Derivative	7,281	(58,096)	-0.008%
JNL Multi-Manager Alternative Fund	Public Joint Stock Company Sberbank of Russia CONTRACT FOR DIFFERENCE			Derivative	41,476	(1)	0.000%
JNL Multi-Manager Alternative Fund	Samsung Electronics Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	163	(45,275)	-0.003%
JNL Multi-Manager Alternative Fund	Millicom International Cellular SA CONTRACT FOR DIFFERENCE			Derivative	6,425	6,827	0.001%
JNL Multi-Manager Alternative Fund	Shanxi Coking Coal Energy Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	20,884	372	0.000%
JNL Multi-Manager Alternative Fund	Estun Automation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	41,415	(13,700)	-0.002%
JNL Multi-Manager Alternative Fund	China Shenhua Energy Company Limited CONTRACT FOR DIFFERENCE			Derivative	402,056	(4,757)	-0.001%
JNL Multi-Manager Alternative Fund	Cosco Shipping Energy Transportation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	3,855,328	(74,856)	-0.007%
JNL Multi-Manager Alternative Fund	China Coal Energy Company Limited CONTRACT FOR DIFFERENCE			Derivative	348,905	(12,421)	-0.002%
JNL Multi-Manager Alternative Fund	Tokyo Electron Limited CONTRACT FOR DIFFERENCE			Derivative	3,697,410	7,760	0.001%
JNL Multi-Manager Alternative Fund	PT. Sumber Alfaria Trijaya CONTRACT FOR DIFFERENCE			Derivative	180,146	(30,116)	-0.004%
JNL Multi-Manager Alternative Fund	Central Retail Corporation Public Company Limited CONTRACT FOR DIFFERENCE			Derivative	256,922	23,906	0.003%
JNL Multi-Manager Alternative Fund	Gamuda Berhad CONTRACT FOR DIFFERENCE			Derivative	144,405	(107,903)	-0.014%
JNL Multi-Manager Alternative Fund	STO.Express.Ltd. CONTRACT FOR DIFFERENCE			Derivative	316,510	153,563	0.020%
JNL Multi-Manager Alternative Fund	Yankuang Energy Group Company Limited CONTRACT FOR DIFFERENCE			Derivative	1,499,758	(29,128)	-0.004%
JNL Multi-Manager Alternative Fund	Localiza Rent A Car SA CONTRACT FOR DIFFERENCE			Derivative	760,702	(288,008)	-0.038%
JNL Multi-Manager Alternative Fund	Estun Automation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	44,249	(12,679)	-0.002%
JNL Multi-Manager Alternative Fund	Huizhou Desay SV Automotive Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	174,158	(67,581)	-0.009%
JNL Multi-Manager Alternative Fund	Tong Yang Industry Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	488,069	(108,416)	-0.014%
JNL Multi-Manager Alternative Fund	Fortune Electric Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	149,076	(13,570)	-0.002%
JNL Multi-Manager Alternative Fund	Airtac International Group CONTRACT FOR DIFFERENCE			Derivative	324,738	(81,627)	-0.011%
JNL Multi-Manager Alternative Fund	Unigroup Guoxin Microelectronics Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	373,286	51,543	0.007%
JNL Multi-Manager Alternative Fund	Compal Electronics, Inc. CONTRACT FOR DIFFERENCE			Derivative	427,119	(40,858)	-0.005%
JNL Multi-Manager Alternative Fund	Acer Inc. CONTRACT FOR DIFFERENCE			Derivative	248,198	(60,618)	-0.008%
JNL Multi-Manager Alternative Fund	Elite Material Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	100,576	(15,537)	-0.002%
JNL Multi-Manager Alternative Fund	MediaTek Inc. CONTRACT FOR DIFFERENCE			Derivative	726,233	(53,984)	-0.007%
JNL Multi-Manager Alternative Fund	Aerospace Industrial Development Corporation CONTRACT FOR DIFFERENCE			Derivative	72,277	945	0.000%
JNL Multi-Manager Alternative Fund	Shenzhen Inovance Technology Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	585,234	(15,626)	-0.002%
JNL Multi-Manager Alternative Fund	SonoScape Medical Corp. CONTRACT FOR DIFFERENCE			Derivative	23,125	(1,708)	0.000%
JNL Multi-Manager Alternative Fund	Faraday Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	132,046	4,894	0.001%
JNL Multi-Manager Alternative Fund	Lotes Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	435,907	(5,333)	-0.001%
JNL Multi-Manager Alternative Fund	Novotek Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	354,885	(26,504)	-0.003%
JNL Multi-Manager Alternative Fund	ASMedia Technology Inc. CONTRACT FOR DIFFERENCE			Derivative	258,221	(56,856)	-0.007%
JNL Multi-Manager Alternative Fund	SerComm Corporation CONTRACT FOR DIFFERENCE			Derivative	257,627	(35,581)	-0.005%
JNL Multi-Manager Alternative Fund	Pingdingshan Tianan Coal Mining Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	7,682	516	0.000%
JNL Multi-Manager Alternative Fund	Pearlvision Corporation CONTRACT FOR DIFFERENCE			Derivative	348,145	(66,716)	-0.009%
JNL Multi-Manager Alternative Fund	Water Works Corporation CONTRACT FOR DIFFERENCE			Derivative	97,051	23,906	0.003%
JNL Multi-Manager Alternative Fund	MGI Tech Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	42,783	(2,516)	0.000%
JNL Multi-Manager Alternative Fund	Chembro Micom Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	265,361	(15,690)	-0.002%
JNL Multi-Manager Alternative Fund	PT. Akr Corporindo CONTRACT FOR DIFFERENCE			Derivative	198,421	9,821	0.001%
JNL Multi-Manager Alternative Fund	Al Hamoudi Company For Development And Investment CONTRACT FOR DIFFERENCE			Derivative	201,781	(20,138)	-0.003%
JNL Multi-Manager Alternative Fund	PT. Sumber Alfaria Trijaya CONTRACT FOR DIFFERENCE			Derivative	403,100	(63,259)	-0.008%
JNL Multi-Manager Alternative Fund	Lotus Pharmaceutical Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	240,607	(26,146)	-0.003%
JNL Multi-Manager Alternative Fund	Jiumagui International Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	2,508,989	152,903	0.020%
JNL Multi-Manager Alternative Fund	Great Tree Pharmacy Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	375,465	139,476	0.018%
JNL Multi-Manager Alternative Fund	PT. Mitra Adiperkasa Tbk CONTRACT FOR DIFFERENCE			Derivative	314,778	(82,929)	-0.011%
JNL Multi-Manager Alternative Fund	PT Unilever Indonesia, Tbk. CONTRACT FOR DIFFERENCE			Derivative	180,904	24,939	0.003%
JNL Multi-Manager Alternative Fund	Corporacion Inmobiliaria Vesta, S.A.B. DE C.V. CONTRACT FOR DIFFERENCE			Derivative	268,244	18,344	0.002%
JNL Multi-Manager Alternative Fund	Water Works Corporation CONTRACT FOR DIFFERENCE			Derivative	0	(9,440)	-0.000%
JNL Multi-Manager Alternative Fund	Ecopro BM Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	1,218	9,549	0.001%
JNL Multi-Manager Alternative Fund	Acadado S.A. CONTRACT FOR DIFFERENCE			Derivative	506,500	(156,786)	-0.020%
JNL Multi-Manager Alternative Fund	Hypera S.A. CONTRACT FOR DIFFERENCE			Derivative	146,400	(35,471)	-0.005%
JNL Multi-Manager Alternative Fund	Genminal Lab Internacional S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	170,600	53,295	0.007%
JNL Multi-Manager Alternative Fund	Rede D'or Sao Paulo S.A. CONTRACT FOR DIFFERENCE			Derivative	153,006	93,809	0.012%
JNL Multi-Manager Alternative Fund	Controladora Vuela Compania de Aviacion, S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	427,300	(44,137)	-0.006%
JNL Multi-Manager Alternative Fund	KIA Corporation CONTRACT FOR DIFFERENCE			Derivative	134,457	(62,403)	-0.008%
JNL Multi-Manager Alternative Fund	Shanxi Coking Coal Energy Group Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	42,679	(4,761)	-0.001%
JNL Multi-Manager Alternative Fund	Chengshan Sanchua Intelligent Controls Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	786,291	(84,294)	-0.011%
JNL Multi-Manager Alternative Fund	Perfect World Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	261,736	(69,373)	-0.009%
JNL Multi-Manager Alternative Fund	Estun Automation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	97,774	(27,173)	-0.004%
JNL Multi-Manager Alternative Fund	Hyundai Motor Company CONTRACT FOR DIFFERENCE			Derivative	199,443	(101,055)	-0.013%
JNL Multi-Manager Alternative Fund	Hanwha Solutions Corporation CONTRACT FOR DIFFERENCE			Derivative	152,831	22,906	0.003%
JNL Multi-Manager Alternative Fund	Hansol Chemical Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	442,823	374,182	0.023%
JNL Multi-Manager Alternative Fund	Cosco Shipping Energy Transportation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	1,598,989	(56,240)	-0.007%
JNL Multi-Manager Alternative Fund	Cowell E Holdings Inc. CONTRACT FOR DIFFERENCE			Derivative	1,336,952	3,982	0.000%
JNL Multi-Manager Alternative Fund	Fortune Electric Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	128,295	2,975	0.000%
JNL Multi-Manager Alternative Fund	Samsonte International S.A. CONTRACT FOR DIFFERENCE			Derivative	4,241,950	(48,194)	-0.006%
JNL Multi-Manager Alternative Fund	YULON Motor Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	483,714	50,349	0.007%
JNL Multi-Manager Alternative Fund	China Motor Corporation CONTRACT FOR DIFFERENCE			Derivative	254,911	19,525	0.003%
JNL Multi-Manager Alternative Fund	Adventech Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	193,029	9,417	0.001%
JNL Multi-Manager Alternative Fund	Nan Ya Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	728,219	25,006	0.003%
JNL Multi-Manager Alternative Fund	Chunbo Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	572,338	443,391	0.058%
JNL Multi-Manager Alternative Fund	Shenzhen Inovance Technology Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	20,367	(12,001)	-0.002%
JNL Multi-Manager Alternative Fund	SonoScape Medical Corp. CONTRACT FOR DIFFERENCE			Derivative	620,607	(123,867)	-0.016%
JNL Multi-Manager Alternative Fund	Novatek Microelectronics Corporation CONTRACT FOR DIFFERENCE			Derivative	142,738	(4,736)	-0.001%
JNL Multi-Manager Alternative Fund	Faraday Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	240,240	8,858	0.001%
JNL Multi-Manager Alternative Fund	Novotek Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	344,263	50,511	0.007%
JNL Multi-Manager Alternative Fund	ASMedia Technology Inc. CONTRACT FOR DIFFERENCE			Derivative	456,663	(8,718)	-0.001%
JNL Multi-Manager Alternative Fund	Taiwan Semiconductor Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	172,576	16,000	0.002%
JNL Multi-Manager Alternative Fund	Pingdingshan Tianan Coal Mining Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	35,896	(15,158)	-0.002%
JNL Multi-Manager Alternative Fund	Wistron NetWeb Corporation CONTRACT FOR DIFFERENCE			Derivative	825,707	119,176	0.016%
JNL Multi-Manager Alternative Fund	Pearlvision Corporation CONTRACT FOR DIFFERENCE			Derivative	138,285	(18,682)	-0.002%
JNL Multi-Manager Alternative Fund	Positek Corp. CONTRACT FOR DIFFERENCE			Derivative	619,901	(107,840)	-0.014%
JNL Multi-Manager Alternative Fund	Jiumagui International Holdings Limited CONTRACT FOR DIFFERENCE			Derivative	1,623,517	(164,231)	-0.021%
JNL Multi-Manager Alternative Fund	Adient Public Limited Company CONTRACT FOR DIFFERENCE			Derivative	274,793	(10,588)	-0.001%
JNL Multi-Manager Alternative Fund	PT. Akr Corporindo CONTRACT FOR DIFFERENCE			Derivative	10,677	(1,453)	0.000%
JNL Multi-Manager Alternative Fund	Amali Corporation Public Company Limited CONTRACT FOR DIFFERENCE			Derivative	164,579	(62,194)	-0.008%
JNL Multi-Manager Alternative Fund	Acros Dorados S.A. CONTRACT FOR DIFFERENCE			Derivative	68,909	752	0.000%
JNL Multi-Manager Alternative Fund	Axis Bank Limited CONTRACT FOR DIFFERENCE			Derivative	572,664	(23,287)	-0.003%
JNL Multi-Manager Alternative Fund	Budimex Spolka Akcyjna CONTRACT FOR DIFFERENCE			Derivative	502,959	(6,536)	-0.001%
JNL Multi-Manager Alternative Fund	Jumbo S.A. CONTRACT FOR DIFFERENCE			Derivative	458,027	(67,492)	-0.009%
JNL Multi-Manager Alternative Fund	Bid Corporation (Phy) Ltd. CONTRACT FOR DIFFERENCE			Derivative	6,301,580	1,637	0.000%
JNL Multi-Manager Alternative Fund	United International Transportation Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	196,756	(37,172)	-0.005%
JNL Multi-Manager Alternative Fund	Camek Ltd. CONTRACT FOR DIFFERENCE			Derivative	292,499	15,484	0.002%
JNL Multi-Manager Alternative Fund	Compagnie Financiere Richemont SA CONTRACT FOR DIFFERENCE			Derivative	298,503	9,000	0.001%
JNL Multi-Manager Alternative Fund	New Oriental Education & Technology Group Inc. CONTRACT FOR DIFFERENCE			Derivative	145,797	(14,688)	-0.002%
JNL Multi-Manager Alternative Fund	GCC, S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	428,564	109,015	0.014%
JNL Multi-Manager Alternative Fund	Home Product Center Public Company Limited CONTRACT FOR DIFFERENCE			Derivative	493,425	(163,471)	-0.021%
JNL Multi-Manager Alternative Fund	Legram Sports Company CONTRACT FOR DIFFERENCE			Derivative	468,422	(36,867)	-0.005%
JNL Multi-Manager Alternative Fund	Legend Biotech Corp. CONTRACT FOR DIFFERENCE			Derivative	105,007	(6,672)	-0.001%
JNL Multi-Manager Alternative Fund	Land and Houses Public Company Limited CONTRACT FOR DIFFERENCE			Derivative	168,095	(46,437)	-0.006%
JNL Multi-Manager Alternative Fund	Lattice Semiconductor Corporation CONTRACT FOR DIFFERENCE			Derivative	640,707	(68,450)	-0.009%
JNL Multi-Manager Alternative Fund	Lum Rental Co. (LRC) CONTRACT FOR DIFFERENCE			Derivative	519,985	78,986	0.010%
JNL Multi-Manager Alternative Fund	PT. Mitra Adiperkasa Tbk CONTRACT FOR DIFFERENCE			Derivative	36,749	(12,344)	-0.002%
JNL Multi-Manager Alternative Fund	Middle East Healthcare Co. CONTRACT FOR DIFFERENCE			Derivative	257,390	47,021	0.006%
JNL Multi-Manager Alternative Fund	Melco Resorts & Entertainment Limited CONTRACT FOR DIFFERENCE			Derivative	423,425	(131,817)	-0.017%
JNL Multi-Manager Alternative Fund	VK Company Limited CONTRACT FOR DIFFERENCE			Derivative	248,955	80,850	0.012%
JNL Multi-Manager Alternative Fund	Wal-Mart de Mexico S.A.B. de C.V. CONTRACT FOR DIFFERENCE			Derivative	382,950	119,137	0.015%
JNL Multi-Manager Alternative Fund	WHA Corporation Public Company Limited CONTRACT FOR DIFFERENCE			Derivative	268,084	(39,973)	-0.005%
JNL Multi-Manager Alternative Fund	Hitegroup Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	21,777	2,323	0.000%
JNL Multi-Manager Alternative Fund	Koreair Air Lines Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	34,551	65,165	0.008%
JNL Multi-Manager Alternative Fund	Samsung Electro-Mechanics Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	2,055	(2,731)	-0.000%
JNL Multi-Manager Alternative Fund	Samsung Securities Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	10,880	7,552	0.001%
JNL Multi-Manager Alternative Fund	Coway Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	13,847	26,541	0.003%
JNL Multi-Manager Alternative Fund	KT Corporation CONTRACT FOR DIFFERENCE			Derivative	18,989	65,168	0.008%
JNL Multi-Manager Alternative Fund	Sino Biopharmaceutical Limited CONTRACT FOR DIFFERENCE			Derivative	980,071	112,426	0.015%
JNL Multi-Manager Alternative Fund	AAC Technologies Holdings Inc. CONTRACT FOR DIFFERENCE			Derivative	91,000	27,869	0.004%
JNL Multi-Manager Alternative Fund	Goldwind Science&Technology Co., Ltd. CONTRACT FOR DIFFERENCE			Derivative	860,800	114,117	0.015%
JNL Multi-Manager Alternative Fund	Walsin Technology Corporation CONTRACT FOR DIFFERENCE			Derivative	50,000	(6,141)	-0.001%
JNL Multi-Manager Alternative Fund	Tingyi (Cayman Islands) Holding Corp. CONTRACT FOR DIFFERENCE			Derivative	256,000	21,674	0.003%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Alternative Fund	Pharmaron Beijing Co., Ltd. CONTRACT FOR DIFFERENCE		169.20%	Derivative	106,072	0.014%	
JNL Multi-Manager Alternative Fund	Alepek S.A.B. de C.V. CONTRACT FOR DIFFERENCE		544.30%	Derivative	(67,838)	-0.009%	
JNL Multi-Manager Alternative Fund	Minerva S.A. CONTRACT FOR DIFFERENCE		109.10%	Derivative	(3,387)	0.000%	
JNL Multi-Manager Alternative Fund	Grupo Simba S.A.B. de C.V. CONTRACT FOR DIFFERENCE		61.90%	Derivative	(15,772)	-0.002%	
JNL Multi-Manager Alternative Fund	BRF S.A. CONTRACT FOR DIFFERENCE		175.50%	Derivative	173,074	0.023%	
JNL Multi-Manager Alternative Fund	Embraer S.A. CONTRACT FOR DIFFERENCE		115.60%	Derivative	12,659	0.002%	
JNL Multi-Manager Alternative Fund	Banco Activoar, S.A., Institucion de Banca Multiple, Grupo Financiero Activoar CONTRACT FOR DIFFERENCE		270.90%	Derivative	(26,952)	-0.005%	
JNL Multi-Manager Alternative Fund	GDS Holdings Ltd. CONTRACT FOR DIFFERENCE		34.79%	Derivative	117,198	0.015%	
JNL Multi-Manager Alternative Fund	Headhunter Group PLC CONTRACT FOR DIFFERENCE		13.70%	Derivative	(227,262)	-0.030%	
JNL Multi-Manager Alternative Fund	JBS S.A. CONTRACT FOR DIFFERENCE		63.70%	Derivative	40,388	0.005%	
JNL Multi-Manager Alternative Fund	K1 Corporation CONTRACT FOR DIFFERENCE		34,241	Derivative	(4,209)	-0.001%	
JNL Multi-Manager Alternative Fund	Ligas Renner S/A. CONTRACT FOR DIFFERENCE		243,600	Derivative	13,358	0.002%	
JNL Multi-Manager Alternative Fund	Marfrig Global Foods S.A. CONTRACT FOR DIFFERENCE		88.00%	Derivative	17,802	0.002%	
JNL Multi-Manager Alternative Fund	Oversea-Chinese Banking Corporation Limited CONTRACT FOR DIFFERENCE		47.50%	Derivative	(7,207)	-0.001%	
JNL Multi-Manager Alternative Fund	Teva Pharmaceutical Industries Ltd. CONTRACT FOR DIFFERENCE		19.374	Derivative	1,202	0.000%	
JNL Multi-Manager Alternative Fund	Millicom International Cellular SA CONTRACT FOR DIFFERENCE		14.77%	Derivative	15,707	0.002%	
JNL Multi-Manager Alternative Fund	Vibra Energia S/A CONTRACT FOR DIFFERENCE		41.40%	Derivative	(7,861)	-0.001%	
JNL Multi-Manager Alternative Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED		40	Derivative	8,040	0.001%	
JNL Multi-Manager Alternative Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED		50	Derivative	10,019	0.001%	
JNL Multi-Manager Alternative Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED		70	Derivative	3,675	0.000%	
JNL Multi-Manager Alternative Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED		-10	Derivative	(2,209)	0.000%	
JNL Multi-Manager Alternative Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED		-35	Derivative	3,204	0.000%	
JNL Multi-Manager Alternative Fund	Apothy Pharmaceuticals, Inc. OPTION		25	Derivative	375	0.000%	
JNL Multi-Manager Alternative Fund	Cohesus Biosciences, Inc. OPTION		97	Derivative	362	0.000%	
JNL Multi-Manager Alternative Fund	DigitalOcean Holdings, Inc. OPTION		25	Derivative	250	0.000%	
JNL Multi-Manager Alternative Fund	Evident Health, Inc. OPTION		25	Derivative	658	0.000%	
JNL Multi-Manager Alternative Fund	Innovwood Pharmaceuticals, Inc. OPTION		25	Derivative	73	0.000%	
JNL Multi-Manager Alternative Fund	Topgolf Callaway Brands Corp. OPTION		25	Derivative	325	0.000%	
JNL Multi-Manager Alternative Fund	Sirius XM Holdings Inc. OPTION		17	Derivative	136	0.000%	
Total Derivatives						3,362,953	
Total All Investments						766,926,683	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager Emerging Markets Equity Fund	Cash			Cash Equivalent	118.242	118.242	0.013%
JNL Multi-Manager Emerging Markets Equity Fund	Joint Stock Company KaspiKz			Equity	50.069	5,878.924	0.657%
JNL Multi-Manager Emerging Markets Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	5,541.564	5,576.395	0.623%
JNL Multi-Manager Emerging Markets Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	777.780	780.569	0.087%
JNL Multi-Manager Emerging Markets Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	6,061.702	6,071.096	0.678%
JNL Multi-Manager Emerging Markets Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	956.006	973.036	0.109%
JNL Multi-Manager Emerging Markets Equity Fund	Petroleo Brasileiro S/A Petrobras			Equity	631.700	4,301.260	0.481%
JNL Multi-Manager Emerging Markets Equity Fund	Adani Green Energy (UP) Limited			Equity	206.738	4,724.953	0.528%
JNL Multi-Manager Emerging Markets Equity Fund	Trent Limited			Equity	12.084	1,098.587	0.123%
JNL Multi-Manager Emerging Markets Equity Fund	Duzun Bizon Co., Ltd.			Equity	74.612	11,905.274	1.338%
JNL Multi-Manager Emerging Markets Equity Fund	INPost S.A.			Equity	211.290	4,000.471	0.447%
JNL Multi-Manager Emerging Markets Equity Fund	Kuashou Technology			Equity	547.400	3,766.671	0.421%
JNL Multi-Manager Emerging Markets Equity Fund	Couponj, Inc.			Equity	198.493	4,873.003	0.545%
JNL Multi-Manager Emerging Markets Equity Fund	National Bank of Greece SA			Equity	29.751	203.345	0.023%
JNL Multi-Manager Emerging Markets Equity Fund	Rightmove PLC			Equity	981.804	8,170.628	0.913%
JNL Multi-Manager Emerging Markets Equity Fund	NARI Technology Co., Ltd.			Equity	1,400.000	5,485.341	0.613%
JNL Multi-Manager Emerging Markets Equity Fund	Trp.com Group Limited			Equity	91.250	5,489.199	0.613%
JNL Multi-Manager Emerging Markets Equity Fund	Companhia Paranaense De Energia			Equity	223.600	375.971	0.042%
JNL Multi-Manager Emerging Markets Equity Fund	International Holdings Limited			Equity	34.763	3,851.879	0.430%
JNL Multi-Manager Emerging Markets Equity Fund	Momo.Com Inc.			Equity	178.080	2,215.129	0.248%
JNL Multi-Manager Emerging Markets Equity Fund	China Offshore Services Limited			Equity	1,637.700	3,741.819	0.418%
JNL Multi-Manager Emerging Markets Equity Fund	Adani Energy Solutions Limited			Equity	172.597	2,097.514	0.234%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Novatek			Equity	149.810	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Joint Stock Company Kaspi.Kz			Equity	22.896	2,426.747	0.271%
JNL Multi-Manager Emerging Markets Equity Fund	Joint Stock Company Kaspi.Kz			Equity	9.395	995.776	0.111%
JNL Multi-Manager Emerging Markets Equity Fund	Caranthus Limited			Equity	227.645	9,951.917	0.442%
JNL Multi-Manager Emerging Markets Equity Fund	Adani Enterprises Limited			Equity	142.044	5,346.186	0.597%
JNL Multi-Manager Emerging Markets Equity Fund	Full Truck Alliance Co. Ltd.			Equity	256.387	2,310.047	0.258%
JNL Multi-Manager Emerging Markets Equity Fund	Baltic Classifieds Group PLC			Equity	4,917.305	20,076.518	2.244%
JNL Multi-Manager Emerging Markets Equity Fund	Meituan			Equity	375.000	7,883.634	0.882%
JNL Multi-Manager Emerging Markets Equity Fund	P.T. Avia Avian			Equity	63,352.973	2,086.171	0.233%
JNL Multi-Manager Emerging Markets Equity Fund	Tegma Gestao Logistica S.A.			Equity	1,466.362	7,243.387	0.809%
JNL Multi-Manager Emerging Markets Equity Fund	Qualitas Controladora, S.A.B. de C.V.			Equity	443.600	3,469.497	0.388%
JNL Multi-Manager Emerging Markets Equity Fund	Qualitas Controladora, S.A.B. de C.V.			Equity	341.283	2,669.253	0.298%
JNL Multi-Manager Emerging Markets Equity Fund	NU Holdings Ltd			Equity	833.071	11,992.274	1.338%
JNL Multi-Manager Emerging Markets Equity Fund	Grupa Pracy Spółka Akcyjna			Equity	781.576	10,979.268	1.227%
JNL Multi-Manager Emerging Markets Equity Fund	JSW Energy Limited			Equity	201.980	1,777.248	0.199%
JNL Multi-Manager Emerging Markets Equity Fund	Zomato Limited			Equity	1,681.864	5,516.148	0.616%
JNL Multi-Manager Emerging Markets Equity Fund	Macrotech Developers Limited			Equity	89.216	1,251.146	0.148%
JNL Multi-Manager Emerging Markets Equity Fund	Caixa Seguradora Participacoes S/A			Equity	2,300.634	6,157.322	0.688%
JNL Multi-Manager Emerging Markets Equity Fund	SCB X Public Company Limited			Equity	403.200	1,365.432	0.153%
JNL Multi-Manager Emerging Markets Equity Fund	Adani Power Limited			Equity	490.953	3,858.485	0.431%
JNL Multi-Manager Emerging Markets Equity Fund	PT Dayaminta Telekomunikasi			Equity	70.221.000	1,968.428	0.220%
JNL Multi-Manager Emerging Markets Equity Fund	Grab Holdings Limited			Equity	1,296.156	4,925.393	0.550%
JNL Multi-Manager Emerging Markets Equity Fund	Leono Industrial Inc.			Equity	43.982	6,429.655	0.719%
JNL Multi-Manager Emerging Markets Equity Fund	Patanjali Foods Limited			Equity	88.225	1,775.624	0.198%
JNL Multi-Manager Emerging Markets Equity Fund	Adnec Drilling Company PJSC			Equity	2,170.751	2,197.146	0.243%
JNL Multi-Manager Emerging Markets Equity Fund	KFIN Technologies Limited			Equity	340.484	4,173.701	0.466%
JNL Multi-Manager Emerging Markets Equity Fund	Banco de Chile			Equity	36,586.116	4,665.841	0.521%
JNL Multi-Manager Emerging Markets Equity Fund	Vale S.A.			Equity	50.295	587.823	0.066%
JNL Multi-Manager Emerging Markets Equity Fund	NoviDA Corporation			Equity	66	9,951.917	0.442%
JNL Multi-Manager Emerging Markets Equity Fund	Credicorp Ltd.			Equity	31.986	5,881.323	0.657%
JNL Multi-Manager Emerging Markets Equity Fund	Cognizant Technology Solutions Corporation			Equity	49.400	3,812.692	0.426%
JNL Multi-Manager Emerging Markets Equity Fund	Centrais Eletricas Brasileiras S/A			Equity	225.300	1,625.326	0.182%
JNL Multi-Manager Emerging Markets Equity Fund	Banco Do Brasil SA			Equity	278.700	1,400.631	0.157%
JNL Multi-Manager Emerging Markets Equity Fund	Exxon Mobil Corporation			Equity	29.385	3,092.850	0.346%
JNL Multi-Manager Emerging Markets Equity Fund	Colgate-Palmolive Company			Equity	37.521	3,895.055	0.435%
JNL Multi-Manager Emerging Markets Equity Fund	Coca-Cola Company, The			Equity	35.645	2,578.738	0.288%
JNL Multi-Manager Emerging Markets Equity Fund	GRUMA, S.A.B. de C.V.			Equity	127.985	2,371.590	0.265%
JNL Multi-Manager Emerging Markets Equity Fund	Grupo Mexico S.A.B. de C.V.			Equity	738.070	4,095.393	0.458%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Sberbank of Russia			Equity	543.927	1	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bangkok Bank Public Company Limited			Equity	477.100	2,232.784	0.250%
JNL Multi-Manager Emerging Markets Equity Fund	Eclat Textile Corporation Ltd.			Equity	142.000	2,431.655	0.272%
JNL Multi-Manager Emerging Markets Equity Fund	SK Hynix Inc.			Equity	31.577	1,251.146	0.148%
JNL Multi-Manager Emerging Markets Equity Fund	SK Hynix Inc.			Equity	30.567	4,116.721	0.460%
JNL Multi-Manager Emerging Markets Equity Fund	CIMB Group Holdings Berhad			Equity	2,467.988	4,822.488	0.539%
JNL Multi-Manager Emerging Markets Equity Fund	Hon Hai Precision Industry Co., Ltd.			Equity	619.000	3,673.218	0.410%
JNL Multi-Manager Emerging Markets Equity Fund	DBS Group Holdings Ltd			Equity	31.713	1,401.129	0.156%
JNL Multi-Manager Emerging Markets Equity Fund	Clicks Group			Equity	135.019	3,100.638	0.346%
JNL Multi-Manager Emerging Markets Equity Fund	Kweichow Moutai Co.,Ltd.			Equity	12.400	3,052.956	0.341%
JNL Multi-Manager Emerging Markets Equity Fund	Haw Par Corporation Limited			Equity	592.900	4,998.174	0.559%
JNL Multi-Manager Emerging Markets Equity Fund	MediaTek Inc.			Equity	131.140	4,987.146	0.549%
JNL Multi-Manager Emerging Markets Equity Fund	MediaTek Inc.			Equity	128.000	4,779.870	0.534%
JNL Multi-Manager Emerging Markets Equity Fund	Bhars Airtel Limited			Equity	143.110	2,927.492	0.327%
JNL Multi-Manager Emerging Markets Equity Fund	Shree Cement Limited			Equity	9.179	2,891.504	0.323%
JNL Multi-Manager Emerging Markets Equity Fund	Shinhan Financial Group Co., Ltd.			Equity	107.639	4,947.129	0.549%
JNL Multi-Manager Emerging Markets Equity Fund	Capitec Bank Holdings			Equity	37.077	6,509.875	0.727%
JNL Multi-Manager Emerging Markets Equity Fund	Sun Pharma Advanced Research Company Limited			Equity	165.694	3,819.334	0.427%
JNL Multi-Manager Emerging Markets Equity Fund	S-1 Corporation			Equity	86.834	3,934.817	0.440%
JNL Multi-Manager Emerging Markets Equity Fund	Reliance Industries Limited			Equity	170.916	6,033.090	0.674%
JNL Multi-Manager Emerging Markets Equity Fund	Kotak Mahindra Bank Limited			Equity	250.985	5,562.631	0.622%
JNL Multi-Manager Emerging Markets Equity Fund	Hyundai Motor Company			Equity	29.293	5,491.020	0.614%
JNL Multi-Manager Emerging Markets Equity Fund	FirstRand Limited			Equity	865.166	4,158.474	0.465%
JNL Multi-Manager Emerging Markets Equity Fund	PetroChina Company Limited			Equity	4,000.000	3,343.374	0.374%
JNL Multi-Manager Emerging Markets Equity Fund	China Resources Land Limited			Equity	854.000	4,101.046	0.454%
JNL Multi-Manager Emerging Markets Equity Fund	TravelSky Technology Limited			Equity	1,955.000	2,876.911	0.321%
JNL Multi-Manager Emerging Markets Equity Fund	China Resources Gas Group Limited			Equity	637.500	2,569.892	0.287%
JNL Multi-Manager Emerging Markets Equity Fund	Tingtao Brewery Co., Ltd.			Equity	206.000	1,599.780	0.179%
JNL Multi-Manager Emerging Markets Equity Fund	PT Sienten Indonesia (Persero) Tbk			Equity	5,281.101	5,124.101	0.568%
JNL Multi-Manager Emerging Markets Equity Fund	Zijin Mining Group Co., Ltd.			Equity	74.000	165.440	0.018%
JNL Multi-Manager Emerging Markets Equity Fund	NTPC Limited			Equity	409.162	2,179.526	0.244%
JNL Multi-Manager Emerging Markets Equity Fund	Ashok Leyland Limited			Equity	1,251.546	3,529.791	0.394%
JNL Multi-Manager Emerging Markets Equity Fund	Shriram Finance Limited			Equity	130.672	1,601.212	0.178%
JNL Multi-Manager Emerging Markets Equity Fund	OTP Bank Nyrt.			Equity	93.929	4,908.568	0.549%
JNL Multi-Manager Emerging Markets Equity Fund	PT. Bank Central Asia Tbk			Equity	9,090.000	6,198.478	0.693%
JNL Multi-Manager Emerging Markets Equity Fund	PT. Bank Central Asia Tbk			Equity	6,079.400	4,145.548	0.463%
JNL Multi-Manager Emerging Markets Equity Fund	Singapore Telecommunications Limited			Equity	698.143	6,751.049	0.749%
JNL Multi-Manager Emerging Markets Equity Fund	Samsung Electronics Co., Ltd.			Equity	230.395	10,844.791	1.212%
JNL Multi-Manager Emerging Markets Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	988.000	30,099.024	3.364%
JNL Multi-Manager Emerging Markets Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	259.000	7,884.896	0.881%
JNL Multi-Manager Emerging Markets Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	434.000	13,221.174	1.478%
JNL Multi-Manager Emerging Markets Equity Fund	PT. Bank Rakyat Indonesia (Persero) Tbk.			Equity	17,188.044	5,625.272	0.629%
JNL Multi-Manager Emerging Markets Equity Fund	Techtron Industries Company Limited			Equity	360.000	5,409.858	0.605%
JNL Multi-Manager Emerging Markets Equity Fund	Tenaga Nasional Berhad			Equity	835.600	2,976.893	0.333%
JNL Multi-Manager Emerging Markets Equity Fund	PTCC Property and Casualty Company Limited			Equity	66.000	87.689	0.010%
JNL Multi-Manager Emerging Markets Equity Fund	PT Bank Mandiri (Persero) Tbk.			Equity	8,459.800	3,871.899	0.433%
JNL Multi-Manager Emerging Markets Equity Fund	PT Bank Mandiri (Persero) Tbk.			Equity	9,214.700	4,217.479	0.471%
JNL Multi-Manager Emerging Markets Equity Fund	Grupo Aeroportuario Del Pacifico, S.A.B. de C.V.			Equity	192.261	3,332.199	0.372%
JNL Multi-Manager Emerging Markets Equity Fund	Localiza Rent A Car SA			Equity	5.346	62.700	0.007%
JNL Multi-Manager Emerging Markets Equity Fund	Mercadillo, Inc.			Equity	2.986	4,280.389	0.478%
JNL Multi-Manager Emerging Markets Equity Fund	Haitian International Holdings Limited			Equity	2,003.875	6,373.227	0.712%
JNL Multi-Manager Emerging Markets Equity Fund	Kumba Iron Ore Ltd			Equity	26.487	615.769	0.069%
JNL Multi-Manager Emerging Markets Equity Fund	Adlar Properties - P J S C			Equity	307.504	629.994	0.070%
JNL Multi-Manager Emerging Markets Equity Fund	Vodafone Idea Limited			Equity	5,382.532	1,670.005	0.186%
JNL Multi-Manager Emerging Markets Equity Fund	Adani Ports and Special Economic Zone Limited			Equity	257.503	4,474.661	0.500%
JNL Multi-Manager Emerging Markets Equity Fund	Oversea-Chinese Banking Corporation Limited			Equity	36.628	429.317	0.048%
JNL Multi-Manager Emerging Markets Equity Fund	Cia De Saneamento Basico Do Estado De Sao Paulo SABESP			Equity	391.441	6,485.575	0.725%
JNL Multi-Manager Emerging Markets Equity Fund	China Shenhua Energy Company Limited			Equity	689.500	3,060.151	0.342%
JNL Multi-Manager Emerging Markets Equity Fund	Industrial and Commercial Bank of China Limited			Equity	3,238.000	1,907.302	0.213%
JNL Multi-Manager Emerging Markets Equity Fund	CJ CheilJedang Corp.			Equity	9.020	2,098.911	0.235%
JNL Multi-Manager Emerging Markets Equity Fund	Hindalco Industries Limited			Equity	502.183	4,551.517	0.509%
JNL Multi-Manager Emerging Markets Equity Fund	Sunny Optical Technology (Group) Company Limited			Equity	453.200	3,283.089	0.367%
JNL Multi-Manager Emerging Markets Equity Fund	China Construction Bank Corporation			Equity	4,095.000	3,063.335	0.342%
JNL Multi-Manager Emerging Markets Equity Fund	Multiplex Empreendimentos Imobiliarios S/A			Equity	658.700	3,209.376	0.359%
JNL Multi-Manager Emerging Markets Equity Fund	Embraer S.A.			Equity	625.100	5,531.889	0.618%
JNL Multi-Manager Emerging Markets Equity Fund	Embraer S.A.			Equity	436.800	3,885.598	0.432%
JNL Multi-Manager Emerging Markets Equity Fund	Yangzijiang Shipbuilding (Holdings) Ltd.			Equity	2,377.100	4,552.254	0.509%
JNL Multi-Manager Emerging Markets Equity Fund	Samsung Life Insurance Co., Ltd.			Equity	61.315	4,379.916	0.489%
JNL Multi-Manager Emerging Markets Equity Fund	TotalEnergies SE			Equity	80.490	5,308.309	0.593%
JNL Multi-Manager Emerging Markets Equity Fund	Antofagasta Cement Limited			Equity	383.315	2,810.146	0.312%
JNL Multi-Manager Emerging Markets Equity Fund	ITC Limited			Equity	1,808.756	11,221.174	1.254%
JNL Multi-Manager Emerging Markets Equity Fund	Coal India Ltd Govt Of India Undertaking			Equity	98.624	604.550	0.068%
JNL Multi-Manager Emerging Markets Equity Fund	Powezchny Zaklad Ubezpieczen Spółka Akcyjna			Equity	215.866	2,607.427	0.291%
JNL Multi-Manager Emerging Markets Equity Fund	Hosa International Limited			Equity	7,408.000	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Koh Young Technology Inc.			Equity	346.751	2,837.121	0.317%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Mining And Metallurgical Company Norilsk Nickel			Equity	200.100	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Agricultural Bank of China Limited			Equity	293.000	136.777	0.015%
JNL Multi-Manager Emerging Markets Equity Fund	NMC Health PLC			Equity	110.089	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Meta Platforms, Inc.			Equity	4.861	2,786.638	0.313%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Society Moscow Exchange MICEX-RTS			Equity	2,989.907	3	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Society Moscow Exchange MICEX-RTS			Equity	2,244.710	2	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bank of Ningbo Co., Ltd.			Equity	772.700	2,801.193	0.313%
JNL Multi-Manager Emerging Markets Equity Fund	ASML Holding N.V.			Equity	1.451	1,215.502	0.136%
JNL Multi-Manager Emerging Markets Equity Fund	PT. Sarana Menara Nusantara			Equity	97,312.886	5,502.022	0.615%
JNL Multi-Manager Emerging Markets Equity Fund	Despegar.com.ar SA			Equity	160.720	1,992.928	0.223%
JNL Multi-Manager Emerging Markets Equity Fund	Bangkok Dusit Medical Services Public Company Limited			Equity	2,945.300	2,742.159	0.306%
JNL Multi-Manager Emerging Markets Equity Fund	Sany Heavy Industry Co., Ltd.			Equity	1,631.500	4,361.425	0.487%

Fund Name	Investor	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Emerging Markets Equity Fund	Autohome Inc.			Equity	125,788	4,103,205	0.459%
JNL Multi-Manager Emerging Markets Equity Fund	Sea Limited			Equity	100,982	9,520,583	1.064%
JNL Multi-Manager Emerging Markets Equity Fund	Zijin Mining Group Co., Ltd.			Equity	644,800	1,653,533	0.185%
JNL Multi-Manager Emerging Markets Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	9,924	335,346	0.037%
JNL Multi-Manager Emerging Markets Equity Fund	BOW Steel Limited			Equity	148,957	1,858,234	0.205%
JNL Multi-Manager Emerging Markets Equity Fund	Hundsun Technologies Inc.			Equity	1,493,789	4,812,735	0.538%
JNL Multi-Manager Emerging Markets Equity Fund	American Beverage Co Ambev			Equity	725,463	1,770,130	0.198%
JNL Multi-Manager Emerging Markets Equity Fund	Klabin S.A.			Equity	710,300	2,753,738	0.306%
JNL Multi-Manager Emerging Markets Equity Fund	Silergy Corp			Equity	305,000	4,521,782	0.505%
JNL Multi-Manager Emerging Markets Equity Fund	ICICI Bank Limited			Equity	540,951	8,217,443	0.918%
JNL Multi-Manager Emerging Markets Equity Fund	ICICI Bank Limited			Equity	463,855	7,046,298	0.787%
JNL Multi-Manager Emerging Markets Equity Fund	ICICI Bank Limited			Equity	204,859	3,658,825	0.409%
JNL Multi-Manager Emerging Markets Equity Fund	Vale S.A.			Equity	69,914	1,781,556	0.197%
JNL Multi-Manager Emerging Markets Equity Fund	Grupo Financiero Galicia S.A.			Equity	27,300	1,149,057	0.128%
JNL Multi-Manager Emerging Markets Equity Fund	Globant S.A.			Equity	24,971	4,947,754	0.553%
JNL Multi-Manager Emerging Markets Equity Fund	Banco Bradesco SA			Equity	1,580,100	4,359,749	0.487%
JNL Multi-Manager Emerging Markets Equity Fund	Tencent Holdings Limited			Equity	248,800	13,703,255	1.513%
JNL Multi-Manager Emerging Markets Equity Fund	Tencent Holdings Limited			Equity	75,500	4,191,429	0.468%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Mobile TeleSystems			Equity	101,318	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Fuyao Glass Industry Group Co., Ltd.			Equity	432,068	3,583,724	0.400%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Gazprom			Equity	620,726	1	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Oil Company Lukoil			Equity	47,200	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	YPF S.A.			Equity	567	12,026	0.001%
JNL Multi-Manager Emerging Markets Equity Fund	HDFC Bank Limited			Equity	20,480	1,281,229	0.143%
JNL Multi-Manager Emerging Markets Equity Fund	ASML Holding N.V.			Equity	86	71,460	0.008%
JNL Multi-Manager Emerging Markets Equity Fund	ASE Technology Holding Co., Ltd.			Equity	730,000	3,452,068	0.386%
JNL Multi-Manager Emerging Markets Equity Fund	Public Joint Stock Company Novatek			Equity	612	0	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Wal - Mart de Mexico, S.A.B. de C.V.			Equity	795,500	2,400,236	0.268%
JNL Multi-Manager Emerging Markets Equity Fund	State Bank of India			Equity	372,919	3,516,756	0.390%
JNL Multi-Manager Emerging Markets Equity Fund	Tech Mahindra Limited			Equity	202,160	3,818,513	0.427%
JNL Multi-Manager Emerging Markets Equity Fund	ITAÚ Unibanco Holding SA			Equity	478,697	3,214,391	0.359%
JNL Multi-Manager Emerging Markets Equity Fund	T. Rowe Price Financial Reserve Fund	12/1/2099	4.97	Cash Equivalent	646,431	655,354	0.073%
JNL Multi-Manager Emerging Markets Equity Fund	Petrobras Brasileiro S/A Petrobras			Equity	5,509,816	5,509,816	0.610%
JNL Multi-Manager Emerging Markets Equity Fund	Aluminum Corporation of China Limited			Equity	267,000	535,345	0.059%
JNL Multi-Manager Emerging Markets Equity Fund	Banco BTG Pactual S/A			Equity	454,300	2,791,997	0.312%
JNL Multi-Manager Emerging Markets Equity Fund	Banco BTG Pactual S/A			Equity	414,165	2,545,339	0.284%
JNL Multi-Manager Emerging Markets Equity Fund	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.			Equity	108,200	4,480,341	0.501%
JNL Multi-Manager Emerging Markets Equity Fund	Al Rajhi Banking and Investment Corporation			Equity	64,710	1,598,377	0.178%
JNL Multi-Manager Emerging Markets Equity Fund	Saudi Basic Industries Corporation			Equity	144,756	2,894,120	0.323%
JNL Multi-Manager Emerging Markets Equity Fund	Saudi National Bank, The			Equity	374,072	3,426,005	0.383%
JNL Multi-Manager Emerging Markets Equity Fund	Unilever P.L.C.			Equity	28,930	1,879,293	0.210%
JNL Multi-Manager Emerging Markets Equity Fund	The Company For Cooperative Insurance			Equity	10,331	407,210	0.046%
JNL Multi-Manager Emerging Markets Equity Fund	Saudi British Bank			Equity	456,819	4,229,023	0.473%
JNL Multi-Manager Emerging Markets Equity Fund	BUPA Arabia for Cooperative Insurance Company			Equity	71,971	3,979,443	0.445%
JNL Multi-Manager Emerging Markets Equity Fund	BUPA Arabia for Cooperative Insurance Company			Equity	16,083	889,266	0.099%
JNL Multi-Manager Emerging Markets Equity Fund	Wanhua Chemical Group Co., Ltd.			Equity	229,202	2,944,782	0.329%
JNL Multi-Manager Emerging Markets Equity Fund	Prosus N.V.			Equity	144,516	6,300,328	0.704%
JNL Multi-Manager Emerging Markets Equity Fund	Indraprastha Gas Limited			Equity	659,951	4,463,606	0.499%
JNL Multi-Manager Emerging Markets Equity Fund	Bharat Electronics Limited			Equity	875,935	3,000,635	0.335%
JNL Multi-Manager Emerging Markets Equity Fund	Tripp.com Group Limited			Equity	66,491	695,140	0.044%
JNL Multi-Manager Emerging Markets Equity Fund	Tripp.com Group Limited			Equity	33,685	2,001,900	0.224%
JNL Multi-Manager Emerging Markets Equity Fund	Ecopetrol S.A.			Equity	44,154	394,295	0.044%
JNL Multi-Manager Emerging Markets Equity Fund	Alibaba Group Holding Limited			Equity	886,400	11,933,747	1.334%
JNL Multi-Manager Emerging Markets Equity Fund	Chongqing Brewery Co., Ltd.			Equity	349,000	3,401,235	0.382%
JNL Multi-Manager Emerging Markets Equity Fund	Saudi Arabian Oil Company			Equity	388,265	2,806,127	0.314%
JNL Multi-Manager Emerging Markets Equity Fund	Carlsberg Brewery Malaysia Berhad			Equity	1,296,500	6,253,470	0.699%
JNL Multi-Manager Emerging Markets Equity Fund	Anhui Guoqing Distillery Company Limited			Equity	420,427	6,754,301	0.755%
JNL Multi-Manager Emerging Markets Equity Fund	Kerry T3 Logistics Company Limited			Equity	1,634,000	2,029,301	0.227%
JNL Multi-Manager Emerging Markets Equity Fund	Heineken Malaysia Berhad			Equity	1,515,900	8,590,306	0.960%
JNL Multi-Manager Emerging Markets Equity Fund	TOTVS S.A.			Equity	740,200	3,894,145	0.435%
JNL Multi-Manager Emerging Markets Equity Fund	ADOCN Technology Co. Ltd.			Equity	941,888	4,955,212	0.554%
JNL Multi-Manager Emerging Markets Equity Fund	Nice Information Service Co., Ltd.			Equity	611,002	3,558,628	0.402%
JNL Multi-Manager Emerging Markets Equity Fund	Saramin Co., Ltd.			Equity	616,974	5,014,022	0.560%
JNL Multi-Manager Emerging Markets Equity Fund	Union Auction Public Company Limited			Equity	243,139	3,069,984	0.343%
JNL Multi-Manager Emerging Markets Equity Fund	Union Auction Public Company Limited			Equity	24,952,300	7,340,748	0.820%
JNL Multi-Manager Emerging Markets Equity Fund	Tongcheng Fibron Holdings Limited			Equity	2,005,000	5,054,153	0.565%
JNL Multi-Manager Emerging Markets Equity Fund	Wirtulabs Polska Holding SA			Equity	159,843	3,978,241	0.440%
JNL Multi-Manager Emerging Markets Equity Fund	Sporton International Inc.			Equity	621,237	4,297,661	0.480%
JNL Multi-Manager Emerging Markets Equity Fund	Hi Mando Corporation			Equity	68,057	1,925,023	0.215%
JNL Multi-Manager Emerging Markets Equity Fund	Corporacion Mectormex S.A.B. de C.V.			Equity	1,356,873	5,188,376	0.578%
JNL Multi-Manager Emerging Markets Equity Fund	Humana Public Company Limited			Equity	12,658,500	4,327,585	0.484%
JNL Multi-Manager Emerging Markets Equity Fund	Indiamart Intermesh Limited			Equity	58,766	2,079,634	0.232%
JNL Multi-Manager Emerging Markets Equity Fund	Oracle Financial Services Software Limited			Equity	47,358	6,512,290	0.728%
JNL Multi-Manager Emerging Markets Equity Fund	Vesta Platform Limited			Equity	973,917	2,556,142	0.286%
JNL Multi-Manager Emerging Markets Equity Fund	Grupo Aeronautico Del Pacifico, S.A.B. de C.V.			Equity	17,846	3,193,561	0.347%
JNL Multi-Manager Emerging Markets Equity Fund	Produktio (Shanghai) Network Technology Co., Ltd.			Equity	11,800	1,590,758	0.178%
JNL Multi-Manager Emerging Markets Equity Fund	KE Holdings Inc.			Equity	278,192	5,538,803	0.619%
JNL Multi-Manager Emerging Markets Equity Fund	Hamt County School District			Equity	124,500	1,06,839	0.012%
JNL Multi-Manager Emerging Markets Equity Fund	YoundinWoo Soft Lab Co., Ltd.			Equity	263,218	1,458,126	0.163%
JNL Multi-Manager Emerging Markets Equity Fund	Allegro.ee			Equity	258,802	2,337,253	0.261%
JNL Multi-Manager Emerging Markets Equity Fund	Allegro.ee			Equity	760,573	6,868,771	0.768%
JNL Multi-Manager Emerging Markets Equity Fund	Computer Age Management Services Limited			Equity	119,141	6,302,896	0.704%
JNL Multi-Manager Emerging Markets Equity Fund	Phoenix Mills Limited, The			Equity	217,694	4,993,814	0.537%
JNL Multi-Manager Emerging Markets Equity Fund	True Corporation Public Company Limited			Equity	13,939,400	4,860,412	0.543%
JNL Multi-Manager Emerging Markets Equity Fund	America Movil, S.A.B. De C.V.			Equity	43,400	35,597	0.004%
JNL Multi-Manager Emerging Markets Equity Fund	Max Healthcare Institute Limited			Equity	26,981	319,222	0.036%
JNL Multi-Manager Emerging Markets Equity Fund	ADNOC Logistics & Services PLC			Equity	79,480	1,14,240	0.013%
JNL Multi-Manager Emerging Markets Equity Fund	IDFC First Bank Limited			Equity	1,309,969	1,165,794	0.130%
JNL Multi-Manager Emerging Markets Equity Fund	Futu Holdings Limited			Equity	35,800	3,424,270	0.383%
JNL Multi-Manager Emerging Markets Equity Fund	Tenaris S.A.			Equity	206,684	3,277,460	0.366%
JNL Multi-Manager Emerging Markets Equity Fund	QMR Amrop Infrastructure Limited			Equity	1,271,403	1,435,338	0.160%
JNL Multi-Manager Emerging Markets Equity Fund	Intellect Design Arena Limited			Equity	278,633	3,209,737	0.359%
JNL Multi-Manager Emerging Markets Equity Fund	Jentech Precision Industrial Co., Ltd.			Equity	106,000	4,356,239	0.487%
JNL Multi-Manager Emerging Markets Equity Fund	Celestica Inc.			Equity	119,861	6,127,294	0.685%
JNL Multi-Manager Emerging Markets Equity Fund	BBB Foods Inc.			Equity	82,026	2,460,780	0.275%
JNL Multi-Manager Emerging Markets Equity Fund	HD Hyundai Marine Solution Co., Ltd.			Equity	14,866	1,189,264	0.133%
JNL Multi-Manager Emerging Markets Equity Fund	Adnoc Gas			Equity	1,061,603	919,806	0.103%
Total Non Derivatives						894,863,533	
Derivatives							
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(40)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(34)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought USD / Sold HKD			Derivative		(269)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought USD / Sold HKD			Derivative		(3)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought USD / Sold HKD			Derivative		(3)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(20)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought CNY / Sold USD			Derivative		(175)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(6)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(282)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(2)	0.000%
JNL Multi-Manager Emerging Markets Equity Fund	Bought HKD / Sold USD			Derivative		(18)	0.000%
Total Derivatives						(977)	
Total All Investments						894,862,556	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager International Small Cap Fund	Burford Capital Limited			Equity	235.159	3,109.609	0.446%
JNL Multi-Manager International Small Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,693,660	4,709,379	0.675%
JNL Multi-Manager International Small Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,540,893	1,548,343	0.222%
JNL Multi-Manager International Small Cap Fund	Global Blue Group Holding AG			Equity	270,940	1,482,042	0.213%
JNL Multi-Manager International Small Cap Fund	MegaChips Corporation			Equity	105,300	3,812,275	0.547%
JNL Multi-Manager International Small Cap Fund	Ducan Bizon Co., Ltd.			Equity	43,705	1,759,909	0.252%
JNL Multi-Manager International Small Cap Fund	Hyundai Wia Corporation			Equity	21,277	840,926	0.121%
JNL Multi-Manager International Small Cap Fund	JMDC Inc.			Equity	79,700	2,586,306	0.371%
JNL Multi-Manager International Small Cap Fund	Doebeo Canada Inc.			Equity	63,547	3,686,706	0.529%
JNL Multi-Manager International Small Cap Fund	Doebeo Canada Inc.			Equity	77,723	1,429,708	0.492%
JNL Multi-Manager International Small Cap Fund	Sensiron Holding AG			Equity	55,644	4,837,891	0.694%
JNL Multi-Manager International Small Cap Fund	HUB24 Limited			Equity	67,471	2,741,935	0.393%
JNL Multi-Manager International Small Cap Fund	GMO Financial Gate, Inc.			Equity	41,100	2,057,170	0.295%
JNL Multi-Manager International Small Cap Fund	Sansen Public Company Limited			Equity	32,414,600	1,926,267	0.276%
JNL Multi-Manager International Small Cap Fund	inPost S.A.			Equity	207,494	3,928,599	0.563%
JNL Multi-Manager International Small Cap Fund	FinVolution Group			Equity	845,002	5,222,112	0.749%
JNL Multi-Manager International Small Cap Fund	Muniers Group AB			Equity	91,376	2,090,860	0.300%
JNL Multi-Manager International Small Cap Fund	Radiant Opto Electronics Corporation			Equity	554,000	3,416,304	0.490%
JNL Multi-Manager International Small Cap Fund	Simple Technology Co., Ltd.			Equity	448,365	4,998,833	0.717%
JNL Multi-Manager International Small Cap Fund	AUTO1 Group SE			Equity	232,917	2,640,329	0.379%
JNL Multi-Manager International Small Cap Fund	PPT Corporation			Equity	471,690	2,586,896	0.371%
JNL Multi-Manager International Small Cap Fund	Rakus Co., Ltd.			Equity	219,100	3,412,476	0.489%
JNL Multi-Manager International Small Cap Fund	Acadayan Technology Corporation			Equity	216,000	972,026	0.139%
JNL Multi-Manager International Small Cap Fund	LS Corp.			Equity	21,436	2,027,816	0.291%
JNL Multi-Manager International Small Cap Fund	Grupo SBF S/A			Equity	630,670	1,915,962	0.275%
JNL Multi-Manager International Small Cap Fund	Rightmove PLC			Equity	345,217	2,973,034	0.428%
JNL Multi-Manager International Small Cap Fund	Inter Action Corporation			Equity	51,100	431,231	0.062%
JNL Multi-Manager International Small Cap Fund	Optex Group Co., Ltd.			Equity	10,600	115,081	0.017%
JNL Multi-Manager International Small Cap Fund	Locondo, Inc.			Equity	138,300	1,996,572	0.286%
JNL Multi-Manager International Small Cap Fund	Dowagel Group PLC			Equity	805,958	1,074,058	0.154%
JNL Multi-Manager International Small Cap Fund	Xivvo Perfurion Aktiebolag			Equity	36,863	1,966,485	0.280%
JNL Multi-Manager International Small Cap Fund	Ga Technologies Co., Ltd.			Equity	136,500	1,182,609	0.170%
JNL Multi-Manager International Small Cap Fund	Alpha Group International PLC			Equity	172,966	5,124,948	0.735%
JNL Multi-Manager International Small Cap Fund	Wealthnavi Inc.			Equity	152,700	1,055,244	0.151%
JNL Multi-Manager International Small Cap Fund	Molten Ventures PLC			Equity	293,836	1,102,526	0.160%
JNL Multi-Manager International Small Cap Fund	Samsan, Inc.			Equity	201,000	3,002,626	0.431%
JNL Multi-Manager International Small Cap Fund	Hypebeast Limited			Equity	6,142,500	165,998	0.024%
JNL Multi-Manager International Small Cap Fund	Victoria P.L.C.			Equity	404,094	729,326	0.105%
JNL Multi-Manager International Small Cap Fund	Storify AB (publ)			Equity	63,413	1,927,389	0.276%
JNL Multi-Manager International Small Cap Fund	Celcelec			Equity	116,754	249,854	0.036%
JNL Multi-Manager International Small Cap Fund	G&L Beier Ref AB			Equity	139,673	2,300,160	0.330%
JNL Multi-Manager International Small Cap Fund	Hennet AB			Equity	76,544	2,626,089	0.405%
JNL Multi-Manager International Small Cap Fund	Chroma ATE Inc.			Equity	163,000	1,928,717	0.278%
JNL Multi-Manager International Small Cap Fund	Chroma ATE Inc.			Equity	540,000	6,389,615	0.916%
JNL Multi-Manager International Small Cap Fund	Companhia de Saneamento de Minas Gerais - Copasa MG			Equity	394,700	1,684,523	0.242%
JNL Multi-Manager International Small Cap Fund	Genius Electronic Optical Co., Ltd.			Equity	187,000	2,883,073	0.413%
JNL Multi-Manager International Small Cap Fund	Fugro N.V.			Equity	96,875	2,205,268	0.318%
JNL Multi-Manager International Small Cap Fund	Fugro N.V.			Equity	70,616	1,607,602	0.231%
JNL Multi-Manager International Small Cap Fund	Money Forward, Inc.			Equity	109,000	4,447,956	0.638%
JNL Multi-Manager International Small Cap Fund	Kanzhun Limited			Equity	136,498	2,369,605	0.340%
JNL Multi-Manager International Small Cap Fund	Controladora Vuela Compania de Aviacion, S.A.B. de C.V.			Equity	323,562	2,549,714	0.368%
JNL Multi-Manager International Small Cap Fund	PT Bank Syariah Indonesia Tbk			Equity	11,961,300	2,381,823	0.342%
JNL Multi-Manager International Small Cap Fund	Deliveroo PLC			Equity	1,423,453	2,939,209	0.422%
JNL Multi-Manager International Small Cap Fund	Baltic Classifieds Group PLC			Equity	1,241,274	5,071,071	0.727%
JNL Multi-Manager International Small Cap Fund	Helleo Group Inc.			Equity	212,128	1,614,226	0.232%
JNL Multi-Manager International Small Cap Fund	Sitronix Technology Corporation			Equity	121,000	873,145	0.125%
JNL Multi-Manager International Small Cap Fund	Redington Limited			Equity	427,739	945,805	0.136%
JNL Multi-Manager International Small Cap Fund	Birlasoft Solutions Ltda			Equity	284,868	5,565,026	0.798%
JNL Multi-Manager International Small Cap Fund	Getac Holdings Corporation			Equity	346,000	1,222,255	0.175%
JNL Multi-Manager International Small Cap Fund	GESIC Ltd			Equity	265,836	1,922,226	0.278%
JNL Multi-Manager International Small Cap Fund	Azelis Group			Equity	111,624	2,453,357	0.352%
JNL Multi-Manager International Small Cap Fund	Veganz Group AG			Equity	9,884	67,300	0.010%
JNL Multi-Manager International Small Cap Fund	C&I Inc.			Equity	197,111	1,338,384	0.192%
JNL Multi-Manager International Small Cap Fund	Qualitas Controladora, S.A.B. de C.V.			Equity	293,700	1,499,121	0.218%
JNL Multi-Manager International Small Cap Fund	National Aluminum Co Ltd			Equity	1,792,458	4,569,982	0.655%
JNL Multi-Manager International Small Cap Fund	ZIM Integrated Shipping Services Ltd			Equity	44,625	1,145,078	0.164%
JNL Multi-Manager International Small Cap Fund	Wise PLC			Equity	362,702	3,255,693	0.467%
JNL Multi-Manager International Small Cap Fund	Oxford Nanopore Technologies PLC			Equity	826,327	1,760,424	0.251%
JNL Multi-Manager International Small Cap Fund	Iveco Group N.V.			Equity	301,777	3,037,941	0.436%
JNL Multi-Manager International Small Cap Fund	MPC Container Ships ASA			Equity	963,401	2,226,608	0.319%
JNL Multi-Manager International Small Cap Fund	ALK-Abello AS			Equity	90,466	2,325,733	0.334%
JNL Multi-Manager International Small Cap Fund	ALK-Abello AS			Equity	116,330	1,990,654	0.286%
JNL Multi-Manager International Small Cap Fund	tonies SE			Equity	253,144	1,869,041	0.267%
JNL Multi-Manager International Small Cap Fund	PB Fintech Limited			Equity	94,447	1,830,240	0.262%
JNL Multi-Manager International Small Cap Fund	Vulcan Energy Resources Limited			Equity	157,091	493,889	0.071%
JNL Multi-Manager International Small Cap Fund	Anglo PLC			Equity	1,039,649	1,114,236	0.161%
JNL Multi-Manager International Small Cap Fund	Nayax Ltd			Equity	95,601	2,483,631	0.356%
JNL Multi-Manager International Small Cap Fund	Nayax Ltd			Equity	15,343	393,548	0.056%
JNL Multi-Manager International Small Cap Fund	Youngone Corporation			Equity	34,774	1,077,977	0.155%
JNL Multi-Manager International Small Cap Fund	CellAvion AB			Equity	21,174	612,205	0.088%
JNL Multi-Manager International Small Cap Fund	Nandorin Finland Oy			Equity	292,722	115,705	0.017%
JNL Multi-Manager International Small Cap Fund	Trustpilot Group PLC			Equity	953,084	2,881,554	0.413%
JNL Multi-Manager International Small Cap Fund	Trustpilot Group PLC			Equity	736,917	2,227,994	0.320%
JNL Multi-Manager International Small Cap Fund	DB Hietk Co., Ltd.			Equity	26,790	892,724	0.128%
JNL Multi-Manager International Small Cap Fund	Helleo Group Limited			Equity	365,716	1,031,162	0.148%
JNL Multi-Manager International Small Cap Fund	Charter Hall Limited			Equity	96,423	1,066,636	0.153%
JNL Multi-Manager International Small Cap Fund	SSAB AB			Equity	293,613	1,504,798	0.216%
JNL Multi-Manager International Small Cap Fund	Yancoal Australia Ltd			Equity	257,467	1,094,551	0.157%
JNL Multi-Manager International Small Cap Fund	Electric N.V.			Equity	29,653	1,969,120	0.282%
JNL Multi-Manager International Small Cap Fund	Wanted Lab, Inc.			Equity	56,617	217,829	0.031%
JNL Multi-Manager International Small Cap Fund	Hafnia Limited			Equity	239,791	1,712,584	0.246%
JNL Multi-Manager International Small Cap Fund	Regional Container Lines Public Co Ltd			Equity	3,141,500	2,644,552	0.379%
JNL Multi-Manager International Small Cap Fund	Abtlo p/c			Equity	767,743	1,678,216	0.241%
JNL Multi-Manager International Small Cap Fund	Rakauti, Inc.			Equity	333,100	3,040,486	0.436%
JNL Multi-Manager International Small Cap Fund	Adastria Co., Ltd.			Equity	59,000	1,382,296	0.198%
JNL Multi-Manager International Small Cap Fund	ATCO Ltd.			Equity	27,756	983,040	0.141%
JNL Multi-Manager International Small Cap Fund	Seroo Group PLC			Equity	379,361	911,175	0.131%
JNL Multi-Manager International Small Cap Fund	Finning International Inc.			Equity	42,169	1,384,067	0.199%
JNL Multi-Manager International Small Cap Fund	Russell Metals Inc.			Equity	107,287	3,255,616	0.467%
JNL Multi-Manager International Small Cap Fund	Philippine Seven Corporation			Equity	1,039,700	1,351,610	0.194%
JNL Multi-Manager International Small Cap Fund	Solvay			Equity	26,290	1,113,868	0.160%
JNL Multi-Manager International Small Cap Fund	Tower Semiconductor Ltd.			Equity	24,122	1,067,137	0.153%
JNL Multi-Manager International Small Cap Fund	ITV PLC			Equity	862,525	919,031	0.132%
JNL Multi-Manager International Small Cap Fund	Aza S.P.A.			Equity	966,350	2,234,976	0.321%
JNL Multi-Manager International Small Cap Fund	HOCHTIEF Aktiengesellschaft			Equity	8,886	1,086,101	0.157%
JNL Multi-Manager International Small Cap Fund	Alps Alpine Co., Ltd.			Equity	169,200	1,815,064	0.260%
JNL Multi-Manager International Small Cap Fund	Cj Corporation			Equity	10,305	940,380	0.135%
JNL Multi-Manager International Small Cap Fund	Kintetsu Group Holdings Co.Ltd			Equity	87,500	2,188,403	0.314%
JNL Multi-Manager International Small Cap Fund	Tripod Technology Corporation			Equity	360,000	2,243,341	0.322%
JNL Multi-Manager International Small Cap Fund	UC Housing Finance Limited			Equity	104,701	632,162	0.091%
JNL Multi-Manager International Small Cap Fund	PowerTech Technology Inc.			Equity	276,000	1,189,443	0.171%
JNL Multi-Manager International Small Cap Fund	Mitsubishi Motors Corporation			Equity	1,717,400	4,735,277	0.679%
JNL Multi-Manager International Small Cap Fund	Chicony Electronics Co., Ltd.			Equity	288,000	1,496,372	0.215%
JNL Multi-Manager International Small Cap Fund	Giant Manufacturing Co., Ltd.			Equity	160,000	1,133,353	0.163%
JNL Multi-Manager International Small Cap Fund	Kyushu Electric Power Co., Inc.			Equity	69,200	766,495	0.110%
JNL Multi-Manager International Small Cap Fund	Vanguard FTSE All-World ex-US Small-Cap Index ETF			Fund	14,527	1,829,821	0.262%
JNL Multi-Manager International Small Cap Fund	Credit Saison Co., Ltd.			Equity	203,900	5,106,513	0.732%
JNL Multi-Manager International Small Cap Fund	Dai Nippon Printing Co., Ltd.			Equity	179,000	3,705,808	0.461%
JNL Multi-Manager International Small Cap Fund	Kuraray Co., Ltd.			Equity	153,200	2,273,160	0.326%
JNL Multi-Manager International Small Cap Fund	IDOM Co., Ltd.			Equity	147,000	1,128,171	0.162%
JNL Multi-Manager International Small Cap Fund	Daiichi Corporation			Equity	91,500	869,146	0.125%
JNL Multi-Manager International Small Cap Fund	OCI Holdings Company Ltd.			Equity	16,599	1,802,831	0.259%
JNL Multi-Manager International Small Cap Fund	Kerry Properties Limited			Equity	897,935	1,899,458	0.272%
JNL Multi-Manager International Small Cap Fund	JTEKT Corporation			Equity	147,500	1,077,644	0.155%
JNL Multi-Manager International Small Cap Fund	Samsung Securities Co., Ltd.			Equity	25,698	857,617	0.123%
JNL Multi-Manager International Small Cap Fund	NGK Insulators, Ltd.			Equity	62,500	1,632,656	0.199%
JNL Multi-Manager International Small Cap Fund	Soitec Corporation			Equity	155,300	3,744,880	0.537%
JNL Multi-Manager International Small Cap Fund	TravelSky Technology Limited			Equity	534,000	785,816	0.113%
JNL Multi-Manager International Small Cap Fund	Dowd Holdings Co., Ltd.			Equity	25,100	921,874	0.132%
JNL Multi-Manager International Small Cap Fund	Tohoku-Electric Power Co. Inc.			Equity	228,600	2,321,457	0.338%
JNL Multi-Manager International Small Cap Fund	Santen Pharmaceutical Co., Ltd.			Equity	145,900	1,780,404	0.255%
JNL Multi-Manager International Small Cap Fund	Takashimaya Company, Limited			Equity	103,200	835,099	0.120%
JNL Multi-Manager International Small Cap Fund	Tokyo Tatemono Co., Ltd.			Equity	63,600	1,022,098	0.147%
JNL Multi-Manager International Small Cap Fund	Saijyo Co., Ltd.			Equity	302,000	4,527,133	0.649%
JNL Multi-Manager International Small Cap Fund	Tokyo Steel Manufacturing Co., Ltd.			Equity	170,400	1,385,816	0.198%
JNL Multi-Manager International Small Cap Fund	Anadolu Elit Biracilik Ve Malt Sanayi Anonim Sirketi			Equity	270,451	1,557,484	0.223%
JNL Multi-Manager International Small Cap Fund	Yamada Holdings Co., Ltd.			Equity	474,200	1,479,759	0.212%
JNL Multi-Manager International Small Cap Fund	Medipal Holdings Corporation			Equity	58,100	1,030,908	0.148%
JNL Multi-Manager International Small Cap Fund	New Hope Corporation Limited			Equity	326,669	1,188,684	0.170%
JNL Multi-Manager International Small Cap Fund	Valor Holdings Co., Ltd.			Equity	92,400	1,436,929	0.206%
JNL Multi-Manager International Small Cap Fund	Turk Traktor			Equity	53,911	1,116,002	0.160%
JNL Multi-Manager International Small Cap Fund	Nsk Ltd.			Equity	265,300	1,366,529	0.196%
JNL Multi-Manager International Small Cap Fund	Glenmark Pharmaceuticals Limited			Equity	42,074	1,642,869	0.231%
JNL Multi-Manager International Small Cap Fund	SHIMAMURA Co., Ltd.			Equity	35,800	1,972,205	0.283%
JNL Multi-Manager International Small Cap Fund	Suzuken Co., Ltd.			Equity	29,400	1,034,997	0.148%
JNL Multi-Manager International Small Cap Fund	Alfresa Holdings Corporation			Equity	62,400	896,022	0.143%
JNL Multi-Manager International Small Cap Fund	Yamazaki Baking Co., Ltd.			Equity	52,200	1,038,691	0.149%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager International Small Cap Fund	Hyundai Marine & Fire Insurance Co. Ltd.			Equity	72,740	1,835,505	0.263%
JNL Multi-Manager International Small Cap Fund	Taiheyo Cement Corporation			Equity	49,400	1,175,965	0.168%
JNL Multi-Manager International Small Cap Fund	Prosumus			Equity	208,826	1,627,880	0.233%
JNL Multi-Manager International Small Cap Fund	Oii Holdings Corporation			Equity	427,600	1,744,930	0.250%
JNL Multi-Manager International Small Cap Fund	B2Gold Corp.			Equity	434,513	1,342,944	0.193%
JNL Multi-Manager International Small Cap Fund	Raffielsen Bank International AG			Equity	167,763	3,344,863	0.480%
JNL Multi-Manager International Small Cap Fund	mxl, inc.			Equity	89,000	1,747,138	0.251%
JNL Multi-Manager International Small Cap Fund	Sembcorp Industries Ltd			Equity	228,800	986,743	0.142%
JNL Multi-Manager International Small Cap Fund	Volta Limited			Equity	71,400	1,578,233	0.226%
JNL Multi-Manager International Small Cap Fund	Embracer S.A.			Equity	362,700	3,209,752	0.460%
JNL Multi-Manager International Small Cap Fund	Power Finance Corporation Limited			Equity	979,125	2,146,318	0.304%
JNL Multi-Manager International Small Cap Fund	Yangzijiang Shipbuilding (Holdings) Ltd.			Equity	1,928,700	3,693,548	0.530%
JNL Multi-Manager International Small Cap Fund	Investec PLC			Equity	126,132	963,027	0.138%
JNL Multi-Manager International Small Cap Fund	TCl Co. Ltd.			Equity	147,000	637,246	0.091%
JNL Multi-Manager International Small Cap Fund	Nep International Holdings Limited			Equity	2,437,500	1,951,147	0.285%
JNL Multi-Manager International Small Cap Fund	Primax Electronics Ltd.			Equity	357,000	1,024,214	0.147%
JNL Multi-Manager International Small Cap Fund	Airtac International Group			Equity	176,773	5,147,557	0.738%
JNL Multi-Manager International Small Cap Fund	Brunello Cucinelli S.p.A.			Equity	48,181	5,203,877	0.749%
JNL Multi-Manager International Small Cap Fund	Persid Holdings Co., Ltd.			Equity	887,900	1,580,882	0.227%
JNL Multi-Manager International Small Cap Fund	koh Young Technology Inc.			Equity	129,203	1,051,076	0.151%
JNL Multi-Manager International Small Cap Fund	Fluery S/A			Equity	293,000	829,890	0.119%
JNL Multi-Manager International Small Cap Fund	Anicom Holdings, Inc.			Equity	140,300	664,120	0.095%
JNL Multi-Manager International Small Cap Fund	BNK Financial Group Inc.			Equity	157,827	1,094,994	0.157%
JNL Multi-Manager International Small Cap Fund	Valco			Equity	135,943	1,636,818	0.235%
JNL Multi-Manager International Small Cap Fund	Technogym S.p.A.			Equity	305,597	3,201,273	0.459%
JNL Multi-Manager International Small Cap Fund	Tokuy Fudooan Holdings Co., Ltd.			Equity	291,200	2,046,785	0.294%
JNL Multi-Manager International Small Cap Fund	SS AS			Equity	62,941	1,259,218	0.181%
JNL Multi-Manager International Small Cap Fund	Despegar.com SA			Equity	166,409	2,063,472	0.296%
JNL Multi-Manager International Small Cap Fund	Mavi Gyim Sanayi Ve Ticaret Anonim Sirketi			Equity	342,876	907,438	0.130%
JNL Multi-Manager International Small Cap Fund	Mercati, Inc.			Equity	150,000	2,615,654	0.375%
JNL Multi-Manager International Small Cap Fund	Delivery Hero SE			Equity	71,184	2,878,978	0.428%
JNL Multi-Manager International Small Cap Fund	Globant S.A.			Equity	9,510	1,984,311	0.270%
JNL Multi-Manager International Small Cap Fund	NCC Limited			Equity	366,961	1,330,141	0.191%
JNL Multi-Manager International Small Cap Fund	Mebuki Financial Group Inc.			Equity	378,900	1,539,195	0.221%
JNL Multi-Manager International Small Cap Fund	Prairieview Royalty Ltd.			Equity	136,556	2,807,704	0.403%
JNL Multi-Manager International Small Cap Fund	AGL Energy Limited			Equity	294,901	2,116,318	0.312%
JNL Multi-Manager International Small Cap Fund	The British Land Company Public Limited Company			Equity	376,502	2,189,873	0.314%
JNL Multi-Manager International Small Cap Fund	Daewa House REIT Investment Corporation			Equity	743	1,248,884	0.179%
JNL Multi-Manager International Small Cap Fund	RoCan Real Estate Investment Trust			Equity	736,267	1,139,342	0.163%
JNL Multi-Manager International Small Cap Fund	Mapleview Commercial Trust Treasury Company Pte. Ltd.			Equity	1,600,400	1,943,169	0.284%
JNL Multi-Manager International Small Cap Fund	Suntec Real Estate Investment Trust			Equity	869,200	897,782	0.129%
JNL Multi-Manager International Small Cap Fund	ASPEED Technology Inc.			Equity	41,600	5,641,002	0.809%
JNL Multi-Manager International Small Cap Fund	Gaztranspor EI Technigaz			Equity	23,666	3,337,492	0.479%
JNL Multi-Manager International Small Cap Fund	Inchcape PLC			Equity	143,838	1,630,118	0.232%
JNL Multi-Manager International Small Cap Fund	Johnson Electric Holdings Limited			Equity	1,681,925	2,475,494	0.355%
JNL Multi-Manager International Small Cap Fund	Signify N.V.			Equity	67,408	1,593,643	0.229%
JNL Multi-Manager International Small Cap Fund	Avanza Bank Holding AB			Equity	170,117	4,220,386	0.605%
JNL Multi-Manager International Small Cap Fund	Squad2 SE			Equity	69,436	5,980,763	0.858%
JNL Multi-Manager International Small Cap Fund	Cangojet Inc.			Equity	17,362	1,778,089	0.255%
JNL Multi-Manager International Small Cap Fund	LX International Corp.			Equity	111,959	2,579,991	0.370%
JNL Multi-Manager International Small Cap Fund	GungHo Online Entertainment, Inc.			Equity	93,500	2,005,537	0.288%
JNL Multi-Manager International Small Cap Fund	Vifor Pharma AG			Equity	10,739	1,645,438	0.236%
JNL Multi-Manager International Small Cap Fund	Mitsui Mining & Smelting Co., Ltd.			Equity	37,800	1,325,643	0.190%
JNL Multi-Manager International Small Cap Fund	Japan Elevator Service Holdings Co., Ltd.			Equity	99,000	2,145,324	0.308%
JNL Multi-Manager International Small Cap Fund	Bioproy Inc.			Equity	31,000	1,061,596	0.152%
JNL Multi-Manager International Small Cap Fund	TransAsia Corporation			Equity	92,940	967,574	0.139%
JNL Multi-Manager International Small Cap Fund	Whitecat Resources Inc.			Equity	261,495	1,964,589	0.282%
JNL Multi-Manager International Small Cap Fund	Diploma PLC			Equity	48,779	2,898,271	0.416%
JNL Multi-Manager International Small Cap Fund	Games Workshop Group PLC			Equity	19,770	2,848,968	0.409%
JNL Multi-Manager International Small Cap Fund	Games Workshop Group PLC			Equity	28,055	4,042,883	0.580%
JNL Multi-Manager International Small Cap Fund	Balfour Beatty PLC			Equity	208,893	1,203,425	0.172%
JNL Multi-Manager International Small Cap Fund	Buzzi S.p.A.			Equity	29,721	1,183,322	0.170%
JNL Multi-Manager International Small Cap Fund	Bavarian Nordic A/S			Equity	35,583	1,230,793	0.177%
JNL Multi-Manager International Small Cap Fund	GranCorp Limited			Equity	336,234	2,144,443	0.308%
JNL Multi-Manager International Small Cap Fund	Schibsted ASA			Equity	123,097	1,530,118	0.219%
JNL Multi-Manager International Small Cap Fund	NHK SPRING Co. Ltd.			Equity	113,500	1,469,028	0.211%
JNL Multi-Manager International Small Cap Fund	HANWA Co., Ltd.			Equity	42,200	1,495,538	0.214%
JNL Multi-Manager International Small Cap Fund	Pro Medicus Limited			Equity	17,638	2,182,027	0.313%
JNL Multi-Manager International Small Cap Fund	NGF Corporation			Equity	50,400	972,140	0.139%
JNL Multi-Manager International Small Cap Fund	Japan Petroleum Exploration Co., Ltd.			Equity	135,500	1,013,711	0.145%
JNL Multi-Manager International Small Cap Fund	JB Hi-Fi Limited			Equity	106,062	5,881,521	0.844%
JNL Multi-Manager International Small Cap Fund	Perseus Mining Limited			Equity	561,083	1,026,498	0.147%
JNL Multi-Manager International Small Cap Fund	Melco			Equity	17,701	1,463,923	0.210%
JNL Multi-Manager International Small Cap Fund	SKV Perfect JSAT Holdings Inc.			Equity	185,200	1,166,094	0.167%
JNL Multi-Manager International Small Cap Fund	IG Group Holdings PLC			Equity	89,847	1,142,639	0.164%
JNL Multi-Manager International Small Cap Fund	Konecranes Abp			Equity	11,200	840,685	0.121%
JNL Multi-Manager International Small Cap Fund	Dampskogsselskabet NORDEN A/S			Equity	31,156	1,297,150	0.186%
JNL Multi-Manager International Small Cap Fund	Kamakura Shinto, Ltd.			Equity	267,900	998,317	0.143%
JNL Multi-Manager International Small Cap Fund	AAK AB (publ)			Equity	28,874	948,144	0.136%
JNL Multi-Manager International Small Cap Fund	Aditech AB			Equity	158,659	4,753,387	0.682%
JNL Multi-Manager International Small Cap Fund	Bossard Holding AG			Equity	10,789	3,036,513	0.439%
JNL Multi-Manager International Small Cap Fund	HMS Networks AB			Equity	50,999	2,029,857	0.291%
JNL Multi-Manager International Small Cap Fund	Bengoet.com, Inc.			Equity	120,800	2,519,359	0.361%
JNL Multi-Manager International Small Cap Fund	Dexerials Corporation			Equity	114,900	1,652,802	0.237%
JNL Multi-Manager International Small Cap Fund	Replry S.A.			Equity	32,545	4,908,604	0.704%
JNL Multi-Manager International Small Cap Fund	Banco Comercial Portugues S.A.			Equity	1,714,409	1,775,078	0.253%
JNL Multi-Manager International Small Cap Fund	CTS Eventim AG & Co. KGaA			Equity	12,045	1,255,322	0.180%
JNL Multi-Manager International Small Cap Fund	Sotlec			Equity	17,696	1,762,083	0.253%
JNL Multi-Manager International Small Cap Fund	Samwa Holdings Corporation			Equity	54,600	1,454,328	0.209%
JNL Multi-Manager International Small Cap Fund	Shima Seiki Mfg., Ltd.			Equity	73,201	988,488	0.139%
JNL Multi-Manager International Small Cap Fund	JEOL Ltd.			Equity	71,200	2,796,172	0.401%
JNL Multi-Manager International Small Cap Fund	Fujikura Ltd.			Equity	104,400	3,550,671	0.509%
JNL Multi-Manager International Small Cap Fund	Macnica Holdings, Inc.			Equity	115,200	1,630,572	0.234%
JNL Multi-Manager International Small Cap Fund	Cratovich PLC			Equity	61,738	1,419,163	0.202%
JNL Multi-Manager International Small Cap Fund	Beazley Ireland Holdings PLC			Equity	238,400	2,432,976	0.349%
JNL Multi-Manager International Small Cap Fund	Jet2 PLC			Equity	78,849	1,494,136	0.214%
JNL Multi-Manager International Small Cap Fund	u-blox Holding AG			Equity	15,039	1,383,492	0.198%
JNL Multi-Manager International Small Cap Fund	Oxigenes Group			Equity	4,245	1,699,248	0.239%
JNL Multi-Manager International Small Cap Fund	The Company For Cooperative Insurance			Equity	46,855	1,847,306	0.265%
JNL Multi-Manager International Small Cap Fund	Super Retail Group Limited			Equity	103,384	1,365,956	0.196%
JNL Multi-Manager International Small Cap Fund	International Games System Co., Ltd.			Equity	136,000	4,253,360	0.610%
JNL Multi-Manager International Small Cap Fund	Hera S.p.A.			Equity	273,206	1,086,849	0.153%
JNL Multi-Manager International Small Cap Fund	Perenti Limited			Equity	1,330,096	1,003,750	0.144%
JNL Multi-Manager International Small Cap Fund	Drax Group PLC			Equity	202,972	1,775,741	0.255%
JNL Multi-Manager International Small Cap Fund	transcomos inc.			Equity	47,500	1,173,292	0.168%
JNL Multi-Manager International Small Cap Fund	KH Neochem Co., Ltd.			Equity	135,700	1,586,613	0.226%
JNL Multi-Manager International Small Cap Fund	Freese K.K.			Equity	32,400	1,249,026	0.179%
JNL Multi-Manager International Small Cap Fund	Indra Sistemas, S.A.			Equity	57,356	1,065,871	0.151%
JNL Multi-Manager International Small Cap Fund	DMG Mori Co., Ltd.			Equity	146,000	3,103,238	0.445%
JNL Multi-Manager International Small Cap Fund	Hyposport SE			Equity	23,879	7,885,140	1.131%
JNL Multi-Manager International Small Cap Fund	Migros Ticaret A.S.			Equity	155,631	2,051,448	0.294%
JNL Multi-Manager International Small Cap Fund	Creditacess Grameen Limited			Equity	185,151	2,660,890	0.382%
JNL Multi-Manager International Small Cap Fund	Sup Co., Ltd.			Equity	11,980	923,454	0.132%
JNL Multi-Manager International Small Cap Fund	Infomart Corporation			Equity	775,300	1,771,337	0.254%
JNL Multi-Manager International Small Cap Fund	Lotes Co. Ltd.			Equity	84,000	3,706,418	0.532%
JNL Multi-Manager International Small Cap Fund	Eurizon Opportunita			Equity	152,689	975,003	0.140%
JNL Multi-Manager International Small Cap Fund	Grupo Aeroportuario del Centro Norte, S.A.B. de C.V.			Equity	151,451	1,277,450	0.183%
JNL Multi-Manager International Small Cap Fund	KATTATAS Co., Ltd.			Equity	138,300	1,946,857	0.279%
JNL Multi-Manager International Small Cap Fund	Tugami Corporation			Equity	284,700	3,113,642	0.447%
JNL Multi-Manager International Small Cap Fund	Paradox Interactive AB (publ)			Equity	132,414	2,342,705	0.336%
JNL Multi-Manager International Small Cap Fund	Indiamart Interesh Limited			Equity	34,135	1,207,982	0.173%
JNL Multi-Manager International Small Cap Fund	IRISO Electronics Co., Ltd.			Equity	62,300	1,108,351	0.159%
JNL Multi-Manager International Small Cap Fund	Maytronics Ltd.			Equity	302,141	693,169	0.099%
JNL Multi-Manager International Small Cap Fund	VNV Global AB (publ)			Equity	295,305	606,903	0.087%
JNL Multi-Manager International Small Cap Fund	AGF Management Limited			Equity	542,610	3,671,028	0.526%
JNL Multi-Manager International Small Cap Fund	eGuarantee, Inc.			Equity	132,600	1,312,434	0.188%
JNL Multi-Manager International Small Cap Fund	Keller Group PLC			Equity	114,036	2,463,635	0.353%
JNL Multi-Manager International Small Cap Fund	H.U. Group Holdings, Inc.			Equity	46,900	887,211	0.127%
JNL Multi-Manager International Small Cap Fund	Elekta AB (publ)			Equity	139,171	993,345	0.142%
JNL Multi-Manager International Small Cap Fund	Ziggo PLC			Equity	413,193	2,134,183	0.306%
JNL Multi-Manager International Small Cap Fund	Adimem AG			Equity	39,842	526,062	0.075%
JNL Multi-Manager International Small Cap Fund	Team.T Group PLC			Equity	282,450	1,022,475	0.147%
JNL Multi-Manager International Small Cap Fund	Unipol Gruppo S.p.A.			Equity	586,678	6,985,692	1.002%
JNL Multi-Manager International Small Cap Fund	Cosmo Energy Holdings Co., Ltd.			Equity	32,200	1,800,322	0.258%
JNL Multi-Manager International Small Cap Fund	JB Financial Group Co., Ltd.			Equity	151,756	1,781,530	0.256%
JNL Multi-Manager International Small Cap Fund	Netwealth Group Limited			Equity	213,826	3,681,269	0.528%
JNL Multi-Manager International Small Cap Fund	Kinaxis Inc.			Equity	39,695	4,715,735	0.676%
JNL Multi-Manager International Small Cap Fund	Is Gayrimenkul Yatirim Ortakligi Anonim Sirketi			Equity	1,868,408	962,542	0.138%
JNL Multi-Manager International Small Cap Fund	EDCON Corporation			Equity	61,000	790,261	0.113%
JNL Multi-Manager International Small Cap Fund	Net One Systems Co. Ltd.			Equity	41,000	1,025,764	0.149%
JNL Multi-Manager International Small Cap Fund	Logista Integral SA			Equity	52,488	1,584,177	0.227%
JNL Multi-Manager International Small Cap Fund	PT Indo Tambangraya Megah Tbk			Equity	1,108,200	1,939,543	0.278%
JNL Multi-Manager International Small Cap Fund	Globe Uninip Corp.			Equity	125,000	4,354,188	0.624%
JNL Multi-Manager International Small Cap Fund	3iEX Global Holdings Corp.			Equity	530,000	1,696,000	0.241%
JNL Multi-Manager International Small Cap Fund	Park Systems Corp.			Equity	15,601	2,311,580	0.332%
JNL Multi-Manager International Small Cap Fund	PVR Inox Limited			Equity	105,343	2,099,243	0.301%
JNL Multi-Manager International Small Cap Fund	Banco Actinver, S.A., Institucion de Banca Multiple, Grupo Financiero Actinver			Equity	440,163	1,439,192	0.206%
JNL Multi-Manager International Small Cap Fund	NS United Kisan Kaisha, Ltd.			Equity	50,400	1,632,720	0.234%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager International Small Cap Fund	Pilipower Integrated Technology Inc.			Equity	99,000	833,947	0.120%
JNL Multi-Manager International Small Cap Fund	Aggier Group, Inc.			Equity	142,200	1,763,730	0.252%
JNL Multi-Manager International Small Cap Fund	M&A Research Institute Inc.			Equity	138,100	2,873,453	0.412%
JNL Multi-Manager International Small Cap Fund	Doqus Otomolv Servis ve Ticaret A.S.			Equity	237,764	1,526,399	0.219%
JNL Multi-Manager International Small Cap Fund	Metallurgica Gerdau S.A.			Equity	935,700	1,870,472	0.268%
JNL Multi-Manager International Small Cap Fund	Plus Alpha Consulting Co., Ltd.			Equity	168,600	2,580,398	0.370%
JNL Multi-Manager International Small Cap Fund	Hanatour Service, Inc.			Equity	29,346	1,132,735	0.162%
JNL Multi-Manager International Small Cap Fund	HD Hyundai Electric Co., Ltd.			Equity	10,533	2,658,571	0.381%
JNL Multi-Manager International Small Cap Fund	Integral Corporation			Equity	129,400	3,661,978	0.525%
JNL Multi-Manager International Small Cap Fund	W.A.G Payment Solutions PLC			Equity	1,046,165	1,191,793	0.171%
JNL Multi-Manager International Small Cap Fund	CellSource Co., Ltd.			Equity	51,100	444,628	0.064%
JNL Multi-Manager International Small Cap Fund	Kyoto Financial Group, Inc.			Equity	230,800	3,612,948	0.518%
JNL Multi-Manager International Small Cap Fund	Banca Monte dei Paschi di Siena S.p.A.			Equity	1,043,017	6,050,103	0.868%
JNL Multi-Manager International Small Cap Fund	Chermal Petroleum Corporation Limited			Equity	113,067	1,267,610	0.182%
JNL Multi-Manager International Small Cap Fund	TUI AG			Equity	397,119	3,023,411	0.434%
JNL Multi-Manager International Small Cap Fund	Muthoot Microfin Limited			Equity	677,103	1,909,006	0.274%
JNL Multi-Manager International Small Cap Fund	Jamjoom Pharmaceuticals Factory Co.			Equity	22,559	1,149,099	0.165%
JNL Multi-Manager International Small Cap Fund	Wisdom Marine Lines Co. Limited			Equity	489,000	1,184,818	0.170%
JNL Multi-Manager International Small Cap Fund	Theon International PLC			Equity	124,565	1,454,193	0.209%
JNL Multi-Manager International Small Cap Fund	King Slide Works Co., Ltd.			Equity	36,000	1,261,376	0.181%
JNL Multi-Manager International Small Cap Fund	Jentech Precision Industrial Co., Ltd.			Equity	68,000	2,794,568	0.401%
JNL Multi-Manager International Small Cap Fund	Inter & Co, Inc.			Equity	360,134	2,398,492	0.344%
JNL Multi-Manager International Small Cap Fund	Cloud Village Inc.			Equity	26,550	453,348	0.065%
JNL Multi-Manager International Small Cap Fund	Celestica Inc.			Equity	103,005	5,265,826	0.755%
JNL Multi-Manager International Small Cap Fund	Celestica Inc.			Equity	82,548	4,219,854	0.605%
JNL Multi-Manager International Small Cap Fund	VIrox Corporation Berhad			Equity	1,042,800	817,314	0.117%
JNL Multi-Manager International Small Cap Fund	Planisware			Equity	78,928	2,454,561	0.352%
JNL Multi-Manager International Small Cap Fund	Saab AB			Equity	111,688	2,381,745	0.342%
JNL Multi-Manager International Small Cap Fund	Amer Sports, Inc.			Equity	187,478	2,990,274	0.429%
JNL Multi-Manager International Small Cap Fund	Life360, Inc.			Equity	240,274	3,158,972	0.453%
JNL Multi-Manager International Small Cap Fund	Athletesca Oil Corporation			Equity	279,841	593,388	0.084%
JNL Multi-Manager International Small Cap Fund	EXOSCHS			Equity	166,436	3,758,732	0.539%
JNL Multi-Manager International Small Cap Fund	Ronglian Group Ltd.			Equity	33,479	847,327	0.122%
JNL Multi-Manager International Small Cap Fund	Ashtead Technology Holdings PLC			Equity	373,360	2,840,152	0.407%
JNL Multi-Manager International Small Cap Fund	Andes Technology Corporation			Equity	66,091	784,923	0.113%
JNL Multi-Manager International Small Cap Fund	Times, Inc.			Equity	393,217	3,594,971	0.518%
JNL Multi-Manager International Small Cap Fund	United Integrated Services Co., Ltd.			Equity	110,000	1,111,734	0.159%
JNL Multi-Manager International Small Cap Fund	Bonessupport Holding AB			Equity	84,873	2,555,787	0.367%
JNL Multi-Manager International Small Cap Fund	Vimian Group AB			Equity	670,485	3,081,678	0.442%
JNL Multi-Manager International Small Cap Fund	Yubico AB			Equity	77,981	1,924,309	0.276%
JNL Multi-Manager International Small Cap Fund	Raymond Limited			Equity	40,269	847,051	0.121%
JNL Multi-Manager International Small Cap Fund	Poly Medicare Limited			Equity	67,101	1,862,133	0.267%
JNL Multi-Manager International Small Cap Fund	Lifedrink Company, Inc.			Equity	148,400	1,987,276	0.285%
JNL Multi-Manager International Small Cap Fund	Namura Shipbuilding Co., Ltd.			Equity	78,100	778,923	0.112%
JNL Multi-Manager International Small Cap Fund	IDFC Limited			Equity	604,835	820,504	0.118%
JNL Multi-Manager International Small Cap Fund	PharmaResearch Co., Ltd.			Equity	6,060	895,874	0.128%
JNL Multi-Manager International Small Cap Fund	Genda Inc.			Equity	13,200	232,636	0.033%
Total Non Derivatives						697,259,441	
Derivatives							
JNL Multi-Manager International Small Cap Fund	Bought HKD / Sold USD			Derivative		(504)	0.000%
JNL Multi-Manager International Small Cap Fund	Bought HKD / Sold USD			Derivative		(791)	0.000%
Total Derivatives						(1,295)	
Total All Investments						697,258,146	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager Mid Cap Fund	Cash			Cash Equivalent	1,325,276	1,325,276	0.100%
JNL Multi-Manager Mid Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	9,152,705	9,200,543	0.695%
JNL Multi-Manager Mid Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	10,173,798	10,205,230	0.771%
JNL Multi-Manager Mid Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	464,387	467,070	0.035%
JNL Multi-Manager Mid Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	7,043,558	7,052,772	0.542%
JNL Multi-Manager Mid Cap Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	18,300,453	18,369,689	1.388%
JNL Multi-Manager Mid Cap Fund	Chord Energy Corporation			Equity	31,225	4,066,432	0.307%
JNL Multi-Manager Mid Cap Fund	Celsus Holdings, Inc.			Equity	290,508	9,110,331	0.688%
JNL Multi-Manager Mid Cap Fund	United Utilities Group PLC			Equity	435,574	12,230,918	0.944%
JNL Multi-Manager Mid Cap Fund	Global-E Online Ltd.			Equity	232,161	8,924,269	0.678%
JNL Multi-Manager Mid Cap Fund	Confluent, Inc.			Equity	295,000	6,012,100	0.454%
JNL Multi-Manager Mid Cap Fund	Pennon Group PLC			Equity	526,001	8,458,096	0.639%
JNL Multi-Manager Mid Cap Fund	Ryan Specialty Group Holdings, Inc.			Equity	124,000	8,232,360	0.622%
JNL Multi-Manager Mid Cap Fund	On Holding AG			Equity	182,258	9,140,238	0.691%
JNL Multi-Manager Mid Cap Fund	Toast, Inc.			Equity	167,719	4,748,125	0.359%
JNL Multi-Manager Mid Cap Fund	Toast, Inc.			Equity	221,500	6,270,665	0.474%
JNL Multi-Manager Mid Cap Fund	Severn Trent PLC			Equity	18,695	663,299	0.050%
JNL Multi-Manager Mid Cap Fund	Belling Intermediate Holdings, Inc.			Equity	17,500	1,062,600	0.080%
JNL Multi-Manager Mid Cap Fund	MongoDB, Inc.			Equity	15,763	4,261,527	0.322%
JNL Multi-Manager Mid Cap Fund	MongoDB, Inc.			Equity	28,000	7,569,800	0.572%
JNL Multi-Manager Mid Cap Fund	Yum! Brands, Inc.			Equity	18,100	2,528,751	0.191%
JNL Multi-Manager Mid Cap Fund	Mettler-Toledo International Inc.			Equity	5,819	8,725,754	0.659%
JNL Multi-Manager Mid Cap Fund	Mettler-Toledo International Inc.			Equity	4,000	5,998,800	0.453%
JNL Multi-Manager Mid Cap Fund	Avery Dennison Corporation			Equity	18,300	4,909,908	0.305%
JNL Multi-Manager Mid Cap Fund	Autodesk, Inc.			Equity	16,500	4,545,420	0.343%
JNL Multi-Manager Mid Cap Fund	American Financial Group, Inc.			Equity	44,601	4,003,163	0.454%
JNL Multi-Manager Mid Cap Fund	BorgWarner Inc.			Equity	177,100	6,426,959	0.486%
JNL Multi-Manager Mid Cap Fund	Brown-Forman Corporation			Equity	171,000	8,451,097	0.638%
JNL Multi-Manager Mid Cap Fund	ApiaGroup, Inc.			Equity	30,400	4,869,776	0.368%
JNL Multi-Manager Mid Cap Fund	ApiaGroup, Inc.			Equity	19,458	3,116,977	0.236%
JNL Multi-Manager Mid Cap Fund	AME-TEK, Inc.			Equity	70,000	12,015,700	0.908%
JNL Multi-Manager Mid Cap Fund	AGCO Corporation			Equity	45,000	4,403,700	0.333%
JNL Multi-Manager Mid Cap Fund	Amphenol Corporation			Equity	194,205	12,686,442	0.958%
JNL Multi-Manager Mid Cap Fund	IDEX Corporation			Equity	42,000	9,009,000	0.681%
JNL Multi-Manager Mid Cap Fund	IDEX Corporation			Equity	10,940	1,948,520	0.147%
JNL Multi-Manager Mid Cap Fund	Crown Holdings, Inc.			Equity	81,800	7,842,984	0.593%
JNL Multi-Manager Mid Cap Fund	The Clorox Company			Equity	34,000	5,538,940	0.418%
JNL Multi-Manager Mid Cap Fund	The Clorox Company			Equity	63,980	10,422,982	0.787%
JNL Multi-Manager Mid Cap Fund	Hologic, Inc.			Equity	67,800	4,522,988	0.417%
JNL Multi-Manager Mid Cap Fund	Hologic, Inc.			Equity	8,183	666,587	0.050%
JNL Multi-Manager Mid Cap Fund	IDEXX Laboratories, Inc.			Equity	13,983	7,064,491	0.534%
JNL Multi-Manager Mid Cap Fund	Target Corporation			Equity	45,800	7,138,388	0.539%
JNL Multi-Manager Mid Cap Fund	Radnet Research Systems Inc.			Equity	12,000	5,618,200	0.427%
JNL Multi-Manager Mid Cap Fund	CoStar Group, Inc.			Equity	72,554	5,473,474	0.414%
JNL Multi-Manager Mid Cap Fund	Cullen/Frost Bankers, Inc.			Equity	76,500	8,557,290	0.646%
JNL Multi-Manager Mid Cap Fund	California Water Service Group			Equity	122,038	6,616,900	0.500%
JNL Multi-Manager Mid Cap Fund	Hormel Foods Corporation			Equity	188,500	9,075,450	0.681%
JNL Multi-Manager Mid Cap Fund	Fair Isaac Corporation			Equity	14,139	27,479,429	2.076%
JNL Multi-Manager Mid Cap Fund	Flex Ltd.			Equity	78,075	2,610,047	0.197%
JNL Multi-Manager Mid Cap Fund	Colerra Energy Inc.			Equity	222,899	5,338,431	0.403%
JNL Multi-Manager Mid Cap Fund	The Estee Lauder Companies Inc.			Equity	70,861	7,064,133	0.544%
JNL Multi-Manager Mid Cap Fund	Darden Restaurants, Inc.			Equity	16,700	2,740,971	0.207%
JNL Multi-Manager Mid Cap Fund	FTI Consulting, Inc.			Equity	27,800	6,326,168	0.478%
JNL Multi-Manager Mid Cap Fund	Equifax Inc.			Equity	33,938	9,973,021	0.753%
JNL Multi-Manager Mid Cap Fund	Prosperity Bancshares, Inc.			Equity	17,800	5,215,786	0.394%
JNL Multi-Manager Mid Cap Fund	Graco Inc.			Equity	57,500	5,031,825	0.380%
JNL Multi-Manager Mid Cap Fund	Graco Inc.			Equity	31,904	2,791,919	0.211%
JNL Multi-Manager Mid Cap Fund	eBay Inc.			Equity	82,400	5,365,064	0.405%
JNL Multi-Manager Mid Cap Fund	Arthur J. Gallagher & Co.			Equity	11,500	3,235,755	0.244%
JNL Multi-Manager Mid Cap Fund	W.W. Grainger, Inc.			Equity	1,890	1,921,789	0.146%
JNL Multi-Manager Mid Cap Fund	Independent Bank Corp.			Equity	7,889	470,973	0.036%
JNL Multi-Manager Mid Cap Fund	IDACORP, Inc.			Equity	58,864	6,068,290	0.458%
JNL Multi-Manager Mid Cap Fund	Republic Services, Inc.			Equity	11,800	2,969,812	0.179%
JNL Multi-Manager Mid Cap Fund	MKS Instruments, Inc.			Equity	40,700	4,424,497	0.334%
JNL Multi-Manager Mid Cap Fund	Garmin, Inc.			Equity	30,287	15,348,240	1.160%
JNL Multi-Manager Mid Cap Fund	Huntington Bancshares Incorporated			Equity	270,300	4,012,307	0.303%
JNL Multi-Manager Mid Cap Fund	J.B. Hunt Transport Services, Inc.			Equity	31,100	5,359,463	0.405%
JNL Multi-Manager Mid Cap Fund	Henry Schein, Inc.			Equity	152,739	11,314,673	0.841%
JNL Multi-Manager Mid Cap Fund	Roper Technologies, Inc.			Equity	6,800	3,783,792	0.286%
JNL Multi-Manager Mid Cap Fund	RPM International Inc.			Equity	41,500	5,021,500	0.379%
JNL Multi-Manager Mid Cap Fund	Entegris, Inc.			Equity	34,500	3,882,285	0.293%
JNL Multi-Manager Mid Cap Fund	Packaging Corporation of America			Equity	27,075	7,300,080	0.549%
JNL Multi-Manager Mid Cap Fund	Ross Stores, Inc.			Equity	43,656	6,570,665	0.496%
JNL Multi-Manager Mid Cap Fund	Ross Stores, Inc.			Equity	40,500	6,095,655	0.461%
JNL Multi-Manager Mid Cap Fund	XCEL Energy Inc.			Equity	67,550	4,449,395	0.336%
JNL Multi-Manager Mid Cap Fund	Poel Corporation			Equity	19,942	1,921,682	0.146%
JNL Multi-Manager Mid Cap Fund	T. Rowe Price Group, Inc.			Equity	37,900	4,128,447	0.312%
JNL Multi-Manager Mid Cap Fund	McCormick & Company, Incorporated			Equity	97,500	8,024,250	0.606%
JNL Multi-Manager Mid Cap Fund	McCormick & Company, Incorporated			Equity	47,617	3,918,879	0.296%
JNL Multi-Manager Mid Cap Fund	Global Payments Inc.			Equity	39,400	4,035,348	0.304%
JNL Multi-Manager Mid Cap Fund	Landstar System, Inc.			Equity	22,400	4,202,688	0.320%
JNL Multi-Manager Mid Cap Fund	ManpowerGroup Inc.			Equity	50,500	3,712,760	0.280%
JNL Multi-Manager Mid Cap Fund	On Semiconductor Corporation			Equity	54,550	3,960,876	0.299%
JNL Multi-Manager Mid Cap Fund	Zimmer Biomet Holdings, Inc.			Equity	44,900	4,857,731	0.367%
JNL Multi-Manager Mid Cap Fund	Agilent Technologies, Inc.			Equity	29,100	4,201,786	0.316%
JNL Multi-Manager Mid Cap Fund	Agilent Technologies, Inc.			Equity	27,500	4,083,200	0.308%
JNL Multi-Manager Mid Cap Fund	Hartford Financial Services Group, Inc., The			Equity	58,200	6,872,726	0.519%
JNL Multi-Manager Mid Cap Fund	Quest Diagnostics Incorporated			Equity	48,600	7,545,150	0.570%
JNL Multi-Manager Mid Cap Fund	RJ's Wholesale Club Holdings, Inc.			Equity	89,100	7,348,958	0.555%
JNL Multi-Manager Mid Cap Fund	Nordson Corporation			Equity	28,500	7,484,955	0.565%
JNL Multi-Manager Mid Cap Fund	Rockwell Automation, Inc.			Equity	28,500	7,651,110	0.578%
JNL Multi-Manager Mid Cap Fund	Rockwell Automation, Inc.			Equity	2,587	694,506	0.052%
JNL Multi-Manager Mid Cap Fund	Kimberly-Clark Corporation			Equity	45,754	6,665,699	0.499%
JNL Multi-Manager Mid Cap Fund	Reinsurance Group of America, Incorporated			Equity	18,422	4,013,601	0.303%
JNL Multi-Manager Mid Cap Fund	Edwards Lifesciences Corporation			Equity	105,500	6,961,945	0.526%
JNL Multi-Manager Mid Cap Fund	Akama Technologies, Inc.			Equity	47,300	4,774,935	0.361%
JNL Multi-Manager Mid Cap Fund	Akama Technologies, Inc.			Equity	60,500	5,007,475	0.481%
JNL Multi-Manager Mid Cap Fund	3M Company			Equity	62,187	8,500,963	0.642%
JNL Multi-Manager Mid Cap Fund	Everest Group, Ltd.			Equity	31,500	12,342,645	0.932%
JNL Multi-Manager Mid Cap Fund	Northern Trust Corporation			Equity	127,753	11,597,417	0.876%
JNL Multi-Manager Mid Cap Fund	Deven Energy Corporation			Equity	110,500	4,322,760	0.327%
JNL Multi-Manager Mid Cap Fund	Exact Sciences Corporation			Equity	89,000	5,790,200	0.437%
JNL Multi-Manager Mid Cap Fund	Regalton Corporation			Equity	25,500	3,794,910	0.287%
JNL Multi-Manager Mid Cap Fund	Regal Rexnord Corporation			Equity	25,500	4,238,865	0.320%
JNL Multi-Manager Mid Cap Fund	Lindsay Corporation			Equity	16,780	2,389,708	0.182%
JNL Multi-Manager Mid Cap Fund	Middleby Corporation, The			Equity	41,100	5,718,243	0.432%
JNL Multi-Manager Mid Cap Fund	Old Republic International Corporation			Equity	155,100	5,493,642	0.415%
JNL Multi-Manager Mid Cap Fund	Marten Transport, Ltd.			Equity	174,829	3,094,473	0.234%
JNL Multi-Manager Mid Cap Fund	Lincoln Electric Holdings, Inc.			Equity	14,800	2,852,404	0.215%
JNL Multi-Manager Mid Cap Fund	Northrop Grumman Corporation			Equity	6,396	3,372,255	0.255%
JNL Multi-Manager Mid Cap Fund	Rollins, Inc.			Equity	104,930	5,307,359	0.401%
JNL Multi-Manager Mid Cap Fund	Rogers Corporation			Equity	43,303	4,893,672	0.370%
JNL Multi-Manager Mid Cap Fund	Align Technology, Inc.			Equity	18,000	4,577,760	0.346%
JNL Multi-Manager Mid Cap Fund	Tractor Supply Company			Equity	10,200	2,967,486	0.224%
JNL Multi-Manager Mid Cap Fund	Calavo Growers, Inc.			Equity	109,815	3,133,022	0.237%
JNL Multi-Manager Mid Cap Fund	West Pharmaceutical Services, Inc.			Equity	15,000	4,502,400	0.340%
JNL Multi-Manager Mid Cap Fund	Trimble Inc.			Equity	73,900	4,588,451	0.347%
JNL Multi-Manager Mid Cap Fund	Tecton Inc.			Equity	72,200	6,396,990	0.483%
JNL Multi-Manager Mid Cap Fund	Avista Corporation			Equity	67,655	2,618,144	0.198%
JNL Multi-Manager Mid Cap Fund	Zebra Technologies Corporation			Equity	12,800	4,740,096	0.358%
JNL Multi-Manager Mid Cap Fund	STARR Surgical Company			Equity	69,782	2,592,401	0.196%
JNL Multi-Manager Mid Cap Fund	Toro Company, The			Equity	57,500	5,007,475	0.378%
JNL Multi-Manager Mid Cap Fund	Toro Company, The			Equity	24,501	2,133,792	0.161%
JNL Multi-Manager Mid Cap Fund	Southwest Airlines Co.			Equity	56,004	1,659,399	0.125%
JNL Multi-Manager Mid Cap Fund	Stenocyte, Inc.			Equity	55,679	3,396,419	0.257%
JNL Multi-Manager Mid Cap Fund	The J. M. Smucker Company			Equity	48,500	4,073,350	0.444%
JNL Multi-Manager Mid Cap Fund	Synovus, Inc.			Equity	9,500	4,810,705	0.363%
JNL Multi-Manager Mid Cap Fund	SJW Group			Equity	88,236	5,127,394	0.387%
JNL Multi-Manager Mid Cap Fund	Waters Corporation			Equity	25,500	9,177,195	0.693%
JNL Multi-Manager Mid Cap Fund	Waters Corporation			Equity	16,741	1,349,588	0.102%
JNL Multi-Manager Mid Cap Fund	Alliant Energy Corporation			Equity	150,400	9,127,775	0.690%
JNL Multi-Manager Mid Cap Fund	Sysco Corporation			Equity	8,933	697,310	0.053%
JNL Multi-Manager Mid Cap Fund	Werner Enterprises, Inc.			Equity	267,910	10,338,647	0.781%
JNL Multi-Manager Mid Cap Fund	Tetradyne, Inc.			Equity	57,955	7,761,913	0.586%
JNL Multi-Manager Mid Cap Fund	Westlake Corporation			Equity	37,400	5,620,846	0.425%
JNL Multi-Manager Mid Cap Fund	TowneBank			Equity	22,489	749,109	0.057%
JNL Multi-Manager Mid Cap Fund	Monolithic Power Systems, Inc.			Equity	8,891	8,230,843	0.622%
JNL Multi-Manager Mid Cap Fund	Domino's Pizza, Inc.			Equity	12,660	5,445,572	0.411%
JNL Multi-Manager Mid Cap Fund	Domino's Pizza, Inc.			Equity	8,000	3,441,120	0.260%
JNL Multi-Manager Mid Cap Fund	MercadoLibre, Inc.			Equity	6,938	14,236,498	1.076%
JNL Multi-Manager Mid Cap Fund	Franco-Nevada Corporation			Equity	50,900	6,324,325	0.478%
JNL Multi-Manager Mid Cap Fund	DexCom, Inc.			Equity	75,000	5,028,000	0.380%
JNL Multi-Manager Mid Cap Fund	Musler Water Products, Inc.			Equity	145,800	4,154,800	0.312%
JNL Multi-Manager Mid Cap Fund	MSCI Inc.			Equity	3,500	2,040,255	0.154%
JNL Multi-Manager Mid Cap Fund	Bank of New York Mellon Corporation, The			Equity	81,600	5,863,776	0.443%
JNL Multi-Manager Mid Cap Fund	Ulta Beauty, Inc.			Equity	5,104	1,986,068	0.150%
JNL Multi-Manager Mid Cap Fund	Ulta Beauty, Inc.			Equity	21,000	6,171,520	0.617%

Derivatives	2,036,676,133
Total Derivatives	0
Total All Investments	1,323,676,133

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager Small Cap Growth Fund	Cash			Cash Equivalent	32	22	0.009%
JNL Multi-Manager Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	13,534,364	13,593,288	0.583%
JNL Multi-Manager Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	9,701,476	9,726,057	0.417%
JNL Multi-Manager Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	14,126,568	14,186,137	0.609%
JNL Multi-Manager Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,741,109	2,749,696	0.115%
JNL Multi-Manager Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,666,751	2,672,791	0.115%
JNL Multi-Manager Small Cap Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	33,026,346	33,163,294	1.423%
JNL Multi-Manager Small Cap Growth Fund	Biomerica, Inc.			Equity	211,736	69,365	0.003%
JNL Multi-Manager Small Cap Growth Fund	Cytosorbents Corporation			Equity	539,481	809,222	0.035%
JNL Multi-Manager Small Cap Growth Fund	Marava Life Sciences Holdings, Inc.			Equity	344,717	2,864,588	0.123%
JNL Multi-Manager Small Cap Growth Fund	Inari Medical, Inc.			Equity	165,019	6,805,384	0.292%
JNL Multi-Manager Small Cap Growth Fund	Celsius Holdings, Inc.			Equity	172,805	5,419,165	0.233%
JNL Multi-Manager Small Cap Growth Fund	Plant Therapeutics, Inc.			Equity	98,083	1,099,510	0.047%
JNL Multi-Manager Small Cap Growth Fund	Vertex, Inc.			Equity	38,524	1,098,428	0.047%
JNL Multi-Manager Small Cap Growth Fund	Montrose Environmental Group, Inc.			Equity	212,121	5,578,782	0.239%
JNL Multi-Manager Small Cap Growth Fund	Montrose Environmental Group, Inc.			Equity	55,279	1,453,838	0.062%
JNL Multi-Manager Small Cap Growth Fund	Montrose Environmental Group, Inc.			Equity	16,730	439,999	0.019%
JNL Multi-Manager Small Cap Growth Fund	Montrose Environmental Group, Inc.			Equity	76,874	2,021,788	0.087%
JNL Multi-Manager Small Cap Growth Fund	Vital Farms, Inc.			Equity	34,500	1,209,915	0.052%
JNL Multi-Manager Small Cap Growth Fund	Stirne Corporation			Equity	20,060	3,440,491	0.148%
JNL Multi-Manager Small Cap Growth Fund	Stirne Corporation			Equity	13,510	2,317,100	0.099%
JNL Multi-Manager Small Cap Growth Fund	Vaccyte, Inc.			Equity	47,622	5,441,766	0.234%
JNL Multi-Manager Small Cap Growth Fund	Vaccyte, Inc.			Equity	78,284	8,945,513	0.384%
JNL Multi-Manager Small Cap Growth Fund	Vaccyte, Inc.			Equity	13,900	1,588,353	0.068%
JNL Multi-Manager Small Cap Growth Fund	UTZ Brands, Inc.			Equity	104,010	1,848,315	0.079%
JNL Multi-Manager Small Cap Growth Fund	Keros Therapeutics, Inc.			Equity	66,316	3,850,970	0.165%
JNL Multi-Manager Small Cap Growth Fund	Keros Therapeutics, Inc.			Equity	19,206	1,115,292	0.048%
JNL Multi-Manager Small Cap Growth Fund	Certara, Inc.			Equity	593,173	6,946,056	0.298%
JNL Multi-Manager Small Cap Growth Fund	Porch Group Inc			Equity	1,856,758	2,860,124	0.122%
JNL Multi-Manager Small Cap Growth Fund	SunQpia Inc.			Equity	723,793	4,617,417	0.198%
JNL Multi-Manager Small Cap Growth Fund	Silicon Motion, Inc.			Equity	23,544	1,388,323	0.059%
JNL Multi-Manager Small Cap Growth Fund	Mayville Engineering Company, Inc.			Equity	13,900	283,012	0.013%
JNL Multi-Manager Small Cap Growth Fund	908 Devices Inc.			Equity	156,627	543,496	0.023%
JNL Multi-Manager Small Cap Growth Fund	ACV Auctions Inc.			Equity	154,325	3,137,427	0.135%
JNL Multi-Manager Small Cap Growth Fund	Rightmove PLC			Equity	2,092,389	6,577,677	0.281%
JNL Multi-Manager Small Cap Growth Fund	Alkami Technology, Inc.			Equity	67,460	2,127,688	0.091%
JNL Multi-Manager Small Cap Growth Fund	Rightmove PLC			Equity	647,588	10,923,278	0.469%
JNL Multi-Manager Small Cap Growth Fund	Genius Sports Limited			Equity	683,987	5,362,458	0.230%
JNL Multi-Manager Small Cap Growth Fund	Caretek, Inc.			Equity	306,634	14,675,271	0.611%
JNL Multi-Manager Small Cap Growth Fund	StepStone Group Inc.			Equity	165,703	9,416,901	0.404%
JNL Multi-Manager Small Cap Growth Fund	StepStone Group Inc.			Equity	36,221	2,058,439	0.088%
JNL Multi-Manager Small Cap Growth Fund	StepStone Group Inc.			Equity	18,058	1,026,236	0.044%
JNL Multi-Manager Small Cap Growth Fund	Procure Technologies, Inc.			Equity	92,761	3,725,384	0.158%
JNL Multi-Manager Small Cap Growth Fund	Procure Technologies, Inc.			Equity	39,912	2,463,369	0.106%
JNL Multi-Manager Small Cap Growth Fund	Procure Technologies, Inc.			Equity	19,080	1,177,618	0.051%
JNL Multi-Manager Small Cap Growth Fund	IAC Inc.			Equity	189,736	10,211,592	0.438%
JNL Multi-Manager Small Cap Growth Fund	Soft Technologies, Inc.			Equity	137,260	1,078,864	0.046%
JNL Multi-Manager Small Cap Growth Fund	Zeta Global Holdings Corp.			Equity	205,112	6,118,491	0.263%
JNL Multi-Manager Small Cap Growth Fund	JFROG Ltd			Equity	61,878	1,796,937	0.077%
JNL Multi-Manager Small Cap Growth Fund	Appl.o.vn Corporation			Equity	28,020	3,658,011	0.157%
JNL Multi-Manager Small Cap Growth Fund	Confluent, Inc.			Equity	11,680	1,139,038	0.049%
JNL Multi-Manager Small Cap Growth Fund	SentinelOne, Inc.			Equity	345,000	8,252,400	0.354%
JNL Multi-Manager Small Cap Growth Fund	SentinelOne, Inc.			Equity	281,438	6,731,997	0.282%
JNL Multi-Manager Small Cap Growth Fund	Stevanato Group Societa Per Azioni			Equity	264,098	5,281,960	0.227%
JNL Multi-Manager Small Cap Growth Fund	Ryan Specialty Group Holdings, Inc.			Equity	649,812	43,074,629	1.849%
JNL Multi-Manager Small Cap Growth Fund	Dream Finders Homes, Inc.			Equity	209,265	1,577,486	0.067%
JNL Multi-Manager Small Cap Growth Fund	Plywire Corporation			Equity	29,170	478,096	0.021%
JNL Multi-Manager Small Cap Growth Fund	Sportradar Group AG			Equity	91,852	1,112,328	0.048%
JNL Multi-Manager Small Cap Growth Fund	Freshworks, Inc.			Equity	121,635	1,396,370	0.060%
JNL Multi-Manager Small Cap Growth Fund	Toilet, Inc.			Equity	166,013	4,416,128	0.189%
JNL Multi-Manager Small Cap Growth Fund	Enovix Corporation			Equity	87,584	818,035	0.035%
JNL Multi-Manager Small Cap Growth Fund	Cleanwater Analytics Holdings, Inc.			Equity	366,096	9,243,924	0.397%
JNL Multi-Manager Small Cap Growth Fund	Cleanwater Analytics Holdings, Inc.			Equity	101,531	3,563,658	0.150%
JNL Multi-Manager Small Cap Growth Fund	Cleanwater Analytics Holdings, Inc.			Equity	587,423	14,652,431	0.617%
JNL Multi-Manager Small Cap Growth Fund	Endava PLC			Equity	145,714	3,721,536	0.160%
JNL Multi-Manager Small Cap Growth Fund	First Watch Restaurant Group, Inc.			Equity	326,872	5,099,203	0.219%
JNL Multi-Manager Small Cap Growth Fund	First Watch Restaurant Group, Inc.			Equity	75,050	1,170,780	0.050%
JNL Multi-Manager Small Cap Growth Fund	Zum Elyak Water Solutions Corporation			Equity	33,250	1,236,026	0.051%
JNL Multi-Manager Small Cap Growth Fund	Life Time Group Holdings, Inc.			Equity	111,417	2,720,803	0.117%
JNL Multi-Manager Small Cap Growth Fund	GiLab Inc.			Equity	144,903	7,468,301	0.321%
JNL Multi-Manager Small Cap Growth Fund	GiLab Inc.			Equity	23,150	1,193,151	0.051%
JNL Multi-Manager Small Cap Growth Fund	Vita Coco Company, Inc. The			Equity	63,110	1,786,444	0.076%
JNL Multi-Manager Small Cap Growth Fund	Vita Coco Company, Inc. The			Equity	231,998	6,567,863	0.282%
JNL Multi-Manager Small Cap Growth Fund	Cabaleta Bio, Inc.			Equity	40,810	1,922,623	0.080%
JNL Multi-Manager Small Cap Growth Fund	Braze, Inc.			Equity	207,283	6,703,532	0.288%
JNL Multi-Manager Small Cap Growth Fund	Braze, Inc.			Equity	29,930	297,936	0.012%
JNL Multi-Manager Small Cap Growth Fund	Sweetgreen, Inc.			Equity	52,834	1,872,965	0.080%
JNL Multi-Manager Small Cap Growth Fund	Sweetgreen, Inc.			Equity	20,140	713,963	0.031%
JNL Multi-Manager Small Cap Growth Fund	Sweetgreen, Inc.			Equity	94,431	3,347,579	0.144%
JNL Multi-Manager Small Cap Growth Fund	Flexion Therapeutics, Inc.			Equity	491,128	4,911	0.000%
JNL Multi-Manager Small Cap Growth Fund	Kura Sushi USA, Inc.	1/7/2031		Equity	17,105	1,377,979	0.059%
JNL Multi-Manager Small Cap Growth Fund	Kura Sushi USA, Inc.			Equity	19,649	1,582,923	0.068%
JNL Multi-Manager Small Cap Growth Fund	FirstCash, Inc.			Equity	39,870	4,577,076	0.196%
JNL Multi-Manager Small Cap Growth Fund	Paycom Global Inc.			Equity	495,520	3,731,266	0.160%
JNL Multi-Manager Small Cap Growth Fund	rCino DrCo, Inc.			Equity	715,257	22,684,969	0.970%
JNL Multi-Manager Small Cap Growth Fund	Portillo's Inc.			Equity	118,030	1,589,864	0.068%
JNL Multi-Manager Small Cap Growth Fund	Minion Technologies (US), Inc.			Equity	103,549	1,146,287	0.049%
JNL Multi-Manager Small Cap Growth Fund	Belling Intermediate Holdings, Inc.			Equity	52,920	3,213,302	0.138%
JNL Multi-Manager Small Cap Growth Fund	Compacq, Inc.			Equity	332,181	2,020,626	0.087%
JNL Multi-Manager Small Cap Growth Fund	Credo Technology Group Holding Ltd			Equity	90,639	2,791,681	0.120%
JNL Multi-Manager Small Cap Growth Fund	Credo Technology Group Holding Ltd			Equity	38,170	1,175,636	0.050%
JNL Multi-Manager Small Cap Growth Fund	Indie Semiconductor, Inc.			Equity	858,514	3,425,471	0.147%
JNL Multi-Manager Small Cap Growth Fund	Indie Semiconductor, Inc.			Equity	3,580,465	14,286,025	0.613%
JNL Multi-Manager Small Cap Growth Fund	Couchbase, Inc.			Equity	235,662	3,798,871	0.163%
JNL Multi-Manager Small Cap Growth Fund	Establishment Labs Holdings Inc.			Equity	79,294	3,431,051	0.147%
JNL Multi-Manager Small Cap Growth Fund	DK Crown Holdings Inc.			Equity	169,318	6,637,266	0.285%
JNL Multi-Manager Small Cap Growth Fund	Aspen Technology, Inc.			Equity	73,211	17,245,431	0.740%
JNL Multi-Manager Small Cap Growth Fund	Holley Inc.			Equity	434,550	1,281,923	0.055%
JNL Multi-Manager Small Cap Growth Fund	SPX Technologies, Inc.			Equity	11,800	1,881,628	0.081%
JNL Multi-Manager Small Cap Growth Fund	SPX Technologies, Inc.			Equity	5,002	797,619	0.034%
JNL Multi-Manager Small Cap Growth Fund	ProSight, Inc.			Equity	17,450	862,554	0.037%
JNL Multi-Manager Small Cap Growth Fund	Olema Pharmaceuticals Inc.			Equity	54,010	644,879	0.028%
JNL Multi-Manager Small Cap Growth Fund	Coherent Corp.			Equity	13,210	1,174,501	0.050%
JNL Multi-Manager Small Cap Growth Fund	Edgeview Therapeutics, Inc.			Equity	82,091	2,191,009	0.094%
JNL Multi-Manager Small Cap Growth Fund	Bohoven Ltd.			Equity	22,620	1,130,321	0.049%
JNL Multi-Manager Small Cap Growth Fund	PXO Inc.			Equity	52,610	1,473,080	0.063%
JNL Multi-Manager Small Cap Growth Fund	Limbach Holdings, Inc.			Equity	31,110	2,356,894	0.101%
JNL Multi-Manager Small Cap Growth Fund	Procept Biobotics Corporation			Equity	30,705	2,460,085	0.106%
JNL Multi-Manager Small Cap Growth Fund	Procept Biobotics Corporation			Equity	13,050	1,045,566	0.045%
JNL Multi-Manager Small Cap Growth Fund	Vericor Corporation			Equity	69,760	2,524,860	0.108%
JNL Multi-Manager Small Cap Growth Fund	Tandem Diabetes Care, Inc.			Equity	76,180	3,230,794	0.139%
JNL Multi-Manager Small Cap Growth Fund	Dayforce, Inc.			Equity	118,709	7,270,926	0.312%
JNL Multi-Manager Small Cap Growth Fund	Materion Corporation			Equity	20,690	2,314,383	0.099%
JNL Multi-Manager Small Cap Growth Fund	Materion Corporation			Equity	32,281	3,610,953	0.155%
JNL Multi-Manager Small Cap Growth Fund	Axenta, Inc.			Equity	138,450	6,706,518	0.288%
JNL Multi-Manager Small Cap Growth Fund	Power Integrations, Inc.			Equity	142,523	9,138,575	0.392%
JNL Multi-Manager Small Cap Growth Fund	Power Integrations, Inc.			Equity	36,424	2,335,507	0.100%
JNL Multi-Manager Small Cap Growth Fund	Casella Waste Systems, Inc.			Equity	40,039	3,983,480	0.171%
JNL Multi-Manager Small Cap Growth Fund	Casella Waste Systems, Inc.			Equity	102,695	10,217,126	0.439%
JNL Multi-Manager Small Cap Growth Fund	Casella Waste Systems, Inc.			Equity	50,850	5,059,067	0.217%
JNL Multi-Manager Small Cap Growth Fund	NVE Corporation			Equity	11,808	943,105	0.040%
JNL Multi-Manager Small Cap Growth Fund	Universal Technical Institute, Inc.			Equity	51,000	829,460	0.036%
JNL Multi-Manager Small Cap Growth Fund	Mercury Systems, Inc.			Equity	196,269	7,261,953	0.312%
JNL Multi-Manager Small Cap Growth Fund	Mercury Systems, Inc.			Equity	256,793	9,501,341	0.408%
JNL Multi-Manager Small Cap Growth Fund	Balchem Corporation			Equity	4,150	730,400	0.031%
JNL Multi-Manager Small Cap Growth Fund	American Eagle Outfitters, Inc.			Equity	284,750	10,031,853	0.435%
JNL Multi-Manager Small Cap Growth Fund	Applied Industrial Technologies, Inc.			Equity	61,255	13,667,828	0.587%
JNL Multi-Manager Small Cap Growth Fund	Applied Industrial Technologies, Inc.			Equity	20,400	4,551,852	0.195%
JNL Multi-Manager Small Cap Growth Fund	Comfort Systems USA, Inc.			Equity	6,466	2,524,003	0.108%
JNL Multi-Manager Small Cap Growth Fund	Comfort Systems USA, Inc.			Equity	31,632	12,347,551	0.509%
JNL Multi-Manager Small Cap Growth Fund	Masemus, Inc.			Equity	5,610	822,628	0.035%
JNL Multi-Manager Small Cap Growth Fund	Advanced Energy Industries, Inc.			Equity	80,360	8,457,086	0.363%
JNL Multi-Manager Small Cap Growth Fund	PriceSmart, Inc.			Equity	20,255	1,859,004	0.080%
JNL Multi-Manager Small Cap Growth Fund	Badger Meter, Inc.			Equity	2,860	624,653	0.027%
JNL Multi-Manager Small Cap Growth Fund	DEX Corporation			Equity	7,960	1,707,420	0.073%
JNL Multi-Manager Small Cap Growth Fund	Bel Fuse Inc.			Equity	30,229	2,373,279	0.102%
JNL Multi-Manager Small Cap Growth Fund	FactSet Research Systems Inc.			Equity	40,075	18,428,489	0.791%
JNL Multi-Manager Small Cap Growth Fund	CoStar Group, Inc.			Equity	30,548	2,304,541	0.099%
JNL Multi-Manager Small Cap Growth Fund	Fair Isaac Corporation			Equity	17,064	33,184,225	1.423%
JNL Multi-Manager Small Cap Growth Fund	Iron, Inc.			Equity	18,050	1,927,921	0.083%
JNL Multi-Manager Small Cap Growth Fund	Clean Harbors, Inc.			Equity	13,610	3,289,673	0.141%
JNL Multi-Manager Small Cap Growth Fund	Exponent, Inc.			Equity	48,262	5,563,643	0.239%
JNL Multi-Manager Small Cap Growth Fund	Check Point Software Technologies Ltd			Equity	18,340	9,336,128	0.402%
JNL Multi-Manager Small Cap Growth Fund	Cognex Corporation			Equity	183,535	7,433,168	0.319%
JNL Multi-Manager Small Cap Growth Fund	AAON, Inc.			Equity	29,281	3,157,666	0.136%
JNL Multi-Manager Small Cap Growth Fund	AAON, Inc.			Equity	34,160	3,683,814	0.158%
JNL Multi-Manager Small Cap Growth Fund	AAON, Inc.			Equity	285,413	30,778,938	1.321%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Small Cap Growth Fund	HEICO Corporation			Equity	119,986	24,448,347	1.049%
JNL Multi-Manager Small Cap Growth Fund	Siechers U.S.A., Inc.			Equity	39,210	2,889,625	0.12%
JNL Multi-Manager Small Cap Growth Fund	Siechers U.S.A., Inc.			Equity	58,400	3,908,128	0.168%
JNL Multi-Manager Small Cap Growth Fund	Columbus McKinnon Corporation			Equity	45,573	1,640,628	0.070%
JNL Multi-Manager Small Cap Growth Fund	Carpenter Technology Corporation			Equity	62,506	9,974,707	0.428%
JNL Multi-Manager Small Cap Growth Fund	Innospec Inc.			Equity	25,815	1,919,418	0.255%
JNL Multi-Manager Small Cap Growth Fund	Winn-Dixie Financial Corporation			Equity	34,530	3,747,541	0.161%
JNL Multi-Manager Small Cap Growth Fund	Euronet Worldwide, Inc.			Equity	72,868	7,230,692	0.310%
JNL Multi-Manager Small Cap Growth Fund	Euronet Worldwide, Inc.			Equity	38,280	3,798,524	0.163%
JNL Multi-Manager Small Cap Growth Fund	Jack Henry & Associates, Inc.			Equity	70,130	12,380,750	0.531%
JNL Multi-Manager Small Cap Growth Fund	Topcoff Callaway Brands Corp.			Equity	185,709	1,819,485	0.078%
JNL Multi-Manager Small Cap Growth Fund	Churchill Downs Incorporated			Equity	19,210	2,597,384	0.111%
JNL Multi-Manager Small Cap Growth Fund	Churchill Downs Incorporated			Equity	57,388	7,759,431	0.333%
JNL Multi-Manager Small Cap Growth Fund	Churchill Downs Incorporated			Equity	23,110	3,124,703	0.134%
JNL Multi-Manager Small Cap Growth Fund	Range Resources Corporation			Equity	71,775	2,207,788	0.095%
JNL Multi-Manager Small Cap Growth Fund	Neurocrine Biosciences, Inc.			Equity	23,740	2,735,323	0.117%
JNL Multi-Manager Small Cap Growth Fund	Trex Company, Inc.			Equity	99,508	6,625,243	0.284%
JNL Multi-Manager Small Cap Growth Fund	Pool Corporation			Equity	12,665	4,772,172	0.205%
JNL Multi-Manager Small Cap Growth Fund	Pool Corporation			Equity	38,935	14,670,708	0.630%
JNL Multi-Manager Small Cap Growth Fund	WisdomTree, Inc.			Equity	156,220	1,560,638	0.067%
JNL Multi-Manager Small Cap Growth Fund	Rambus Inc.			Equity	189,073	7,982,662	0.343%
JNL Multi-Manager Small Cap Growth Fund	Powell Industries, Inc.			Equity	3,190	708,148	0.030%
JNL Multi-Manager Small Cap Growth Fund	CBIZ, Inc.			Equity	37,741	2,539,592	0.109%
JNL Multi-Manager Small Cap Growth Fund	Harvard Bioscience, Inc.			Equity	453,803	1,220,730	0.052%
JNL Multi-Manager Small Cap Growth Fund	Modine Manufacturing Company			Equity	27,256	3,619,324	0.155%
JNL Multi-Manager Small Cap Growth Fund	Modine Manufacturing Company			Equity	10,710	1,422,181	0.061%
JNL Multi-Manager Small Cap Growth Fund	Modine Manufacturing Company			Equity	14,298	1,989,631	0.085%
JNL Multi-Manager Small Cap Growth Fund	Insmid Incorporated			Equity	43,017	3,140,241	0.135%
JNL Multi-Manager Small Cap Growth Fund	Insmid Incorporated			Equity	87,748	6,405,604	0.275%
JNL Multi-Manager Small Cap Growth Fund	Insmid Incorporated			Equity	53,320	3,892,360	0.167%
JNL Multi-Manager Small Cap Growth Fund	Insmid Incorporated			Equity	34,495	2,516,135	0.108%
JNL Multi-Manager Small Cap Growth Fund	Newark Resources, Inc.			Equity	250,500	1,785,865	0.075%
JNL Multi-Manager Small Cap Growth Fund	ACADIA Pharmaceuticals Inc.			Equity	158,283	2,434,393	0.104%
JNL Multi-Manager Small Cap Growth Fund	MOOG Inc.			Equity	5,410	1,092,928	0.047%
JNL Multi-Manager Small Cap Growth Fund	Nordson Corporation			Equity	16,268	6,072,465	0.183%
JNL Multi-Manager Small Cap Growth Fund	PDF Solutions, Inc.			Equity	51,937	1,645,384	0.070%
JNL Multi-Manager Small Cap Growth Fund	Teledyne Technologies Incorporated			Equity	31,245	13,674,687	0.587%
JNL Multi-Manager Small Cap Growth Fund	Exact Sciences Corporation			Equity	100,000	6,812,000	0.292%
JNL Multi-Manager Small Cap Growth Fund	Exact Sciences Corporation			Equity	90,515	6,165,882	0.265%
JNL Multi-Manager Small Cap Growth Fund	Exact Sciences Corporation			Equity	108,500	7,990,240	0.317%
JNL Multi-Manager Small Cap Growth Fund	Repligen Corporation			Equity	26,168	3,894,322	0.167%
JNL Multi-Manager Small Cap Growth Fund	Repligen Corporation			Equity	33,333	4,960,617	0.213%
JNL Multi-Manager Small Cap Growth Fund	Repligen Corporation			Equity	15,825	2,355,077	0.101%
JNL Multi-Manager Small Cap Growth Fund	Regal Rebound Corporation			Equity	54,795	2,968,513	0.126%
JNL Multi-Manager Small Cap Growth Fund	Inspire Medical Systems, Inc.			Equity	23,500	4,959,675	0.213%
JNL Multi-Manager Small Cap Growth Fund	Inspire Medical Systems, Inc.			Equity	11,290	2,382,755	0.102%
JNL Multi-Manager Small Cap Growth Fund	Viking Therapeutics, Inc.			Equity	85,912	5,439,089	0.233%
JNL Multi-Manager Small Cap Growth Fund	Sterling Infrastructure, Inc.			Equity	29,980	4,347,190	0.187%
JNL Multi-Manager Small Cap Growth Fund	Selective Insurance Group, Inc.			Equity	22,584	2,107,087	0.090%
JNL Multi-Manager Small Cap Growth Fund	PAR Technology Corporation			Equity	165,882	8,639,135	0.371%
JNL Multi-Manager Small Cap Growth Fund	PAR Technology Corporation			Equity	14,750	768,180	0.033%
JNL Multi-Manager Small Cap Growth Fund	Kirby Corporation			Equity	9,810	901,038	0.039%
JNL Multi-Manager Small Cap Growth Fund	ACI Worldwide, Inc.			Equity	262,917	13,382,475	0.574%
JNL Multi-Manager Small Cap Growth Fund	West Pharmaceutical Services, Inc.			Equity	52,561	15,776,710	0.677%
JNL Multi-Manager Small Cap Growth Fund	Tetra Tech, Inc.			Equity	55,779	2,630,538	0.113%
JNL Multi-Manager Small Cap Growth Fund	Tetra Tech, Inc.			Equity	203,555	9,599,594	0.412%
JNL Multi-Manager Small Cap Growth Fund	U. S. Physical Therapy, Inc.			Equity	46,467	3,932,505	0.169%
JNL Multi-Manager Small Cap Growth Fund	Tyler Technologies, Inc.			Equity	33,590	19,607,155	0.842%
JNL Multi-Manager Small Cap Growth Fund	Skyline Champion Corporation			Equity	40,120	3,805,382	0.163%
JNL Multi-Manager Small Cap Growth Fund	Watts Water Technologies, Inc.			Equity	2,910	602,823	0.026%
JNL Multi-Manager Small Cap Growth Fund	Simpson Manufacturing Co., Inc.			Equity	14,693	1,604,164	0.070%
JNL Multi-Manager Small Cap Growth Fund	Simpson Manufacturing Co., Inc.			Equity	35,602	6,809,595	0.292%
JNL Multi-Manager Small Cap Growth Fund	Simpson Manufacturing Co., Inc.			Equity	8,060	1,541,636	0.066%
JNL Multi-Manager Small Cap Growth Fund	Simpson Manufacturing Co., Inc.			Equity	76,832	14,695,657	0.631%
JNL Multi-Manager Small Cap Growth Fund	Wynn Resorts, Limited			Equity	102,516	2,990,524	0.127%
JNL Multi-Manager Small Cap Growth Fund	Saia, Inc.			Equity	7,540	3,296,940	0.142%
JNL Multi-Manager Small Cap Growth Fund	Saia, Inc.			Equity	13,435	5,874,588	0.252%
JNL Multi-Manager Small Cap Growth Fund	Saia, Inc.			Equity	4,420	1,932,689	0.083%
JNL Multi-Manager Small Cap Growth Fund	Saia, Inc.			Equity	32,042	14,010,685	0.601%
JNL Multi-Manager Small Cap Growth Fund	The Timken Company			Equity	105,117	8,860,312	0.380%
JNL Multi-Manager Small Cap Growth Fund	Veeco Instruments Inc.			Equity	59,998	1,987,734	0.085%
JNL Multi-Manager Small Cap Growth Fund	Veeco Instruments Inc.			Equity	64,415	2,134,069	0.092%
JNL Multi-Manager Small Cap Growth Fund	Semtech Corporation			Equity	82,720	4,233,685	0.182%
JNL Multi-Manager Small Cap Growth Fund	Semtech Corporation			Equity	36,300	1,657,458	0.071%
JNL Multi-Manager Small Cap Growth Fund	Halozyme Therapeutics, Inc.			Equity	158,981	9,100,072	0.391%
JNL Multi-Manager Small Cap Growth Fund	Halozyme Therapeutics, Inc.			Equity	11,700	669,708	0.029%
JNL Multi-Manager Small Cap Growth Fund	Beacon Roofing Supply, Inc.			Equity	104,639	9,043,649	0.388%
JNL Multi-Manager Small Cap Growth Fund	Texas Roadhouse, Inc.			Equity	49,841	8,801,921	0.378%
JNL Multi-Manager Small Cap Growth Fund	Texas Roadhouse, Inc.			Equity	12,162	2,147,809	0.092%
JNL Multi-Manager Small Cap Growth Fund	Texas Roadhouse, Inc.			Equity	44,903	7,929,870	0.340%
JNL Multi-Manager Small Cap Growth Fund	Viad Corp			Equity	24,017	860,529	0.037%
JNL Multi-Manager Small Cap Growth Fund	MarketAxess Holdings Inc.			Equity	1,135	290,787	0.012%
JNL Multi-Manager Small Cap Growth Fund	The Bancorp, Inc.			Equity	72,043	3,854,301	0.165%
JNL Multi-Manager Small Cap Growth Fund	Primoris Services Corporation			Equity	18,840	1,095,358	0.047%
JNL Multi-Manager Small Cap Growth Fund	Western Alliance Bancorporation			Equity	128,415	11,106,613	0.477%
JNL Multi-Manager Small Cap Growth Fund	Morningstar, Inc.			Equity	42,182	13,461,120	0.578%
JNL Multi-Manager Small Cap Growth Fund	Orion Group Holdings, Inc.			Equity	208,674	1,204,049	0.052%
JNL Multi-Manager Small Cap Growth Fund	RBC Bearings Incorporated			Equity	10,815	3,237,795	0.139%
JNL Multi-Manager Small Cap Growth Fund	RBC Bearings Incorporated			Equity	2,055	615,226	0.026%
JNL Multi-Manager Small Cap Growth Fund	Masimo Corporation			Equity	50,500	7,533,145	0.328%
JNL Multi-Manager Small Cap Growth Fund	AeroVironment, Inc.			Equity	22,470	4,505,235	0.193%
JNL Multi-Manager Small Cap Growth Fund	LeMaitre Vascular, Inc.			Equity	144,192	13,393,995	0.575%
JNL Multi-Manager Small Cap Growth Fund	Cogent Communications Holdings, Inc.			Equity	39,530	3,001,119	0.129%
JNL Multi-Manager Small Cap Growth Fund	ArCure, Inc.			Equity	112,022	9,141,097	0.395%
JNL Multi-Manager Small Cap Growth Fund	Evercore Inc.			Equity	9,132	2,313,501	0.099%
JNL Multi-Manager Small Cap Growth Fund	Evercore Inc.			Equity	48,468	12,278,883	0.527%
JNL Multi-Manager Small Cap Growth Fund	Chart Industries, Inc.			Equity	48,901	6,070,570	0.261%
JNL Multi-Manager Small Cap Growth Fund	Chart Industries, Inc.			Equity	27,237	3,381,204	0.145%
JNL Multi-Manager Small Cap Growth Fund	Chart Industries, Inc.			Equity	67,000	8,317,380	0.357%
JNL Multi-Manager Small Cap Growth Fund	RadNet, Inc.			Equity	63,916	4,435,131	0.190%
JNL Multi-Manager Small Cap Growth Fund	RadNet, Inc.			Equity	24,320	1,687,565	0.072%
JNL Multi-Manager Small Cap Growth Fund	Omega Flex, Inc.			Equity	49,142	2,419,617	0.103%
JNL Multi-Manager Small Cap Growth Fund	Amicus Therapeutics, Inc.			Equity	166,000	1,772,880	0.076%
JNL Multi-Manager Small Cap Growth Fund	PROS Holdings, Inc.			Equity	67,712	1,254,026	0.054%
JNL Multi-Manager Small Cap Growth Fund	Builders FirstSource, Inc.			Equity	12,380	2,399,987	0.103%
JNL Multi-Manager Small Cap Growth Fund	The Ensign Group, Inc.			Equity	39,542	2,689,303	0.248%
JNL Multi-Manager Small Cap Growth Fund	Walker & Dunlop, Inc.			Equity	36,870	4,188,063	0.180%
JNL Multi-Manager Small Cap Growth Fund	John Bean Technologies Corporation			Equity	36,164	3,562,516	0.153%
JNL Multi-Manager Small Cap Growth Fund	Fabrinet			Equity	26,400	6,242,016	0.268%
JNL Multi-Manager Small Cap Growth Fund	Fabrinet			Equity	13,210	3,123,372	0.134%
JNL Multi-Manager Small Cap Growth Fund	Guidewire Software, Inc.			Equity	53,395	9,760,784	0.419%
JNL Multi-Manager Small Cap Growth Fund	Guidewire Software, Inc.			Equity	18,663	3,414,209	0.147%
JNL Multi-Manager Small Cap Growth Fund	Matador Resources Company			Equity	59,123	5,921,859	0.255%
JNL Multi-Manager Small Cap Growth Fund	Matador Resources Company			Equity	161,483	7,980,490	0.343%
JNL Multi-Manager Small Cap Growth Fund	Matador Resources Company			Equity	45,500	2,248,110	0.097%
JNL Multi-Manager Small Cap Growth Fund	Primerica, Inc.			Equity	39,706	10,528,046	0.452%
JNL Multi-Manager Small Cap Growth Fund	Acadia Healthcare Company, Inc.			Equity	35,990	2,282,126	0.098%
JNL Multi-Manager Small Cap Growth Fund	Acadia Healthcare Company, Inc.			Equity	17,303	1,097,183	0.047%
JNL Multi-Manager Small Cap Growth Fund	Booz Allen Hamilton Holding Corporation			Equity	39,740	6,468,082	0.278%
JNL Multi-Manager Small Cap Growth Fund	Brunello Cucinelli S.p.A.			Equity	57,950	6,258,996	0.269%
JNL Multi-Manager Small Cap Growth Fund	LPL Financial Holdings Inc.			Equity	18,145	4,221,071	0.181%
JNL Multi-Manager Small Cap Growth Fund	Bright Horizons Family Solutions, Inc.			Equity	23,236	3,256,061	0.140%
JNL Multi-Manager Small Cap Growth Fund	Bright Horizons Family Solutions, Inc.			Equity	11,802	3,353,814	0.071%
JNL Multi-Manager Small Cap Growth Fund	SPS Commerce, Inc.			Equity	53,392	10,367,125	0.445%
JNL Multi-Manager Small Cap Growth Fund	SPS Commerce, Inc.			Equity	21,036	4,084,560	0.175%
JNL Multi-Manager Small Cap Growth Fund	SPS Commerce, Inc.			Equity	31,119	6,042,376	0.259%
JNL Multi-Manager Small Cap Growth Fund	The Chef's Warehouse, Inc.			Equity	104,064	3,071,393	0.130%
JNL Multi-Manager Small Cap Growth Fund	The Chef's Warehouse, Inc.			Equity	77,444	3,253,422	0.140%
JNL Multi-Manager Small Cap Growth Fund	Verisk Analytics, Inc.			Equity	53,672	14,381,949	0.617%
JNL Multi-Manager Small Cap Growth Fund	Ameresco, Inc.			Equity	37,009	1,404,121	0.060%
JNL Multi-Manager Small Cap Growth Fund	MACOM Technology Solutions Holdings, Inc.			Equity	31,568	3,511,477	0.248%
JNL Multi-Manager Small Cap Growth Fund	MACOM Technology Solutions Holdings, Inc.			Equity	70,782	7,875,025	0.338%
JNL Multi-Manager Small Cap Growth Fund	MACOM Technology Solutions Holdings, Inc.			Equity	30,350	3,376,741	0.145%
JNL Multi-Manager Small Cap Growth Fund	Alkermes Public Limited Company			Equity	116,324	3,255,909	0.140%
JNL Multi-Manager Small Cap Growth Fund	Gilead Sciences, Inc.			Equity	32,772	2,344,509	0.101%
JNL Multi-Manager Small Cap Growth Fund	Kinsale Capital Group, Inc.			Equity	19,939	7,420,720	0.319%
JNL Multi-Manager Small Cap Growth Fund	Kinsale Capital Group, Inc.			Equity	7,244	3,372,589	0.145%
JNL Multi-Manager Small Cap Growth Fund	Fox Factory Holding Corp.			Equity	37,164	1,542,306	0.066%
JNL Multi-Manager Small Cap Growth Fund	Fox Factory Holding Corp.			Equity	135,275	5,613,913	0.241%
JNL Multi-Manager Small Cap Growth Fund	Cytokinetics, Incorporated			Equity	22,012	1,162,244	0.050%
JNL Multi-Manager Small Cap Growth Fund	Cytokinetics, Incorporated			Equity	45,753	2,415,758	0.104%
JNL Multi-Manager Small Cap Growth Fund	Cytokinetics, Incorporated			Equity	13,363	705,566	0.030%
JNL Multi-Manager Small Cap Growth Fund	Rocket Pharmaceuticals, Inc.			Equity	171,312	3,164,133	0.136%
JNL Multi-Manager Small Cap Growth Fund	Inta Cellular Therapies, Inc.			Equity	10,290	1,752,910	0.075%
JNL Multi-Manager Small Cap Growth Fund	National Research Corporation			Equity	94,527	2,172,230	0.093%
JNL Multi-Manager Small Cap Growth Fund	Novartis Inc.			Equity	21,914	3,920,853	0.168%
JNL Multi-Manager Small Cap Growth Fund	Novartis Inc.			Equity	29,226	5,229,116	0.224%
JNL Multi-Manager Small Cap Growth Fund	Novartis Inc.			Equity	21,872	3,913,338	0.168%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Small Cap Growth Fund	Under Armour, Inc.			Equity	286,840	2,397,982	0.103%
JNL Multi-Manager Small Cap Growth Fund	Genentech Incorporated			Equity	27,163	1,710,868	0.074%
JNL Multi-Manager Small Cap Growth Fund	Sprouts Farmers Market, Inc.			Equity	25,947	2,564,808	0.123%
JNL Multi-Manager Small Cap Growth Fund	Medpace Holdings, Inc.			Equity	3,410	1,138,258	0.049%
JNL Multi-Manager Small Cap Growth Fund	Gates Industrial Corporation PLC			Equity	138,327	2,427,639	0.104%
JNL Multi-Manager Small Cap Growth Fund	Tidewater Inc.			Equity	13,088	939,013	0.040%
JNL Multi-Manager Small Cap Growth Fund	AnaplysBio, Inc.			Equity	14,170	4,744,695	0.202%
JNL Multi-Manager Small Cap Growth Fund	Sarepta Therapeutics, Inc.			Equity	12,730	1,589,850	0.068%
JNL Multi-Manager Small Cap Growth Fund	Wex, Inc.			Equity	58,822	12,336,738	0.530%
JNL Multi-Manager Small Cap Growth Fund	TechniMC PLC			Equity	176,479	4,629,044	0.199%
JNL Multi-Manager Small Cap Growth Fund	Rhee & Decor Holdings, Inc.			Equity	41,902	5,202,971	0.223%
JNL Multi-Manager Small Cap Growth Fund	Cactus, Inc.			Equity	56,329	3,361,151	0.144%
JNL Multi-Manager Small Cap Growth Fund	Science Applications International Corporation			Equity	60,325	8,401,463	0.361%
JNL Multi-Manager Small Cap Growth Fund	Five9, Inc.			Equity	190,058	5,460,366	0.234%
JNL Multi-Manager Small Cap Growth Fund	O2 Holdings, Inc.			Equity	36,500	2,911,625	0.125%
JNL Multi-Manager Small Cap Growth Fund	Axon Enterprise, Inc.			Equity	30,860	12,331,656	0.529%
JNL Multi-Manager Small Cap Growth Fund	Axon Enterprise, Inc.			Equity	3,190	1,274,724	0.055%
JNL Multi-Manager Small Cap Growth Fund	Axon Enterprise, Inc.			Equity	16,993	6,790,403	0.291%
JNL Multi-Manager Small Cap Growth Fund	Syndax Pharmaceuticals, Inc.			Equity	57,517	1,107,202	0.048%
JNL Multi-Manager Small Cap Growth Fund	Varonis Systems, Inc.			Equity	126,021	7,120,187	0.306%
JNL Multi-Manager Small Cap Growth Fund	Varonis Systems, Inc.			Equity	164,856	9,314,364	0.400%
JNL Multi-Manager Small Cap Growth Fund	Varonis Systems, Inc.			Equity	37,600	2,124,400	0.091%
JNL Multi-Manager Small Cap Growth Fund	Globant S.A.			Equity	7,726	1,530,330	0.066%
JNL Multi-Manager Small Cap Growth Fund	Globant S.A.			Equity	13,320	2,639,225	0.113%
JNL Multi-Manager Small Cap Growth Fund	Globant S.A.			Equity	14,808	2,934,057	0.126%
JNL Multi-Manager Small Cap Growth Fund	HealthEquity, Inc.			Equity	20,544	1,681,526	0.072%
JNL Multi-Manager Small Cap Growth Fund	HealthEquity, Inc.			Equity	33,130	7,711,691	0.169%
JNL Multi-Manager Small Cap Growth Fund	HealthEquity, Inc.			Equity	185,138	15,153,545	0.650%
JNL Multi-Manager Small Cap Growth Fund	Paylocity Holding Corporation			Equity	6,690	1,103,649	0.047%
JNL Multi-Manager Small Cap Growth Fund	Paylocity Holding Corporation			Equity	11,552	1,905,733	0.082%
JNL Multi-Manager Small Cap Growth Fund	Hamilton Lane Incorporated			Equity	33,565	5,688,718	0.243%
JNL Multi-Manager Small Cap Growth Fund	ServiceFirst Bancshares, Inc.			Equity	115,747	9,312,007	0.400%
JNL Multi-Manager Small Cap Growth Fund	Moeleis & Company			Equity	211,905	14,517,612	0.623%
JNL Multi-Manager Small Cap Growth Fund	Mine Safety Appliances Company, LLC			Equity	5,860	1,039,212	0.045%
JNL Multi-Manager Small Cap Growth Fund	ASGN Incorporated			Equity	59,963	5,590,550	0.240%
JNL Multi-Manager Small Cap Growth Fund	Installed Building Products, Inc.			Equity	17,433	2,418,121	0.104%
JNL Multi-Manager Small Cap Growth Fund	Installed Building Products, Inc.			Equity	30,913	7,612,945	0.327%
JNL Multi-Manager Small Cap Growth Fund	Victory Capital Holdings, Inc.			Equity	97,386	5,395,184	0.232%
JNL Multi-Manager Small Cap Growth Fund	Ultragenyx Pharmaceutical Inc.			Equity	71,343	3,863,104	0.170%
JNL Multi-Manager Small Cap Growth Fund	Wheatford International Public Limited Company			Equity	28,480	2,418,620	0.104%
JNL Multi-Manager Small Cap Growth Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	41,190	4,003,668	0.172%
JNL Multi-Manager Small Cap Growth Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	206,864	20,107,181	0.863%
JNL Multi-Manager Small Cap Growth Fund	AppFolio, Inc.			Equity	35,235	8,294,319	0.356%
JNL Multi-Manager Small Cap Growth Fund	AppFolio, Inc.			Equity	12,150	2,860,110	0.123%
JNL Multi-Manager Small Cap Growth Fund	EastGroup Properties, Inc.			Equity	46,190	8,693,882	0.373%
JNL Multi-Manager Small Cap Growth Fund	Arrowhead Pharmaceuticals Inc			Equity	122,841	2,379,430	0.102%
JNL Multi-Manager Small Cap Growth Fund	Apellis Pharmaceuticals, Inc.			Equity	59,320	1,710,789	0.073%
JNL Multi-Manager Small Cap Growth Fund	Lantheus Holdings, Inc.			Equity	63,037	7,137,811	0.306%
JNL Multi-Manager Small Cap Growth Fund	Lantheus Holdings, Inc.			Equity	3,360	368,760	0.016%
JNL Multi-Manager Small Cap Growth Fund	Pure Storage, Inc.			Equity	36,745	1,846,069	0.079%
JNL Multi-Manager Small Cap Growth Fund	TransUnion			Equity	117,015	12,251,471	0.526%
JNL Multi-Manager Small Cap Growth Fund	Freshpet, Inc.			Equity	19,895	2,721,039	0.117%
JNL Multi-Manager Small Cap Growth Fund	Freshpet, Inc.			Equity	70,936	9,701,917	0.416%
JNL Multi-Manager Small Cap Growth Fund	Freshpet, Inc.			Equity	13,290	1,817,673	0.078%
JNL Multi-Manager Small Cap Growth Fund	Performance Food Group Company			Equity	132,212	10,361,454	0.445%
JNL Multi-Manager Small Cap Growth Fund	Evolent Health, Inc.			Equity	578,735	16,366,626	0.693%
JNL Multi-Manager Small Cap Growth Fund	SiteOne Landscape Supply, Inc.			Equity	51,787	7,615,176	0.325%
JNL Multi-Manager Small Cap Growth Fund	SiteOne Landscape Supply, Inc.			Equity	26,300	3,968,933	0.170%
JNL Multi-Manager Small Cap Growth Fund	Stry, LLC			Equity	92,526	2,983,038	0.128%
JNL Multi-Manager Small Cap Growth Fund	Stry, LLC			Equity	274,035	8,834,888	0.379%
JNL Multi-Manager Small Cap Growth Fund	Stry, LLC			Equity	36,170	1,166,121	0.050%
JNL Multi-Manager Small Cap Growth Fund	Wayfair Inc.			Equity	13,970	784,835	0.034%
JNL Multi-Manager Small Cap Growth Fund	HubSpot, Inc.			Equity	3,530	1,876,548	0.081%
JNL Multi-Manager Small Cap Growth Fund	Auto Trader Group PLC			Equity	1,107,562	12,885,165	0.553%
JNL Multi-Manager Small Cap Growth Fund	Rhythm Technologies, Inc.			Equity	21,339	2,596,207	0.112%
JNL Multi-Manager Small Cap Growth Fund	Rhythm Technologies, Inc.			Equity	25,400	1,585,696	0.068%
JNL Multi-Manager Small Cap Growth Fund	Advanced Drainage Systems, Inc.			Equity	11,620	1,826,199	0.078%
JNL Multi-Manager Small Cap Growth Fund	Advanced Drainage Systems, Inc.			Equity	45,913	7,215,687	0.310%
JNL Multi-Manager Small Cap Growth Fund	Nutrisys, Inc.			Equity	48,059	2,847,496	0.123%
JNL Multi-Manager Small Cap Growth Fund	Box, Inc.			Equity	117,444	3,843,942	0.165%
JNL Multi-Manager Small Cap Growth Fund	Box, Inc.			Equity	33,390	1,092,855	0.047%
JNL Multi-Manager Small Cap Growth Fund	Workiva Inc.			Equity	10,260	811,771	0.035%
JNL Multi-Manager Small Cap Growth Fund	Winzipco Inc.			Equity	2,580	3,073,486	0.131%
JNL Multi-Manager Small Cap Growth Fund	Houlihan Lokey, Inc.			Equity	28,210	4,457,744	0.191%
JNL Multi-Manager Small Cap Growth Fund	Glaukos Corporation			Equity	32,306	4,208,828	0.181%
JNL Multi-Manager Small Cap Growth Fund	Glaukos Corporation			Equity	51,814	6,750,328	0.290%
JNL Multi-Manager Small Cap Growth Fund	Glaukos Corporation			Equity	4,790	434,041	0.019%
JNL Multi-Manager Small Cap Growth Fund	Natera, Inc.			Equity	29,573	3,754,292	0.161%
JNL Multi-Manager Small Cap Growth Fund	Natera, Inc.			Equity	28,080	3,564,756	0.153%
JNL Multi-Manager Small Cap Growth Fund	Natera, Inc.			Equity	8,900	1,129,855	0.048%
JNL Multi-Manager Small Cap Growth Fund	RH			Equity	5,750	1,922,973	0.083%
JNL Multi-Manager Small Cap Growth Fund	CSW Industrials, Inc.			Equity	6,560	2,399,855	0.103%
JNL Multi-Manager Small Cap Growth Fund	Summit Materials, Inc.			Equity	42,260	1,649,408	0.071%
JNL Multi-Manager Small Cap Growth Fund	Boat Barn Holdings, Inc.			Equity	24,742	4,138,842	0.178%
JNL Multi-Manager Small Cap Growth Fund	Boat Barn Holdings, Inc.			Equity	70,450	11,784,876	0.506%
JNL Multi-Manager Small Cap Growth Fund	Boat Barn Holdings, Inc.			Equity	3,798	635,130	0.027%
JNL Multi-Manager Small Cap Growth Fund	Blueprint Medicines Corporation			Equity	42,911	3,969,268	0.170%
JNL Multi-Manager Small Cap Growth Fund	Blueprint Medicines Corporation			Equity	24,870	2,300,475	0.099%
JNL Multi-Manager Small Cap Growth Fund	Blueprint Medicines Corporation			Equity	15,224	1,685,720	0.072%
JNL Multi-Manager Small Cap Growth Fund	Krom Digital Ltd			Equity	192,553	4,974,507	0.214%
JNL Multi-Manager Small Cap Growth Fund	BWXT Government Group, Inc.			Equity	19,550	2,125,085	0.091%
JNL Multi-Manager Small Cap Growth Fund	Triumph Financial, Inc.			Equity	88,386	7,030,222	0.302%
JNL Multi-Manager Small Cap Growth Fund	Blue Bird Global Corporation			Equity	46,843	2,246,590	0.096%
JNL Multi-Manager Small Cap Growth Fund	Reford Industrial Realty, Inc.			Equity	137,783	6,889,387	0.300%
JNL Multi-Manager Small Cap Growth Fund	HA Sustainable Infrastructure Capital, Inc.			Equity	24,900	868,303	0.037%
JNL Multi-Manager Small Cap Growth Fund	Terreno Realty Corporation			Equity	57,249	3,854,003	0.165%
JNL Multi-Manager Small Cap Growth Fund	National Storage Affiliates Trust			Equity	16,790	809,278	0.035%
JNL Multi-Manager Small Cap Growth Fund	Altair Engineering Inc.			Equity	51,700	4,937,867	0.212%
JNL Multi-Manager Small Cap Growth Fund	CyberArk Software Ltd.			Equity	35,121	10,241,635	0.440%
JNL Multi-Manager Small Cap Growth Fund	CyberArk Software Ltd.			Equity	8,950	2,609,910	0.112%
JNL Multi-Manager Small Cap Growth Fund	Protagonist Therapeutics, Inc.			Equity	7,750	348,750	0.015%
JNL Multi-Manager Small Cap Growth Fund	Construction Partners, Inc.			Equity	44,943	3,137,943	0.135%
JNL Multi-Manager Small Cap Growth Fund	Transact, Inc.			Equity	6,244	754,088	0.032%
JNL Multi-Manager Small Cap Growth Fund	Goosehead Insurance, Inc.			Equity	24,961	2,229,017	0.096%
JNL Multi-Manager Small Cap Growth Fund	Goosehead Insurance, Inc.			Equity	87,500	7,813,750	0.335%
JNL Multi-Manager Small Cap Growth Fund	Technoglass Inc.			Equity	36,650	2,657,961	0.114%
JNL Multi-Manager Small Cap Growth Fund	Veracyte, Inc.			Equity	175,473	5,973,101	0.256%
JNL Multi-Manager Small Cap Growth Fund	Veracyte, Inc.			Equity	110,041	3,745,796	0.161%
JNL Multi-Manager Small Cap Growth Fund	Krystal Biotech, Inc.			Equity	11,942	2,173,802	0.093%
JNL Multi-Manager Small Cap Growth Fund	Krystal Biotech, Inc.			Equity	11,980	2,180,719	0.094%
JNL Multi-Manager Small Cap Growth Fund	Orthopediatrics Corp.			Equity	991,845	7,611,918	0.340%
JNL Multi-Manager Small Cap Growth Fund	Quantix Corporation			Equity	273,521	3,544,832	0.152%
JNL Multi-Manager Small Cap Growth Fund	Crinetics Pharmaceuticals, Inc.			Equity	20,000	1,022,000	0.044%
JNL Multi-Manager Small Cap Growth Fund	Axsome Therapeutics, Inc.			Equity	62,796	5,643,477	0.242%
JNL Multi-Manager Small Cap Growth Fund	Telad Bioscience Corporation			Equity	21,260	960,527	0.041%
JNL Multi-Manager Small Cap Growth Fund	Smartsheet Inc.			Equity	141,126	7,612,735	0.335%
JNL Multi-Manager Small Cap Growth Fund	Smartsheet Inc.			Equity	14,030	776,701	0.033%
JNL Multi-Manager Small Cap Growth Fund	Smartsheet Inc.			Equity	29,151	1,613,799	0.069%
JNL Multi-Manager Small Cap Growth Fund	Cryoport, Inc.			Equity	252,282	2,046,007	0.088%
JNL Multi-Manager Small Cap Growth Fund	BridgeBio Pharma, Inc.			Equity	140,504	3,577,232	0.154%
JNL Multi-Manager Small Cap Growth Fund	BridgeBio Pharma, Inc.			Equity	21,720	552,991	0.024%
JNL Multi-Manager Small Cap Growth Fund	Phresia, Inc.			Equity	115,776	2,638,535	0.113%
JNL Multi-Manager Small Cap Growth Fund	Health Catalyst, Inc.			Equity	259,959	4,937,926	0.212%
JNL Multi-Manager Small Cap Growth Fund	bioLife Solutions, Inc.			Equity	127,755	3,198,985	0.137%
JNL Multi-Manager Small Cap Growth Fund	Onto Innovation Inc.			Equity	8,641	1,793,526	0.077%
JNL Multi-Manager Small Cap Growth Fund	Onto Innovation Inc.			Equity	13,580	2,818,665	0.121%
JNL Multi-Manager Small Cap Growth Fund	Wratches of Switzerland Group PLC			Equity	514,969	3,298,389	0.142%
JNL Multi-Manager Small Cap Growth Fund	EverQuote, Inc.			Equity	46,871	888,509	0.042%
JNL Multi-Manager Small Cap Growth Fund	Revolve Group Inc.			Equity	204,735	5,073,333	0.218%
JNL Multi-Manager Small Cap Growth Fund	Palomar Holdings, Inc.			Equity	11,820	1,118,999	0.048%
JNL Multi-Manager Small Cap Growth Fund	Stoke Therapeutics, Inc.			Equity	62,000	1,007,780	0.043%
JNL Multi-Manager Small Cap Growth Fund	Parsons Corporation			Equity	46,963	5,075,584	0.218%
JNL Multi-Manager Small Cap Growth Fund	Bill Holdings, Inc.			Equity	151,966	8,017,726	0.344%
JNL Multi-Manager Small Cap Growth Fund	Sprout Social, Inc.			Equity	62,652	1,821,294	0.078%
JNL Multi-Manager Small Cap Growth Fund	Sprout Social, Inc.			Equity	19,220	2,658,725	0.114%
JNL Multi-Manager Small Cap Growth Fund	Sprout Social, Inc.			Equity	92,101	2,617,376	0.115%
JNL Multi-Manager Small Cap Growth Fund	Loversac Company, The			Equity	40,947	1,173,132	0.050%
JNL Multi-Manager Small Cap Growth Fund	Enerpac Tool Group Corp.			Equity	207,405	8,688,195	0.373%
JNL Multi-Manager Small Cap Growth Fund	Option Care Health, Inc.			Equity	88,564	2,772,053	0.119%
JNL Multi-Manager Small Cap Growth Fund	Revolution Medicines, Inc.			Equity	25,750	1,167,763	0.050%
JNL Multi-Manager Small Cap Growth Fund	Castle Biosciences, Inc.			Equity	121,310	3,459,761	0.148%
JNL Multi-Manager Small Cap Growth Fund	Immunovant, Inc.			Equity	96,871	2,761,792	0.119%
JNL Multi-Manager Small Cap Growth Fund	Immunovant, Inc.			Equity	20,860	594,719	0.026%
JNL Multi-Manager Small Cap Growth Fund	Acarius Therapeutics Holdings Inc.			Equity	31,272	3,755,823	0.161%
JNL Multi-Manager Small Cap Growth Fund	Springworks Therapeutics, Inc.			Equity	41,030	1,314,601	0.056%
JNL Multi-Manager Small Cap Growth Fund	Springworks Therapeutics, Inc.			Equity	91,810	2,941,592	0.126%
JNL Multi-Manager Small Cap Growth Fund	Dynatrace, Inc.			Equity	89,975	4,810,963	0.206%
JNL Multi-Manager Small Cap Growth Fund	Dynatrace, Inc.			Equity	53,540	2,862,784	0.123%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Small Cap Growth Fund	Xenon Pharmaceuticals Inc.			Equity	40,840	1,607,871	0.069%
JNL Multi-Manager Small Cap Growth Fund	Si-BONE, Inc.			Equity	34,510	482,450	0.021%
JNL Multi-Manager Small Cap Growth Fund	Si-BONE, Inc.			Equity	547,197	7,649,814	0.328%
JNL Multi-Manager Small Cap Growth Fund	The AZEK Company Inc.			Equity	88,050	4,120,740	0.171%
JNL Multi-Manager Small Cap Growth Fund	The AZEK Company Inc.			Equity	73,120	3,422,018	0.147%
JNL Multi-Manager Small Cap Growth Fund	Magnite, Inc.			Equity	1,090,988	15,110,184	0.649%
JNL Multi-Manager Small Cap Growth Fund	Willcott Holdings Corporation			Equity	208,341	7,833,622	0.336%
JNL Multi-Manager Small Cap Growth Fund	Willcott Holdings Corporation			Equity	85,232	3,504,723	0.138%
JNL Multi-Manager Small Cap Growth Fund	Avient Corporation			Equity	230,892	11,678,816	0.501%
JNL Multi-Manager Small Cap Growth Fund	Caesars Entertainment, Inc.			Equity	240,129	10,022,984	0.430%
JNL Multi-Manager Small Cap Growth Fund	SHiFT Payments, LLC			Equity	131,758	11,673,759	0.501%
JNL Multi-Manager Small Cap Growth Fund	SHiFT Payments, LLC			Equity	25,230	2,235,378	0.096%
JNL Multi-Manager Small Cap Growth Fund	SHiFT Payments, LLC			Equity	153,207	13,574,140	0.583%
JNL Multi-Manager Small Cap Growth Fund	Descartes Systems Group Inc., The			Equity	39,699	4,087,409	0.175%
JNL Multi-Manager Small Cap Growth Fund	IDEAYA Biosciences, Inc.			Equity	19,440	615,859	0.026%
JNL Multi-Manager Small Cap Growth Fund	TransMedics Group, Inc.			Equity	34,235	5,380,556	0.231%
JNL Multi-Manager Small Cap Growth Fund	TransMedics Group, Inc.			Equity	28,786	4,519,402	0.194%
JNL Multi-Manager Small Cap Growth Fund	TransMedics Group, Inc.			Equity	5,500	863,500	0.037%
JNL Multi-Manager Small Cap Growth Fund	Bentley Systems, Incorporated			Equity	333,218	16,930,807	0.727%
JNL Multi-Manager Small Cap Growth Fund	FTAI Aviation Ltd.			Equity	29,784	3,656,294	0.170%
JNL Multi-Manager Small Cap Growth Fund	FTAI Aviation Ltd.			Equity	87,067	11,571,204	0.497%
JNL Multi-Manager Small Cap Growth Fund	FTAI Aviation Ltd.			Equity	40,270	5,351,883	0.230%
JNL Multi-Manager Small Cap Growth Fund	Arcelis Inc.			Equity	12,200	1,018,822	0.044%
JNL Multi-Manager Small Cap Growth Fund	Knife River Corporation			Equity	33,125	2,961,044	0.127%
JNL Multi-Manager Small Cap Growth Fund	Nuvalent, Inc.			Equity	9,320	953,436	0.041%
JNL Multi-Manager Small Cap Growth Fund	Vivid Seats Inc.			Equity	1,761,813	6,518,708	0.280%
JNL Multi-Manager Small Cap Growth Fund	Acogee Therapeutics, Inc.			Equity	22,040	1,254,630	0.056%
JNL Multi-Manager Small Cap Growth Fund	MoonLake Immunotherapeutics AG			Equity	13,610	686,216	0.029%
JNL Multi-Manager Small Cap Growth Fund	MoonLake Immunotherapeutics AG			Equity	22,136	1,116,097	0.048%
JNL Multi-Manager Small Cap Growth Fund	Oddity Tech Ltd.			Equity	99,607	4,022,131	0.173%
JNL Multi-Manager Small Cap Growth Fund	AvePoint, Inc.			Equity	64,973	764,732	0.033%
JNL Multi-Manager Small Cap Growth Fund	Liberty Media Corporation			Equity	189,137	9,708,402	0.417%
JNL Multi-Manager Small Cap Growth Fund	Liberty Media Corporation			Equity	61,960	4,331,999	0.190%
JNL Multi-Manager Small Cap Growth Fund	TKO Group Holdings Inc.			Equity	51,331	6,350,158	0.273%
JNL Multi-Manager Small Cap Growth Fund	Disc Medicine, Inc.			Equity	13,980	686,977	0.029%
JNL Multi-Manager Small Cap Growth Fund	Vests Corporation			Equity	85,411	1,275,961	0.055%
JNL Multi-Manager Small Cap Growth Fund	SharkNinja, Inc.			Equity	55,800	6,174,728	0.265%
JNL Multi-Manager Small Cap Growth Fund	Nextracker LLC			Equity	71,000	2,661,080	0.114%
JNL Multi-Manager Small Cap Growth Fund	Nextracker LLC			Equity	22,400	839,552	0.036%
JNL Multi-Manager Small Cap Growth Fund	Arcadium Lithium PLC			Equity	344,251	961,115	0.042%
JNL Multi-Manager Small Cap Growth Fund	Smith Douglas Homes Corp.			Equity	77,831	2,940,455	0.126%
JNL Multi-Manager Small Cap Growth Fund	Immune, Inc.			Equity	48,850	714,187	0.031%
JNL Multi-Manager Small Cap Growth Fund	Real Brokerage Inc., The			Equity	303,358	1,683,637	0.072%
JNL Multi-Manager Small Cap Growth Fund	Celebrite Di Ltd			Equity	39,130	642,109	0.028%
JNL Multi-Manager Small Cap Growth Fund	Reddit, Inc.			Equity	58,417	3,850,849	0.165%
JNL Multi-Manager Small Cap Growth Fund	Reddit, Inc.			Equity	58,750	3,872,800	0.166%
JNL Multi-Manager Small Cap Growth Fund	Reddit, Inc.			Equity	13,651	899,874	0.039%
JNL Multi-Manager Small Cap Growth Fund	WNS (Holdings) Limited			Equity	137,802	7,353,543	0.312%
JNL Multi-Manager Small Cap Growth Fund	Marx Group PLC			Equity	94,962	2,243,002	0.096%
JNL Multi-Manager Small Cap Growth Fund	ATMUS Filtration Technologies Inc.			Equity	25,520	957,766	0.041%
JNL Multi-Manager Small Cap Growth Fund	Kriska Pharmaceuticals International, PLC			Equity	110,838	2,769,842	0.119%
JNL Multi-Manager Small Cap Growth Fund	OneStream, Inc.			Equity	181,508	6,153,121	0.264%
JNL Multi-Manager Small Cap Growth Fund	SilverSun Technologies, Inc.			Equity	56,520	891,320	0.038%
Total Non Derivatives						2,329,831,096	
Derivatives							
Total Derivatives						0	
Total All Investments						2,329,831,096	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager Small Cap Value Fund	Cash			Cash Equivalent	83.155	83.155	0.004%
JNL Multi-Manager Small Cap Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	8,837.126	8,882.987	0.471%
JNL Multi-Manager Small Cap Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	18,567.998	18,615.534	0.968%
JNL Multi-Manager Small Cap Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,146.142	4,171.167	0.221%
JNL Multi-Manager Small Cap Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,654.378	1,660.149	0.084%
JNL Multi-Manager Small Cap Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	8,152.718	8,195.507	0.434%
JNL Multi-Manager Small Cap Value Fund	Alphatec Holdings, Inc.			Equity	103,056	572.991	0.030%
JNL Multi-Manager Small Cap Value Fund	Relay Therapeutics, Inc.			Equity	115,920	820.714	0.043%
JNL Multi-Manager Small Cap Value Fund	AdaptHealth LLC			Equity	1,192,000	13,386.160	0.709%
JNL Multi-Manager Small Cap Value Fund	Lumen Technologies Inc.			Equity	286,980	2,017.548	0.108%
JNL Multi-Manager Small Cap Value Fund	Silicon Motion, Inc.			Equity	199,000	12,087.260	0.640%
JNL Multi-Manager Small Cap Value Fund	ACV Auctions Inc.			Equity	375,676	7,637.493	0.405%
JNL Multi-Manager Small Cap Value Fund	Margeta, Inc.			Equity	832,972	4,098.222	0.217%
JNL Multi-Manager Small Cap Value Fund	Hayward Holdings, Inc.			Equity	821,503	12,601.868	0.668%
JNL Multi-Manager Small Cap Value Fund	Aight, Inc.			Equity	705,294	5,219.176	0.277%
JNL Multi-Manager Small Cap Value Fund	Hillman Solutions Corp.			Equity	1,425,000	15,048.000	0.787%
JNL Multi-Manager Small Cap Value Fund	Hillman Solutions Corp.			Equity	1,484,653	15,677.936	0.831%
JNL Multi-Manager Small Cap Value Fund	GXO Logistics Inc.			Equity	129,346	6,682.976	0.354%
JNL Multi-Manager Small Cap Value Fund	GXO Logistics Inc.			Equity	113,000	5,883.910	0.312%
JNL Multi-Manager Small Cap Value Fund	Dream Finders Homes, Inc.			Equity	299,407	10,841.527	0.574%
JNL Multi-Manager Small Cap Value Fund	Cleary Energy, Inc.			Equity	37,596	4,221.445	0.224%
JNL Multi-Manager Small Cap Value Fund	HF Sinclair Corporation			Equity	82,704	3,686.117	0.195%
JNL Multi-Manager Small Cap Value Fund	MeridianLink, Inc.			Equity	528,459	10,870.402	0.576%
JNL Multi-Manager Small Cap Value Fund	Embrex Corp.			Equity	198,988	2,805.731	0.149%
JNL Multi-Manager Small Cap Value Fund	Enovis Corporation			Equity	61,017	2,626.782	0.139%
JNL Multi-Manager Small Cap Value Fund	ESAB Corporation			Equity	77,880	8,295.653	0.438%
JNL Multi-Manager Small Cap Value Fund	Bausch + Lomb Corporation			Equity	175,765	3,390.507	0.180%
JNL Multi-Manager Small Cap Value Fund	DocGo Inc.			Equity	1,180,174	3,918.178	0.208%
JNL Multi-Manager Small Cap Value Fund	Frontdoor, Inc.			Equity	416,639	19,994.506	1.059%
JNL Multi-Manager Small Cap Value Fund	Pemian Resources Corporation			Equity	488,335	6,537.359	0.346%
JNL Multi-Manager Small Cap Value Fund	Rentell Initial PLC			Equity	89,566	2,907.860	0.177%
JNL Multi-Manager Small Cap Value Fund	U-Haul Holding Company			Equity	238,115	17,144.280	0.908%
JNL Multi-Manager Small Cap Value Fund	Napco Security Technologies, Inc.			Equity	113,500	4,606.398	0.244%
JNL Multi-Manager Small Cap Value Fund	YETI Holdings, Inc.			Equity	191,200	7,844.936	0.416%
JNL Multi-Manager Small Cap Value Fund	Venecor Corporation			Equity	148,036	4,995.120	0.263%
JNL Multi-Manager Small Cap Value Fund	F.N.B. Corporation			Equity	128,425	1,812.077	0.096%
JNL Multi-Manager Small Cap Value Fund	Steelcase Inc.			Equity	649,555	8,827.452	0.468%
JNL Multi-Manager Small Cap Value Fund	Insiperty, Inc.			Equity	171,113	15,057.944	0.789%
JNL Multi-Manager Small Cap Value Fund	Group 1 Automotive, Inc.			Equity	20,954	8,028.940	0.425%
JNL Multi-Manager Small Cap Value Fund	Stoneridge, Inc.			Equity	327,187	3,661.223	0.194%
JNL Multi-Manager Small Cap Value Fund	Black Hills Corporation			Equity	70,792	4,326.807	0.229%
JNL Multi-Manager Small Cap Value Fund	Arrow Electronics, Inc.			Equity	69,330	9,209.104	0.488%
JNL Multi-Manager Small Cap Value Fund	American Eagle Outfitters, Inc.			Equity	424,218	9,098.241	0.502%
JNL Multi-Manager Small Cap Value Fund	American Woodmark Corporation			Equity	80,800	7,560.760	0.400%
JNL Multi-Manager Small Cap Value Fund	American Woodmark Corporation			Equity	134,063	12,528.187	0.664%
JNL Multi-Manager Small Cap Value Fund	TD SYNNEX Corporation			Equity	87,796	10,542.544	0.559%
JNL Multi-Manager Small Cap Value Fund	Maximus, Inc.			Equity	71,046	6,818.645	0.361%
JNL Multi-Manager Small Cap Value Fund	Sandy Spring Bancorp. Inc.			Equity	141,632	4,442.996	0.235%
JNL Multi-Manager Small Cap Value Fund	Bank of Hawaii Corporation			Equity	51,478	3,231.274	0.171%
JNL Multi-Manager Small Cap Value Fund	Hanover Insurance Group Inc. The			Equity	26,409	3,911.437	0.207%
JNL Multi-Manager Small Cap Value Fund	International Bancshares Corporation			Equity	117,206	7,007.147	0.371%
JNL Multi-Manager Small Cap Value Fund	Columbia Banking System, Inc.			Equity	384,814	10,047.494	0.532%
JNL Multi-Manager Small Cap Value Fund	Commercial Metals Company			Equity	48,606	2,671.386	0.142%
JNL Multi-Manager Small Cap Value Fund	Winnmark Corporation			Equity	7,230	2,768.584	0.147%
JNL Multi-Manager Small Cap Value Fund	Unifirst Corporation			Equity	98,083	11,538.166	0.611%
JNL Multi-Manager Small Cap Value Fund	Unifirst Corporation			Equity	50,316	9,995.273	0.530%
JNL Multi-Manager Small Cap Value Fund	Ingles Markets, Incorporated			Equity	48,723	3,634.736	0.193%
JNL Multi-Manager Small Cap Value Fund	CONMED Corporation			Equity	136,950	9,876.834	0.523%
JNL Multi-Manager Small Cap Value Fund	Hastro, Inc.			Equity	95,950	6,839.104	0.368%
JNL Multi-Manager Small Cap Value Fund	InterDigital, Inc.			Equity	39,000	4,973.780	0.263%
JNL Multi-Manager Small Cap Value Fund	Gorman-Rupp Company, The			Equity	96,361	3,753.261	0.199%
JNL Multi-Manager Small Cap Value Fund	White Mountains Insurance Group Ltd			Equity	7,831	13,282.942	0.704%
JNL Multi-Manager Small Cap Value Fund	White Mountains Insurance Group Ltd			Equity	5,254	9,811.835	0.472%
JNL Multi-Manager Small Cap Value Fund	White Mountains Insurance Group Ltd			Equity	3,200	5,298.241	0.281%
JNL Multi-Manager Small Cap Value Fund	KCU Medical, Inc.			Equity	103,100	18,786.882	0.995%
JNL Multi-Manager Small Cap Value Fund	Les Vetements de Sport Gildan Inc.			Equity	383,000	18,043.130	0.956%
JNL Multi-Manager Small Cap Value Fund	Federated Hermes, Inc.			Equity	39,467	1,451.202	0.077%
JNL Multi-Manager Small Cap Value Fund	Century Aluminum Company			Equity	161,724	7,524.781	0.399%
JNL Multi-Manager Small Cap Value Fund	CNA Financial Corporation			Equity	87,596	4,286.948	0.227%
JNL Multi-Manager Small Cap Value Fund	1st Source Corporation			Equity	24,048	1,439.994	0.076%
JNL Multi-Manager Small Cap Value Fund	Commerce Bancshares, Inc.			Equity	189,714	11,269.021	0.597%
JNL Multi-Manager Small Cap Value Fund	Hoch Minerals Company			Equity	598,212	9,881.784	0.518%
JNL Multi-Manager Small Cap Value Fund	Genetec Corporation			Equity	214,887	6,374.057	0.338%
JNL Multi-Manager Small Cap Value Fund	Genetec Corporation			Equity	247,532	7,349.225	0.389%
JNL Multi-Manager Small Cap Value Fund	WESCO International, Inc.			Equity	29,133	4,893.761	0.259%
JNL Multi-Manager Small Cap Value Fund	Cal-Maine Foods, Inc.			Equity	66,742	4,984.971	0.265%
JNL Multi-Manager Small Cap Value Fund	IDCORP, Inc.			Equity	15,215	1,568.514	0.083%
JNL Multi-Manager Small Cap Value Fund	First Citizens BancShares, Inc.			Equity	10,348	19,050.151	1.009%
JNL Multi-Manager Small Cap Value Fund	Winntrust Financial Corporation			Equity	145,423	15,782.758	0.836%
JNL Multi-Manager Small Cap Value Fund	Winntrust Financial Corporation			Equity	70,945	7,699.661	0.408%
JNL Multi-Manager Small Cap Value Fund	Radcan Group Inc.			Equity	112,273	3,984.750	0.206%
JNL Multi-Manager Small Cap Value Fund	Euronet Worldwide, Inc.			Equity	112,000	11,113.760	0.589%
JNL Multi-Manager Small Cap Value Fund	MKS Instruments, Inc.			Equity	43,317	4,708.991	0.250%
JNL Multi-Manager Small Cap Value Fund	Cathay General Bancorp			Equity	119,313	5,124.493	0.272%
JNL Multi-Manager Small Cap Value Fund	Glacier Bancorp. Inc.			Equity	325,416	14,871.511	0.788%
JNL Multi-Manager Small Cap Value Fund	Range Resources Corporation			Equity	192,944	5,934.957	0.314%
JNL Multi-Manager Small Cap Value Fund	Patrick Industries, Inc.			Equity	70,794	10,078.942	0.534%
JNL Multi-Manager Small Cap Value Fund	Kulicke and Soffa Industries, Inc.			Equity	106,883	4,845.006	0.257%
JNL Multi-Manager Small Cap Value Fund	Dorman Products, Inc.			Equity	125,431	14,889.084	0.785%
JNL Multi-Manager Small Cap Value Fund	Lithia Motors, Inc.			Equity	32,456	10,309.324	0.546%
JNL Multi-Manager Small Cap Value Fund	TXNM Energy, Inc.			Equity	143,131	6,264.844	0.332%
JNL Multi-Manager Small Cap Value Fund	Landstar System, Inc.			Equity	62,245	11,756.213	0.623%
JNL Multi-Manager Small Cap Value Fund	Lancaster Colony Corporation			Equity	43,908	7,752.837	0.411%
JNL Multi-Manager Small Cap Value Fund	Plexus Corp.			Equity	12,765	1,745.103	0.092%
JNL Multi-Manager Small Cap Value Fund	Modine Manufacturing Company			Equity	56,000	7,436.240	0.394%
JNL Multi-Manager Small Cap Value Fund	Modine Manufacturing Company			Equity	81,154	10,776.440	0.571%
JNL Multi-Manager Small Cap Value Fund	SM Energy Company			Equity	103,777	9,147.967	0.270%
JNL Multi-Manager Small Cap Value Fund	SM Energy Company			Equity	67,442	2,695.657	0.143%
JNL Multi-Manager Small Cap Value Fund	Flowers Foods, Inc.			Equity	409,561	9,448.572	0.501%
JNL Multi-Manager Small Cap Value Fund	Quaker Chemical Corporation			Equity	23,600	3,976.364	0.211%
JNL Multi-Manager Small Cap Value Fund	CNO Financial Group, Inc.			Equity	116,758	4,098.206	0.217%
JNL Multi-Manager Small Cap Value Fund	McGrath RentCorp			Equity	63,425	6,677.384	0.354%
JNL Multi-Manager Small Cap Value Fund	B3's Wholesale Club Holdings, Inc.			Equity	165,463	13,647.388	0.723%
JNL Multi-Manager Small Cap Value Fund	Inter Parfums, Inc.			Equity	77,301	10,008.933	0.530%
JNL Multi-Manager Small Cap Value Fund	MOOG Inc.			Equity	25,086	5,067.874	0.268%
JNL Multi-Manager Small Cap Value Fund	Patterson Companies, Inc.			Equity	135,351	2,566.066	0.137%
JNL Multi-Manager Small Cap Value Fund	Polaris Inc.			Equity	34,344	2,866.286	0.152%
JNL Multi-Manager Small Cap Value Fund	RenaissanceRe Holdings Ltd			Equity	43,025	11,720.010	0.621%
JNL Multi-Manager Small Cap Value Fund	NCR Voyix Corporation			Equity	176,761	2,388.647	0.127%
JNL Multi-Manager Small Cap Value Fund	ePlus inc.			Equity	30,573	3,006.499	0.159%
JNL Multi-Manager Small Cap Value Fund	ePlus inc.			Equity	209,700	20,621.898	1.093%
JNL Multi-Manager Small Cap Value Fund	Papa John's International, Inc.			Equity	116,455	6,273.431	0.332%
JNL Multi-Manager Small Cap Value Fund	Merritage Homes Corporation			Equity	9,478	1,943.653	0.103%
JNL Multi-Manager Small Cap Value Fund	AXIS Capital Holdings Limited			Equity	106,071	8,651.084	0.458%
JNL Multi-Manager Small Cap Value Fund	Trinet Group, Inc.			Equity	38,892	3,771.357	0.200%
JNL Multi-Manager Small Cap Value Fund	Inspire Medical Systems, Inc.			Equity	4,632	977.584	0.052%
JNL Multi-Manager Small Cap Value Fund	BrightView Holdings, Inc.			Equity	292,722	4,607.444	0.244%
JNL Multi-Manager Small Cap Value Fund	Cushman & Wakefield PLC			Equity	1,106,100	15,076.143	0.789%
JNL Multi-Manager Small Cap Value Fund	PAR Technology Corporation			Equity	173,784	9,050.671	0.480%
JNL Multi-Manager Small Cap Value Fund	Mueller Industries, Inc.			Equity	150,174	11,127.893	0.590%
JNL Multi-Manager Small Cap Value Fund	MHI Homes, Inc.			Equity	36,029	6,173.929	0.327%
JNL Multi-Manager Small Cap Value Fund	Winnebago Industries, Inc.			Equity	227,590	13,425.255	0.701%
JNL Multi-Manager Small Cap Value Fund	Advance Auto Parts, Inc.			Equity	37,923	1,478.618	0.078%
JNL Multi-Manager Small Cap Value Fund	ACI Worldwide, Inc.			Equity	36,247	1,844.927	0.098%
JNL Multi-Manager Small Cap Value Fund	ACI Worldwide, Inc.			Equity	250,866	12,769.079	0.677%
JNL Multi-Manager Small Cap Value Fund	Cross Country Healthcare, Inc.			Equity	288,521	9,917.748	0.520%
JNL Multi-Manager Small Cap Value Fund	LKO Corporation			Equity	282,329	11,270.574	0.597%
JNL Multi-Manager Small Cap Value Fund	Vail Resorts, Inc.			Equity	19,910	3,470.114	0.184%
JNL Multi-Manager Small Cap Value Fund	UPF Technologies, Inc.			Equity	13,062	4,136.735	0.219%
JNL Multi-Manager Small Cap Value Fund	America's Car Mart, Inc.			Equity	101,363	4,249.137	0.225%
JNL Multi-Manager Small Cap Value Fund	Avista Corporation			Equity	65,744	2,431.330	0.128%
JNL Multi-Manager Small Cap Value Fund	Brookline Bancorp. Inc.			Equity	194,751	1,965.038	0.104%
JNL Multi-Manager Small Cap Value Fund	Southwest Gas Holdings, Inc.			Equity	78,607	5,798.052	0.307%
JNL Multi-Manager Small Cap Value Fund	UMB Financial Corporation			Equity	91,791	9,863.951	0.513%
JNL Multi-Manager Small Cap Value Fund	AMN Healthcare Services, Inc.			Equity	221,800	9,402.100	0.498%
JNL Multi-Manager Small Cap Value Fund	WSPF Financial Corporation			Equity	158,117	8,062.386	0.427%
JNL Multi-Manager Small Cap Value Fund	WAFL, Inc.			Equity	165,892	5,781.336	0.306%
JNL Multi-Manager Small Cap Value Fund	Stewart Information Services Corporation			Equity	87,960	6,574.130	0.348%
JNL Multi-Manager Small Cap Value Fund	Woodward, Inc.			Equity	85,109	14,597.045	0.773%
JNL Multi-Manager Small Cap Value Fund	Argan, Inc.			Equity	37,327	3,786.078	0.201%
JNL Multi-Manager Small Cap Value Fund	Thor Industries, Inc.			Equity	50,538	5,553.621	0.294%
JNL Multi-Manager Small Cap Value Fund	Formfactor, Inc.			Equity	76,000	3,496.000	0.185%
JNL Multi-Manager Small Cap Value Fund	Rush Enterprises, Inc.			Equity	176,435	8,126.721	0.429%
JNL Multi-Manager Small Cap Value Fund	Air Transport Services Group, Inc.			Equity	502,741	8,139.377	0.431%
JNL Multi-Manager Small Cap Value Fund	Carter's, Inc.			Equity	94,427	6,135.866	0.325%
JNL Multi-Manager Small Cap Value Fund	Werner Enterprises, Inc.			Equity	109,588	4,229.001	0.224%
JNL Multi-Manager Small Cap Value Fund	Beacon Roofing Supply, Inc.			Equity	123,839	10,703.465	0.567%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Multi-Manager Small Cap Value Fund	Assured Guaranty Ltd.		34.47%	Equity	34,479	2,741,770	0.145%
JNL Multi-Manager Small Cap Value Fund	Assured Guaranty Ltd.			Equity	177,000	14,075,040	0.746%
JNL Multi-Manager Small Cap Value Fund	Huron Consulting Group Inc.			Equity	57,284	6,226,771	0.330%
JNL Multi-Manager Small Cap Value Fund	Viad Corp			Equity	80,446	2,882,380	0.153%
JNL Multi-Manager Small Cap Value Fund	Genworth Financial, Inc.		215.85%	Equity	1,215,856	8,325,614	0.441%
JNL Multi-Manager Small Cap Value Fund	The Bancorp. Inc.			Equity	168,430	9,011,005	0.477%
JNL Multi-Manager Small Cap Value Fund	ALLETE, Inc.			Equity	38,749	2,487,298	0.132%
JNL Multi-Manager Small Cap Value Fund	NorthWestern Corporation			Equity	122,408	7,004,186	0.371%
JNL Multi-Manager Small Cap Value Fund	TriMax Corporation			Equity	74,810	1,909,899	0.101%
JNL Multi-Manager Small Cap Value Fund	Western Alliance Bancorporation			Equity	156,326	13,520,636	0.716%
JNL Multi-Manager Small Cap Value Fund	Central Garden & Pet Company			Equity	140,710	4,418,294	0.234%
JNL Multi-Manager Small Cap Value Fund	Enstar Group Limited			Equity	40,300	12,960,077	0.687%
JNL Multi-Manager Small Cap Value Fund	CVR Energy, Inc.			Equity	62,183	1,404,074	0.076%
JNL Multi-Manager Small Cap Value Fund	Armstrong World Industries, Inc.			Equity	28,524	3,748,809	0.199%
JNL Multi-Manager Small Cap Value Fund	Armstrong World Industries, Inc.			Equity	28,975	3,808,184	0.202%
JNL Multi-Manager Small Cap Value Fund	H&E Equipment Services, Inc.			Equity	99,660	4,902,769	0.254%
JNL Multi-Manager Small Cap Value Fund	Molten Coors Beverage Company			Equity	142,158	8,176,928	0.433%
JNL Multi-Manager Small Cap Value Fund	Hanesbrands Inc.			Equity	937,097	6,887,663	0.365%
JNL Multi-Manager Small Cap Value Fund	The Ensign Group, Inc.			Equity	110,677	15,924,207	0.844%
JNL Multi-Manager Small Cap Value Fund	Portland General Electric Company			Equity	95,480	4,621,232	0.245%
JNL Multi-Manager Small Cap Value Fund	BankUnited, Inc.			Equity	153,624	5,988,059	0.297%
JNL Multi-Manager Small Cap Value Fund	TriAdvisor, Inc.			Equity	227,664	3,298,851	0.175%
JNL Multi-Manager Small Cap Value Fund	Opentlane, Inc.			Equity	326,918	5,518,376	0.292%
JNL Multi-Manager Small Cap Value Fund	Metacor Resources Company			Equity	83,679	4,135,416	0.219%
JNL Multi-Manager Small Cap Value Fund	First American Financial Corporation			Equity	187,890	12,488,819	0.657%
JNL Multi-Manager Small Cap Value Fund	Acadia Healthcare Company, Inc.			Equity	97,754	6,198,581	0.328%
JNL Multi-Manager Small Cap Value Fund	Aldus HomeCare Corporation			Equity	207,475	27,600,399	1.462%
JNL Multi-Manager Small Cap Value Fund	DHT Holdings, Inc.			Equity	327,418	3,611,423	0.191%
JNL Multi-Manager Small Cap Value Fund	Ingreder Incorporated			Equity	53,820	7,396,493	0.392%
JNL Multi-Manager Small Cap Value Fund	LPL Financial Holdings Inc.			Equity	12,016	2,795,282	0.148%
JNL Multi-Manager Small Cap Value Fund	Yelp Inc.			Equity	68,635	2,407,716	0.128%
JNL Multi-Manager Small Cap Value Fund	Telephone and Data Systems, Inc.			Equity	142,212	3,306,429	0.175%
JNL Multi-Manager Small Cap Value Fund	MYR Group Inc.			Equity	31,702	3,240,902	0.172%
JNL Multi-Manager Small Cap Value Fund	EVERTEC, Inc.			Equity	128,844	4,388,213	0.233%
JNL Multi-Manager Small Cap Value Fund	Grand Canyon Education, Inc.			Equity	54,750	7,766,288	0.412%
JNL Multi-Manager Small Cap Value Fund	Virtus Investment Partners, Inc.			Equity	49,526	10,373,221	0.550%
JNL Multi-Manager Small Cap Value Fund	Air Lease Corporation			Equity	294,859	13,416,616	0.711%
JNL Multi-Manager Small Cap Value Fund	Air Lease Corporation			Equity	258,782	11,774,581	0.624%
JNL Multi-Manager Small Cap Value Fund	Axcelis Technologies, Inc.			Equity	133,000	13,945,050	0.739%
JNL Multi-Manager Small Cap Value Fund	Socorex Energy Infrastructure, Inc.			Equity	340,036	4,338,859	0.230%
JNL Multi-Manager Small Cap Value Fund	Integer Holdings Corporation			Equity	87,420	8,764,600	0.464%
JNL Multi-Manager Small Cap Value Fund	Murphy USA Inc.			Equity	23,622	11,642,575	0.617%
JNL Multi-Manager Small Cap Value Fund	Sprouts Farmers Market, Inc.			Equity	60,000	6,624,600	0.351%
JNL Multi-Manager Small Cap Value Fund	First Hawaiian, Inc.			Equity	404,078	10,187,806	0.540%
JNL Multi-Manager Small Cap Value Fund	Gates Industrial Corporation PLC			Equity	387,903	6,802,890	0.361%
JNL Multi-Manager Small Cap Value Fund	CRISPR Therapeutics AG			Equity	52,544	2,468,517	0.131%
JNL Multi-Manager Small Cap Value Fund	Varex Imaging Corporation			Equity	402,001	4,791,852	0.254%
JNL Multi-Manager Small Cap Value Fund	United Parks And Resorts Inc.			Equity	71,977	3,642,036	0.193%
JNL Multi-Manager Small Cap Value Fund	Wies, Inc.			Equity	56,501	11,940,955	0.628%
JNL Multi-Manager Small Cap Value Fund	Akore Inc.			Equity	77,458	6,563,791	0.348%
JNL Multi-Manager Small Cap Value Fund	Cannae Holdings, Inc.			Equity	408,415	7,784,390	0.412%
JNL Multi-Manager Small Cap Value Fund	Vistra Corp.			Equity	25,942	3,305,165	0.183%
JNL Multi-Manager Small Cap Value Fund	Erlitex Medicine, Inc.			Equity	71,043	7,025,257	0.371%
JNL Multi-Manager Small Cap Value Fund	Essent Group Ltd.			Equity	110,913	7,175,197	0.386%
JNL Multi-Manager Small Cap Value Fund	CNX Resources Corporation			Equity	195,852	6,378,900	0.338%
JNL Multi-Manager Small Cap Value Fund	Warrior Met Coal, Inc.			Equity	49,780	3,180,942	0.169%
JNL Multi-Manager Small Cap Value Fund	Alkermes, Inc.			Equity	215,024	8,345,361	0.442%
JNL Multi-Manager Small Cap Value Fund	Delek US Holdings, Inc.			Equity	199,430	3,739,313	0.198%
JNL Multi-Manager Small Cap Value Fund	Mine Safety Appliances Company, LLC			Equity	33,365	5,916,949	0.314%
JNL Multi-Manager Small Cap Value Fund	LGH Homes, Inc.			Equity	39,747	4,710,814	0.250%
JNL Multi-Manager Small Cap Value Fund	ASGN Incorporated			Equity	103,000	6,002,890	0.316%
JNL Multi-Manager Small Cap Value Fund	Marcus & Millichap Company			Equity	341,805	13,631,183	0.722%
JNL Multi-Manager Small Cap Value Fund	Wyndham Hotels & Resorts, Inc.			Equity	125,882	9,836,419	0.521%
JNL Multi-Manager Small Cap Value Fund	CNH Industrial N.V.			Equity	193,153	2,032,998	0.108%
JNL Multi-Manager Small Cap Value Fund	Perrigo Company Public Limited Company			Equity	290,470	7,919,028	0.404%
JNL Multi-Manager Small Cap Value Fund	Talos Energy Inc.			Equity	280,060	2,898,621	0.154%
JNL Multi-Manager Small Cap Value Fund	Ollie's Bargain Outlet Holdings, Inc.			Equity	87,152	8,471,174	0.449%
JNL Multi-Manager Small Cap Value Fund	Dynavax Technologies Corporation			Equity	164,834	1,836,251	0.097%
JNL Multi-Manager Small Cap Value Fund	Lentherus Holdings, Inc.			Equity	187,019	1,976,585	0.105%
JNL Multi-Manager Small Cap Value Fund	Encompass Health Corporation			Equity	93,385	9,024,726	0.478%
JNL Multi-Manager Small Cap Value Fund	JELD-WEN Holding, Inc.			Equity	270,692	4,279,641	0.227%
JNL Multi-Manager Small Cap Value Fund	PotlatchDeltic Corporation			Equity	119,035	5,362,527	0.284%
JNL Multi-Manager Small Cap Value Fund	DMC Global Inc.			Equity	364,434	4,730,263	0.251%
JNL Multi-Manager Small Cap Value Fund	Virtu Financial, Inc.			Equity	284,411	8,053,999	0.427%
JNL Multi-Manager Small Cap Value Fund	Spire Inc.			Equity	47,556	3,235,948	0.171%
JNL Multi-Manager Small Cap Value Fund	Evotek Health, Inc.			Equity	83,870	2,371,844	0.126%
JNL Multi-Manager Small Cap Value Fund	GMS Inc.			Equity	94,239	8,526,226	0.452%
JNL Multi-Manager Small Cap Value Fund	Deputyly Sirona Inc.			Equity	347,960	9,471,471	0.502%
JNL Multi-Manager Small Cap Value Fund	Getty Realty Corp.			Equity	110,127	3,552,697	0.188%
JNL Multi-Manager Small Cap Value Fund	Apple Hospitality REIT, Inc.			Equity	294,360	4,394,795	0.233%
JNL Multi-Manager Small Cap Value Fund	Ashland Inc.			Equity	114,300	9,940,971	0.527%
JNL Multi-Manager Small Cap Value Fund	CSW Industrials, Inc.			Equity	95,325	12,942,727	0.686%
JNL Multi-Manager Small Cap Value Fund	Summit Materials, Inc.			Equity	196,984	7,688,286	0.407%
JNL Multi-Manager Small Cap Value Fund	Summit Materials, Inc.			Equity	41,281	4,111,197	0.085%
JNL Multi-Manager Small Cap Value Fund	LendingTree, Inc.			Equity	19,190	1,955,568	0.056%
JNL Multi-Manager Small Cap Value Fund	Nomad Foods Limited			Equity	262,463	5,002,545	0.265%
JNL Multi-Manager Small Cap Value Fund	LCI Industries			Equity	40,968	4,938,283	0.262%
JNL Multi-Manager Small Cap Value Fund	Brandwyne Realty Trust			Equity	516,760	2,811,174	0.149%
JNL Multi-Manager Small Cap Value Fund	STAC Industrial, Inc.			Equity	157,769	6,186,648	0.328%
JNL Multi-Manager Small Cap Value Fund	HA Sustainable Infrastructure Capital, Inc.			Equity	30,486	1,050,852	0.056%
JNL Multi-Manager Small Cap Value Fund	Ryman Hospitality Properties, Inc.			Equity	68,042	7,371,670	0.391%
JNL Multi-Manager Small Cap Value Fund	Independence Realty Trust, Inc.			Equity	103,233	2,132,794	0.113%
JNL Multi-Manager Small Cap Value Fund	Tarreno Realty Corporation			Equity	86,522	5,824,661	0.309%
JNL Multi-Manager Small Cap Value Fund	Highwoods Properties, Inc.			Equity	96,793	3,243,533	0.172%
JNL Multi-Manager Small Cap Value Fund	Alexander & Baldwin, Inc.			Equity	411,364	7,989,717	0.423%
JNL Multi-Manager Small Cap Value Fund	CoreCivic, Inc.			Equity	535,683	6,776,390	0.359%
JNL Multi-Manager Small Cap Value Fund	Element Solutions Inc.			Equity	217,000	5,983,720	0.312%
JNL Multi-Manager Small Cap Value Fund	Element Solutions Inc.			Equity	738,319	20,052,744	1.053%
JNL Multi-Manager Small Cap Value Fund	Tecnoglass Inc.			Equity	120,540	8,289,536	0.439%
JNL Multi-Manager Small Cap Value Fund	Bank OZK			Equity	47,618	2,047,098	0.108%
JNL Multi-Manager Small Cap Value Fund	Vim Consolidated, Inc.			Equity	824,017	27,045,913	1.214%
JNL Multi-Manager Small Cap Value Fund	Smartstreet Inc.			Equity	52,178	2,888,574	0.153%
JNL Multi-Manager Small Cap Value Fund	Clarity PLC			Equity	490,589	4,383,182	0.185%
JNL Multi-Manager Small Cap Value Fund	Grocery Outlet Holding Corp.			Equity	488,700	8,576,685	0.454%
JNL Multi-Manager Small Cap Value Fund	Zynex, Inc.			Equity	93,014	7,758,994	0.404%
JNL Multi-Manager Small Cap Value Fund	Oventy Canada ULC			Equity	33,149	1,269,938	0.067%
JNL Multi-Manager Small Cap Value Fund	Enerpac Tool Group Corp.			Equity	233,523	9,782,278	0.518%
JNL Multi-Manager Small Cap Value Fund	Smith & Nephew PLC			Equity	119,849	3,732,098	0.198%
JNL Multi-Manager Small Cap Value Fund	The Xerox Company Inc.			Equity	213,700	10,001,160	0.530%
JNL Multi-Manager Small Cap Value Fund	Dun & Bradstreet Holdings, Inc.			Equity	442,513	5,024,015	0.270%
JNL Multi-Manager Small Cap Value Fund	Willcott Holdings Corporation			Equity	145,045	5,453,692	0.289%
JNL Multi-Manager Small Cap Value Fund	API Group Corporation			Equity	388,500	12,828,270	0.680%
JNL Multi-Manager Small Cap Value Fund	API Group Corporation			Equity	263,780	8,710,016	0.462%
JNL Multi-Manager Small Cap Value Fund	Voriter Corporation			Equity	147,116	4,963,694	0.263%
JNL Multi-Manager Small Cap Value Fund	Janus International Group, Inc.			Equity	839,417	8,486,506	0.450%
JNL Multi-Manager Small Cap Value Fund	Arcellx Inc.			Equity	17,890	1,493,994	0.079%
JNL Multi-Manager Small Cap Value Fund	Krile River Corporation			Equity	42,164	3,769,940	0.200%
JNL Multi-Manager Small Cap Value Fund	Moonlake Immunotherapeutics AG			Equity	52,616	2,622,899	0.141%
JNL Multi-Manager Small Cap Value Fund	P10, Inc.			Equity	447,284	4,790,412	0.254%
JNL Multi-Manager Small Cap Value Fund	Atlas Energy Solutions Inc.			Equity	357,130	7,785,434	0.413%
JNL Multi-Manager Small Cap Value Fund	Talen Energy Corporation			Equity	164,508	12,442,578	0.659%
JNL Multi-Manager Small Cap Value Fund	Tanap Therapeutics, Inc.			Equity	69,008	1,766,098	0.097%
Total Non Derivatives						1,887,229,537	
Derivatives						0	
Total All Investments						1,887,229,537	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Multi-Manager U.S. Select Equity Fund	Cash			Cash Equivalent	67.195	67.195	0.008%
JNL Multi-Manager U.S. Select Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	5,175,876	5,189,980	0.645%
JNL Multi-Manager U.S. Select Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	7,513,967	7,554,290	0.938%
JNL Multi-Manager U.S. Select Equity Fund	Applwin Corporation			Equity	177,855	23,218,970	2.884%
JNL Multi-Manager U.S. Select Equity Fund	Applwin Corporation			Equity	103,004	13,447,172	1.670%
JNL Multi-Manager U.S. Select Equity Fund	General Electric Company			Equity	111,449	21,048,693	2.615%
JNL Multi-Manager U.S. Select Equity Fund	Monday Com Ltd.			Equity	47,788	13,274,073	1.649%
JNL Multi-Manager U.S. Select Equity Fund	Verizon Communications Inc.			Equity	257,157	11,548,921	1.435%
JNL Multi-Manager U.S. Select Equity Fund	Canadian Natural Resources Limited			Equity	249,554	8,387,094	1.042%
JNL Multi-Manager U.S. Select Equity Fund	American Electric Power Company, Inc.			Equity	94,355	9,680,923	1.203%
JNL Multi-Manager U.S. Select Equity Fund	Alstate Corporation, The			Equity	30,866	5,853,737	0.727%
JNL Multi-Manager U.S. Select Equity Fund	Amazon.com, Inc.			Equity	177,814	33,132,083	4.116%
JNL Multi-Manager U.S. Select Equity Fund	Amazon.com, Inc.			Equity	55,399	10,822,496	1.282%
JNL Multi-Manager U.S. Select Equity Fund	CMS Energy Corporation			Equity	113,370	8,007,323	0.995%
JNL Multi-Manager U.S. Select Equity Fund	NVIDIA Corporation			Equity	212,298	25,783,610	3.203%
JNL Multi-Manager U.S. Select Equity Fund	NVIDIA Corporation			Equity	73,840	8,967,753	1.114%
JNL Multi-Manager U.S. Select Equity Fund	McKesson Corporation			Equity	31,802	15,746,351	1.956%
JNL Multi-Manager U.S. Select Equity Fund	Arthur J. Gallagher & Co.			Equity	34,496	9,705,140	1.206%
JNL Multi-Manager U.S. Select Equity Fund	NextEra Energy, Inc.			Equity	108,394	9,162,545	1.138%
JNL Multi-Manager U.S. Select Equity Fund	Exxon Mobil Corporation			Equity	68,072	7,979,400	0.991%
JNL Multi-Manager U.S. Select Equity Fund	Gartner, Inc.			Equity	21,247	10,767,130	1.337%
JNL Multi-Manager U.S. Select Equity Fund	Coca Cola Company, The			Equity	232,437	16,815,555	2.089%
JNL Multi-Manager U.S. Select Equity Fund	Entegris, Inc.			Equity	82,171	9,246,703	1.149%
JNL Multi-Manager U.S. Select Equity Fund	Johnson & Johnson			Equity	47,778	7,742,903	0.962%
JNL Multi-Manager U.S. Select Equity Fund	Illumina, Inc.			Equity	58,396	7,615,422	0.946%
JNL Multi-Manager U.S. Select Equity Fund	Reinsurance Group of America, Incorporated			Equity	87,521	19,068,200	2.369%
JNL Multi-Manager U.S. Select Equity Fund	Eli Lilly and Company			Equity	13,251	11,739,591	1.458%
JNL Multi-Manager U.S. Select Equity Fund	Eli Lilly and Company			Equity	37,948	33,619,651	4.176%
JNL Multi-Manager U.S. Select Equity Fund	Procter & Gamble Company, The			Equity	44,371	7,685,057	0.955%
JNL Multi-Manager U.S. Select Equity Fund	Microsoft Corporation			Equity	63,674	27,389,322	3.403%
JNL Multi-Manager U.S. Select Equity Fund	Microsoft Corporation			Equity	49,848	19,728,384	2.451%
JNL Multi-Manager U.S. Select Equity Fund	The Progressive Corporation			Equity	32,669	8,290,085	1.030%
JNL Multi-Manager U.S. Select Equity Fund	Tetra Tech, Inc.			Equity	345,295	16,284,112	2.023%
JNL Multi-Manager U.S. Select Equity Fund	Walmart Inc.			Equity	167,284	13,508,183	1.678%
JNL Multi-Manager U.S. Select Equity Fund	The Southern Company			Equity	93,769	8,656,088	1.050%
JNL Multi-Manager U.S. Select Equity Fund	UnitedHealth Group Incorporated			Equity	29,205	17,075,579	2.121%
JNL Multi-Manager U.S. Select Equity Fund	UnitedHealth Group Incorporated			Equity	27,912	16,319,588	2.027%
JNL Multi-Manager U.S. Select Equity Fund	Intuitive Surgical, Inc.			Equity	8,998	4,420,447	0.549%
JNL Multi-Manager U.S. Select Equity Fund	AT&T Inc.			Equity	684,632	15,061,904	1.871%
JNL Multi-Manager U.S. Select Equity Fund	CME Group Inc.			Equity	20,313	4,482,063	0.557%
JNL Multi-Manager U.S. Select Equity Fund	Netflix, Inc.			Equity	17,485	12,401,586	1.540%
JNL Multi-Manager U.S. Select Equity Fund	CBCE Global Markets, Inc.			Equity	21,596	4,424,373	0.550%
JNL Multi-Manager U.S. Select Equity Fund	Booz Allen Hamilton Holding Corporation			Equity	108,868	17,719,356	2.201%
JNL Multi-Manager U.S. Select Equity Fund	LPL Financial Holdings Inc.			Equity	50,446	11,735,253	1.458%
JNL Multi-Manager U.S. Select Equity Fund	Visa Inc.			Equity	58,351	16,043,607	1.993%
JNL Multi-Manager U.S. Select Equity Fund	Visa Inc.			Equity	42,589	11,709,846	1.455%
JNL Multi-Manager U.S. Select Equity Fund	Philip Morris International Inc.			Equity	187,727	23,043,489	2.862%
JNL Multi-Manager U.S. Select Equity Fund	Meta Platforms, Inc.			Equity	18,596	10,644,522	1.322%
JNL Multi-Manager U.S. Select Equity Fund	Meta Platforms, Inc.			Equity	51,497	29,478,943	3.662%
JNL Multi-Manager U.S. Select Equity Fund	Duke Energy Corporation			Equity	73,080	8,426,124	1.047%
JNL Multi-Manager U.S. Select Equity Fund	The Cigna Group			Equity	33,738	11,088,193	1.452%
JNL Multi-Manager U.S. Select Equity Fund	Novo Nordisk A/S			Equity	139,630	16,625,744	2.065%
JNL Multi-Manager U.S. Select Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	58,400	10,179,261	1.264%
JNL Multi-Manager U.S. Select Equity Fund	Broadcom Inc.			Equity	37,043	6,389,918	0.794%
JNL Multi-Manager U.S. Select Equity Fund	British American Tobacco P.L.C.			Equity	326,713	12,216,707	1.518%
JNL Multi-Manager U.S. Select Equity Fund	Intercontinental Exchange, Inc.			Equity	27,903	4,482,338	0.557%
JNL Multi-Manager U.S. Select Equity Fund	Arista Networks, Inc.			Equity	50,363	19,330,327	2.401%
JNL Multi-Manager U.S. Select Equity Fund	Freshpet, Inc.			Equity	144,576	19,773,660	2.456%
JNL Multi-Manager U.S. Select Equity Fund	Corteva, Inc.			Equity	116,574	6,853,385	0.851%
JNL Multi-Manager U.S. Select Equity Fund	Datadog, Inc.			Equity	74,436	8,564,606	1.064%
JNL Multi-Manager U.S. Select Equity Fund	Canadian Pacific Kansas City Limited			Equity	105,953	9,078,435	1.128%
JNL Multi-Manager U.S. Select Equity Fund	GE Vernova Inc.			Equity	42,500	10,836,650	1.346%
Total Non Derivatives						805,052,649	
Derivatives						0	
Total All Investments						805,052,649	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLNeuberger Berman Commodity Strategy Fund	Cash			Cash Equivalent	2,403,079	2,403,079	5.747%
JNLNeuberger Berman Commodity Strategy Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	5,267,815	5,278,815	12.624%
JNLNeuberger Berman Commodity Strategy Fund	Verizon Communications Inc.	3/20/2026	5.67	Fixed Income	405,000	407,387	0.974%
JNLNeuberger Berman Commodity Strategy Fund	AT&T Inc.	3/25/2026	1.70	Fixed Income	495,000	476,818	1.140%
JNLNeuberger Berman Commodity Strategy Fund	JPMorgan Chase & Co.	4/22/2027	6.17	Fixed Income	390,000	386,761	0.949%
JNLNeuberger Berman Commodity Strategy Fund	T-Mobile USA, Inc.	4/15/2025	3.50	Fixed Income	345,000	348,035	0.832%
JNLNeuberger Berman Commodity Strategy Fund	Analogue Devices, Inc.	10/1/2024	5.58	Fixed Income	589,000	597,397	1.429%
JNLNeuberger Berman Commodity Strategy Fund	CCG Receivables Trust 2021-2	3/14/2029	0.54	Fixed Income	187,065	184,940	0.442%
JNLNeuberger Berman Commodity Strategy Fund	Thermo Fisher Scientific Inc.	10/18/2024	1.22	Fixed Income	560,000	562,092	1.344%
JNLNeuberger Berman Commodity Strategy Fund	Rochie Holdings, Inc.	3/10/2025	5.68	Fixed Income	313,000	314,827	0.752%
JNLNeuberger Berman Commodity Strategy Fund	Protective Life Global Funding	3/28/2025	5.82	Fixed Income	378,000	379,411	0.930%
JNLNeuberger Berman Commodity Strategy Fund	National Rural Utilities Cooperative Finance Corporation	10/18/2024	5.62	Fixed Income	508,000	514,261	1.230%
JNLNeuberger Berman Commodity Strategy Fund	Royal Bank of Canada	1/21/2025	5.73	Fixed Income	423,000	427,892	1.024%
JNLNeuberger Berman Commodity Strategy Fund	Philip Morris International Inc.	11/15/2024	5.93	Fixed Income	251,000	255,870	0.612%
JNLNeuberger Berman Commodity Strategy Fund	Exxon Mobil Corporation	3/6/2025	2.71	Fixed Income	466,000	462,732	1.107%
JNLNeuberger Berman Commodity Strategy Fund	Bank of America Corporation	1/22/2025	4.00	Fixed Income	174,000	174,861	0.418%
JNLNeuberger Berman Commodity Strategy Fund	Capital One Financial Corporation	10/30/2024	3.30	Fixed Income	270,000	273,554	0.654%
JNLNeuberger Berman Commodity Strategy Fund	Verizon Communications Inc.	1/1/2024	3.50	Fixed Income	286,000	289,684	0.693%
JNLNeuberger Berman Commodity Strategy Fund	Enterprise Products Operating LLC	2/15/2025	3.75	Fixed Income	434,000	435,623	1.042%
JNLNeuberger Berman Commodity Strategy Fund	Spectra Energy Partners, LP	3/15/2025	3.50	Fixed Income	449,000	447,791	1.071%
JNLNeuberger Berman Commodity Strategy Fund	Bank of America Corporation	10/1/2025	3.09	Fixed Income	205,000	208,170	0.489%
JNLNeuberger Berman Commodity Strategy Fund	State Street Corporation	1/1/2025	2.35	Fixed Income	435,000	439,154	1.048%
JNLNeuberger Berman Commodity Strategy Fund	Intel Corporation	3/25/2025	3.40	Fixed Income	391,000	388,123	0.928%
JNLNeuberger Berman Commodity Strategy Fund	Low's Companies, Inc.	4/15/2025	4.00	Fixed Income	530,000	537,644	1.286%
JNLNeuberger Berman Commodity Strategy Fund	Oracle Corporation	4/1/2025	2.50	Fixed Income	375,000	375,246	0.897%
JNLNeuberger Berman Commodity Strategy Fund	URS Group AG	9/5/2026	5.92	Fixed Income	475,000	469,324	1.122%
JNLNeuberger Berman Commodity Strategy Fund	Simon Property Group, L.P.	9/1/2025	3.50	Fixed Income	805,000	801,310	1.916%
JNLNeuberger Berman Commodity Strategy Fund	RTX Corporation	8/16/2025	3.95	Fixed Income	406,000	406,036	0.971%
JNLNeuberger Berman Commodity Strategy Fund	Baxter International Inc.	11/29/2024	5.63	Fixed Income	397,000	399,024	0.954%
JNLNeuberger Berman Commodity Strategy Fund	Oracle Corporation	11/15/2024	2.95	Fixed Income	185,000	186,598	0.448%
JNLNeuberger Berman Commodity Strategy Fund	PepsiCo, Inc.	2/13/2025	5.85	Fixed Income	384,000	388,781	0.925%
JNLNeuberger Berman Commodity Strategy Fund	Amgen Inc.	3/2/2025	5.25	Fixed Income	533,000	536,182	1.282%
JNLNeuberger Berman Commodity Strategy Fund	American Express Company	11/4/2026	5.92	Fixed Income	665,000	669,675	1.602%
JNLNeuberger Berman Commodity Strategy Fund	Pfizer Investment Enterprises Pte. Ltd.	5/19/2025	4.65	Fixed Income	515,000	524,294	1.254%
JNLNeuberger Berman Commodity Strategy Fund	Citigroup Inc.	3/17/2024	5.65	Fixed Income	853,000	868,728	2.056%
JNLNeuberger Berman Commodity Strategy Fund	Nissan Auto Lease Trust 2023-B	11/15/2024	5.74	Fixed Income	221,497	222,172	0.531%
JNLNeuberger Berman Commodity Strategy Fund	General Motors Financial Company, Inc.	10/15/2024	1.20	Fixed Income	379,000	380,436	0.910%
JNLNeuberger Berman Commodity Strategy Fund	Bank of America Auto Trust 2023-1	5/15/2026	5.83	Fixed Income	303,245	304,531	0.728%
JNLNeuberger Berman Commodity Strategy Fund	DLLA 2023-1 LLC	7/20/2026	5.92	Fixed Income	174,429	175,791	0.429%
JNLNeuberger Berman Commodity Strategy Fund	GECU Auto Receivables Trust 2023-1	3/15/2027	5.95	Fixed Income	193,085	194,268	0.465%
JNLNeuberger Berman Commodity Strategy Fund	HPFSF Equipment Trust 2023-2	7/21/2026	6.04	Fixed Income	429,760	432,650	1.035%
JNLNeuberger Berman Commodity Strategy Fund	Tesla Auto Lease Trust 2023-B	2/20/2025	6.02	Fixed Income	296,806	297,790	0.712%
JNLNeuberger Berman Commodity Strategy Fund	BMW Vehicle Lease Trust 2023-2	1/27/2025	5.95	Fixed Income	143,115	143,815	0.343%
JNLNeuberger Berman Commodity Strategy Fund	Bank of America Corporation	4/2/2026	6.64	Fixed Income	290,000	296,189	0.708%
JNLNeuberger Berman Commodity Strategy Fund	DLLST 2024-1 LLC	7/20/2025	5.33	Fixed Income	103,000	103,332	0.247%
JNLNeuberger Berman Commodity Strategy Fund	CarMax Auto Owner Trust 2024-1	11/17/2025	5.30	Fixed Income	170,495	171,330	0.410%
JNLNeuberger Berman Commodity Strategy Fund	Amur Equipment Finance Receivables XIII LLC	7/20/2027	5.38	Fixed Income	142,244	144,244	0.345%
JNLNeuberger Berman Commodity Strategy Fund	SBNA Auto Lease Trust 2024-A	5/20/2025	5.45	Fixed Income	270,382	271,353	0.649%
JNLNeuberger Berman Commodity Strategy Fund	Wells Fargo Bank, National Association	12/11/2026	6.20	Fixed Income	840,000	851,461	2.036%
JNLNeuberger Berman Commodity Strategy Fund	Morgan Stanley	2/18/2026	6.17	Fixed Income	671,000	679,650	1.625%
JNLNeuberger Berman Commodity Strategy Fund	NextEra Energy Capital Holdings, Inc.	11/29/2026	6.04	Fixed Income	384,000	389,941	0.936%
JNLNeuberger Berman Commodity Strategy Fund	PepsiCo Singapore Financing I Pte. Ltd.	2/16/2027	5.79	Fixed Income	225,000	226,575	0.542%
JNLNeuberger Berman Commodity Strategy Fund	Bristol-Myers Squibb Company	2/20/2026	5.72	Fixed Income	264,000	266,577	0.638%
JNLNeuberger Berman Commodity Strategy Fund	Hyundai Auto Receivables Trust 2024-A	4/15/2027	5.29	Fixed Income	453,117	453,804	1.085%
JNLNeuberger Berman Commodity Strategy Fund	Moneta Bank ABP	3/19/2027	5.73	Fixed Income	267,000	267,133	0.637%
JNLNeuberger Berman Commodity Strategy Fund	CCG Receivables Trust 2023-1	9/16/2030	5.82	Fixed Income	111,856	113,214	0.271%
JNLNeuberger Berman Commodity Strategy Fund	Volkswagen Auto Lease Trust 2024-A	1/20/2026	5.40	Fixed Income	118,000	118,969	0.285%
JNLNeuberger Berman Commodity Strategy Fund	Georgia Power Company	5/8/2025	6.00	Fixed Income	357,000	361,148	0.864%
JNLNeuberger Berman Commodity Strategy Fund	Citizens Auto Receivables Trust 2024-2	9/15/2025	5.54	Fixed Income	317,000	319,066	0.763%
JNLNeuberger Berman Commodity Strategy Fund	Dell Equipment Finance Trust 2024-1	11/24/2025	5.58	Fixed Income	241,000	242,728	0.580%
JNLNeuberger Berman Commodity Strategy Fund	Daimler Trucks Retail Trust 2024-1	4/15/2026	5.60	Fixed Income	282,754	284,456	0.680%
JNLNeuberger Berman Commodity Strategy Fund	Verizon Master Trust	4/20/2027	5.92	Fixed Income	307,000	307,839	0.736%
JNLNeuberger Berman Commodity Strategy Fund	Caterpillar Financial Services Corporation	5/14/2027	5.76	Fixed Income	860,000	865,416	2.070%
JNLNeuberger Berman Commodity Strategy Fund	Harley-Davidson Motorcycle Trust 2024-1	11/17/2025	5.65	Fixed Income	740,000	750,791	1.795%
JNLNeuberger Berman Commodity Strategy Fund	SFS Auto Receivables Securitization Trust 2024-2	10/20/2027	5.71	Fixed Income	516,745	520,545	1.245%
JNLNeuberger Berman Commodity Strategy Fund	BoA Auto Trust 2024-1	12/15/2026	5.57	Fixed Income	294,000	296,259	0.708%
JNLNeuberger Berman Commodity Strategy Fund	Morgan Stanley Bank, National Association	7/16/2025	6.07	Fixed Income	35,000	35,571	0.085%
JNLNeuberger Berman Commodity Strategy Fund	CNP Equipment Trust 2024-A	3/16/2026	5.74	Fixed Income	122,000	122,805	0.293%
JNLNeuberger Berman Commodity Strategy Fund	Goldman Sachs Bank USA	5/21/2027	5.99	Fixed Income	950,000	954,993	2.284%
JNLNeuberger Berman Commodity Strategy Fund	Capital One Financial Corporation	2/5/2025	3.20	Fixed Income	642,000	643,086	1.538%
JNLNeuberger Berman Commodity Strategy Fund	John Deere Owner Trust 2024-B	5/17/2027	5.42	Fixed Income	207,000	209,090	0.500%
JNLNeuberger Berman Commodity Strategy Fund	Home Depot, Inc., The	12/24/2025	5.17	Fixed Income	625,000	628,000	1.498%
JNLNeuberger Berman Commodity Strategy Fund	Treasury, United States Department of	12/19/2024		Cash Equivalent	2,000,000	1,980,206	4.739%
JNLNeuberger Berman Commodity Strategy Fund	Ford Credit Auto Owner Trust 2024-B	2/15/2026	5.40	Fixed Income	236,000	238,484	0.570%
JNLNeuberger Berman Commodity Strategy Fund	Verizon Master Trust	6/20/2026	5.90	Fixed Income	50,000	49,873	0.119%
JNLNeuberger Berman Commodity Strategy Fund	Auxilar Term Funding 2024-1, LLC	3/15/2027	5.84	Fixed Income	100,000	101,437	0.243%
JNLNeuberger Berman Commodity Strategy Fund	GM Financial Consumer Automobile Receivables Trust 2024-3	2/16/2026	5.35	Fixed Income	557,000	561,975	1.344%
JNLNeuberger Berman Commodity Strategy Fund	UnitedHealth Group Incorporated	7/15/2026	5.78	Fixed Income	548,000	555,471	1.328%
JNLNeuberger Berman Commodity Strategy Fund	JPMorgan Chase & Co.	9/22/2027	5.60	Fixed Income	550,000	551,456	1.319%
JNLNeuberger Berman Commodity Strategy Fund	Ally Auto Receivables Trust 2024-2	7/15/2027	4.46	Fixed Income	100,000	100,026	0.239%
JNLNeuberger Berman Commodity Strategy Fund	GM Financial Automobile Leasing Trust 2024-3	4/20/2026	4.29	Fixed Income	203,000	202,665	0.485%
JNLNeuberger Berman Commodity Strategy Fund	John Deere Capital Corporation	3/6/2026	5.61	Fixed Income	635,000	636,777	1.523%
Total Non Derivatives						39,439,986	
Derivatives							
JNLNeuberger Berman Commodity Strategy Fund	Soybean Oil FUTURE - PHYSICALLY DELIVERED			Derivative	55	81,414	0.195%
JNLNeuberger Berman Commodity Strategy Fund	Com FUTURE - PHYSICALLY DELIVERED			Derivative	64	64,897	0.155%
JNLNeuberger Berman Commodity Strategy Fund	Cocoa FUTURE - PHYSICALLY DELIVERED			Derivative	7	64,457	0.154%
JNLNeuberger Berman Commodity Strategy Fund	Crude Oil, WTI FUTURE - PHYSICALLY DELIVERED			Derivative	35	(22,128)	-0.053%
JNLNeuberger Berman Commodity Strategy Fund	Brent Crude FUTURE - CASH SETTLED			Derivative	41	(103,881)	-0.252%
JNLNeuberger Berman Commodity Strategy Fund	Cotton No. 2 FUTURE - PHYSICALLY DELIVERED			Derivative	18	15,830	0.038%
JNLNeuberger Berman Commodity Strategy Fund	Cattle Feeder FUTURE - CASH SETTLED			Derivative	2	6,348	0.015%
JNLNeuberger Berman Commodity Strategy Fund	Gold, 100 Oz. FUTURE - PHYSICALLY DELIVERED			Derivative	29	692,855	1.657%
JNLNeuberger Berman Commodity Strategy Fund	Copper FUTURE - PHYSICALLY DELIVERED			Derivative	25	278,149	0.685%
JNLNeuberger Berman Commodity Strategy Fund	New York Harbor ULSD FUTURE - PHYSICALLY DELIVERED			Derivative	12	(57,256)	-0.137%
JNLNeuberger Berman Commodity Strategy Fund	Coffee C FUTURE - PHYSICALLY DELIVERED			Derivative	14	213,867	0.511%
JNLNeuberger Berman Commodity Strategy Fund	KC HRW Wheat FUTURE - PHYSICALLY DELIVERED			Derivative	17	7,007	0.017%
JNLNeuberger Berman Commodity Strategy Fund	Aluminum FUTURE - PHYSICALLY DELIVERED			Derivative	27	109,035	0.258%
JNLNeuberger Berman Commodity Strategy Fund	Live Cattle FUTURE - PHYSICALLY DELIVERED			Derivative	20	38,585	0.092%
JNLNeuberger Berman Commodity Strategy Fund	Lean Hogs FUTURE - CASH SETTLED			Derivative	34	57,877	0.138%
JNLNeuberger Berman Commodity Strategy Fund	Lead FUTURE - PHYSICALLY DELIVERED			Derivative	17	6,130	0.015%
JNLNeuberger Berman Commodity Strategy Fund	Nickel FUTURE - PHYSICALLY DELIVERED			Derivative	8	47,044	0.113%
JNLNeuberger Berman Commodity Strategy Fund	Zinc FUTURE - PHYSICALLY DELIVERED			Derivative	19	175,525	0.420%
JNLNeuberger Berman Commodity Strategy Fund	Natural Gas FUTURE - PHYSICALLY DELIVERED			Derivative	57	149,747	0.358%
JNLNeuberger Berman Commodity Strategy Fund	Palladium FUTURE - PHYSICALLY DELIVERED			Derivative	4	10,959	0.026%
JNLNeuberger Berman Commodity Strategy Fund	Platinum FUTURE - PHYSICALLY DELIVERED			Derivative	9	23,669	0.057%
JNLNeuberger Berman Commodity Strategy Fund	Low Sulfur Gasoil FUTURE - PHYSICALLY DELIVERED			Derivative	24	(122,686)	-0.293%
JNLNeuberger Berman Commodity Strategy Fund	Soybean FUTURE - PHYSICALLY DELIVERED			Derivative	37	49,151	0.118%
JNLNeuberger Berman Commodity Strategy Fund	Sugar No. 11 FUTURE - PHYSICALLY DELIVERED			Derivative	49	131,210	0.314%
JNLNeuberger Berman Commodity Strategy Fund	Silver FUTURE - PHYSICALLY DELIVERED			Derivative	10	133,200	0.319%
JNLNeuberger Berman Commodity Strategy Fund	Soybean Meal FUTURE - PHYSICALLY DELIVERED			Derivative	42	54,397	0.130%
JNLNeuberger Berman Commodity Strategy Fund	Wheat FUTURE - PHYSICALLY DELIVERED			Derivative	19	20,277	0.048%
JNLNeuberger Berman Commodity Strategy Fund	Gasoline, RBOB FUTURE - PHYSICALLY DELIVERED			Derivative	19	(89,209)	-0.213%
Total Derivatives						1,975,471	
Total All Investments						41,415,457	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Neuberger Berman Gold Plus Strategy Fund	Cash			Cash Equivalent	2,569,871	2,569,871	3.908%
JNL/Neuberger Berman Gold Plus Strategy Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	8,629,005	8,662,987	13.174%
JNL/Neuberger Berman Gold Plus Strategy Fund	AbbVie Inc.	11/21/2024	2.60	Fixed Income	900,000	905,337	1.377%
JNL/Neuberger Berman Gold Plus Strategy Fund	Verizon Communications Inc.	3/20/2026	5.67	Fixed Income	535,000	538,153	0.818%
JNL/Neuberger Berman Gold Plus Strategy Fund	AT&T Inc.	3/25/2026	1.70	Fixed Income	735,000	709,003	1.077%
JNL/Neuberger Berman Gold Plus Strategy Fund	JPMorgan Chase & Co.	4/22/2027	6.17	Fixed Income	575,000	584,968	0.890%
JNL/Neuberger Berman Gold Plus Strategy Fund	T-Mobile USA, Inc.	4/15/2025	3.50	Fixed Income	495,000	499,357	0.759%
JNL/Neuberger Berman Gold Plus Strategy Fund	Analogue Devices, Inc.	10/1/2024	5.58	Fixed Income	355,000	360,061	0.548%
JNL/Neuberger Berman Gold Plus Strategy Fund	Thermo Fisher Scientific Inc.	10/18/2024	1.22	Fixed Income	365,000	366,363	0.567%
JNL/Neuberger Berman Gold Plus Strategy Fund	Roche Holdings, Inc.	3/10/2025	5.68	Fixed Income	200,000	201,040	0.306%
JNL/Neuberger Berman Gold Plus Strategy Fund	Bank of New York Mellon Corporation, The	10/24/2024	2.10	Fixed Income	180,000	181,429	0.276%
JNL/Neuberger Berman Gold Plus Strategy Fund	Philip Morris International Inc.	11/15/2024	5.13	Fixed Income	275,000	280,336	0.426%
JNL/Neuberger Berman Gold Plus Strategy Fund	Exxon Mobil Corporation	3/6/2025	2.71	Fixed Income	485,000	481,598	0.732%
JNL/Neuberger Berman Gold Plus Strategy Fund	PNC Bank, National Association	2/23/2025	2.95	Fixed Income	500,000	499,022	0.759%
JNL/Neuberger Berman Gold Plus Strategy Fund	Bank of America Corporation	1/22/2025	4.00	Fixed Income	754,000	757,732	1.152%
JNL/Neuberger Berman Gold Plus Strategy Fund	Capital One Financial Corporation	10/30/2024	3.30	Fixed Income	200,000	202,633	0.308%
JNL/Neuberger Berman Gold Plus Strategy Fund	Enterprise Products Operating LLC	2/15/2025	3.75	Fixed Income	495,000	496,851	0.750%
JNL/Neuberger Berman Gold Plus Strategy Fund	Verizon Communications Inc.	2/15/2025	3.38	Fixed Income	740,000	738,588	1.123%
JNL/Neuberger Berman Gold Plus Strategy Fund	Spectra Energy Partners, LP	3/15/2025	3.50	Fixed Income	467,000	465,743	0.708%
JNL/Neuberger Berman Gold Plus Strategy Fund	Comcast Corporation	8/15/2025	3.38	Fixed Income	735,000	733,720	1.116%
JNL/Neuberger Berman Gold Plus Strategy Fund	CVS Health Corporation	7/20/2025	3.88	Fixed Income	410,000	410,195	0.624%
JNL/Neuberger Berman Gold Plus Strategy Fund	Bank of America Corporation	10/1/2025	3.09	Fixed Income	215,000	219,325	0.332%
JNL/Neuberger Berman Gold Plus Strategy Fund	State Street Corporation	11/1/2025	2.35	Fixed Income	650,000	654,713	0.996%
JNL/Neuberger Berman Gold Plus Strategy Fund	Intel Corporation	3/25/2025	3.40	Fixed Income	399,000	396,064	0.602%
JNL/Neuberger Berman Gold Plus Strategy Fund	Low's Companies, Inc.	4/15/2025	4.00	Fixed Income	797,000	808,495	1.230%
JNL/Neuberger Berman Gold Plus Strategy Fund	Fox Corporation	4/7/2025	3.05	Fixed Income	460,000	462,404	0.703%
JNL/Neuberger Berman Gold Plus Strategy Fund	Simon Property Group, L.P.	10/1/2024	3.38	Fixed Income	145,000	147,447	0.224%
JNL/Neuberger Berman Gold Plus Strategy Fund	UBS Group AG	6/5/2026	2.19	Fixed Income	705,000	696,576	1.059%
JNL/Neuberger Berman Gold Plus Strategy Fund	Trust Financial Corporation	8/5/2025	1.20	Fixed Income	875,000	850,935	1.294%
JNL/Neuberger Berman Gold Plus Strategy Fund	Simon Property Group, L.P.	9/1/2025	3.50	Fixed Income	1,055,000	1,050,164	1.597%
JNL/Neuberger Berman Gold Plus Strategy Fund	Pacific Gas And Electric Company	7/1/2025	3.45	Fixed Income	425,000	423,828	0.645%
JNL/Neuberger Berman Gold Plus Strategy Fund	RTX Corporation	8/16/2025	3.95	Fixed Income	602,000	602,053	0.916%
JNL/Neuberger Berman Gold Plus Strategy Fund	Oracle Corporation	11/15/2024	2.95	Fixed Income	935,000	943,074	1.434%
JNL/Neuberger Berman Gold Plus Strategy Fund	PepsCo, Inc.	2/13/2026	5.65	Fixed Income	690,000	695,007	1.057%
JNL/Neuberger Berman Gold Plus Strategy Fund	Amgen Inc.	3/2/2025	5.25	Fixed Income	776,000	780,633	1.187%
JNL/Neuberger Berman Gold Plus Strategy Fund	American Express Company	11/4/2026	5.92	Fixed Income	425,000	427,988	0.651%
JNL/Neuberger Berman Gold Plus Strategy Fund	NextEra Energy Capital Holdings, Inc.	3/1/2025	6.05	Fixed Income	500,000	504,655	0.767%
JNL/Neuberger Berman Gold Plus Strategy Fund	Pfizer Investment Enterprises Pte. Ltd	5/19/2025	4.65	Fixed Income	580,000	590,467	0.898%
JNL/Neuberger Berman Gold Plus Strategy Fund	Cligmap Inc.	3/17/2026	6.45	Fixed Income	1,195,000	1,203,404	1.830%
JNL/Neuberger Berman Gold Plus Strategy Fund	General Motors Financial Company, Inc.	10/15/2024	1.20	Fixed Income	555,000	557,103	0.847%
JNL/Neuberger Berman Gold Plus Strategy Fund	Wells Fargo Bank, National Association	12/11/2026	6.20	Fixed Income	945,000	957,893	1.457%
JNL/Neuberger Berman Gold Plus Strategy Fund	Morgan Stanley	2/18/2026	6.17	Fixed Income	1,200,000	1,215,469	1.848%
JNL/Neuberger Berman Gold Plus Strategy Fund	NextEra Energy Capital Holdings, Inc.	1/29/2026	6.04	Fixed Income	495,000	410,211	0.624%
JNL/Neuberger Berman Gold Plus Strategy Fund	PepsCo Singapore Financing I Pte. Ltd.	2/16/2027	5.79	Fixed Income	530,000	533,710	0.812%
JNL/Neuberger Berman Gold Plus Strategy Fund	Bristol-Myers Squibb Company	2/20/2026	5.72	Fixed Income	1,050,000	1,060,247	1.612%
JNL/Neuberger Berman Gold Plus Strategy Fund	Nordea Bank Abn	3/19/2027	5.73	Fixed Income	270,000	270,135	0.411%
JNL/Neuberger Berman Gold Plus Strategy Fund	Georgia Power Company	5/8/2025	6.00	Fixed Income	520,000	526,042	0.800%
JNL/Neuberger Berman Gold Plus Strategy Fund	Caterpillar Financial Services Corporation	5/14/2027	5.76	Fixed Income	715,000	719,053	1.094%
JNL/Neuberger Berman Gold Plus Strategy Fund	Morgan Stanley Bank, National Association	7/16/2025	6.07	Fixed Income	40,000	40,653	0.062%
JNL/Neuberger Berman Gold Plus Strategy Fund	Goldman Sachs Bank USA	5/21/2027	5.99	Fixed Income	1,410,000	1,417,262	2.155%
JNL/Neuberger Berman Gold Plus Strategy Fund	Treasury United States Department of	11/21/2024		Cash Equivalent	14,000,000	13,907,874	21.151%
JNL/Neuberger Berman Gold Plus Strategy Fund	Capital One Financial Corporation	2/5/2025	3.20	Fixed Income	1,058,000	1,059,797	1.612%
JNL/Neuberger Berman Gold Plus Strategy Fund	iShares Bitcoin Trust ETF			Fund	51,669	1,866,801	2.839%
JNL/Neuberger Berman Gold Plus Strategy Fund	Home Depot, Inc., The	12/24/2025	5.17	Fixed Income	695,000	697,191	1.060%
JNL/Neuberger Berman Gold Plus Strategy Fund	UnitedHealth Group Incorporated	7/15/2026	5.78	Fixed Income	763,000	773,452	1.169%
JNL/Neuberger Berman Gold Plus Strategy Fund	Toyota Motor Credit Corporation	9/7/2026	6.02	Fixed Income	600,000	608,751	0.926%
JNL/Neuberger Berman Gold Plus Strategy Fund	JPMorgan Chase & Co.	9/22/2027	5.60	Fixed Income	820,000	822,171	1.250%
JNL/Neuberger Berman Gold Plus Strategy Fund	John Deere Capital Corporation	3/6/2026	5.61	Fixed Income	690,000	691,930	1.052%
Total Non Derivatives						60,236,465	
Derivatives							
JNL/Neuberger Berman Gold Plus Strategy Fund	Gold, 100 Oz, FUTURE - PHYSICALLY DELIVERED			Derivative	204	5,197,831	7.995%
JNL/Neuberger Berman Gold Plus Strategy Fund	Palladium FUTURE - PHYSICALLY DELIVERED			Derivative	14	102,016	0.155%
JNL/Neuberger Berman Gold Plus Strategy Fund	Platinum FUTURE - PHYSICALLY DELIVERED			Derivative	28	93,439	0.142%
JNL/Neuberger Berman Gold Plus Strategy Fund	Silver FUTURE - PHYSICALLY DELIVERED			Derivative	9	126,198	0.192%
Total Derivatives						5,519,484	
Total All Investments						65,755,949	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLNeuberger Berman Strategic Income Fund	Cash			Cash Equivalent	2,221,596	2,221,596	0.299%
JNLNeuberger Berman Strategic Income Fund	Banco Do Brasil SA	1/1/2200	8.75	Fixed Income	550,000	581,252	0.076%
JNLNeuberger Berman Strategic Income Fund	Petroleos Mexicanos	1/23/2050	7.69	Fixed Income	1,250,000	990,767	0.129%
JNLNeuberger Berman Strategic Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	5,250,871	5,292,098	0.689%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	12/25/2048	4.00	Fixed Income	1,753,575	362,065	0.047%
JNLNeuberger Berman Strategic Income Fund	Molson Coors Beverage Company	7/15/2046	4.20	Fixed Income	865,000	791,224	0.103%
JNLNeuberger Berman Strategic Income Fund	State Street Corporation	3/30/2026	2.00	Fixed Income	509,809	509,809	0.066%
JNLNeuberger Berman Strategic Income Fund	NRG Energy, Inc.	2/15/2029	3.38	Fixed Income	155,000	145,197	0.019%
JNLNeuberger Berman Strategic Income Fund	Service Properties Trust	2/15/2026	5.25	Fixed Income	40,000	39,539	0.005%
JNLNeuberger Berman Strategic Income Fund	Frontier Communications Parent, Inc.	5/1/2028	5.00	Fixed Income	185,000	194,243	0.024%
JNLNeuberger Berman Strategic Income Fund	Charles Schwab Corporation, The	1/1/2020	4.00	Fixed Income	1,617,000	1,450,837	0.189%
JNLNeuberger Berman Strategic Income Fund	Community Health Systems, Inc.	3/15/2027	5.63	Fixed Income	60,000	59,161	0.008%
JNLNeuberger Berman Strategic Income Fund	Community Health Systems, Inc.	1/15/2029	6.00	Fixed Income	120,000	117,880	0.015%
JNLNeuberger Berman Strategic Income Fund	Alwan International s.s.	2/15/2027	3.88	Fixed Income	245,000	271,008	0.035%
JNLNeuberger Berman Strategic Income Fund	Teva Pharmaceutical Finance Netherlands II B.V.	10/15/2028	1.63	Fixed Income	645,000	660,003	0.086%
JNLNeuberger Berman Strategic Income Fund	Ascort Resources - Usica, LLC	12/31/2028	8.25	Fixed Income	170,000	176,415	0.023%
JNLNeuberger Berman Strategic Income Fund	NCL Corporation Ltd.	3/15/2026	5.88	Fixed Income	100,000	100,279	0.013%
JNLNeuberger Berman Strategic Income Fund	Tallgrass Energy Partners, LP	12/31/2030	6.00	Fixed Income	280,000	270,411	0.035%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo & Company	1/1/2020	3.90	Fixed Income	275,000	267,601	0.035%
JNLNeuberger Berman Strategic Income Fund	White Cap Parent, LLC	3/15/2026	6.25	Fixed Income	185,000	185,840	0.024%
JNLNeuberger Berman Strategic Income Fund	PetSmart, LLC	2/15/2028	4.75	Fixed Income	145,000	139,887	0.018%
JNLNeuberger Berman Strategic Income Fund	PetSmart, LLC	2/15/2029	7.75	Fixed Income	160,000	159,412	0.021%
JNLNeuberger Berman Strategic Income Fund	Citigroup Inc.	1/1/2020	3.88	Fixed Income	1,081,000	1,050,563	0.137%
JNLNeuberger Berman Strategic Income Fund	ONE 2021-PARK Mortgage Trust	3/15/2028	6.96	Fixed Income	990,000	934,011	0.122%
JNLNeuberger Berman Strategic Income Fund	Teva Pharmaceutical Finance Netherlands II B.V.	3/31/2027	1.88	Fixed Income	155,000	165,019	0.021%
JNLNeuberger Berman Strategic Income Fund	Forvia	6/15/2028	3.75	Fixed Income	100,000	107,864	0.014%
JNLNeuberger Berman Strategic Income Fund	ZF Friedrichshafen AG	10/23/2029	3.00	Fixed Income	1,000,000	1,020,999	0.133%
JNLNeuberger Berman Strategic Income Fund	Aberis Infrastructure Finance B.V.	1/1/2020	3.25	Fixed Income	900,000	1,007,619	0.131%
JNLNeuberger Berman Strategic Income Fund	Volkswagen International Finance N.V.	1/1/2020	3.88	Fixed Income	200,000	209,273	0.027%
JNLNeuberger Berman Strategic Income Fund	Mobico Group PLC	1/1/2020	4.25	Fixed Income	245,000	304,318	0.040%
JNLNeuberger Berman Strategic Income Fund	Loxma	7/15/2027	7.00	Fixed Income	225,000	254,844	0.033%
JNLNeuberger Berman Strategic Income Fund	Motion Bondco Designated Activity Company	11/15/2027	4.50	Fixed Income	120,000	124,442	0.016%
JNLNeuberger Berman Strategic Income Fund	Virgin Media Vendor Financing Notes II Designated Activity Company	7/15/2028	4.88	Fixed Income	805,000	1,004,490	0.131%
JNLNeuberger Berman Strategic Income Fund	Comstock Resources, Inc.	9/1/2029	6.75	Fixed Income	296,000	291,001	0.038%
JNLNeuberger Berman Strategic Income Fund	BHP Billiton	1/1/2020	4.63	Fixed Income	575,000	594,726	0.076%
JNLNeuberger Berman Strategic Income Fund	Hudbay Minerals Inc.	4/1/2026	4.50	Fixed Income	160,000	161,911	0.021%
JNLNeuberger Berman Strategic Income Fund	Country Garden Holdings Company Limited	8/6/2030	4.40	Fixed Income	365,000	26,666	0.003%
JNLNeuberger Berman Strategic Income Fund	The Republic of Indonesia, The Government of	4/15/2026	5.50	Fixed Income	1,062,000	71,267	0.009%
JNLNeuberger Berman Strategic Income Fund	Government of the Sultanate of Oman	1/25/2051	7.38	Fixed Income	470,000	531,717	0.069%
JNLNeuberger Berman Strategic Income Fund	AA Bond Co Limited	1/31/2026	6.50	Fixed Income	44,536	59,983	0.008%
JNLNeuberger Berman Strategic Income Fund	Tronox Incorporated	3/15/2029	4.63	Fixed Income	260,000	243,247	0.032%
JNLNeuberger Berman Strategic Income Fund	HSBC Holdings PLC	1/1/2020	4.00	Fixed Income	450,000	437,031	0.057%
JNLNeuberger Berman Strategic Income Fund	HSBC Holdings PLC	1/1/2020	4.70	Fixed Income	410,000	372,221	0.048%
JNLNeuberger Berman Strategic Income Fund	Metwest B.V.	10/1/2027	7.65	Fixed Income	105,000	72,433	0.009%
JNLNeuberger Berman Strategic Income Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	400,000	404,040	0.053%
JNLNeuberger Berman Strategic Income Fund	Wintershall Dea AG	1/1/2020	3.00	Fixed Income	200,000	209,738	0.027%
JNLNeuberger Berman Strategic Income Fund	Romania, Government of	2/14/2051	4.00	Fixed Income	713,000	522,568	0.068%
JNLNeuberger Berman Strategic Income Fund	Charles Schwab Corporation, The	1/1/2020	4.00	Fixed Income	925,000	889,893	0.116%
JNLNeuberger Berman Strategic Income Fund	Navient Private Education Refi Loan Trust 2021-B	6/15/2028	0.94	Fixed Income	320,153	289,876	0.038%
JNLNeuberger Berman Strategic Income Fund	Oracle Corporation	3/25/2051	3.95	Fixed Income	1,265,000	1,019,421	0.133%
JNLNeuberger Berman Strategic Income Fund	Royal Caribbean Cruises Ltd.	6/1/2028	5.50	Fixed Income	160,000	166,498	0.021%
JNLNeuberger Berman Strategic Income Fund	Midwest Gaming Borrower, LLC	5/1/2029	4.88	Fixed Income	345,000	337,719	0.044%
JNLNeuberger Berman Strategic Income Fund	JPMorgan Chase & Co.	4/22/2052	3.33	Fixed Income	740,000	582,181	0.076%
JNLNeuberger Berman Strategic Income Fund	Coly Inc.	4/15/2026	5.00	Fixed Income	220,000	224,147	0.029%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	8/1/2033	4.50	Fixed Income	55,000	47,528	0.006%
JNLNeuberger Berman Strategic Income Fund	Goldman Sachs Group, Inc., The	1/1/2020	3.80	Fixed Income	185,000	180,213	0.023%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/15/2054	5.50	Fixed Income	12,580,000	12,726,931	1.656%
JNLNeuberger Berman Strategic Income Fund	CPUK Mortgage Finance Limited	8/28/2050	6.50	Fixed Income	130,000	173,655	0.023%
JNLNeuberger Berman Strategic Income Fund	Presidencia da Republica	1/1/2031	10.00	Fixed Income	2,438,000	414,441	0.054%
JNLNeuberger Berman Strategic Income Fund	Ariston Holding S.p.A.	9/4/2028	4.00	Fixed Income	275,000	287,408	0.036%
JNLNeuberger Berman Strategic Income Fund	Verizon Communications Inc.	10/30/2056	2.99	Fixed Income	1,260,000	843,674	0.110%
JNLNeuberger Berman Strategic Income Fund	Periana Holdings, LLC	4/19/2026	5.95	Fixed Income	290,000	297,056	0.039%
JNLNeuberger Berman Strategic Income Fund	Allis LuxCo 4 S.a.r.l.	6/1/2028	4.63	Fixed Income	215,000	205,465	0.027%
JNLNeuberger Berman Strategic Income Fund	Vistra Operations Company LLC	8/1/2029	8.00	Fixed Income	85,000	83,916	0.011%
JNLNeuberger Berman Strategic Income Fund	Allied Universal Holding LLC	6/1/2029	6.00	Fixed Income	260,000	237,022	0.031%
JNLNeuberger Berman Strategic Income Fund	Frontier Communications Holdings, LLC	11/1/2029	5.88	Fixed Income	190,000	193,350	0.025%
JNLNeuberger Berman Strategic Income Fund	JPMorgan Chase & Co.	1/1/2020	3.65	Fixed Income	65,000	63,244	0.008%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	5/1/2032	4.10	Fixed Income	140,000	127,011	0.016%
JNLNeuberger Berman Strategic Income Fund	Charter Communications Operating, LLC	8/1/2052	3.90	Fixed Income	640,000	427,809	0.056%
JNLNeuberger Berman Strategic Income Fund	XHR LP	6/1/2029	4.88	Fixed Income	70,000	68,236	0.009%
JNLNeuberger Berman Strategic Income Fund	T-Mobile USA, Inc.	4/15/2050	4.50	Fixed Income	1,270,000	1,153,937	0.150%
JNLNeuberger Berman Strategic Income Fund	DT Midstream, Inc.	2/14/2051	4.13	Fixed Income	155,000	159,163	0.020%
JNLNeuberger Berman Strategic Income Fund	DT Midstream, Inc.	6/15/2031	4.38	Fixed Income	130,000	124,697	0.016%
JNLNeuberger Berman Strategic Income Fund	Ally Financial, Inc.	1/1/2020	4.70	Fixed Income	244,000	197,544	0.026%
JNLNeuberger Berman Strategic Income Fund	Bip-Chinook	6/15/2031	5.50	Fixed Income	720,000	717,457	0.093%
JNLNeuberger Berman Strategic Income Fund	Citizens Financial Group, Inc.	1/1/2020	4.10	Fixed Income	215,000	204,844	0.027%
JNLNeuberger Berman Strategic Income Fund	Capital One Financial Corporation	1/1/2020	3.95	Fixed Income	2,177,000	2,073,265	0.270%
JNLNeuberger Berman Strategic Income Fund	Battalion CLO XXI Ltd.	7/1/2034	8.86	Fixed Income	1,000,000	1,010,609	0.132%
JNLNeuberger Berman Strategic Income Fund	Ascort Resources - Usica, LLC	6/30/2029	5.88	Fixed Income	230,000	228,360	0.030%
JNLNeuberger Berman Strategic Income Fund	Sierrock Energy Andenda, LLC	6/15/2028	6.00	Fixed Income	215,000	200,965	0.026%
JNLNeuberger Berman Strategic Income Fund	Trinitas CLO Ltd.	7/20/2033	8.84	Fixed Income	1,500,000	1,511,428	0.197%
JNLNeuberger Berman Strategic Income Fund	Madison IAQ LLC	6/30/2029	5.88	Fixed Income	150,000	148,393	0.019%
JNLNeuberger Berman Strategic Income Fund	BK LC Lux Finco 1 S.a.r.l.	4/30/2029	5.25	Fixed Income	935,000	1,075,331	0.140%
JNLNeuberger Berman Strategic Income Fund	Navient Group PLC	1/1/2020	4.60	Fixed Income	935,000	786,036	0.104%
JNLNeuberger Berman Strategic Income Fund	PEKN Entertainment, Inc.	7/1/2029	4.13	Fixed Income	130,000	119,279	0.016%
JNLNeuberger Berman Strategic Income Fund	Bath & Body Works, Inc.	7/1/2036	6.75	Fixed Income	105,000	110,105	0.014%
JNLNeuberger Berman Strategic Income Fund	AmWinV Group, Inc.	6/30/2029	4.88	Fixed Income	160,000	155,553	0.020%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	2/20/2051	2.50	Fixed Income	4,275,082	638,307	0.083%
JNLNeuberger Berman Strategic Income Fund	MVC Acquisition Corp.	8/1/2028	8.00	Fixed Income	70,000	70,000	0.009%
JNLNeuberger Berman Strategic Income Fund	MVC Acquisition Corp.	8/1/2029	8.00	Fixed Income	120,000	122,997	0.016%
JNLNeuberger Berman Strategic Income Fund	Goldman Sachs Group, Inc., The	1/1/2020	3.65	Fixed Income	195,000	186,016	0.024%
JNLNeuberger Berman Strategic Income Fund	American Express Company	1/1/2020	3.55	Fixed Income	185,000	175,538	0.023%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/15/2054	2.50	Fixed Income	3,780,000	3,780,000	0.493%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/15/2054	5.00	Fixed Income	9,065,000	9,057,918	1.179%
JNLNeuberger Berman Strategic Income Fund	Barclays PLC	1/1/2020	4.38	Fixed Income	710,000	634,153	0.083%
JNLNeuberger Berman Strategic Income Fund	M&T Bank Corporation	1/1/2020	3.50	Fixed Income	1,095,000	979,095	0.127%
JNLNeuberger Berman Strategic Income Fund	Liberty Mutual Group Inc.	12/15/2051	4.13	Fixed Income	690,000	663,133	0.086%
JNLNeuberger Berman Strategic Income Fund	W. R. Grace Holdings LLC	8/15/2029	5.63	Fixed Income	195,000	184,557	0.024%
JNLNeuberger Berman Strategic Income Fund	Tallgrass Energy Partners, LP	9/1/2031	6.00	Fixed Income	15,000	14,285	0.002%
JNLNeuberger Berman Strategic Income Fund	United Parks And Resorts Inc.	8/15/2029	5.25	Fixed Income	225,000	221,013	0.029%
JNLNeuberger Berman Strategic Income Fund	ONE 2021-PARK Mortgage Trust	3/15/2026	6.75	Fixed Income	278,000	264,417	0.034%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	10/15/2054	5.00	Fixed Income	6,160,000	6,171,360	0.803%
JNLNeuberger Berman Strategic Income Fund	Nordea Bank Abp	1/1/2020	3.75	Fixed Income	1,015,000	906,504	0.118%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2043	4.00	Fixed Income	2,202,251	394,631	0.051%
JNLNeuberger Berman Strategic Income Fund	AT&T Inc.	9/15/2053	3.50	Fixed Income	2,155,000	1,587,268	0.207%
JNLNeuberger Berman Strategic Income Fund	PNC Group N.V.	1/1/2020	3.88	Fixed Income	1,045,000	666,991	0.087%
JNLNeuberger Berman Strategic Income Fund	The PNC Financial Services Group, Inc.	1/1/2020	3.40	Fixed Income	1,990,000	1,813,888	0.236%
JNLNeuberger Berman Strategic Income Fund	Caesars Entertainment, Inc.	10/15/2029	4.63	Fixed Income	45,000	43,783	0.006%
JNLNeuberger Berman Strategic Income Fund	PT Perantara (Persero)	5/30/2044	6.45	Fixed Income	260,000	291,865	0.038%
JNLNeuberger Berman Strategic Income Fund	BX Commercial Mortgage Trust 2021-VOLT	9/15/2036	4.13	Fixed Income	124,000	123,491	0.016%
JNLNeuberger Berman Strategic Income Fund	Pactiv Evergreen Group Issuer LLC	10/15/2028	4.38	Fixed Income	560,000	547,901	0.071%
JNLNeuberger Berman Strategic Income Fund	Navient Private Education Refi Loan Trust 2021-F	5/15/2029	1.11	Fixed Income	3,306,079	2,939,879	0.383%
JNLNeuberger Berman Strategic Income Fund	Olympus Water US Holding Corporation	10/1/2028	4.25	Fixed Income	155,000	151,236	0.020%
JNLNeuberger Berman Strategic Income Fund	Olympus Water US Holding Corporation	10/1/2029	6.25	Fixed Income	80,000	79,907	0.010%
JNLNeuberger Berman Strategic Income Fund	Domoch Debt Merger Subordinated Incorporated	10/15/2029	6.63	Fixed Income	45,000	39,608	0.005%
JNLNeuberger Berman Strategic Income Fund	Mozart Debt Merger Sub Inc.	4/1/2029	3.88	Fixed Income	230,000	222,200	0.029%
JNLNeuberger Berman Strategic Income Fund	Mozart Debt Merger Sub Inc.	10/1/2029	5.25	Fixed Income	345,000	347,573	0.045%
JNLNeuberger Berman Strategic Income Fund	Broadcom Inc.	11/15/2035	3.14	Fixed Income	2,580,000	2,238,385	0.291%
JNLNeuberger Berman Strategic Income Fund	BroadStreet Partners, Inc.	4/15/2029	5.88	Fixed Income	215,000	211,434	0.028%
JNLNeuberger Berman Strategic Income Fund	Iliad Holding	10/15/2028	7.00	Fixed Income	160,000	168,028	0.022%
JNLNeuberger Berman Strategic Income Fund	Carnival Corporation	5/1/2029	6.00	Fixed Income	205,000	212,577	0.028%
JNLNeuberger Berman Strategic Income Fund	Sierra TimeShare 2021-2 Receivables Funding LLC	9/20/2038	1.95	Fixed Income	186,116	176,117	0.023%
JNLNeuberger Berman Strategic Income Fund	U.S. Bancorp	1/1/2020	3.00	Fixed Income	2,340,000	2,172,014	0.283%
JNLNeuberger Berman Strategic Income Fund	Citigroup Inc.	1/1/2020	4.15	Fixed Income	935,000	901,113	0.117%
JNLNeuberger Berman Strategic Income Fund	Venus Securitization Trust 2021-6	10/25/2066	1.63	Fixed Income	3,747,414	3,260,038	0.424%
JNLNeuberger Berman Strategic Income Fund	Venus Securitization Trust 2021-6	10/25/2066	1.98	Fixed Income	1,347,550	1,184,888	0.154%
JNLNeuberger Berman Strategic Income Fund	Goldman Sachs Group, Inc., The	1/1/2020	4.13	Fixed Income	260,000	253,068	0.033%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	10/25/2041	8.68	Fixed Income	1,482,000	1,531,005	0.199%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	10/15/2054	5.50	Fixed Income	4,		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	BCP V Modular Services Finance II PLC	11/30/2028	6.13	Fixed Income	178,000	229,804	0.030%
JNLNeuberger Berman Strategic Income Fund	BCP V Modular Services Finance I PLC	11/30/2029	6.15	Fixed Income	100,000	126,867	0.013%
JNLNeuberger Berman Strategic Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/21/2052	4.40	Fixed Income	1,130,000	876,363	0.114%
JNLNeuberger Berman Strategic Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/12/2034	3.50	Fixed Income	1,130,000	969,614	0.126%
JNLNeuberger Berman Strategic Income Fund	BNP Paribas	4/11/2200	4.63	Fixed Income	965,000	921,093	0.120%
JNLNeuberger Berman Strategic Income Fund	The Republic of Indonesia, The Government of	4/15/2043	4.83	Fixed Income	495,000	493,198	0.063%
JNLNeuberger Berman Strategic Income Fund	Government of Saudi Arabia	11/17/2055	3.25	Fixed Income	440,000	307,474	0.040%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2021-R01	12/26/2041	7.18	Fixed Income	1,416,000	1,433,808	0.187%
JNLNeuberger Berman Strategic Income Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2022-GPO	1/8/2027	3.56	Fixed Income	935,000	721,928	0.094%
JNLNeuberger Berman Strategic Income Fund	MWV Holdco II LLC	9/1/2030	5.50	Fixed Income	150,000	147,055	0.019%
JNLNeuberger Berman Strategic Income Fund	Ministerial Financier Public	3/27/2032	3.63	Fixed Income	340,000	301,389	0.039%
JNLNeuberger Berman Strategic Income Fund	Community Health Systems, Inc.	5/15/2030	5.25	Fixed Income	100,000	93,984	0.012%
JNLNeuberger Berman Strategic Income Fund	Bank of America Corporation	11/1/2200	4.38	Fixed Income	1,530,000	1,486,787	0.194%
JNLNeuberger Berman Strategic Income Fund	Minerva Merger Sub Inc	2/15/2030	6.50	Fixed Income	285,000	276,345	0.036%
JNLNeuberger Berman Strategic Income Fund	Bank of America Corporation	3/40/2033	6.79	Fixed Income	785,000	707,435	0.092%
JNLNeuberger Berman Strategic Income Fund	Jaguar Land Rover Automotive PLC	10/15/2025	7.75	Fixed Income	140,000	145,096	0.019%
JNLNeuberger Berman Strategic Income Fund	RLJ II-EM Columbus Lessee, LLC	7/1/2026	3.75	Fixed Income	280,000	276,490	0.036%
JNLNeuberger Berman Strategic Income Fund	Anglia, Government of	11/26/2029	8.00	Fixed Income	335,000	313,334	0.041%
JNLNeuberger Berman Strategic Income Fund	McAfee Corp.	2/15/2030	7.38	Fixed Income	135,000	134,169	0.017%
JNLNeuberger Berman Strategic Income Fund	Vibrant Technologies Inc.	2/15/2030	9.00	Fixed Income	140,000	132,600	0.017%
JNLNeuberger Berman Strategic Income Fund	Magnetite XXV, Limited	4/15/2035	8.61	Fixed Income	5,200,000	5,316,529	0.692%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/25/2042	9.03	Fixed Income	3,799,000	3,989,186	0.519%
JNLNeuberger Berman Strategic Income Fund	TransDigm Inc.	1/15/2029	4.63	Fixed Income	55,000	53,704	0.007%
JNLNeuberger Berman Strategic Income Fund	522 Funding CLO 2019-5, Ltd.	4/16/2035	8.55	Fixed Income	2,850,000	2,818,040	0.367%
JNLNeuberger Berman Strategic Income Fund	NCL Corporation Ltd.	2/15/2027	5.88	Fixed Income	170,000	171,788	0.022%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	11/25/2051	3.50	Fixed Income	1,165,061	587,746	0.076%
JNLNeuberger Berman Strategic Income Fund	IX Commercial Mortgage Trust 2021-VOLT	9/15/2036	6.36	Fixed Income	1,749,478	1,725,471	0.226%
JNLNeuberger Berman Strategic Income Fund	Macys Retail Holdings	3/15/2030	5.88	Fixed Income	215,000	211,258	0.027%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	11/20/2051	2.50	Fixed Income	2,333,584	347,298	0.045%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	10/20/2050	2.50	Fixed Income	3,841,861	538,520	0.070%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/25/2042	10.53	Fixed Income	2,468,000	2,668,519	0.347%
JNLNeuberger Berman Strategic Income Fund	SPX Plc, Inc.	4/1/2033	8.50	Fixed Income	225,000	246,026	0.032%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2022-R03	3/25/2042	8.78	Fixed Income	3,060,000	3,221,037	0.419%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.50	Fixed Income	1,386,437	1,200,710	0.156%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2022-R04	9/25/2042	8.38	Fixed Income	2,733,000	2,848,717	0.371%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	10/1/2051	2.00	Fixed Income	5,025,169	601,273	0.078%
JNLNeuberger Berman Strategic Income Fund	FMG Resources (August 2006) Pty Ltd	4/15/2032	6.13	Fixed Income	80,000	84,082	0.011%
JNLNeuberger Berman Strategic Income Fund	BPR Trust 2022-QANA	4/15/2037	8.79	Fixed Income	1,395,579	1,402,775	0.183%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/25/2042	8.18	Fixed Income	917,000	948,654	0.123%
JNLNeuberger Berman Strategic Income Fund	Hilton Grand Vacations Trust 2022-1D	6/20/2034	3.24	Fixed Income	324,832	298,365	0.039%
JNLNeuberger Berman Strategic Income Fund	Grunenthal GmbH	11/15/2026	3.63	Fixed Income	200,000	223,425	0.029%
JNLNeuberger Berman Strategic Income Fund	Techem Verwaltungsgesellschaft 674 mbH	7/30/2026	6.00	Fixed Income	263,759	296,490	0.039%
JNLNeuberger Berman Strategic Income Fund	Verus Securitization Trust 2022-4	4/25/2067	4.74	Fixed Income	700,532	691,646	0.090%
JNLNeuberger Berman Strategic Income Fund	The Goodyear Tire & Rubber Company	5/1/2030	5.00	Fixed Income	235,000	218,156	0.028%
JNLNeuberger Berman Strategic Income Fund	Iron Mountain Information Management Services, Inc.	7/15/2032	5.00	Fixed Income	70,000	68,826	0.009%
JNLNeuberger Berman Strategic Income Fund	Vertical Midco GmbH	7/15/2027	4.38	Fixed Income	1,015,000	1,127,774	0.147%
JNLNeuberger Berman Strategic Income Fund	Chephalapharm Arzneimittel GmbH	1/15/2028	4.38	Fixed Income	100,000	109,831	0.014%
JNLNeuberger Berman Strategic Income Fund	Frontier Communications Holdings, LLC	5/1/2030	8.75	Fixed Income	75,000	82,112	0.011%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	695,485	602,318	0.078%
JNLNeuberger Berman Strategic Income Fund	Sandor-Palota	10/22/2031	3.25	Fixed Income	573,560,000	1,414,307	0.184%
JNLNeuberger Berman Strategic Income Fund	Comision De Promocion Del Pieu Para La Exportacion Y El Turismo	8/12/2037	6.90	Fixed Income	2,601,000	734,679	0.096%
JNLNeuberger Berman Strategic Income Fund	MWV 2022-1 LLC	11/21/2038	4.40	Fixed Income	580,738	570,478	0.074%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.50	Fixed Income	1,534,151	1,334,390	0.174%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.50	Fixed Income	2,240,296	1,944,387	0.253%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2052	2.50	Fixed Income	602,427	525,491	0.068%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.50	Fixed Income	782,468	677,649	0.088%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	2,259,455	1,954,665	0.254%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.50	Fixed Income	2,201,263	1,904,320	0.248%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	11/1/2051	3.00	Fixed Income	1,195,429	1,082,064	0.141%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	12/1/2051	3.00	Fixed Income	848,373	768,560	0.100%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2052	3.00	Fixed Income	1,165,019	1,057,453	0.138%
JNLNeuberger Berman Strategic Income Fund	SoFi Professional Loan Program 2020-A Trust	5/15/2046	3.12	Fixed Income	403,000	344,000	0.045%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2050	3.00	Fixed Income	1,089,727	984,257	0.128%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.50	Fixed Income	1,213,788	1,060,672	0.138%
JNLNeuberger Berman Strategic Income Fund	NGC Finance PLC	6/18/2013	5.63	Fixed Income	300,000	406,325	0.053%
JNLNeuberger Berman Strategic Income Fund	Next Group PLC	5/18/2028	3.63	Fixed Income	302,000	392,705	0.051%
JNLNeuberger Berman Strategic Income Fund	KB Home	6/15/2031	4.00	Fixed Income	55,000	51,625	0.007%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.00	Fixed Income	2,134,436	1,925,353	0.251%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2052	3.00	Fixed Income	1,156,913	1,049,918	0.137%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	1,411,851	1,231,544	0.160%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2052	3.50	Fixed Income	830,351	776,223	0.101%
JNLNeuberger Berman Strategic Income Fund	Toronto-Dominion Bank, The	6/6/2025	3.77	Fixed Income	675,000	679,639	0.088%
JNLNeuberger Berman Strategic Income Fund	Kinelek Holdings LP	6/15/2030	5.98	Fixed Income	185,000	185,000	0.024%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2051	3.50	Fixed Income	576,709	538,916	0.070%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.00	Fixed Income	337,709	304,074	0.040%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.50	Fixed Income	398,534	878,288	0.114%
JNLNeuberger Berman Strategic Income Fund	KB Home	7/15/2030	7.25	Fixed Income	75,000	79,400	0.010%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.00	Fixed Income	3,294,797	3,178,114	0.414%
JNLNeuberger Berman Strategic Income Fund	Comcast Corporation	11/1/2056	2.94	Fixed Income	970,000	647,389	0.084%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2052	4.00	Fixed Income	739,563	714,065	0.093%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2051	3.00	Fixed Income	1,242,440	1,129,276	0.147%
JNLNeuberger Berman Strategic Income Fund	i-Mobile USA, Inc.	10/15/2055	3.40	Fixed Income	2,075,000	1,563,572	0.202%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2052	3.50	Fixed Income	1,332,167	1,245,743	0.162%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.50	Fixed Income	579,770	572,291	0.074%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2052	4.50	Fixed Income	583,436	575,909	0.075%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2052	3.00	Fixed Income	875,757	1,088,453	0.141%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	3.00	Fixed Income	1,077,089	969,614	0.126%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/15/2054	4.50	Fixed Income	5,910,000	5,810,038	0.756%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.50	Fixed Income	637,778	629,551	0.082%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.50	Fixed Income	628,580	606,880	0.078%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.50	Fixed Income	629,725	588,872	0.077%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2052	3.00	Fixed Income	833,008	750,042	0.098%
JNLNeuberger Berman Strategic Income Fund	Conestoga Building Brands, Inc.	8/1/2028	8.75	Fixed Income	140,000	144,368	0.019%
JNLNeuberger Berman Strategic Income Fund	Bancijas PLC	1/1/2200	8.00	Fixed Income	880,000	828,110	0.112%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2022-R08	7/25/2042	8.88	Fixed Income	338,000	356,894	0.046%
JNLNeuberger Berman Strategic Income Fund	UBS Group AG	8/5/2027	4.70	Fixed Income	1,255,000	1,265,912	0.165%
JNLNeuberger Berman Strategic Income Fund	Bellis Finco PLC	2/16/2027	4.00	Fixed Income	150,000	188,860	0.025%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.50	Fixed Income	1,229,455	1,213,116	0.158%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/25/2042	8.83	Fixed Income	1,457,000	1,537,389	0.200%
JNLNeuberger Berman Strategic Income Fund	Sensata Technologies B.V.	9/1/2030	5.88	Fixed Income	135,000	136,271	0.018%
JNLNeuberger Berman Strategic Income Fund	Ziggo Bank Company B.V.	2/28/2030	3.38	Fixed Income	353,000	357,944	0.047%
JNLNeuberger Berman Strategic Income Fund	BKCMC Mortgage Trust 2022-C17	9/1/2025	1.22	Fixed Income	8,200,207	591,135	0.077%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	8/1/2029	6.38	Fixed Income	55,000	55,367	0.007%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.00	Fixed Income	1,839,589	1,774,442	0.231%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2052	3.00	Fixed Income	211,767	191,089	0.025%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2052	3.50	Fixed Income	1,126,580	1,053,123	0.137%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.00	Fixed Income	919,015	808,468	0.105%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2021-1 Receivables Funding LLC	11/20/2037	1.34	Fixed Income	257,828	248,594	0.032%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Bank of America Merrill Lynch Trust 2017-C33	5/1/2027	4.56	Fixed Income	652,000	592,286	0.077%
JNLNeuberger Berman Strategic Income Fund	Towit Point Mortgage Trust 2022-4	9/25/2031	3.75	Fixed Income	1,346,172	1,290,212	0.168%
JNLNeuberger Berman Strategic Income Fund	Cloud Software Group, Inc.	3/31/2029	6.50	Fixed Income	115,000	114,478	0.015%
JNLNeuberger Berman Strategic Income Fund	Aramark International Finance S a r l.	4/1/2025	3.13	Fixed Income	277,000	310,727	0.040%
JNLNeuberger Berman Strategic Income Fund	Versure Midholding AB	2/15/2029	5.25	Fixed Income	596,000	663,719	0.086%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.50	Fixed Income	782,151	740,513	0.096%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.00	Fixed Income	1,207,576	1,087,304	0.142%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.50	Fixed Income	1,086,517	1,015,690	0.132%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	822,477	828,093	0.108%
JNLNeuberger Berman Strategic Income Fund	Lloyds Banking Group PLC	1/1/2200	7.50	Fixed Income	210,000	210,961	0.027%
JNLNeuberger Berman Strategic Income Fund	Carnival Holdings (Bermuda) Limited	9/1/2028	10.38	Fixed Income	200,000	224,493	0.029%
JNLNeuberger Berman Strategic Income Fund	MetroNet Infrastructure Issuer LLC	10/20/2027	6.35	Fixed Income	1,350,020	1,389,388	0.181%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2052	3.00	Fixed Income	477,411	432,398	0.056%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2052	4.00	Fixed Income	1,029,611	994,113	0.129%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2052	3.50	Fixed Income	1,029,618	918,118	0.123%
JNLNeuberger Berman Strategic Income Fund	Shea Homes Limited Partnership, A California Limited Partnership	2/15/2028	4.75	Fixed Income	185,000	182,711	0.024%
JNLNeuberger Berman Strategic Income Fund	Neptune BioCo US Inc.	4/15/2029	9.29	Fixed Income	325,000	332,107	0.043%
JNLNeuberger Berman Strategic Income Fund	BNP Paribas	1/1/2200	9.25	Fixed Income	135,000	152,136	0.020%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2051	4.67	Fixed Income	467,701	421,915	0.055%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	893,118	899,217	0.117%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.00	Fixed Income	1,465,199</		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.50	Fixed Income	1,574,713	1,602,408	0.209%
JNLNeuberger Berman Strategic Income Fund	Corporacion De Seguros Gardia World	2/1/2022	7.75	Fixed Income	185,005	184,044	0.025%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	12/1/2052	5.50	Fixed Income	657,208	668,766	0.087%
JNLNeuberger Berman Strategic Income Fund	Electricite de France	1/1/2200	2.63	Fixed Income	800,000	840,040	0.109%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/25/2042	9.78	Fixed Income	1,265,000	1,362,042	0.177%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/25/2042	9.86	Fixed Income	3,296,000	3,466,133	0.453%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.50	Fixed Income	554,432	581,027	0.083%
JNLNeuberger Berman Strategic Income Fund	Benchmark 2020-B16 Mortgage Trust	1/1/2030	3.65	Fixed Income	391,000	316,430	0.041%
JNLNeuberger Berman Strategic Income Fund	Romania, Government of	7/25/2029	4.85	Fixed Income	3,895,000	820,910	0.107%
JNLNeuberger Berman Strategic Income Fund	Romania, Government of	9/29/2032	8.25	Fixed Income	6,075,000	1,492,279	0.194%
JNLNeuberger Berman Strategic Income Fund	The PNC Financial Services Group, Inc.	5/1/2200	5.00	Fixed Income	30,000	200,344	0.040%
JNLNeuberger Berman Strategic Income Fund	UBS Group Funding (Switzerland) AG	1/1/2200	6.88	Fixed Income	1,066,000	1,081,041	0.141%
JNLNeuberger Berman Strategic Income Fund	Government of the Sultanate of Oman	3/8/2047	6.50	Fixed Income	250,000	264,157	0.034%
JNLNeuberger Berman Strategic Income Fund	South Africa, Parliament of	9/27/2047	5.85	Fixed Income	505,000	420,728	0.055%
JNLNeuberger Berman Strategic Income Fund	Joint Stock Company National Company Kazmunaygas	4/19/2047	5.75	Fixed Income	375,000	355,573	0.046%
JNLNeuberger Berman Strategic Income Fund	Joint Stock Company National Company Kazmunaygas	10/24/2048	6.38	Fixed Income	400,000	408,763	0.053%
JNLNeuberger Berman Strategic Income Fund	CVS Health Corporation	3/25/2048	5.05	Fixed Income	920,000	840,682	0.109%
JNLNeuberger Berman Strategic Income Fund	BNP Paribas	1/1/2200	7.38	Fixed Income	117,000	119,325	0.016%
JNLNeuberger Berman Strategic Income Fund	Gobierno Del La Republica Oriental Del Uruguay	6/18/2050	5.10	Fixed Income	340,000	344,099	0.045%
JNLNeuberger Berman Strategic Income Fund	Six Flags Operations Inc.	4/15/2027	5.50	Fixed Income	25,000	25,469	0.003%
JNLNeuberger Berman Strategic Income Fund	Crown Communication Inc.	7/15/2028	4.24	Fixed Income	616,000	599,715	0.078%
JNLNeuberger Berman Strategic Income Fund	Petroleos Mexicanos	2/12/2048	6.35	Fixed Income	500,000	353,895	0.046%
JNLNeuberger Berman Strategic Income Fund	CSC Holdings, LLC	4/1/2028	7.50	Fixed Income	40,000	29,806	0.003%
JNLNeuberger Berman Strategic Income Fund	COMM 2014-UBS3 Mortgage Trust	6/12/2047	0.78	Fixed Income	890,132	4,684	0.001%
JNLNeuberger Berman Strategic Income Fund	WFRBS Commercial Mortgage Trust 2014-C21	8/16/2047	0.70	Fixed Income	418,364	1,054	0.000%
JNLNeuberger Berman Strategic Income Fund	Petroleos de Venezuela, S.A.	5/16/2025	6.00	Fixed Income	4,956,916	470,907	0.061%
JNLNeuberger Berman Strategic Income Fund	Citigroup Commercial Mortgage Trust 2014-GC25	10/1/2047	0.77	Fixed Income	1,794,987	1,816	0.000%
JNLNeuberger Berman Strategic Income Fund	COMM 2014-UBSA Mortgage Trust	12/12/2047	0.81	Fixed Income	5,407,943	6,237	0.001%
JNLNeuberger Berman Strategic Income Fund	Citigroup Commercial Mortgage Trust 2015-GC27	2/12/2048	1.39	Fixed Income	5,004,152	13,110	0.002%
JNLNeuberger Berman Strategic Income Fund	Presidencia da Republica	1/1/2025	10.00	Fixed Income	164,000	30,775	0.004%
JNLNeuberger Berman Strategic Income Fund	GS Mortgage Securities Trust 2014-GC28	1/13/2047	0.91	Fixed Income	4,389,471	6,365	0.000%
JNLNeuberger Berman Strategic Income Fund	Republica Bolivariana de Venezuela	10/1/2047	1.73	Fixed Income	1,719,000	236,823	0.031%
JNLNeuberger Berman Strategic Income Fund	GS Mortgage Securities Trust 2015-GC30	5/12/2050	0.85	Fixed Income	14,812,364	38,522	0.005%
JNLNeuberger Berman Strategic Income Fund	Eleven Madison Trust 2015-11MD Mortgage Trust	9/11/2025	3.67	Fixed Income	1,008,000	983,711	0.128%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo Commercial Mortgage Trust 2015-NX54	1/18/2025	4.83	Fixed Income	357,000	344,743	0.045%
JNLNeuberger Berman Strategic Income Fund	The Goodyear Tire & Rubber Company	5/1/2028	5.00	Fixed Income	200,000	199,588	0.026%
JNLNeuberger Berman Strategic Income Fund	Petroleos de Venezuela, S.A.	11/15/2026	6.00	Fixed Income	805,437	86,017	0.011%
JNLNeuberger Berman Strategic Income Fund	Petroleos de Venezuela, S.A.	4/12/2027	5.38	Fixed Income	477,300	45,643	0.006%
JNLNeuberger Berman Strategic Income Fund	Tallgrass Energy Partners, LP	11/15/2028	5.50	Fixed Income	260,000	254,798	0.033%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	2/1/2028	5.88	Fixed Income	130,000	127,078	0.017%
JNLNeuberger Berman Strategic Income Fund	UPCB Finance VII Limited	6/15/2029	3.63	Fixed Income	215,000	233,139	0.030%
JNLNeuberger Berman Strategic Income Fund	Presidencia da Republica	1/1/2029	10.00	Fixed Income	2,205,000	385,648	0.050%
JNLNeuberger Berman Strategic Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/29/2031	7.75	Fixed Income	22,626,800	1,097,108	0.143%
JNLNeuberger Berman Strategic Income Fund	South Africa, Parliament of	1/31/2030	8.00	Fixed Income	18,642,024	1,056,126	0.137%
JNLNeuberger Berman Strategic Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2032	6.15	Fixed Income	6,210,000	1,713,741	0.223%
JNLNeuberger Berman Strategic Income Fund	Ministerio De Hacienda Y Credito Publico	6/30/2032	7.00	Fixed Income	5,481,400,000	1,136,857	0.148%
JNLNeuberger Berman Strategic Income Fund	Structured Asset Investment Loan Trust 2005-4	6/25/2033	6.09	Fixed Income	3,507	3,509	0.000%
JNLNeuberger Berman Strategic Income Fund	South Africa, Parliament of	3/31/2032	8.25	Fixed Income	3,472,201	199,254	0.025%
JNLNeuberger Berman Strategic Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/23/2034	7.75	Fixed Income	33,008,700	1,547,590	0.201%
JNLNeuberger Berman Strategic Income Fund	South Africa, Parliament of	1/31/2037	8.50	Fixed Income	3,050,118	155,903	0.020%
JNLNeuberger Berman Strategic Income Fund	Gobierno de la Republica de Costa Rica	3/12/2045	7.16	Fixed Income	240,000	261,902	0.034%
JNLNeuberger Berman Strategic Income Fund	Presidencia de la Republica Dominicana	12/7/2045	6.85	Fixed Income	400,000	432,114	0.056%
JNLNeuberger Berman Strategic Income Fund	Kent Morgan, Inc.	6/1/2045	5.55	Fixed Income	675,000	678,807	0.088%
JNLNeuberger Berman Strategic Income Fund	Ecopetrol S.A.	5/28/2045	5.88	Fixed Income	345,000	266,423	0.035%
JNLNeuberger Berman Strategic Income Fund	Prime Security Services Borrower, LLC	4/15/2026	5.75	Fixed Income	130,000	130,987	0.017%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	8/1/2029	5.38	Fixed Income	185,000	181,507	0.024%
JNLNeuberger Berman Strategic Income Fund	Vodafone Group Public Limited Company	6/18/2048	4.88	Fixed Income	1,850,000	1,728,589	0.225%
JNLNeuberger Berman Strategic Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2034	5.40	Fixed Income	216,000	55,198	0.007%
JNLNeuberger Berman Strategic Income Fund	CSC Holdings, LLC	1/15/2030	5.75	Fixed Income	40,000	21,185	0.003%
JNLNeuberger Berman Strategic Income Fund	MCE Finance Limited	7/17/2027	5.63	Fixed Income	595,000	586,436	0.076%
JNLNeuberger Berman Strategic Income Fund	Iron Mountain Incorporated	3/15/2028	5.00	Fixed Income	200,000	199,588	0.026%
JNLNeuberger Berman Strategic Income Fund	Gobierno de la Republica del Paraguay	3/30/2050	5.40	Fixed Income	465,000	433,681	0.056%
JNLNeuberger Berman Strategic Income Fund	Trivium Packaging Finance B.V.	8/15/2026	5.50	Fixed Income	125,000	125,231	0.016%
JNLNeuberger Berman Strategic Income Fund	Trivium Packaging Finance B.V.	8/15/2027	8.50	Fixed Income	210,000	212,684	0.028%
JNLNeuberger Berman Strategic Income Fund	Sellaway Inc.	2/1/2028	5.88	Fixed Income	260,000	262,798	0.034%
JNLNeuberger Berman Strategic Income Fund	MV24 Capital B.V.	6/1/2034	6.75	Fixed Income	173,426	173,151	0.023%
JNLNeuberger Berman Strategic Income Fund	Clear Channel Outdoor Holdings, Inc.	8/15/2027	5.13	Fixed Income	270,000	272,142	0.035%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	12/25/2044	0.71	Fixed Income	1,711,370	205,158	0.027%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	12/7/2031	7.74	Fixed Income	892,251	917,189	0.119%
JNLNeuberger Berman Strategic Income Fund	ING Groep N.V.	1/1/2200	5.75	Fixed Income	846,000	864,724	0.111%
JNLNeuberger Berman Strategic Income Fund	PMG Resources (August 2006) Pty Ltd	9/15/2027	4.50	Fixed Income	85,000	83,590	0.011%
JNLNeuberger Berman Strategic Income Fund	Service Properties Trust	10/1/2026	4.75	Fixed Income	65,000	62,469	0.008%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/25/2046	0.63	Fixed Income	1,179,841	1,001,624	0.130%
JNLNeuberger Berman Strategic Income Fund	Alice France Holding S.A.	11/15/2028	5.50	Fixed Income	185,000	139,561	0.018%
JNLNeuberger Berman Strategic Income Fund	CSC Holdings, LLC	2/1/2028	5.38	Fixed Income	105,000	89,333	0.012%
JNLNeuberger Berman Strategic Income Fund	South Africa, Parliament of	9/30/2049	5.75	Fixed Income	280,000	232,444	0.030%
JNLNeuberger Berman Strategic Income Fund	Metinvest B.V.	10/1/2029	6.00	Fixed Income	565,000	1,080,680	0.060%
JNLNeuberger Berman Strategic Income Fund	Alliant Holdings Intermediate, LLC	10/15/2027	6.75	Fixed Income	175,000	179,842	0.023%
JNLNeuberger Berman Strategic Income Fund	Charter Communications Operating, LLC	3/1/2050	4.80	Fixed Income	1,610,000	1,240,159	0.161%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	3/1/2030	4.75	Fixed Income	330,000	304,484	0.040%
JNLNeuberger Berman Strategic Income Fund	Fifth Third Bancorp	1/1/2200	8.63	Fixed Income	547,000	545,939	0.071%
JNLNeuberger Berman Strategic Income Fund	Citizens Financial Group, Inc.	1/1/2200	8.58	Fixed Income	275,000	279,211	0.036%
JNLNeuberger Berman Strategic Income Fund	Huntington Bancshares Incorporated	1/1/2200	8.44	Fixed Income	504,000	512,893	0.067%
JNLNeuberger Berman Strategic Income Fund	Banco Bilbao Vizcaya Argentaria, S.A.	1/1/2200	6.50	Fixed Income	200,000	200,929	0.026%
JNLNeuberger Berman Strategic Income Fund	JPMorgan Chase & Co.	3/1/2200	8.09	Fixed Income	159,000	161,570	0.021%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/15/2045	0.69	Fixed Income	981,815	1,081,815	0.140%
JNLNeuberger Berman Strategic Income Fund	Light and Wonder International, Inc.	11/15/2029	7.25	Fixed Income	170,000	180,537	0.023%
JNLNeuberger Berman Strategic Income Fund	Emirates NBD Bank (P.J.S.C.)	1/1/2200	6.13	Fixed Income	575,000	578,945	0.075%
JNLNeuberger Berman Strategic Income Fund	Kayne CLO 5 Ltd	1/21/2033	9.54	Fixed Income	2,450,000	2,501,064	0.326%
JNLNeuberger Berman Strategic Income Fund	Intel Corporation	11/15/2048	5.17	Fixed Income	215,000	215,000	0.028%
JNLNeuberger Berman Strategic Income Fund	BX Trust 2019-OC11	12/11/2029	4.08	Fixed Income	775,000	717,427	0.093%
JNLNeuberger Berman Strategic Income Fund	Angola, Government of	5/8/2048	9.38	Fixed Income	1,065,000	929,387	0.121%
JNLNeuberger Berman Strategic Income Fund	Trust Financial Corporation	1/1/2200	8.31	Fixed Income	308,000	309,608	0.040%
JNLNeuberger Berman Strategic Income Fund	Calpine Corporation	3/15/2028	7.13	Fixed Income	70,000	69,148	0.009%
JNLNeuberger Berman Strategic Income Fund	The Arab Republic of Egypt	1/31/2047	8.50	Fixed Income	895,000	733,292	0.095%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/27/2029	1.27	Fixed Income	5,615,000	270,253	0.035%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/27/2028	1.82	Fixed Income	8,100,000	496,623	0.065%
JNLNeuberger Berman Strategic Income Fund	Geopark Limited	1/1/2027	5.50	Fixed Income	525,000	503,821	0.064%
JNLNeuberger Berman Strategic Income Fund	JPMorgan Chase & Co.	1/1/2200	4.60	Fixed Income	87,000	87,097	0.011%
JNLNeuberger Berman Strategic Income Fund	Medco Bell PTE, LTD.	1/30/2027	6.38	Fixed Income	330,000	332,451	0.043%
JNLNeuberger Berman Strategic Income Fund	Prime Security Services Borrower, LLC	1/15/2028	6.25	Fixed Income	250,000	253,346	0.033%
JNLNeuberger Berman Strategic Income Fund	Trestles CLO III Ltd	10/20/2033	8.78	Fixed Income	1,000,000	1,000,690	0.130%
JNLNeuberger Berman Strategic Income Fund	Departamento Administrativo De La Presidencia De La Republica	1/30/2030	3.00	Fixed Income	300,000	258,702	0.034%
JNLNeuberger Berman Strategic Income Fund	CSN Islands XII Corp	1/28/2028	6.75	Fixed Income	830,000	813,737	0.106%
JNLNeuberger Berman Strategic Income Fund	TPC CLO XV, Ltd.	4/20/2033	8.69	Fixed Income	500,000	509,187	0.066%
JNLNeuberger Berman Strategic Income Fund	Entbridge Pipelines (Southern Lights) L.L.C.	7/22/2030	8.29	Fixed Income	2,250,000	2,284,023	0.298%
JNLNeuberger Berman Strategic Income Fund	COMM 2013-COR4 Mortgage Trust	10/17/2045	3.25	Fixed Income	865,000	717,670	0.093%
JNLNeuberger Berman Strategic Income Fund	Grupo Aval Acciones y Valores S.A.	2/4/2030	4.38	Fixed Income	390,000	349,840	0.046%
JNLNeuberger Berman Strategic Income Fund	Sumner (BC) Holdco B S.A.r.l.	10/31/2026	5.75	Fixed Income	200,000	227,931	0.030%
JNLNeuberger Berman Strategic Income Fund	Deuler Tire, LLC	2/1/2028	8.00	Fixed Income	145,000	146,832	0.019%
JNLNeuberger Berman Strategic Income Fund	CCO Holdings, LLC	8/15/2030	4.60	Fixed Income	85,000	77,439	0.010%
JNLNeuberger Berman Strategic Income Fund	Milos CLO, Ltd.	10/21/2030	8.29	Fixed Income	1,750,000	1,781,018	0.232%
JNLNeuberger Berman Strategic Income Fund	TCIP CLO VII, Ltd.	4/15/2033	8.76	Fixed Income	1,000,000	1,019,238	0.133%
JNLNeuberger Berman Strategic Income Fund	BNP Paribas	1/1/2200	4.50	Fixed Income	155,000	134,716	0.018%
JNLNeuberger Berman Strategic Income Fund	Zayo Group Holdings, Inc.	3/1/2027	4.00	Fixed Income	110,000	98,478	0.013%
JNLNeuberger Berman Strategic Income Fund	Zayo Group Holdings, Inc.	3/1/2028	6.13	Fixed Income	75,000	62,251	0.008%
JNLNeuberger Berman Strategic Income Fund	LHMC Finco 2 S.A.R.L.	10/2/2025	7.25	Fixed Income	62,904	71,097	0.009%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/7/2028	1.71	Fixed Income	18,440,000	1,017,792	0.132%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/15/2054	4.00	Fixed Income	4,485,000	4,316,780	0.562%
JNLNeuberger Berman Strategic Income Fund	Vistra Operations Company LLC	9/1/2026	5.50	Fixed Income	30,000	30,141	0.004%
JNLNeuberger Berman Strategic Income Fund	Gobierno de la Republica del Paraguay	4/28/2031	4.95	Fixed Income	470,000	477,566	0.062%
JNLNeuberger Berman Strategic Income Fund	Genesis Energy, L.P.	2/1/2028	7.75	Fixed Income	145,000	148,671	0.019%
JNLNeuberger Berman Strategic Income Fund	Bosong Company, The	5/1/2050	5.81	Fixed Income	1,790,000	1,770,841	0.230%
JNLNeuberger Berman Strategic Income Fund	Cushman & Wakefield U.S. Borrower, LLC	5/15/2028	6.75	Fixed Income	185,000	191,470	0.025%
JNLNeuberger Berman Strategic Income Fund	JPMorgan Chase & Co.	6/1/2028	1.475	Fixed Income	1,475,000	1,409,496	0.183%
JNLNeuberger Berman Strategic Income Fund	IHO Vennwattings GmbH	5/15/2027	3.88	Fixed Income	779,000	872,109	0.114%
JNLNeuberger Berman Strategic Income Fund	Huntington Bancshares Incorporated	1/1/2200	8.44	Fixed Income	134,000	136,291	0.018%
JNLNeuberger Berman Strategic Income Fund	CSC Holdings, LLC	12/1/2030	4.13	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	Harvest Midstream L.P.	9/1/2028	7.50	Fixed Income	370,000	380,754	0.050%
JNLNeuberger Berman Strategic Income Fund	Standard Building Solutions Inc.	11/15/2031	3.38	Fixed Income	200,000	172,723	0.028%
JNLNeuberger Berman Strategic Income Fund	XHR LP	8/15/2025	6.38	Fixed Income	210,000	211,744	0.028%
JNLNeuberger Berman Strategic Income Fund	Manhattan West 2020-LMW Mortgage Trust	9/10/2027	2.41	Fixed Income	458,000	410,555	0.053%
JNLNeuberger Berman Strategic Income Fund	COMMERZBANK Aktiengesellschaft	1/1/2200	7.00	Fixed Income	200,000	206,962	0.027%
JNLNeuberger Berman Strategic Income Fund	Government of Saudi Arabia	12/1/2055	3.75	Fixed Income	335,000	348,390	0.029%
JNLNeuberger Berman Strategic Income Fund	NatWest Group PLC	11/28/2035	3.03	Fixed Income	1,260,000	1,130,889	0.147%
JNLNeuberger Berman Strategic Income Fund	Gobierno de la Republica del Ecuador	7/31/2030	6.90	Fixed Income	285,000	209,226	0.027%
JNLNeuberger Berman Strategic Income Fund	Skandinaviska Enskilda Banken AB	1/1/2200	5.13	Fixed Income	800,000	808,709	0.105%
JNLNeuberger Berman Strategic Income Fund	TAL Advantage VII LLC	9/20/2045	2.05	Fixed Income	296,700	280,453	0.037%
JNLNeuberger Berman Strategic Income Fund	Hudbay Minerals Inc.	9/1/2029	6.13	Fixed Income	70,000	69,171	0.010%
JNLNeuberger Berman Strategic Income Fund	Comerstone Building Brands, Inc.	1/15/2029	6.13	Fixed Income	75,000	67,316	0.009%
JNLNeuberger Berman Strategic Income Fund	Gobierno de la Republica del Ecuador	7/31/2035	5.50	Fixed Income	360,000	207,636	0.027%
JNLNeuberger Berman Strategic Income Fund	The Southern Company	1/15/2051	4.00	Fixed Income	1,320,000	1,310,649	0.171%
JNLNeuberger Berman Strategic Income Fund	Bath & Body Works, Inc.	10/1/2030	6.63	Fixed Income	245,000	257,747	0.034%
JNLNeuberger Berman Strategic Income Fund	Reynolds Group Issuer Inc.	10/15/2027	4.00	Fixed Income	15,000	14,713	0.002%
JNLNeuberger Berman Strategic Income Fund	The Republic of Indonesia, The Government of	2/15/2031	6.50	Fixed Income	24,969,000,000	1,671,145	0.218%
JNLNeuberger Berman Strategic Income Fund	People's Government of Inner Mongolia Autonomous Region	4/7/2026	5.13	Fixed Income	315,000	318,082	0.041%
JNLNeuberger Berman Strategic Income Fund	Corporacion Nacional del Cobre de Chile	1/1/2030	3.15	Fixed Income	805,000	747,198	0.097%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	11/1/2052	5.00	Fixed Income	891,957	896,571	0.117%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/1/2053	5.50	Fixed Income	1,155,908	1,175,876	0.153%
JNLNeuberger Berman Strategic Income Fund	Telefonica Europe B.V.	1/1/2200	7.13	Fixed Income	200,000	257,623	0.034%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2052	4.50	Fixed Income	2,482,975	2,452,272	0.319%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.50	Fixed Income	604,319	596,523	0.078%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.50	Fixed Income	1,657,573	1,636,190	0.213%
JNLNeuberger Berman Strategic Income Fund	Presidencia de la Republica Dominicana	3/3/2031	7.05	Fixed Income	315,000	344,154	0.045%
JNLNeuberger Berman Strategic Income Fund	Bayern Aktiengesellschaft	3/5/2082	5.38	Fixed Income	800,000	881,138	0.115%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Capital I Trust 2017-H1	5/17/2027	4.28	Fixed Income	387,000	345,659	0.045%
JNLNeuberger Berman Strategic Income Fund	Unitil Group Inc.	2/15/2028	10.50	Fixed Income	130,000	139,372	0.018%
JNLNeuberger Berman Strategic Income Fund	The PNC Financial Services Group, Inc.	1/1/2200	6.25	Fixed Income	465,000	473,769	0.062%
JNLNeuberger Berman Strategic Income Fund	Alliant Holdings Intermediate, LLC	4/15/2028	6.75	Fixed Income	285,000	288,446	0.038%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2023-R02	1/25/2043	8.63	Fixed Income	964,000	1,016,555	0.132%
JNLNeuberger Berman Strategic Income Fund	State Street Corporation	2/6/2026	1.75	Fixed Income	865,000	857,432	0.112%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Capital I Trust 2018-H4	12/15/2028	5.22	Fixed Income	534,000	497,038	0.065%
JNLNeuberger Berman Strategic Income Fund	Macy's Retail Holdings, LLC	12/15/2034	4.50	Fixed Income	55,000	46,838	0.006%
JNLNeuberger Berman Strategic Income Fund	CS Mortgage Securities Trust 2019-GC42	9/1/2029	6.13	Fixed Income	823,000	840,000	0.088%
JNLNeuberger Berman Strategic Income Fund	INEOS Finance PLC	5/1/2025	6.75	Fixed Income	160,000	165,887	0.022%
JNLNeuberger Berman Strategic Income Fund	TransDigm Inc.	8/15/2028	6.75	Fixed Income	185,000	192,182	0.025%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2023-R01	12/26/2042	9.03	Fixed Income	1,526,000	1,636,797	0.213%
JNLNeuberger Berman Strategic Income Fund	Mauzer Packaging Solutions Holding Company	4/15/2027	9.25	Fixed Income	460,000	491,578	0.064%
JNLNeuberger Berman Strategic Income Fund	Philip Morris International Inc.	2/15/2033	5.38	Fixed Income	1,025,000	1,077,551	0.140%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.50	Fixed Income	1,076,211	1,094,651	0.142%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.50	Fixed Income	1,035,331	1,053,216	0.137%
JNLNeuberger Berman Strategic Income Fund	Benchmark 2020-517 Mortgage Trust	3/15/2030	3.32	Fixed Income	613,000	454,213	0.058%
JNLNeuberger Berman Strategic Income Fund	Bank 2021-BNK38	12/17/2031	3.32	Fixed Income	343,000	273,471	0.036%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/1/2052	2.50	Fixed Income	1,104,418	956,471	0.124%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.50	Fixed Income	1,126,933	975,970	0.127%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.00	Fixed Income	1,874,811	1,983,975	0.258%
JNLNeuberger Berman Strategic Income Fund	Angien Inc.	3/2/2063	5.75	Fixed Income	890,000	945,323	0.123%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2052	3.00	Fixed Income	327,555	297,209	0.039%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.50	Fixed Income	1,147,304	1,132,503	0.147%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2021-2 Receivables Funding LLC	9/20/2028	5.23	Fixed Income	158,723	147,213	0.019%
JNLNeuberger Berman Strategic Income Fund	Citigroup Commercial Mortgage Trust 2017-PB	9/1/2027	4.40	Fixed Income	473,000	419,007	0.055%
JNLNeuberger Berman Strategic Income Fund	HSBC Holdings PLC	1/1/2200	8.00	Fixed Income	295,000	318,211	0.041%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	12/1/2052	4.00	Fixed Income	762,095	735,106	0.096%
JNLNeuberger Berman Strategic Income Fund	Richie Bros. Holdings Inc.	3/15/2028	6.75	Fixed Income	45,000	46,608	0.006%
JNLNeuberger Berman Strategic Income Fund	Richie Bros. Holdings Inc.	3/15/2031	7.75	Fixed Income	290,000	310,420	0.040%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	1,460,182	1,273,703	0.166%
JNLNeuberger Berman Strategic Income Fund	NRG Energy, Inc.	1/1/2200	10.25	Fixed Income	215,000	243,359	0.032%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.50	Fixed Income	1,041,453	917,795	0.127%
JNLNeuberger Berman Strategic Income Fund	Ulytics Banking Group PLC	1/1/2020	6.00	Fixed Income	640,000	698,963	0.088%
JNLNeuberger Berman Strategic Income Fund	Bank 2019-BNK17	4/17/2029	4.66	Fixed Income	455,000	393,424	0.051%
JNLNeuberger Berman Strategic Income Fund	Olympus Water US Holding Corporation	10/1/2028	3.88	Fixed Income	100,000	108,759	0.014%
JNLNeuberger Berman Strategic Income Fund	CEMEX S.A.B. de C.V.	1/1/2200	9.13	Fixed Income	340,000	379,651	0.049%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/1/2053	5.00	Fixed Income	598,699	558,699	0.072%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/1/2053	5.00	Fixed Income	1,866,767	1,874,759	0.244%
JNLNeuberger Berman Strategic Income Fund	Naviant Private Education Refi Loan Trust 2021-G	6/15/2029	1.58	Fixed Income	1,368,070	1,224,298	0.159%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.50	Fixed Income	1,515,358	508,710	0.066%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2053	5.50	Fixed Income	1,688,058	1,649,000	0.216%
JNLNeuberger Berman Strategic Income Fund	Urzad Rady Ministrow	7/25/2028	7.50	Fixed Income	1,827,000	525,161	0.068%
JNLNeuberger Berman Strategic Income Fund	Urzad Rady Ministrow	10/25/2033	6.00	Fixed Income	4,134,000	1,196,127	0.156%
JNLNeuberger Berman Strategic Income Fund	Huntington Bancshares Incorporated	1/1/2200	4.45	Fixed Income	383,000	369,392	0.048%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2023-1 Receivables Funding LLC	11/20/2043	8.00	Fixed Income	216,284	246,213	0.032%
JNLNeuberger Berman Strategic Income Fund	Odido Group Holding B.V.	1/15/2030	5.50	Fixed Income	120,000	131,825	0.017%
JNLNeuberger Berman Strategic Income Fund	Naviant Private Education Refi Loan Trust 2021-E	12/15/2028	0.97	Fixed Income	1,574,238	1,992,419	0.181%
JNLNeuberger Berman Strategic Income Fund	Level 3 Financing, Inc.	5/15/2030	10.50	Fixed Income	55,000	61,788	0.008%
JNLNeuberger Berman Strategic Income Fund	ZF North America Capital, Inc.	4/14/2028	6.98	Fixed Income	105,000	109,448	0.014%
JNLNeuberger Berman Strategic Income Fund	Cloud Software Group, Inc.	9/30/2029	9.00	Fixed Income	55,000	55,991	0.007%
JNLNeuberger Berman Strategic Income Fund	Noble Finance II LLC	4/15/2030	8.00	Fixed Income	150,000	160,322	0.021%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/1/2052	5.00	Fixed Income	1,120,852	1,126,386	0.147%
JNLNeuberger Berman Strategic Income Fund	Churchill Downs Incorporated	6/1/2053	6.75	Fixed Income	265,000	281,457	0.037%
JNLNeuberger Berman Strategic Income Fund	CynusOne Data Centers Issuer I LLC	4/20/2038	4.30	Fixed Income	657,000	657,589	0.073%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley	4/21/2034	5.25	Fixed Income	1,225,000	1,293,690	0.168%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2053	5.00	Fixed Income	893,884	897,752	0.117%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	4.00	Fixed Income	1,122,865	1,084,153	0.141%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.00	Fixed Income	981,292	977,029	0.127%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2053	5.50	Fixed Income	1,419,471	1,448,694	0.189%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2053	5.00	Fixed Income	880,874	885,829	0.115%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	10/1/2052	4.50	Fixed Income	1,815,152	1,797,408	0.234%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.00	Fixed Income	1,980,221	2,084,125	0.278%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2052	3.50	Fixed Income	1,572,729	1,470,698	0.191%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	4/20/2053	5.00	Fixed Income	256,643	258,425	0.034%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.50	Fixed Income	1,544,223	1,449,833	0.189%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2053	4.50	Fixed Income	1,565,598	1,515,218	0.197%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	6.00	Fixed Income	1,595,555	1,595,894	0.208%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.00	Fixed Income	731,488	736,954	0.096%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	6.00	Fixed Income	1,367,882	1,408,970	0.183%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	5/1/2053	5.00	Fixed Income	2,864,917	2,373,255	0.308%
JNLNeuberger Berman Strategic Income Fund	Benelux International Aktiengesellschaft	5/15/2028	10.50	Fixed Income	370,000	405,912	0.053%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2053	5.50	Fixed Income	1,534,733	1,561,245	0.203%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2053	5.50	Fixed Income	1,325,750	1,348,859	0.176%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	5.50	Fixed Income	1,381,138	1,404,478	0.184%
JNLNeuberger Berman Strategic Income Fund	Warnermedia Holdings, Inc.	3/15/2042	5.05	Fixed Income	3,970,000	3,249,329	0.423%
JNLNeuberger Berman Strategic Income Fund	HCA Inc.	6/1/2033	5.50	Fixed Income	620,000	655,203	0.085%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	6.00	Fixed Income	595,928	676,091	0.088%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	10/1/2052	5.00	Fixed Income	1,511,501	1,519,460	0.198%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2052	4.00	Fixed Income	630,014	650,689	0.085%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.50	Fixed Income	1,731,875	1,709,534	0.223%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2053	5.50	Fixed Income	718,952	733,753	0.096%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.50	Fixed Income	1,606,462	1,634,715	0.213%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2053	5.00	Fixed Income	1,850,046	1,884,991	0.243%
JNLNeuberger Berman Strategic Income Fund	EDP, S.A.	4/23/2083	5.94	Fixed Income	500,000	600,051	0.078%
JNLNeuberger Berman Strategic Income Fund	Telefonica Europe B.V.	1/1/2200	2.88	Fixed Income	200,000	214,682	0.028%
JNLNeuberger Berman Strategic Income Fund	Equipmentshare.Com Inc.	5/15/2028	9.00	Fixed Income	185,000	199,561	0.026%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.00	Fixed Income	2,979,760	2,990,794	0.389%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2053	5.00	Fixed Income	852,329	855,485	0.111%
JNLNeuberger Berman Strategic Income Fund	Citigroup Commercial Mortgage Trust	6/12/2028	6.05	Fixed Income	635,000	641,282	0.083%
JNLNeuberger Berman Strategic Income Fund	Primo Water Holdings Inc.	10/31/2028	3.88	Fixed Income	170,000	188,299	0.025%
JNLNeuberger Berman Strategic Income Fund	CS Mortgage Securities Trust 2015-GS1	11/1/2025	4.04	Fixed Income	1,367,000	1,306,864	0.170%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2053	5.50	Fixed Income	1,576,991	1,604,233	0.209%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	1,506,021	1,539,567	0.200%
JNLNeuberger Berman Strategic Income Fund	Pfizer Investment Enterprises Pte. Ltd.	5/19/2063	5.34	Fixed Income	735,000	768,789	0.100%
JNLNeuberger Berman Strategic Income Fund	ACI Bond Co PLC	11/4/2027	5.25	Fixed Income	190,000	213,453	0.027%
JNLNeuberger Berman Strategic Income Fund	Venture Global LNG, Inc.	6/1/2031	8.38	Fixed Income	200,000	216,401	0.028%
JNLNeuberger Berman Strategic Income Fund	MSWF Commercial Mortgage Trust 2023-1	5/17/2033	6.91	Fixed Income	329,000	346,209	0.045%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	424,640	436,234	0.057%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	1,151,380	1,123,000	0.145%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.50	Fixed Income	339,890	346,855	0.045%
JNLNeuberger Berman Strategic Income Fund	Diamond Escrow Issuer, LLC	11/15/2028	9.75	Fixed Income	190,000	212,166	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	Cambridge Trust Company	12/15/2037	7.94	Fixed Income	464,000	461,009	0.060%
JNLNeuberger Berman Strategic Income Fund	Peu (Fin) PLC	7/1/2028	7.25	Fixed Income	210,000	210,466	0.026%
JNLNeuberger Berman Strategic Income Fund	Civitas Resources, Inc.	7/1/2028	8.38	Fixed Income	40,000	44,105	0.006%
JNLNeuberger Berman Strategic Income Fund	Windsor Holdings II, LLC	6/15/2030	8.50	Fixed Income	300,000	328,585	0.043%
JNLNeuberger Berman Strategic Income Fund	Civitas Resources, Inc.	7/1/2031	8.75	Fixed Income	30,000	32,456	0.004%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.50	Fixed Income	1,134,837	987,071	0.128%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	6.00	Fixed Income	186,422	191,873	0.025%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.50	Fixed Income	429,757	439,571	0.057%
JNLNeuberger Berman Strategic Income Fund	Viking Cruises Limited	7/15/2031	9.13	Fixed Income	280,000	311,393	0.041%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/1/2053	5.00	Fixed Income	1,477,020	1,488,951	0.194%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	3.50	Fixed Income	1,211,133	1,197,183	0.147%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/1/2052	4.50	Fixed Income	1,119,165	1,105,567	0.144%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	3/20/2053	5.00	Fixed Income	636,584	641,005	0.083%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	6/20/2053	5.50	Fixed Income	1,102,111	1,118,720	0.146%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Capital I Trust 2017-H1	5/1/2027	4.08	Fixed Income	240,000	227,623	0.030%
JNLNeuberger Berman Strategic Income Fund	TVL Finance PLC	4/28/2028	10.25	Fixed Income	239,000	347,975	0.045%
JNLNeuberger Berman Strategic Income Fund	Benteler International Aktiengesellschaft	5/15/2028	9.38	Fixed Income	157,000	185,929	0.024%
JNLNeuberger Berman Strategic Income Fund	United Group B.V.	8/15/2028	4.63	Fixed Income	180,000	197,854	0.026%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	4/1/2053	5.00	Fixed Income	1,614,435	1,621,423	0.211%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.00	Fixed Income	1,348,692	1,355,372	0.176%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2053	6.00	Fixed Income	375,782	386,042	0.050%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.50	Fixed Income	287,391	292,131	0.038%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2023-2 Receivables Funding LLC	4/1/2024	7.30	Fixed Income	185,424	190,004	0.025%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2023-2 Receivables Funding LLC	4/20/2040	9.72	Fixed Income	313,430	327,755	0.043%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	5/1/2053	6.00	Fixed Income	1,572,106	1,618,959	0.211%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	1,517,964	1,566,619	0.204%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2053	6.00	Fixed Income	1,401,947	1,398,743	0.180%
JNLNeuberger Berman Strategic Income Fund	Guala Closures S.p.A.	6/15/2028	3.25	Fixed Income	200,000	212,558	0.028%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo & Company	1/1/2200	7.63	Fixed Income	315,000	343,893	0.045%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2053	4.00	Fixed Income	740,703	713,777	0.093%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	7/20/2053	5.50	Fixed Income	1,343,387	1,361,182	0.177%
JNLNeuberger Berman Strategic Income Fund	Cofy Inc.	7/15/2030	6.83	Fixed Income	169,000	168,478	0.022%
JNLNeuberger Berman Strategic Income Fund	Enigma Group Roi Financoco Designated Activity Company	7/31/2028	6.88	Fixed Income	207,000	241,821	0.031%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2052	3.00	Fixed Income	195,087	176,708	0.023%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2052	4.50	Fixed Income	458,190	452,565	0.059%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	5.50	Fixed Income	594,734	597,670	0.078%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	606,886	620,139	0.081%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2053	6.00	Fixed Income	530,234	544,711	0.071%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2051	2.50	Fixed Income	1,869,531	1,622,595	0.211%
JNLNeuberger Berman Strategic Income Fund	U-Harris Technologies, Inc.	7/1/2028	5.40	Fixed Income	740,000	780,623	0.102%
JNLNeuberger Berman Strategic Income Fund	Rogers Communications Inc.	3/15/2032	3.80	Fixed Income	680,000	632,773	0.082%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	1,083,256	1,115,540	0.145%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2053	6.00	Fixed Income	985,852	1,021,769	0.132%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	6.00	Fixed Income	760,278	713,904	0.093%
JNLNeuberger Berman Strategic Income Fund	Hilton USA Trust 2016-HHV	11/5/2026	4.33	Fixed Income	380,000	366,652	0.048%
JNLNeuberger Berman Strategic Income Fund	Ennergizer Gamma Acquisition B.V.	6/30/2029	3.50	Fixed Income	350,000	369,376	0.048%
JNLNeuberger Berman Strategic Income Fund	Lipoteint Health, Inc.	8/15/2030	9.88	Fixed Income	230,000	256,264	0.033%
JNLNeuberger Berman Strategic Income Fund	SES	1/1/2200	2.88	Fixed Income	200,000	211,177	0.027%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	5/20/2053	5.00	Fixed Income	863,862	869,861	0.113%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2053	5.50	Fixed Income	729,679	741,753	0.097%
JNLNeuberger Berman Strategic Income Fund	Frontier Issuer LLC	7/20/2028	6.60	Fixed Income	1,237,000	1,271,595	0.166%
JNLNeuberger Berman Strategic Income Fund	NexTier Energy Capital Holdings, Inc.	9/1/2025	5.75	Fixed Income	460,000	466,018	0.061%
JNLNeuberger Berman Strategic Income Fund	Clear Channel Outdoor Holdings, Inc.	9/15/2028	9.00	Fixed Income	90,000	96,040	0.013%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.00	Fixed Income	1,680,974	1,626,173	0.212%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.50	Fixed Income	1,580,159	1,611,851	0.210%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/1/2054	6.00	Fixed Income	1,768,590	1,786,589	0.244%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	1,047,161	1,070,497	0.139%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	279,960	284,971	0.037%
JNLNeuberger Berman Strategic Income Fund	Dana Financing Luxembourg S.a.r.l.	7/15/2031	8.50	Fixed Income	223,000	267,909	0.035%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2053	6.00	Fixed Income	938,023	963,634	0.125%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2052	4.00	Fixed Income	404,141	377,600	0.049%
JNLNeuberger Berman Strategic Income Fund	Six Flags Operations Inc.	5/15/2031	7.25	Fixed Income	345,000	366,496	0.048%
JNLNeuberger Berman Strategic Income Fund	Vodafone Group Public Limited Company	10/3/2078	4.88	Fixed Income	300,000	416,520	0.054%
JNLNeuberger Berman Strategic Income Fund	British Telecommunications Public Limited Company	12/20/2083	8.38	Fixed Income	800,000	1,221,110	0.159%
JNLNeuberger Berman Strategic Income Fund	Carvana Co.	12/1/2028	12.00	Fixed Income	40,000	42,603	0.006%
JNLNeuberger Berman Strategic Income Fund	Carvana Co.	6/1/2030	13.00	Fixed Income	75,000	82,813	0.011%
JNLNeuberger Berman Strategic Income Fund	Carvana Co.	6/1/2031	14.00	Fixed Income	70,000	83,711	0.011%
JNLNeuberger Berman Strategic Income Fund	Commonwealth Bank of Australia	9/1/2025	5.50	Fixed Income	950,000	963,021	0.125%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/1/2053	6.00	Fixed Income	1,401,177	1,401,173	0.180%
JNLNeuberger Berman Strategic Income Fund	Minerva Luxembourg S.A.	9/13/2033	8.88	Fixed Income	370,000	405,278	0.053%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	8/20/2053	5.00	Fixed Income	462,499	465,422	0.061%
JNLNeuberger Berman Strategic Income Fund	Nidda Healthcare Holding GmbH	8/21/2026	7.50	Fixed Income	216,000	255,659	0.033%
JNLNeuberger Berman Strategic Income Fund	Heimstaden Bostad AB	10/13/2031	1.63	Fixed Income	360,000	360,000	0.046%
JNLNeuberger Berman Strategic Income Fund	Motion Finco S.a.r.l.	6/15/2030	7.38	Fixed Income	100,000	114,799	0.015%
JNLNeuberger Berman Strategic Income Fund	Diamond Escrow Issuer, LLC	11/15/2028	9.63	Fixed Income	200,000	248,988	0.032%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	10/1/2053	5.50	Fixed Income	938,219	953,840	0.124%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.50	Fixed Income	591,759	601,612	0.078%
JNLNeuberger Berman Strategic Income Fund	Vistra Operations Company LLC	10/15/2031	7.75	Fixed Income	75,000	83,406	0.011%
JNLNeuberger Berman Strategic Income Fund	Banijay Entertainment	5/1/2029	7.00	Fixed Income	185,000	222,387	0.029%
JNLNeuberger Berman Strategic Income Fund	AA Bond Co Limited	1/31/2026	6.50	Fixed Income	44,536	59,983	0.008%
JNLNeuberger Berman Strategic Income Fund	Blausch + Lomb Corporation	10/1/2028	8.38	Fixed Income	115,000	121,640	0.016%
JNLNeuberger Berman Strategic Income Fund	Chephigham Arzneimittel GmbH	5/15/2033	7.50	Fixed Income	100,000	120,208	0.016%
JNLNeuberger Berman Strategic Income Fund	Star Parent, Inc.	10/1/2030	9.00	Fixed Income	160,000	179,105	0.023%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2053	5.00	Fixed Income	579,073	581,036	0.076%
JNLNeuberger Berman Strategic Income Fund	GT CR W-2 Merger Sub LLC	11/15/2031	7.50	Fixed Income	245,000	266,704	0.035%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	6.00	Fixed Income	1,653,261	1,599,896	0.208%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2053	5.50	Fixed Income	721,230	734,140	0.096%
JNLNeuberger Berman Strategic Income Fund	Constellation Energy Generation, LLC	10/1/2053	6.50	Fixed Income	345,000	410,749	0.053%
JNLNeuberger Berman Strategic Income Fund	Telecom Italia S.p.A.	7/31/2028	7.88	Fixed Income	339,000	430,213	0.056%
JNLNeuberger Berman Strategic Income Fund	Primoris Biotec PLC	10/1/2028	10.00	Fixed Income	251,000	251,131	0.032%
JNLNeuberger Berman Strategic Income Fund	Peu (Fin) PLC	7/1/2028	7.25	Fixed Income	100,000	117,841	0.015%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	969,136	1,000,411	0.130%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	1,192,158	1,218,713	0.159%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	7/20/2053	5.00	Fixed Income	379,412	382,173	0.049%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2053	6.00	Fixed Income	585,875	601,871	0.078%
JNLNeuberger Berman Strategic Income Fund	Co-operative Group Limited	7/8/2026	7.50	Fixed Income	100,000	138,283	0.018%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/1/2053	6.00	Fixed Income	383,900	394,382	0.051%
JNLNeuberger Berman Strategic Income Fund	Civitas Resources, Inc.	11/15/2030	8.00	Fixed Income	55,000	60,778	0.008%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.50	Fixed Income	1,377,329	1,291,849	0.168%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	3.50	Fixed Income	946,172	884,124	0.115%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2023-2 Receivables Funding LLC	9/20/2040	9.44	Fixed Income	615,000	642,332	0.084%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2052	4.50	Fixed Income	1,983,152	1,867,873	0.242%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	4.50	Fixed Income	1,863,402	1,839,277	0.239%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	4.00	Fixed Income	1,337,926	1,290,544	0.168%
JNLNeuberger Berman Strategic Income Fund	ORL Trust 2023-GLKS	10/21/2025	4.00	Fixed Income	931,000	938,084	0.122%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo & Company	4/22/2034	6.48	Fixed Income	800,000	1,030,801	0.134%
JNLNeuberger Berman Strategic Income Fund	The PNC Financial Services Group, Inc.	10/20/2035	6.88	Fixed Income	590,000	693,626	0.090%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2021-R03	12/25/2041	6.93	Fixed Income	498,000	502,281	0.065%
JNLNeuberger Berman Strategic Income Fund	Venture Global LNG, Inc.	2/1/2032	9.88	Fixed Income	70,000	78,935	0.010%
JNLNeuberger Berman Strategic Income Fund	Gran Tierra Energy Inc.	10/15/2029	9.50	Fixed Income	340,000	437,275	0.044%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	10/1/2053	4.00	Fixed Income	2,134,952	2,193,242	0.285%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2052	3.50	Fixed Income	311,553	291,244	0.038%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	2/20/2053	5.00	Fixed Income	405,221	408,035	0.053%
JNLNeuberger Berman Strategic Income Fund	Fox Corporation	10/13/2033	6.50	Fixed Income	895,000	1,004,641	0.131%
JNLNeuberger Berman Strategic Income Fund	Team Health Holdings, Inc.	6/30/2028	13.50	Fixed Income	175,400	204,802	0.027%
JNLNeuberger Berman Strategic Income Fund	Fifth Third Bancorp	4/25/2033	4.34	Fixed Income	710,000	696,229	0.091%
JNLNeuberger Berman Strategic Income Fund	Sandor-Palota	10/22/2028	6.75	Fixed Income	33,600,000	103,622	0.013%
JNLNeuberger Berman Strategic Income Fund	MWV 2023-2 LLC	11/20/2040	7.06	Fixed Income	386,772	399,523	0.052%
JNLNeuberger Berman Strategic Income Fund	Presidencia da Republica	12/1/2033	10.00	Fixed Income	1,000,000	1,017,539	0.013%
JNLNeuberger Berman Strategic Income Fund	Deuce Finco PLC	6/15/2027	5.50	Fixed Income	200,000	266,438	0.035%
JNLNeuberger Berman Strategic Income Fund	Stack Infrastructure Issuer, LLC	10/25/2028	5.90	Fixed Income	1,101,000	1,123,016	0.146%
JNLNeuberger Berman Strategic Income Fund	UBS Group AG	1/1/2200	9.25	Fixed Income	815,000	990,608	0.129%
JNLNeuberger Berman Strategic Income Fund	NOVA Chemicals Corporation	11/15/2028	8.50	Fixed Income	150,000	165,152	0.021%
JNLNeuberger Berman Strategic Income Fund	Service Properties Trust	11/15/2031	8.63	Fixed Income	55,000	61,600	0.008%
JNLNeuberger Berman Strategic Income Fund	TransDigm Inc.	12/1/2031	7.13	Fixed Income	60,000	64,876	0.008%
JNLNeuberger Berman Strategic Income Fund	Barclays PLC	1/1/2200	9.63	Fixed Income	645,000	729,160	0.095%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.50	Fixed Income	1,316,607	1,316,042	0.170%
JNLNeuberger Berman Strategic Income Fund	Nordea Bank Abp	9/30/2026	1.50	Fixed Income	835,000	791,517	0.103%
JNLNeuberger Berman Strategic Income Fund	Principal Life Global Funding II	11/1/2026	1.50	Fixed Income	1,020,000	973,425	0.127%
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Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	CPI Property Group	1/14/2030	1.75	Fixed Income	295,000	266,903	0.035%
JNLNeuberger Berman Strategic Income Fund	Telefonica Europe S.V.	1/1/2030	6.75	Fixed Income	300,000	280,288	0.048%
JNLNeuberger Berman Strategic Income Fund	Elecitricite de France	1/1/2020	7.50	Fixed Income	400,000	514,674	0.067%
JNLNeuberger Berman Strategic Income Fund	Food Service Project SL	1/21/2027	5.50	Fixed Income	110,000	123,637	0.016%
JNLNeuberger Berman Strategic Income Fund	AA Bond Co Limited	1/31/2028	8.45	Fixed Income	409,000	588,090	0.077%
JNLNeuberger Berman Strategic Income Fund	Cinca Finance International S.a.r.l.	7/31/2028	7.88	Fixed Income	546,000	664,000	0.086%
JNLNeuberger Berman Strategic Income Fund	Banijay Entertainment	5/1/2029	7.00	Fixed Income	300,000	360,425	0.047%
JNLNeuberger Berman Strategic Income Fund	Teva Pharmaceutical Finance Netherlands II B.V.	5/9/2030	4.38	Fixed Income	706,000	794,692	0.103%
JNLNeuberger Berman Strategic Income Fund	GTCR W-2 Merger Sub LLC	1/15/2031	8.50	Fixed Income	478,000	702,448	0.091%
JNLNeuberger Berman Strategic Income Fund	U.S. Bank National Association	8/25/2032	6.79	Fixed Income	866,859	880,736	0.115%
JNLNeuberger Berman Strategic Income Fund	Creditbida Financial, Inc.	1/15/2034	5.75	Fixed Income	740,000	778,432	0.101%
JNLNeuberger Berman Strategic Income Fund	Alliant Holdings Intermediate, LLC	1/15/2031	7.00	Fixed Income	45,000	46,920	0.006%
JNLNeuberger Berman Strategic Income Fund	Marvell Technology, Inc.	9/15/2033	5.95	Fixed Income	1,295,000	1,394,915	0.182%
JNLNeuberger Berman Strategic Income Fund	XPO, Inc.	2/1/2032	7.13	Fixed Income	180,000	191,319	0.025%
JNLNeuberger Berman Strategic Income Fund	BC Commercial Mortgage Trust 2023-XL3	12/15/2025	8.89	Fixed Income	329,201	572,781	0.043%
JNLNeuberger Berman Strategic Income Fund	MSWF Commercial Mortgage Trust 2023-2	12/16/2033	7.25	Fixed Income	200,000	248,631	0.032%
JNLNeuberger Berman Strategic Income Fund	Vodafone Group Public Limited Company	8/30/2084	6.50	Fixed Income	500,000	614,708	0.080%
JNLNeuberger Berman Strategic Income Fund	Connecticut Avenue Securities Trust 2022-R02	12/7/2042	9.78	Fixed Income	2,035,000	2,152,491	0.280%
JNLNeuberger Berman Strategic Income Fund	Vallentini AB	9/17/2083	6.88	Fixed Income	300,000	414,688	0.054%
JNLNeuberger Berman Strategic Income Fund	AushNet Services Holdings Pty Ltd	3/11/2081	1.63	Fixed Income	543,000	575,512	0.075%
JNLNeuberger Berman Strategic Income Fund	Enbridge Inc.	1/15/2084	8.25	Fixed Income	300,000	322,750	0.042%
JNLNeuberger Berman Strategic Income Fund	The Southern Company	9/15/2081	1.88	Fixed Income	536,000	549,407	0.072%
JNLNeuberger Berman Strategic Income Fund	Community Health Systems, Inc.	1/15/2032	10.88	Fixed Income	85,000	92,868	0.012%
JNLNeuberger Berman Strategic Income Fund	Benchmark 2023-B40 Mortgage Trust	12/16/2033	7.66	Fixed Income	321,000	348,008	0.045%
JNLNeuberger Berman Strategic Income Fund	Unilab-Rodacom-Westfield SE	1/1/2020	7.25	Fixed Income	300,000	386,826	0.050%
JNLNeuberger Berman Strategic Income Fund	Volkswagen International Finance N.V.	1/1/2200	3.75	Fixed Income	500,000	548,765	0.071%
JNLNeuberger Berman Strategic Income Fund	Ella Group	1/1/2030	5.95	Fixed Income	300,000	354,863	0.046%
JNLNeuberger Berman Strategic Income Fund	Stedin Holding N.V.	1/1/2020	1.50	Fixed Income	200,000	211,005	0.027%
JNLNeuberger Berman Strategic Income Fund	SSE PLC	1/1/2020	4.00	Fixed Income	400,000	451,241	0.059%
JNLNeuberger Berman Strategic Income Fund	Orsted A/S	12/8/2022	5.25	Fixed Income	607,000	721,605	0.094%
JNLNeuberger Berman Strategic Income Fund	Prestige Auto Receivables Trust 2021-1	2/15/2028	2.68	Fixed Income	1,350,000	1,286,212	0.168%
JNLNeuberger Berman Strategic Income Fund	Citigroup Commercial Mortgage Trust	5/11/2035	5.89	Fixed Income	380,014	541,649	0.049%
JNLNeuberger Berman Strategic Income Fund	J.P. Morgan Mortgage Trust 2023-HE3	6/20/2031	6.95	Fixed Income	590,196	595,176	0.077%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/1/2053	5.50	Fixed Income	1,044,527	1,061,918	0.138%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	12/1/2053	6.00	Fixed Income	2,039,686	2,094,738	0.273%
JNLNeuberger Berman Strategic Income Fund	CS Mortgage Securities Trust 2016-C52	9/24/2030	4.48	Fixed Income	540,000	594,539	0.078%
JNLNeuberger Berman Strategic Income Fund	Presidencia de la Republica de Chile	9/1/2030	4.70	Fixed Income	40,000,000	43,444	0.006%
JNLNeuberger Berman Strategic Income Fund	Enel S.p.A.	1/1/2020	6.38	Fixed Income	450,000	541,596	0.070%
JNLNeuberger Berman Strategic Income Fund	Allied Universal Holdco LLC	9/1/2028	4.88	Fixed Income	175,000	220,244	0.029%
JNLNeuberger Berman Strategic Income Fund	Avis Budget Rental Car Funding (AESOP) LLC	6/20/2025	6.48	Fixed Income	650,000	672,307	0.088%
JNLNeuberger Berman Strategic Income Fund	B&M European Value Retail S.A.	11/15/2030	8.13	Fixed Income	450,000	661,891	0.086%
JNLNeuberger Berman Strategic Income Fund	SFS Auto Receivables Securitization Trust 2024-1	12/0/2032	5.51	Fixed Income	520,000	535,648	0.070%
JNLNeuberger Berman Strategic Income Fund	Energy Transfer LP	5/15/2054	5.95	Fixed Income	1,135,000	1,189,846	0.155%
JNLNeuberger Berman Strategic Income Fund	O Park Holding I.B.V.	3/1/2023	9.13	Fixed Income	298,000	328,188	0.043%
JNLNeuberger Berman Strategic Income Fund	BP Capital Markets P.L.C.	1/1/2020	3.25	Fixed Income	700,000	776,721	0.101%
JNLNeuberger Berman Strategic Income Fund	Veolia Environnement	1/1/2020	5.99	Fixed Income	500,000	611,593	0.080%
JNLNeuberger Berman Strategic Income Fund	Santander Drive Auto Receivables Trust 2024-1	7/15/2027	5.45	Fixed Income	379,000	386,312	0.050%
JNLNeuberger Berman Strategic Income Fund	Fiber Bisco S.P.A.	1/15/2030	7.93	Fixed Income	100,000	111,801	0.015%
JNLNeuberger Berman Strategic Income Fund	Antero Midstream Partners LP	2/1/2032	6.63	Fixed Income	405,000	423,406	0.055%
JNLNeuberger Berman Strategic Income Fund	Towle Point Mortgage Trust 2024-CES1	9/25/2031	5.85	Fixed Income	1,470,913	1,490,902	0.194%
JNLNeuberger Berman Strategic Income Fund	Towle Point Mortgage Trust 2024-CES1	9/25/2031	6.05	Fixed Income	174,693	177,754	0.023%
JNLNeuberger Berman Strategic Income Fund	Apa Infrastructure Limited	1/18/2083	7.13	Fixed Income	300,000	377,101	0.049%
JNLNeuberger Berman Strategic Income Fund	CSC Holdings, LLC	11/15/2031	5.00	Fixed Income	40,000	20,453	0.003%
JNLNeuberger Berman Strategic Income Fund	Eversource Energy	1/1/2034	5.50	Fixed Income	565,000	595,188	0.077%
JNLNeuberger Berman Strategic Income Fund	BC Commercial Mortgage Trust 2024-XL4	2/1/2026	7.35	Fixed Income	409,216	410,424	0.053%
JNLNeuberger Berman Strategic Income Fund	CSC Holdings, LLC	1/31/2029	11.75	Fixed Income	175,000	172,373	0.023%
JNLNeuberger Berman Strategic Income Fund	Bank of America Corporation	12/23/2035	6.48	Fixed Income	980,000	1,040,686	0.135%
JNLNeuberger Berman Strategic Income Fund	Wand NewCo 3, Inc.	1/30/2032	7.63	Fixed Income	280,000	298,495	0.039%
JNLNeuberger Berman Strategic Income Fund	HUB International Limited	1/31/2032	7.38	Fixed Income	60,000	62,760	0.008%
JNLNeuberger Berman Strategic Income Fund	Navigant Private Education Refi Loan Trust 2019-F	9/15/2032	3.12	Fixed Income	1,225,000	1,071,960	0.140%
JNLNeuberger Berman Strategic Income Fund	Trust Financial Corporation	1/1/2030	6.38	Fixed Income	750,000	794,438	0.102%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	10/1/2053	5.50	Fixed Income	127,372	744,256	0.097%
JNLNeuberger Berman Strategic Income Fund	BX Trust	2/15/2029	7.74	Fixed Income	1,086,000	1,072,436	0.140%
JNLNeuberger Berman Strategic Income Fund	Merlin Entertainments Group U.S. Holdings Inc.	2/15/2031	7.38	Fixed Income	65,000	65,796	0.009%
JNLNeuberger Berman Strategic Income Fund	Diamondback Energy, Inc.	3/1/2030	6.25	Fixed Income	610,000	656,963	0.086%
JNLNeuberger Berman Strategic Income Fund	BMO 2024-SC3 Mortgage Trust	6/16/2029	6.56	Fixed Income	203,000	211,510	0.028%
JNLNeuberger Berman Strategic Income Fund	Avis Budget Rental Car Funding (AESOP) LLC	10/20/2026	6.55	Fixed Income	1,045,000	1,057,294	0.138%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo Commercial Mortgage Trust 2017-C39	8/1/2027	4.12	Fixed Income	601,000	553,182	0.072%
JNLNeuberger Berman Strategic Income Fund	Cresco Sociedad Corporativa	4/30/2029	10.63	Fixed Income	270,000	329,428	0.043%
JNLNeuberger Berman Strategic Income Fund	Capital One Financial Corporation	2/1/2030	5.70	Fixed Income	150,000	156,636	0.020%
JNLNeuberger Berman Strategic Income Fund	3R Lux	2/5/2031	9.75	Fixed Income	310,000	331,790	0.043%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2054	6.00	Fixed Income	770,413	796,804	0.104%
JNLNeuberger Berman Strategic Income Fund	FRANKS 2024-5VRS	2/16/2029	9.54	Fixed Income	284,000	304,648	0.040%
JNLNeuberger Berman Strategic Income Fund	FS Luxembourg S.a.r.l.	2/12/2031	8.88	Fixed Income	340,000	351,884	0.046%
JNLNeuberger Berman Strategic Income Fund	UKG Inc.	2/1/2031	6.88	Fixed Income	325,000	339,659	0.044%
JNLNeuberger Berman Strategic Income Fund	Huntington Bancshares Incorporated	2/2/2035	5.71	Fixed Income	585,000	614,764	0.080%
JNLNeuberger Berman Strategic Income Fund	INEOS Finance PLC	4/15/2029	7.50	Fixed Income	140,000	153,172	0.020%
JNLNeuberger Berman Strategic Income Fund	Allied Universal Holdco LLC	2/15/2031	7.88	Fixed Income	110,000	113,545	0.015%
JNLNeuberger Berman Strategic Income Fund	BX Trust	2/1/2026	8.03	Fixed Income	767,689	768,750	0.100%
JNLNeuberger Berman Strategic Income Fund	Champions Financing Inc.	2/15/2029	8.75	Fixed Income	280,000	288,461	0.038%
JNLNeuberger Berman Strategic Income Fund	BX Trust	2/1/2026	7.28	Fixed Income	335,587	334,577	0.044%
JNLNeuberger Berman Strategic Income Fund	AssuredPartners, Inc.	2/15/2032	7.99	Fixed Income	170,000	176,574	0.023%
JNLNeuberger Berman Strategic Income Fund	Arsenal AIC Parent LLC	10/1/2031	11.50	Fixed Income	210,000	249,436	0.032%
JNLNeuberger Berman Strategic Income Fund	GLS Auto Select Receivables Trust 2024-1	12/1/2029	5.95	Fixed Income	468,000	478,844	0.062%
JNLNeuberger Berman Strategic Income Fund	AmWINS Group, Inc.	2/15/2029	6.38	Fixed Income	60,000	61,925	0.008%
JNLNeuberger Berman Strategic Income Fund	TransDigm Inc.	3/1/2029	6.38	Fixed Income	95,000	98,483	0.013%
JNLNeuberger Berman Strategic Income Fund	TransDigm Inc.	3/1/2032	6.63	Fixed Income	190,000	199,071	0.026%
JNLNeuberger Berman Strategic Income Fund	Towle Point Mortgage Trust 2024-CES2	4/25/2031	6.20	Fixed Income	1,552,460	1,577,642	0.205%
JNLNeuberger Berman Strategic Income Fund	Ahead DR Holdings, LLC	5/1/2028	6.43	Fixed Income	205,000	204,032	0.027%
JNLNeuberger Berman Strategic Income Fund	Fastlight AB Holding	9/2/2081	2.97	Fixed Income	100,000	100,366	0.013%
JNLNeuberger Berman Strategic Income Fund	Verde Purchaser, LLC	11/30/2030	10.50	Fixed Income	230,000	257,904	0.034%
JNLNeuberger Berman Strategic Income Fund	Intel Corporation	2/21/2054	5.60	Fixed Income	585,000	573,662	0.075%
JNLNeuberger Berman Strategic Income Fund	Grace Point International Funding 2024-1, LLC	3/2/2026	8.87	Fixed Income	230,000	232,248	0.030%
JNLNeuberger Berman Strategic Income Fund	Grace Point International Funding 2024-1, LLC	3/2/2026	7.07	Fixed Income	1,365,000	1,370,128	0.178%
JNLNeuberger Berman Strategic Income Fund	Verizon Communications Inc.	2/23/2054	5.50	Fixed Income	415,000	438,031	0.057%
JNLNeuberger Berman Strategic Income Fund	HCA Inc.	4/1/2031	5.45	Fixed Income	475,000	512,801	0.067%
JNLNeuberger Berman Strategic Income Fund	Valero	4/12/2029	5.88	Fixed Income	200,000	239,402	0.031%
JNLNeuberger Berman Strategic Income Fund	Kronos International, Inc.	3/15/2029	5.50	Fixed Income	174,000	170,885	0.023%
JNLNeuberger Berman Strategic Income Fund	J.P. Morgan Mortgage Trust 2024-2	12/25/2028	6.00	Fixed Income	1,168,183	1,171,201	0.152%
JNLNeuberger Berman Strategic Income Fund	Compas Datacenters Issuer II, LLC	2/26/2029	5.75	Fixed Income	315,000	317,888	0.041%
JNLNeuberger Berman Strategic Income Fund	Compas Datacenters Issuer II, LLC	2/26/2029	7.00	Fixed Income	485,000	499,372	0.065%
JNLNeuberger Berman Strategic Income Fund	Chase Home Lending Mortgage Trust Series 2024-2	3/26/2029	6.63	Fixed Income	935,182	944,409	0.124%
JNLNeuberger Berman Strategic Income Fund	Benchmark 2020-IG2 Mortgage Trust	3/1/2025	3.63	Fixed Income	619,000	579,565	0.075%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	9/1/2053	5.50	Fixed Income	1,730,691	1,759,144	0.229%
JNLNeuberger Berman Strategic Income Fund	J.P. Morgan Mortgage Trust 2024-HE1	4/21/2031	7.35	Fixed Income	357,000	359,782	0.047%
JNLNeuberger Berman Strategic Income Fund	J.P. Morgan Mortgage Trust 2024-HE1	4/21/2031	7.75	Fixed Income	271,000	273,133	0.036%
JNLNeuberger Berman Strategic Income Fund	Great Wolf Trust 2024-WOLF	3/16/2030	7.99	Fixed Income	828,000	828,000	0.108%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2054	6.00	Fixed Income	2,551,627	2,620,496	0.341%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2054	5.50	Fixed Income	1,832,984	1,862,930	0.242%
JNLNeuberger Berman Strategic Income Fund	AON North America, Inc.	3/1/2054	5.75	Fixed Income	1,175,000	1,250,375	0.163%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2054	6.00	Fixed Income	1,961,987	1,604,145	0.209%
JNLNeuberger Berman Strategic Income Fund	AON North America, Inc.	3/1/2034	5.45	Fixed Income	685,000	720,978	0.094%
JNLNeuberger Berman Strategic Income Fund	Cleveland-Cliffs Inc.	3/15/2032	7.00	Fixed Income	100,000	101,422	0.013%
JNLNeuberger Berman Strategic Income Fund	MWV 2024-1 LLC	2/20/2043	6.20	Fixed Income	391,251	403,973	0.053%
JNLNeuberger Berman Strategic Income Fund	MWV 2024-1 LLC	2/20/2043	5.51	Fixed Income	686,834	713,376	0.093%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/1/2054	6.00	Fixed Income	2,759,456	2,833,943	0.369%
JNLNeuberger Berman Strategic Income Fund	INEOS Quattro Finance 2 plc	3/15/2029	8.50	Fixed Income	290,000	351,110	0.046%
JNLNeuberger Berman Strategic Income Fund	Naturgy Finance Iberia, S.A.	1/1/2020	2.37	Fixed Income	300,000	326,300	0.042%
JNLNeuberger Berman Strategic Income Fund	BC Commercial Mortgage Trust 2024-XL5	3/15/2026	7.79	Fixed Income	1,152,936	1,152,245	0.150%
JNLNeuberger Berman Strategic Income Fund	Cambridge Trust Company	12/15/2037	7.14	Fixed Income	848,606	850,240	0.111%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2024-1 Receivables Funding LLC	9/20/2031	8.02	Fixed Income	165,707	169,229	0.022%
JNLNeuberger Berman Strategic Income Fund	Sierra Timeshare 2024-1 Receivables Funding LLC	9/20/2031	5.94	Fixed Income	553,092	558,918	0.073%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.50	Fixed Income	840,565	846,525	0.109%
JNLNeuberger Berman Strategic Income Fund	Beazer Homes USA, Inc.	3/15/2031	5.50	Fixed Income	115,000	119,861	0.016%
JNLNeuberger Berman Strategic Income Fund	Starwood Property Trust, Inc.	4/1/2029	7.25	Fixed Income	155,000	168,309	0.022%
JNLNeuberger Berman Strategic Income Fund	CTEC II GmbH	2/15/2030	5.25	Fixed Income	250,000	259,101	0.034%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/25/2042	6.63	Fixed Income	1,869,000	1,989,112	0.259%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/25/2044	7.28	Fixed Income	1,613,000	1,622,606	0.211%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/25/2044	7.23	Fixed Income	593,000	597,111	0.078%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	Business Jet Securities 2024-1, LLC	5/15/2030	6.20	Fixed Income	816,405	847,212	0.110%
JNLNeuberger Berman Strategic Income Fund	Business Jet Securities 2024-1, LLC	5/15/2030	9.13	Fixed Income	483,837	495,187	0.064%
JNLNeuberger Berman Strategic Income Fund	Visita Operations Company LLC	4/15/2032	6.88	Fixed Income	190,000	206,156	0.027%
JNLNeuberger Berman Strategic Income Fund	One Market Plaza Trust 2017-1MKT	2/10/2032	3.61	Fixed Income	403,207	371,336	0.048%
JNLNeuberger Berman Strategic Income Fund	Hilton Grand Vacations Trust 2024-1B	9/10/2039	5.99	Fixed Income	174,632	178,918	0.023%
JNLNeuberger Berman Strategic Income Fund	Hilton Grand Vacations Trust 2024-1B	9/15/2039	5.95	Fixed Income	378,633	388,975	0.050%
JNLNeuberger Berman Strategic Income Fund	ZF North America Capital, Inc.	4/23/2030	6.75	Fixed Income	40,000	41,547	0.005%
JNLNeuberger Berman Strategic Income Fund	Softweb's Arifi Master Trust	3/22/2027	6.43	Fixed Income	1,331,000	1,354,530	0.176%
JNLNeuberger Berman Strategic Income Fund	Eurofins Scientific SE	1/1/2200	6.75	Fixed Income	235,000	279,472	0.036%
JNLNeuberger Berman Strategic Income Fund	Goldman Sachs Group, Inc. The	1/1/2200	7.50	Fixed Income	995,000	1,089,701	0.142%
JNLNeuberger Berman Strategic Income Fund	J.P. Morgan Mortgage Trust 2024-4	1/25/2029	6.10	Fixed Income	1,317,135	1,329,875	0.173%
JNLNeuberger Berman Strategic Income Fund	Level 3 Financing, Inc.	6/15/2029	4.88	Fixed Income	90,000	76,208	0.010%
JNLNeuberger Berman Strategic Income Fund	Kapla Holding	7/31/2030	6.98	Fixed Income	100,000	111,898	0.015%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley	4/19/2035	5.83	Fixed Income	550,000	605,382	0.079%
JNLNeuberger Berman Strategic Income Fund	Chase Home Lending Mortgage Trust Series 2024-4	3/25/2029	6.00	Fixed Income	1,522,548	1,532,074	0.091%
JNLNeuberger Berman Strategic Income Fund	Treasury, United States Department of	4/15/2029	2.13	Fixed Income	6,775,000	7,151,006	0.931%
JNLNeuberger Berman Strategic Income Fund	United Group B.V.	2/15/2031	6.75	Fixed Income	200,000	232,341	0.030%
JNLNeuberger Berman Strategic Income Fund	Six Flags Operations Inc.	5/1/2032	6.63	Fixed Income	60,000	63,651	0.008%
JNLNeuberger Berman Strategic Income Fund	Egihos Subco 3 S.a.r.l.	1/1/2031	7.88	Fixed Income	300,000	366,570	0.048%
JNLNeuberger Berman Strategic Income Fund	Bayview Opportunity Master Fund VII 2024-EDU1, LLC	6/25/2047	7.08	Fixed Income	309,370	310,885	0.040%
JNLNeuberger Berman Strategic Income Fund	Bayview Opportunity Master Fund VII 2024-EDU1, LLC	6/25/2047	8.10	Fixed Income	130,783	132,516	0.017%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2052	2.50	Fixed Income	375,099	324,613	0.042%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/1/2054	6.00	Fixed Income	647,174	655,955	0.087%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/1/2054	5.50	Fixed Income	1,937,629	1,969,284	0.256%
JNLNeuberger Berman Strategic Income Fund	MED Commercial Mortgage Trust 2024-MOB	4/15/2026	7.39	Fixed Income	760,000	759,418	0.099%
JNLNeuberger Berman Strategic Income Fund	House of HR Group B.V.	11/3/2029	9.00	Fixed Income	200,000	223,235	0.029%
JNLNeuberger Berman Strategic Income Fund	Forvia	1/15/2031	6.10	Fixed Income	300,000	326,514	0.043%
JNLNeuberger Berman Strategic Income Fund	Castellum Axiobolus	1/1/2200	3.13	Fixed Income	300,000	324,172	0.042%
JNLNeuberger Berman Strategic Income Fund	Hilton Grand Vacations Trust 2022-2	8/27/2029	4.74	Fixed Income	298,006	295,713	0.038%
JNLNeuberger Berman Strategic Income Fund	Charles Schwab Corporation, The	1/1/2200	5.00	Fixed Income	405,000	397,514	0.052%
JNLNeuberger Berman Strategic Income Fund	Presidencia da Republica	1/1/2035	10.00	Fixed Income	8,700,000	1,433,160	0.187%
JNLNeuberger Berman Strategic Income Fund	Foundry JV Holdco LLC	1/25/2035	5.08	Fixed Income	1,240,000	1,323,044	0.173%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/1/2054	5.50	Fixed Income	1,066,697	1,091,457	0.142%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2054	6.00	Fixed Income	679,339	704,043	0.092%
JNLNeuberger Berman Strategic Income Fund	Dominion Energy, Inc.	6/1/2054	7.00	Fixed Income	1,220,000	1,384,971	0.178%
JNLNeuberger Berman Strategic Income Fund	Genesis Energy, L.P.	5/15/2032	49.00	Fixed Income	51,300	52,988	0.007%
JNLNeuberger Berman Strategic Income Fund	Block, Inc.	5/15/2032	6.50	Fixed Income	185,000	194,488	0.025%
JNLNeuberger Berman Strategic Income Fund	Cougar JV Subsidiary, LLC	5/15/2032	8.00	Fixed Income	75,000	81,545	0.011%
JNLNeuberger Berman Strategic Income Fund	Las Vegas Sands Corp.	8/15/2034	6.20	Fixed Income	430,000	460,563	0.060%
JNLNeuberger Berman Strategic Income Fund	Trafigura Securitisation Finance Public Limited Company	5/15/2027	5.98	Fixed Income	677,000	696,974	0.091%
JNLNeuberger Berman Strategic Income Fund	Trafigura Securitisation Finance Public Limited Company	5/15/2027	7.29	Fixed Income	996,000	1,020,666	0.133%
JNLNeuberger Berman Strategic Income Fund	Cloud Software Group, Inc.	6/30/2032	8.25	Fixed Income	80,000	85,998	0.011%
JNLNeuberger Berman Strategic Income Fund	BX Commercial Mortgage Trust 2024-KING	5/15/2026	7.24	Fixed Income	826,000	821,700	0.010%
JNLNeuberger Berman Strategic Income Fund	BX Commercial Mortgage Trust 2024-KING	5/15/2026	7.78	Fixed Income	943,000	938,519	0.123%
JNLNeuberger Berman Strategic Income Fund	Cullinan Holdco SCSp	10/15/2026	4.63	Fixed Income	200,000	200,461	0.026%
JNLNeuberger Berman Strategic Income Fund	Fortress Intermediate 3 Inc.	6/1/2031	7.50	Fixed Income	305,000	330,532	0.043%
JNLNeuberger Berman Strategic Income Fund	Lifespan Health, Inc.	6/1/2032	10.00	Fixed Income	85,000	96,795	0.013%
JNLNeuberger Berman Strategic Income Fund	One Market Plaza Trust 2017-1MKT	2/10/2032	4.02	Fixed Income	449,000	393,517	0.051%
JNLNeuberger Berman Strategic Income Fund	Baldwin Insurance Group Holdings LLC	5/15/2031	7.13	Fixed Income	75,000	80,807	0.011%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	4/1/2053	5.00	Fixed Income	707,750	710,514	0.092%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	12/1/2053	5.50	Fixed Income	334,226	339,791	0.044%
JNLNeuberger Berman Strategic Income Fund	Goldstory	2/1/2030	6.75	Fixed Income	140,000	140,000	0.018%
JNLNeuberger Berman Strategic Income Fund	Lottomatica S.p.A.	6/1/2030	5.38	Fixed Income	120,186	120,186	0.027%
JNLNeuberger Berman Strategic Income Fund	Naviest Private Education Refi Loan Trust 2023-A	12/15/2034	5.66	Fixed Income	1,787,224	1,830,298	0.238%
JNLNeuberger Berman Strategic Income Fund	Beacon Container Finance II LLC	10/20/2031	2.25	Fixed Income	739,500	680,976	0.089%
JNLNeuberger Berman Strategic Income Fund	PRAC Darty	4/1/2029	6.00	Fixed Income	200,000	236,497	0.031%
JNLNeuberger Berman Strategic Income Fund	CT Investment GmbH	4/15/2030	4.38	Fixed Income	200,000	224,286	0.030%
JNLNeuberger Berman Strategic Income Fund	Progroup AG	4/15/2031	5.38	Fixed Income	200,000	222,341	0.029%
JNLNeuberger Berman Strategic Income Fund	Balboa Bay Loan Funding 2024-1 Ltd	7/20/2037	8.53	Fixed Income	3,000,000	3,079,457	0.401%
JNLNeuberger Berman Strategic Income Fund	Orsted A/S	1/1/2200	5.13	Fixed Income	100,000	117,648	0.015%
JNLNeuberger Berman Strategic Income Fund	Grifone, S.A.	11/15/2027	7.25	Fixed Income	120,000	129,888	0.017%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Capital I Trust 2021-L7	12/15/2038	6.66	Fixed Income	495,000	466,793	0.061%
JNLNeuberger Berman Strategic Income Fund	Hilton Grand Vacations Trust 2024-2	3/25/2038	5.99	Fixed Income	743,921	761,054	0.099%
JNLNeuberger Berman Strategic Income Fund	Hilton Grand Vacations Trust 2024-2	3/25/2038	6.91	Fixed Income	183,761	187,628	0.024%
JNLNeuberger Berman Strategic Income Fund	Bombardier Inc.	6/1/2032	7.00	Fixed Income	251,074	251,074	0.033%
JNLNeuberger Berman Strategic Income Fund	BPCE	5/30/2035	5.94	Fixed Income	555,000	592,212	0.077%
JNLNeuberger Berman Strategic Income Fund	ELM Trust 2024-ELM	6/11/2027	6.63	Fixed Income	900,000	925,008	0.120%
JNLNeuberger Berman Strategic Income Fund	ELM Trust 2024-ELM	6/11/2027	6.67	Fixed Income	628,000	645,924	0.084%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	2.50	Fixed Income	164,093	142,091	0.018%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.50	Fixed Income	497,649	505,935	0.066%
JNLNeuberger Berman Strategic Income Fund	Schaeffler AG	3/28/2030	4.50	Fixed Income	400,000	448,285	0.058%
JNLNeuberger Berman Strategic Income Fund	Synhemor PLC	5/2/2029	7.38	Fixed Income	300,000	358,964	0.047%
JNLNeuberger Berman Strategic Income Fund	Subway Funding LLC	2/30/2032	6.00	Fixed Income	816,000	823,060	0.107%
JNLNeuberger Berman Strategic Income Fund	Bertrand Franchise Finance	7/18/2030	6.50	Fixed Income	210,000	246,024	0.032%
JNLNeuberger Berman Strategic Income Fund	BX Trust 2024-VLT4	6/15/2026	7.99	Fixed Income	1,070,000	1,070,127	0.139%
JNLNeuberger Berman Strategic Income Fund	Fortress Transportation And Infrastructure Investors LLC	6/15/2032	7.00	Fixed Income	335,000	358,406	0.047%
JNLNeuberger Berman Strategic Income Fund	Global Atlantic Financial Company	10/15/2054	7.95	Fixed Income	685,000	731,026	0.095%
JNLNeuberger Berman Strategic Income Fund	HT Troplast GmbH	7/15/2028	9.38	Fixed Income	110,000	128,203	0.017%
JNLNeuberger Berman Strategic Income Fund	Signal Peak CLO 4, Ltd.	7/18/2037	8.42	Fixed Income	2,000,000	2,048,570	0.267%
JNLNeuberger Berman Strategic Income Fund	Heimstaden Bostad AB	1/1/2200	3.00	Fixed Income	100,000	95,471	0.012%
JNLNeuberger Berman Strategic Income Fund	A2x S.P.A.	1/1/2200	5.00	Fixed Income	300,000	340,884	0.044%
JNLNeuberger Berman Strategic Income Fund	CPI Property Group	1/15/2200	4.88	Fixed Income	200,000	206,879	0.027%
JNLNeuberger Berman Strategic Income Fund	Picard Bondco	7/1/2027	5.38	Fixed Income	100,000	111,035	0.014%
JNLNeuberger Berman Strategic Income Fund	Acruise, LLC	6/15/2029	8.50	Fixed Income	130,000	139,031	0.018%
JNLNeuberger Berman Strategic Income Fund	ESR Group Limited	5/24/2030	1.38	Fixed Income	230,000	219,714	0.029%
JNLNeuberger Berman Strategic Income Fund	Acruise, LLC	11/6/2033	7.50	Fixed Income	130,000	139,031	0.018%
JNLNeuberger Berman Strategic Income Fund	Frontier Issuer LLC	5/20/2031	7.02	Fixed Income	738,000	773,380	0.101%
JNLNeuberger Berman Strategic Income Fund	Olympus Trust US Holding Corporation	6/15/2031	7.25	Fixed Income	55,000	58,345	0.008%
JNLNeuberger Berman Strategic Income Fund	Wangler Holdco Corp.	4/1/2032	6.63	Fixed Income	290,000	307,277	0.040%
JNLNeuberger Berman Strategic Income Fund	Howard Midstream Energy Partners, LLC	7/15/2032	7.38	Fixed Income	130,000	137,063	0.018%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	5/1/2054	6.00	Fixed Income	761,724	782,283	0.102%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo Commercial Mortgage Securities, Inc.	7/15/2027	6.71	Fixed Income	454,000	461,203	0.060%
JNLNeuberger Berman Strategic Income Fund	Wells Fargo Commercial Mortgage Securities, Inc.	7/15/2027	6.23	Fixed Income	579,000	587,223	0.076%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2054	4.50	Fixed Income	1,423,617	1,448,617	0.188%
JNLNeuberger Berman Strategic Income Fund	Aly Bank	2/15/2028	6.02	Fixed Income	261,531	265,775	0.035%
JNLNeuberger Berman Strategic Income Fund	Aly Bank	2/15/2028	7.92	Fixed Income	261,531	267,486	0.035%
JNLNeuberger Berman Strategic Income Fund	Aly Bank	2/15/2028	6.32	Fixed Income	261,531	265,649	0.035%
JNLNeuberger Berman Strategic Income Fund	Crescent Energy Finance LLC	7/15/2033	7.38	Fixed Income	75,000	79,063	0.010%
JNLNeuberger Berman Strategic Income Fund	Huntington National Bank, The	2/20/2028	6.15	Fixed Income	1,246,038	1,266,748	0.165%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/1/2052	3.00	Fixed Income	851,864	768,418	0.100%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	3/1/2054	6.50	Fixed Income	663,568	688,466	0.090%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2054	7.00	Fixed Income	1,086,912	1,086,912	0.139%
JNLNeuberger Berman Strategic Income Fund	HPFS Equipment Trust 2024-2	4/20/2032	6.82	Fixed Income	886,000	907,660	0.118%
JNLNeuberger Berman Strategic Income Fund	EMRLD Borrower LP	7/15/2031	6.75	Fixed Income	60,000	63,541	0.008%
JNLNeuberger Berman Strategic Income Fund	ELPI Graduate Loan Program 2024-A LLC	8/25/2049	5.56	Fixed Income	769,796	790,398	0.103%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	2.50	Fixed Income	1,113,575	980,501	0.128%
JNLNeuberger Berman Strategic Income Fund	American Electric Power Company, Inc.	12/15/2054	7.13	Fixed Income	1,040,000	1,115,328	0.145%
JNLNeuberger Berman Strategic Income Fund	Neopharmed Gentil S.P.A.	4/8/2030	7.13	Fixed Income	300,000	357,726	0.046%
JNLNeuberger Berman Strategic Income Fund	Masterbrand, Inc.	7/15/2032	7.00	Fixed Income	115,000	122,820	0.016%
JNLNeuberger Berman Strategic Income Fund	CPI Property Group	5/12/2030	2.75	Fixed Income	200,000	216,494	0.028%
JNLNeuberger Berman Strategic Income Fund	Bella Acquisition Company PLC	5/14/2030	6.13	Fixed Income	300,000	409,858	0.053%
JNLNeuberger Berman Strategic Income Fund	Tenet Healthcare Corporation	5/15/2031	6.75	Fixed Income	45,000	48,087	0.006%
JNLNeuberger Berman Strategic Income Fund	Northriver Midstream Finance LP	7/15/2032	6.75	Fixed Income	55,000	57,768	0.008%
JNLNeuberger Berman Strategic Income Fund	Vale Overseas Ltd	6/28/2054	6.40	Fixed Income	160,000	171,284	0.022%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2054	6.50	Fixed Income	249,461	256,763	0.034%
JNLNeuberger Berman Strategic Income Fund	Concentra Escrow Issuer Corporation	7/15/2032	6.88	Fixed Income	30,000	32,045	0.004%
JNLNeuberger Berman Strategic Income Fund	Imperial Brands Finance PLC	7/1/2034	5.88	Fixed Income	1,440,000	1,517,301	0.197%
JNLNeuberger Berman Strategic Income Fund	Bangkok Bank Public Company Limited	7/15/2034	5.65	Fixed Income	190,000	202,286	0.026%
JNLNeuberger Berman Strategic Income Fund	Turkiye Vakiflar Bankasi T.A.O.	10/5/2034	8.99	Fixed Income	300,000	320,160	0.042%
JNLNeuberger Berman Strategic Income Fund	Picard Group	7/1/2029	6.38	Fixed Income	100,000	115,589	0.015%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2054	6.00	Fixed Income	744,339	764,429	0.099%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	6/1/2054	5.50	Fixed Income	739,172	753,027	0.098%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	2/1/2054	5.50	Fixed Income	1,109,635	1,147,648	0.146%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.96	Fixed Income	228,946	196,331	0.026%
JNLNeuberger Berman Strategic Income Fund	Ginnie Mae II	9/20/2053	5.00	Fixed Income	311,140	311,204	0.041%
JNLNeuberger Berman Strategic Income Fund	ONNI Commercial Mortgage Trust 2024-APT	7/20/2029	6.64	Fixed Income	1,053,000	1,079,695	0.141%
JNLNeuberger Berman Strategic Income Fund	Optics Holdco S.r.l.	7/3/2028	7.98	Fixed Income	680,000	673,711	0.087%
JNLNeuberger Berman Strategic Income Fund	Optics BdcCo S.p.A.	2/15/2028	6.88	Fixed Income	100,000	122,032	0.016%
JNLNeuberger Berman Strategic Income Fund	Benchmark 2024-V8 Mortgage Trust	7/15/2029	7.18	Fixed Income	1,088,000	1,162,137	0.151%
JNLNeuberger Berman Strategic Income Fund	Amber FinCo PLC	7/15/2029	6.6				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLNeuberger Berman Strategic Income Fund	COMM 2024-277P Mortgage Trust	08/6/2029	7.23	Fixed Income	1,000,000	1,061,025	0.138%
JNLNeuberger Berman Strategic Income Fund	Consellium SE	1/15/2032	5.38	Fixed Income	145,000	150,170	0.020%
JNLNeuberger Berman Strategic Income Fund	Treasury, United States Department of	7/15/2034	1.88	Fixed Income	7,000,000	7,217,985	0.939%
JNLNeuberger Berman Strategic Income Fund	Electricite de France	1/1/2200	3.38	Fixed Income	400,000	405,164	0.053%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	7/1/2051	2.50	Fixed Income	342,743	298,114	0.039%
JNLNeuberger Berman Strategic Income Fund	Nationstar Mortgage Holdings Inc.	8/1/2029	6.50	Fixed Income	410,000	421,554	0.056%
JNLNeuberger Berman Strategic Income Fund	Royal Caribbean Cruises Ltd.	2/1/2033	6.00	Fixed Income	145,000	149,633	0.020%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Residential Mortgage Loan Trust 202	9/25/2029	6.00	Fixed Income	1,192,480	1,206,060	0.157%
JNLNeuberger Berman Strategic Income Fund	Amerium Escrow Corp.	8/1/2032	7.25	Fixed Income	60,000	63,184	0.008%
JNLNeuberger Berman Strategic Income Fund	LHCME Mortgage Trust 2024-RTL4	1/25/2027	5.92	Fixed Income	1,690,000	1,710,483	0.223%
JNLNeuberger Berman Strategic Income Fund	Crockett Partners Equipment Company IA LLC	12/20/2030	6.78	Fixed Income	266,667	269,714	0.035%
JNLNeuberger Berman Strategic Income Fund	Crockett Partners Equipment Company IA LLC	1/20/2030	6.05	Fixed Income	761,212	771,931	0.100%
JNLNeuberger Berman Strategic Income Fund	McGraw-Hill Education, Inc.	9/1/2031	7.38	Fixed Income	35,000	36,704	0.005%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	11/1/2053	5.50	Fixed Income	1,022,785	1,042,307	0.136%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	7/10/2054	5.50	Fixed Income	1,375,153	1,405,714	0.183%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	9/1/2053	6.00	Fixed Income	663,140	681,245	0.089%
JNLNeuberger Berman Strategic Income Fund	Vodafone Group Public Limited Company	6/28/2054	5.75	Fixed Income	555,000	583,587	0.076%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	1/1/2054	6.00	Fixed Income	1,380,229	1,417,482	0.184%
JNLNeuberger Berman Strategic Income Fund	CCG Receivables Trust 2024-1	4/14/2028	5.80	Fixed Income	560,000	564,395	0.073%
JNLNeuberger Berman Strategic Income Fund	CCG Receivables Trust 2024-1	4/14/2028	5.22	Fixed Income	362,000	364,842	0.047%
JNLNeuberger Berman Strategic Income Fund	Lightning Power LLC	8/15/2032	7.25	Fixed Income	380,000	402,440	0.052%
JNLNeuberger Berman Strategic Income Fund	BAMLL Trust 2024-BHP	8/17/2026	8.25	Fixed Income	1,000,000	1,006,164	0.131%
JNLNeuberger Berman Strategic Income Fund	IELO-WEN Holding, Inc.	9/1/2032	7.00	Fixed Income	155,000	157,807	0.021%
JNLNeuberger Berman Strategic Income Fund	Nationwide Building Society	10/18/2032	4.13	Fixed Income	835,000	826,637	0.108%
JNLNeuberger Berman Strategic Income Fund	Post Holdings, Inc.	3/1/2033	6.38	Fixed Income	255,000	261,010	0.034%
JNLNeuberger Berman Strategic Income Fund	Presidencia da Republica	3/15/2034	6.13	Fixed Income	525,000	536,921	0.070%
JNLNeuberger Berman Strategic Income Fund	Gobierno de la Republica de Guatemala	2/6/2037	6.15	Fixed Income	135,000	141,498	0.018%
JNLNeuberger Berman Strategic Income Fund	Global Aviation Leasing Co., Ltd.	9/1/2027	8.75	Fixed Income	80,000	81,668	0.011%
JNLNeuberger Berman Strategic Income Fund	Hillenbrand, Inc.	3/1/2031	3.75	Fixed Income	50,000	44,893	0.006%
JNLNeuberger Berman Strategic Income Fund	CDW Finance Corporation	8/22/2034	5.55	Fixed Income	550,000	564,652	0.073%
JNLNeuberger Berman Strategic Income Fund	Arcoisa, Inc.	8/15/2032	6.88	Fixed Income	50,000	52,559	0.007%
JNLNeuberger Berman Strategic Income Fund	Archrock Partners, L.P.	3/1/2032	6.63	Fixed Income	130,000	134,297	0.017%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2053	5.50	Fixed Income	1,943,119	1,976,989	0.257%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	8/1/2054	6.00	Fixed Income	284,816	292,503	0.038%
JNLNeuberger Berman Strategic Income Fund	Ministerio De Hacienda Y Credito Publico	10/18/2034	7.25	Fixed Income	420,300,000	89,396	0.012%
JNLNeuberger Berman Strategic Income Fund	Midcontinent Communities	8/1/2035	8.40	Fixed Income	95,000	93,600	0.012%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	2/1/2052	2.50	Fixed Income	622,541	538,562	0.070%
JNLNeuberger Berman Strategic Income Fund	OneMain Finance Corporation	11/15/2031	7.13	Fixed Income	150,000	153,108	0.020%
JNLNeuberger Berman Strategic Income Fund	The Republic of Indonesia, The Government of	2/15/2034	6.63	Fixed Income	3,760,000,000	252,487	0.033%
JNLNeuberger Berman Strategic Income Fund	Sandoz Patia	6/22/2032	6.88	Fixed Income	130,470,000	266,598	0.034%
JNLNeuberger Berman Strategic Income Fund	Romania, Government of	7/31/2034	7.10	Fixed Income	120,000	27,969	0.004%
JNLNeuberger Berman Strategic Income Fund	Nautilus Power, LLC	11/16/2026	10.85	Fixed Income	225,227	224,506	0.029%
JNLNeuberger Berman Strategic Income Fund	Devon Energy Corporation	9/15/2054	5.75	Fixed Income	1,095,000	1,073,218	0.140%
JNLNeuberger Berman Strategic Income Fund	Duke Energy Corporation	8/1/2035	6.40	Fixed Income	575,000	575,000	0.074%
JNLNeuberger Berman Strategic Income Fund	Eleven Madison Trust 2015-11MD Mortgage Trust	9/11/2025	3.67	Fixed Income	264,000	246,549	0.032%
JNLNeuberger Berman Strategic Income Fund	XP Inc.	7/2/2029	6.75	Fixed Income	280,000	292,014	0.038%
JNLNeuberger Berman Strategic Income Fund	Ambipar Lux S a r.l.	2/6/2031	9.88	Fixed Income	170,000	178,804	0.023%
JNLNeuberger Berman Strategic Income Fund	Gminia Mie 1	11/29/2053	5.00	Fixed Income	278,263	278,376	0.036%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2030		Fixed Income	29,640	12,968	0.002%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2034	1.75	Fixed Income	81,391	36,251	0.005%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2034		Fixed Income	110,760	36,828	0.005%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2035		Fixed Income	93,600	49,600	0.006%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2036		Fixed Income	78,700	33,735	0.004%
JNLNeuberger Berman Strategic Income Fund	1211 Avenue of The Americas	8/10/2025	4.23	Fixed Income	912,000	894,389	0.116%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2035	1.75	Fixed Income	189,913	83,161	0.011%
JNLNeuberger Berman Strategic Income Fund	Petrolina Global Finance B.V.	11/1/2035	6.00	Fixed Income	170,000	168,850	0.022%
JNLNeuberger Berman Strategic Income Fund	Cabinet of Ministers of Ukraine	2/1/2036		Fixed Income	271,300	118,297	0.015%
JNLNeuberger Berman Strategic Income Fund	Uber Technologies, Inc.	9/15/2054	5.35	Fixed Income	1,450,000	1,441,984	0.188%
JNLNeuberger Berman Strategic Income Fund	Semptra	10/1/2054	6.40	Fixed Income	540,000	544,141	0.071%
JNLNeuberger Berman Strategic Income Fund	Performance Food Group, Inc.	9/15/2032	6.13	Fixed Income	160,000	164,453	0.021%
JNLNeuberger Berman Strategic Income Fund	Deutsche Bank Aktiengesellschaft	8/20/2053	6.50	Fixed Income	1,085,000	1,098,723	0.143%
JNLNeuberger Berman Strategic Income Fund	Caldereys Financing, LLC	6/1/2028	11.75	Fixed Income	80,000	83,200	0.011%
JNLNeuberger Berman Strategic Income Fund	Assemblin Caverion Group AB	7/1/2030	6.25	Fixed Income	300,000	347,127	0.045%
JNLNeuberger Berman Strategic Income Fund	The Manulife Company, Inc.	10/1/2031	9.25	Fixed Income	100,000	102,812	0.013%
JNLNeuberger Berman Strategic Income Fund	Ryan Specialty, LLC	8/1/2032	5.88	Fixed Income	80,000	81,465	0.011%
JNLNeuberger Berman Strategic Income Fund	Avient Corporation	11/1/2031	6.25	Fixed Income	110,000	113,009	0.015%
JNLNeuberger Berman Strategic Income Fund	Sociedad Quimica Y Minera De Chile S.A.	9/10/2034	5.50	Fixed Income	170,000	170,415	0.022%
JNLNeuberger Berman Strategic Income Fund	Caldereys Financing, LLC	6/1/2028	11.25	Fixed Income	50,000	55,615	0.007%
JNLNeuberger Berman Strategic Income Fund	Business Jet Securities 2024-2, LLC	9/15/2030	5.75	Fixed Income	465,000	471,049	0.061%
JNLNeuberger Berman Strategic Income Fund	Foundation Finance Trust 2024-2	3/15/2050	6.59	Fixed Income	562,000	568,304	0.074%
JNLNeuberger Berman Strategic Income Fund	Foundation Finance Trust 2024-2	3/15/2050	4.93	Fixed Income	200,000	200,743	0.026%
JNLNeuberger Berman Strategic Income Fund	Provident Funding Mortgage Loan Trust 2005-1	9/15/2029	9.75	Fixed Income	70,000	71,585	0.009%
JNLNeuberger Berman Strategic Income Fund	Intel Corporation	8/5/2052	4.90	Fixed Income	220,000	220,971	0.028%
JNLNeuberger Berman Strategic Income Fund	Belden Inc.	3/15/2028	3.88	Fixed Income	200,000	220,255	0.029%
JNLNeuberger Berman Strategic Income Fund	Verus Securitization Trust 2024-7	9/25/2069	5.40	Fixed Income	712,000	717,600	0.093%
JNLNeuberger Berman Strategic Income Fund	Verus Securitization Trust 2024-7	9/25/2069	5.91	Fixed Income	1,023,000	1,031,490	0.134%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	8/1/2054	6.50	Fixed Income	260,500	267,623	0.034%
JNLNeuberger Berman Strategic Income Fund	Alliant Holdings Intermediate, LLC	10/1/2031	6.50	Fixed Income	50,000	50,693	0.007%
JNLNeuberger Berman Strategic Income Fund	Alliant Holdings Intermediate, LLC	10/1/2032	7.38	Fixed Income	15,000	15,256	0.002%
JNLNeuberger Berman Strategic Income Fund	Hewlett Packard Enterprise Company	10/15/2034	5.00	Fixed Income	530,000	524,682	0.068%
JNLNeuberger Berman Strategic Income Fund	Federal Home Loan Mortgage Corporation	1/1/2054	6.00	Fixed Income	105,630	109,693	0.014%
JNLNeuberger Berman Strategic Income Fund	Unifield B.V.	7/2/2029	6.88	Fixed Income	100,000	112,675	0.015%
JNLNeuberger Berman Strategic Income Fund	PLT VII Finance S a r.l.	6/15/2031	6.00	Fixed Income	200,000	234,913	0.031%
JNLNeuberger Berman Strategic Income Fund	Royal Caribbean Cruises Ltd.	9/30/2031	5.63	Fixed Income	85,000	86,164	0.011%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/25/2053	6.28	Fixed Income	1,481,376	1,478,055	0.192%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	8/20/2053	6.50	Fixed Income	1,378,068	1,378,068	0.179%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	6/20/2054	6.35	Fixed Income	1,456,714	1,456,211	0.190%
JNLNeuberger Berman Strategic Income Fund	Government National Mortgage Association	4/20/2054	6.50	Fixed Income	1,042,216	1,045,038	0.136%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	3/25/2054	6.38	Fixed Income	1,457,779	1,460,283	0.190%
JNLNeuberger Berman Strategic Income Fund	New Residential Mortgage Loan Trust 2024-RTL2	9/25/2039	5.44	Fixed Income	1,807,000	1,808,129	0.236%
JNLNeuberger Berman Strategic Income Fund	Alpha Generation LLC	10/15/2032	6.75	Fixed Income	185,000	187,800	0.024%
JNLNeuberger Berman Strategic Income Fund	Goldman Sachs Group, Inc., The	1/1/2200	6.13	Fixed Income	570,000	573,959	0.075%
JNLNeuberger Berman Strategic Income Fund	Pebblebrook Hotel Trust	10/15/2029	6.38	Fixed Income	30,000	30,230	0.004%
JNLNeuberger Berman Strategic Income Fund	Arena Luxembourg Finance S a r.l.	2/1/2028	1.88	Fixed Income	180,000	187,938	0.024%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Residential Mortgage Loan Trust 202	7/25/2069	5.61	Fixed Income	316,000	317,001	0.041%
JNLNeuberger Berman Strategic Income Fund	Morgan Stanley Residential Mortgage Loan Trust 202	7/25/2069	5.40	Fixed Income	543,000	545,122	0.071%
JNLNeuberger Berman Strategic Income Fund	Circa Finance International S a r.l.	3/15/2029	6.50	Fixed Income	195,000	233,067	0.030%
JNLNeuberger Berman Strategic Income Fund	Air France - KLM	5/23/2029	4.63	Fixed Income	300,000	344,180	0.045%
JNLNeuberger Berman Strategic Income Fund	Flutter Treasury Designated Activity Company	4/29/2029	5.00	Fixed Income	285,000	333,282	0.043%
JNLNeuberger Berman Strategic Income Fund	Geconomy AG	7/15/2029	6.25	Fixed Income	320,000	359,655	0.047%
JNLNeuberger Berman Strategic Income Fund	Oracle Group PLC	8/8/2029	10.50	Fixed Income	110,000	147,495	0.019%
JNLNeuberger Berman Strategic Income Fund	SE Semiconductor Industries N.V.	1/15/2031	4.50	Fixed Income	145,000	146,687	0.019%
JNLNeuberger Berman Strategic Income Fund	Rav Financing LLC	7/15/2031	6.50	Fixed Income	180,000	207,762	0.027%
JNLNeuberger Berman Strategic Income Fund	Rakuten Group, Inc.	1/1/2200	4.25	Fixed Income	200,000	194,526	0.025%
JNLNeuberger Berman Strategic Income Fund	MWV 2024-2 LLC	3/20/2042	4.58	Fixed Income	1,105,000	1,103,212	0.144%
JNLNeuberger Berman Strategic Income Fund	MWV 2024-2 LLC	3/20/2042	4.92	Fixed Income	700,000	699,260	0.091%
JNLNeuberger Berman Strategic Income Fund	Walgreens Boots Alliance, Inc.	11/20/2036	2.13	Fixed Income	385,000	388,145	0.051%
JNLNeuberger Berman Strategic Income Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.00	Fixed Income	109,000	98,425	0.013%
JNLNeuberger Berman Strategic Income Fund	OSB 2024-Ngm14 Trust	9/25/2028	5.58	Fixed Income	715,000	718,498	0.094%
JNLNeuberger Berman Strategic Income Fund	888 Acquisitions Limited	5/15/2030	10.75	Fixed Income	100,000	141,380	0.018%
JNLNeuberger Berman Strategic Income Fund	Post Holdings, Inc.	10/15/2034	6.25	Fixed Income	155,434	155,434	0.020%
JNLNeuberger Berman Strategic Income Fund	Windstream Services, LLC	10/1/2031	8.25	Fixed Income	60,000	61,109	0.008%
JNLNeuberger Berman Strategic Income Fund	EFMT 2024-INV2	9/25/2028	5.73	Fixed Income	495,000	494,997	0.064%
JNLNeuberger Berman Strategic Income Fund	Fashion Show Mall LLC	10/10/2029		Fixed Income	396,000	393,719	0.051%
JNLNeuberger Berman Strategic Income Fund	Fashion Show Mall LLC	10/10/2029		Fixed Income	470,000	476,330	0.062%
JNLNeuberger Berman Strategic Income Fund	Sixth Street CLO XV Ltd	10/24/2037		Fixed Income	500,000	500,000	0.065%
JNLNeuberger Berman Strategic Income Fund	Cabinet Office, Government of Japan	6/20/2054	4.20	Fixed Income	237,000,000	1,687,453	0.220%
JNLNeuberger Berman Strategic Income Fund	Lumen Technologies Inc.	4/15/2029	4.13	Fixed Income	50,000	42,003	0.005%
						768,387,858	
Derivatives							
JNLNeuberger Berman Strategic Income Fund	Bought BRL / Sold USD			Derivative		12,785	0.002%
JNLNeuberger Berman Strategic Income Fund	Bought BRL / Sold USD			Derivative		34,097	0.004%
JNLNeuberger Berman Strategic Income Fund	Bought BRL / Sold USD			Derivative		2,875	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought BRL / Sold USD			Derivative		(444)	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought CLP / Sold USD			Derivative		2,679	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought CLP / Sold USD			Derivative		(1,387)	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought CNT / Sold USD			Derivative		1,704	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought COP / Sold USD			Derivative		(353)	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought EUR / Sold RON			Derivative		(87)	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought EUR / Sold HUF			Derivative		829	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought EUR / Sold HUF			Derivative		171	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought EUR / Sold HUF			Derivative		1,308	0.000%
JNLNeuberger Berman Strategic Income Fund	Bought EUR / Sold CZK			Derivative		1,387</	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments	
JNLNeuberger Berman Strategic Income Fund	Bought EUR / Sold USD			Derivative		(24,304)	-0.03%	
JNLNeuberger Berman Strategic Income Fund	Bought GBP / Sold USD			Derivative		(10,445)	-0.01%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold USD			Derivative		(8,467)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold USD			Derivative		518	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold EUR			Derivative		691	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold EUR			Derivative		(1,268)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold EUR			Derivative		218	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold EUR			Derivative		(566)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought HUF / Sold USD			Derivative		(119)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought IDR / Sold USD			Derivative		6,947	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought IDR / Sold USD			Derivative		(491)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought INR / Sold USD			Derivative		219	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought INR / Sold USD			Derivative		(413)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought JPY / Sold USD			Derivative		20,402	0.003%	
JNLNeuberger Berman Strategic Income Fund	Bought JPY / Sold USD			Derivative		(62)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought KRW / Sold USD			Derivative		5,265	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought KRW / Sold USD			Derivative		2,677	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(47,327)	-0.06%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(7,449)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(10,007)	-0.01%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(8,041)	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(8,432)	-0.01%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(2,055)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		253	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(141)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(167)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(79,094)	-0.01%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(51,513)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MXN / Sold USD			Derivative		(13,075)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought MYR / Sold USD			Derivative		3,950	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought MYR / Sold USD			Derivative		(1)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought PEN / Sold USD			Derivative		523	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought PEN / Sold USD			Derivative		1,544	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought PHP / Sold USD			Derivative		(830)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought PLN / Sold EUR			Derivative		83	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought PLN / Sold EUR			Derivative		277	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		336	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		77	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		103	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		103	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		213	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		159	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		213	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		391	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought RON / Sold EUR			Derivative		322	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought SGD / Sold EUR			Derivative		3,574	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought THB / Sold USD			Derivative		510	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought TRY / Sold USD			Derivative		52,707	0.007%	
JNLNeuberger Berman Strategic Income Fund	Bought TRY / Sold USD			Derivative		(6,053)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought TRY / Sold USD			Derivative		6,577	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought TRY / Sold USD			Derivative		7,143	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought TRY / Sold USD			Derivative		3,647	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought TRY / Sold USD			Derivative		952	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought TWD / Sold USD			Derivative		5,657	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought TWD / Sold USD			Derivative		5,956	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought TWD / Sold USD			Derivative		418	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought TWD / Sold USD			Derivative		2,119	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold TRY			Derivative		(1,766)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold TWD			Derivative		(5,386)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		(120,654)	-0.01%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold GBP			Derivative		(142,426)	-0.19%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(101,023)	-0.13%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold JPY			Derivative		(1,929)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(437,311)	-0.57%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold TWD			Derivative		(6,034)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold GBP			Derivative		(157,627)	-0.21%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		3,606	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(2,860)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		13,574	0.002%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		12,893	0.002%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		16,216	0.002%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		(6,663)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(6,665)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		3,951	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold PEN			Derivative		(304)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold BRL			Derivative		(3,837)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		1,883	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold TRY			Derivative		(1,772)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(318)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(228)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(104,351)	-0.14%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold CLP			Derivative		(7,379)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold HUF			Derivative		1,328	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		(1,483)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		(2,980)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(174)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(35)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold CNY			Derivative		(8,165)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(956)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		4,277	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold ZAR			Derivative		(8,655)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold ZAR			Derivative		(8,864)	-0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold KRW			Derivative		(2,921)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(3)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		620	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		0	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		3,583	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		78	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold COP			Derivative		3,847	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		628	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold BRL			Derivative		(626)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold COP			Derivative		293	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		455	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold GBP			Derivative		300	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		(13,610)	0.002%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold ZAR			Derivative		438	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		2,022	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		108	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		486	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold JPY			Derivative		9,888	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		5,337	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold MXN			Derivative		3,311	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold GBP			Derivative		8,438	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold JPY			Derivative		57	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold HUF			Derivative		16	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold GBP			Derivative		10,405	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought USD / Sold EUR			Derivative		25,411	0.003%	
JNLNeuberger Berman Strategic Income Fund	Bought ZAR / Sold USD			Derivative		12,596	0.002%	
JNLNeuberger Berman Strategic Income Fund	Bought ZAR / Sold USD			Derivative		8,529	0.001%	
JNLNeuberger Berman Strategic Income Fund	Bought ZAR / Sold USD			Derivative		(18)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought ZAR / Sold USD			Derivative		(1)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bought ZAR / Sold USD			Derivative		(413)	0.000%	
JNLNeuberger Berman Strategic Income Fund	Bank of Canada Overnight Repo Rate EXCHANGE CLEARED IRS			Derivative	2,986,000	(23,587)	-0.003%	
JNLNeuberger Berman Strategic Income Fund	Bank of Canada Overnight Repo Rate EXCHANGE CLEARED IRS			Derivative	2,976,000	(36,002)	-0.005%	
JNLNeuberger Berman Strategic Income Fund	Box Liquid Investment Grade Index TOTAL RETURN SWAP - INDEX			Derivative		57,877	0.001%	
JNLNeuberger Berman Strategic Income Fund	3 Month CORRA FUTURE - CASH SETTLED			Derivative		-163	-0.001%	
JNLNeuberger Berman Strategic Income Fund	3 Month CORRA FUTURE - CASH SETTLED			Derivative		-39	7	0.000%
JNLNeuberger Berman Strategic Income Fund	Euro Schmitz FUTURE - PHYSICALLY DELIVERED			Derivative		103	62,399	0.008%
JNLNeuberger Berman Strategic Income Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative		-46	2	0.000%
JNLNeuberger Berman Strategic Income Fund	Long Gilt FUTURE - PHYSICALLY DELIVERED			Derivative		-29	(13,768)	-0.002%
JNLNeuberger Berman Strategic Income Fund	Italy Government BTP Bond FUTURE - PHYSICALLY DELIVERED			Derivative		7	19,653	0.003%
JNLNeuberger Berman Strategic Income Fund	Euro OAT FUTURE - PHYSICALLY DELIVERED			Derivative		-2	(1,480)	0.000%
JNLNeuberger Berman Strategic Income Fund	Euro BOBL FUTURE - PHYSICALLY DELIVERED			Derivative		9	25,483	0.003%
JNLNeuberger Berman Strategic Income Fund	Euro Bund FUTURE - PHYSICALLY DELIVERED			Derivative		-5	(10,527)	-0.001%
JNLNeuberger Berman Strategic Income Fund	3 Month SONIA Index FUTURE - CASH SETTLED			Derivative		88	28,703	0.004%
JNLNeuberger Berman Strategic Income Fund	3 Month SONIA Index FUTURE - CASH SETTLED			Derivative		45	(13,018)	-0.002%
JNLNeuberger Berman Strategic Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative		-72	(7,684)	0.001%
JNLNeuberger Berman Strategic Income Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative		-24	10,121	0.001%
JNLNeuberger Berman Strategic Income Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative		348	(92,919)	-0.012%
JNLNeuberger Berman Strategic Income Fund	Euro Bund 30 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative		-1	(3,004)	0.000%
JNLNeuberger Berman Strategic Income Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative		-72	28,854	0.003%
JNLNeuberger Berman Strategic Income Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative		113	26,661	0.003%
JNLNeuberger Berman Strategic Income Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative		-271	586,190	0.076%
Total Derivatives						75,802		
Total All Investments						768,512,984		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Newton Equity Income Fund	Cash			Cash Equivalent	426,886	426,886	0.016%
JNL/Newton Equity Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	75,179,540	75,457,776	2.910%
JNL/Newton Equity Income Fund	Constellation Energy Group, Inc.			Equity	184,891	48,075,358	1.854%
JNL/Newton Equity Income Fund	FedEx Corporation			Equity	123,033	33,841,457	1.305%
JNL/Newton Equity Income Fund	International Business Machines Corporation			Equity	140,466	31,054,002	1.188%
JNL/Newton Equity Income Fund	Baxter International Inc.			Equity	822,594	31,472,446	1.214%
JNL/Newton Equity Income Fund	Berkshire Hathaway Inc.			Equity	214,898	98,908,953	3.815%
JNL/Newton Equity Income Fund	Best Buy Co., Inc.			Equity	157,046	16,370,475	0.631%
JNL/Newton Equity Income Fund	CRH Public Limited Company			Equity	490,667	45,504,458	1.755%
JNL/Newton Equity Income Fund	Bristol-Myers Squibb Company			Equity	589,882	30,520,495	1.177%
JNL/Newton Equity Income Fund	American International Group, Inc.			Equity	308,371	22,582,008	0.871%
JNL/Newton Equity Income Fund	Applied Materials, Inc.			Equity	187,542	37,892,861	1.461%
JNL/Newton Equity Income Fund	Alistair Corporation, The			Equity	311,965	59,451,170	2.293%
JNL/Newton Equity Income Fund	Amgen Inc.			Equity	37,450	12,066,765	0.465%
JNL/Newton Equity Income Fund	AMETEK, Inc.			Equity	150,287	25,805,781	0.995%
JNL/Newton Equity Income Fund	Becton, Dickinson and Company			Equity	244,830	59,028,513	2.277%
JNL/Newton Equity Income Fund	Crown Holdings, Inc.			Equity	196,151	18,806,958	0.729%
JNL/Newton Equity Income Fund	Cisco Systems, Inc.			Equity	1,795,861	95,575,122	3.688%
JNL/Newton Equity Income Fund	First Horizon Corporation			Equity	1,797,058	28,244,583	1.089%
JNL/Newton Equity Income Fund	Freeport-McMoRan Inc.			Equity	742,243	37,052,771	1.429%
JNL/Newton Equity Income Fund	Assurant, Inc.			Equity	202,317	40,232,759	1.552%
JNL/Newton Equity Income Fund	JPMorgan Chase & Co.			Equity	315,242	66,471,928	2.564%
JNL/Newton Equity Income Fund	Danaher Corporation			Equity	204,902	57,022,178	2.199%
JNL/Newton Equity Income Fund	Omnicom Group Inc.			Equity	378,392	39,386,823	1.519%
JNL/Newton Equity Income Fund	EQT Corporation			Equity	1,113,275	40,790,396	1.573%
JNL/Newton Equity Income Fund	International Paper Company			Equity	1,044,584	51,037,278	1.968%
JNL/Newton Equity Income Fund	Citigroup Inc.			Equity	248,207	15,537,758	0.599%
JNL/Newton Equity Income Fund	Bank of America Corporation			Equity	1,224,796	48,599,905	1.874%
JNL/Newton Equity Income Fund	U.S. Bancorp			Equity	1,155,305	53,322,951	2.057%
JNL/Newton Equity Income Fund	The PNC Financial Services Group, Inc.			Equity	66,006	12,670,909	0.485%
JNL/Newton Equity Income Fund	Newmont Corporation			Equity	838,123	44,797,874	1.728%
JNL/Newton Equity Income Fund	ConocoPhillips			Equity	540,185	56,870,677	2.193%
JNL/Newton Equity Income Fund	Dominion Energy, Inc.			Equity	556,940	32,185,563	1.241%
JNL/Newton Equity Income Fund	Goldman Sachs Group, Inc., The			Equity	117,635	58,242,265	2.246%
JNL/Newton Equity Income Fund	RenaissanceRe Holdings Ltd			Equity	124,548	33,626,875	1.308%
JNL/Newton Equity Income Fund	3M Company			Equity	150,462	20,568,155	0.793%
JNL/Newton Equity Income Fund	Capital One Financial Corporation			Equity	87,035	13,031,751	0.503%
JNL/Newton Equity Income Fund	UnitedHealth Group Incorporated			Equity	99,022	58,422,395	2.253%
JNL/Newton Equity Income Fund	AT&T Inc.			Equity	4,383,160	95,945,520	3.700%
JNL/Newton Equity Income Fund	CME Group Inc.			Equity	196,046	43,257,550	1.668%
JNL/Newton Equity Income Fund	Las Vegas Sands Corp.			Equity	956,376	48,143,968	1.857%
JNL/Newton Equity Income Fund	Dolby Laboratories, Inc.			Equity	318,959	24,409,932	0.941%
JNL/Newton Equity Income Fund	Marathon Petroleum Corporation			Equity	84,398	13,749,278	0.530%
JNL/Newton Equity Income Fund	General Motors Company			Equity	538,580	24,149,927	0.931%
JNL/Newton Equity Income Fund	Phillips 66			Equity	315,553	41,479,442	1.600%
JNL/Newton Equity Income Fund	Philip Morris International Inc.			Equity	315,118	38,680,735	1.492%
JNL/Newton Equity Income Fund	Diamondback Energy, Inc.			Equity	163,456	28,179,814	1.087%
JNL/Newton Equity Income Fund	Willis Towers Watson Public Limited Company			Equity	61,842	18,289,717	0.705%
JNL/Newton Equity Income Fund	Hubbell Incorporated			Equity	114,391	48,999,385	1.890%
JNL/Newton Equity Income Fund	T-Mobile US, Inc.			Equity	101,845	21,016,734	0.811%
JNL/Newton Equity Income Fund	Sandvik			Equity	1,250,014	72,038,307	2.778%
JNL/Newton Equity Income Fund	Voya Financial, Inc.			Equity	362,354	28,705,684	1.107%
JNL/Newton Equity Income Fund	International Game Technology PLC			Equity	636,322	13,553,659	0.523%
JNL/Newton Equity Income Fund	Johnson Controls International Public Limited Company			Equity	422,182	32,921,752	1.270%
JNL/Newton Equity Income Fund	Medtronic, Inc.			Equity	882,580	89,149,483	3.438%
JNL/Newton Equity Income Fund	Alcon AG			Equity	309,706	30,582,278	1.195%
JNL/Newton Equity Income Fund	L3Harris Technologies, Inc.			Equity	292,963	69,687,109	2.688%
JNL/Newton Equity Income Fund	Globe Life Inc.			Equity	120,844	12,798,588	0.494%
JNL/Newton Equity Income Fund	ADN Public Limited Company			Equity	111,401	38,543,632	1.487%
JNL/Newton Equity Income Fund	Howmet Aerospace Inc.			Equity	408,699	41,072,325	1.584%
JNL/Newton Equity Income Fund	Kenvue Inc.			Equity	2,914,896	67,421,544	2.600%
JNL/Newton Equity Income Fund	Veralto Corporation			Equity	112,704	12,617,175	0.487%
JNL/Newton Equity Income Fund	GE Vernova Inc.			Equity	186,367	47,519,858	1.833%
JNL/Newton Equity Income Fund	Labcorp Holdings Inc.			Equity	113,587	25,384,423	0.979%
JNL/Newton Equity Income Fund	Te Connectivity Public Limited Company			Equity	86,157	13,008,845	0.502%
Total Non Derivatives						2,592,864,993	
Derivatives							
Total Derivatives						0	
Total All Investments						2,592,864,993	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLIPMCO Income Fund	Cash			Cash Equivalent	26,983,308	26,983,308	1.124%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	6/1/2050	4.00	Fixed Income	40,176	39,017	0.002%
JNLIPMCO Income Fund	United Airlines Pass Through Trust 2020-1A	10/15/2027	5.88	Fixed Income	1,357,953	1,405,417	0.059%
JNLIPMCO Income Fund	NMG Parent LLC			Equity	31,571	4,151,737	0.173%
JNLIPMCO Income Fund	Petroleos Mexicanos	1/28/2060	6.95	Fixed Income	1,190,000	866,733	0.036%
JNLIPMCO Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	10,056,510	10,075,734	0.420%
JNLIPMCO Income Fund	Treasury, United States Department of	10/31/2027	0.50	Fixed Income	100,000	91,287	0.004%
JNLIPMCO Income Fund	Boeing Company, The	2/1/2026	2.75	Fixed Income	200,000	194,891	0.008%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2049	4.00	Fixed Income	5,001	4,857	0.000%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	12/1/2048	4.00	Fixed Income	10,281	10,123	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2050	4.00	Fixed Income	119,534	116,159	0.005%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2049	4.00	Fixed Income	6,910	6,723	0.000%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	4/1/2050	4.00	Fixed Income	21,156	20,552	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/1/2050	4.00	Fixed Income	61,607	59,886	0.002%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2047	4.00	Fixed Income	3,662	3,586	0.000%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2030	0.75	Fixed Income	1,089,033	615,382	0.026%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2035	4.13	Fixed Income	769,000	364,329	0.015%
JNLIPMCO Income Fund	Nissan Motor Co., Ltd.	9/17/2025	3.52	Fixed Income	2,000,000	1,969,571	0.082%
JNLIPMCO Income Fund	Gaz Finance PLC	6/29/2027	3.00	Fixed Income	200,000	120,000	0.005%
JNLIPMCO Income Fund	Treasury, United States Department of	11/30/2027	0.63	Fixed Income	770,000	704,002	0.029%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.00	Fixed Income	35,043	34,163	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	37,620	36,529	0.002%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2049	4.00	Fixed Income	899,702	868,936	0.036%
JNLIPMCO Income Fund	Treasury, United States Department of	12/31/2027	0.63	Fixed Income	330,000	300,924	0.013%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	4.00	Fixed Income	42,000,000	40,346,250	1.681%
JNLIPMCO Income Fund	Uniti Group Inc.	2/15/2029	6.00	Fixed Income	507,000	444,182	0.018%
JNLIPMCO Income Fund	Treasury, United States Department of	11/5/2031	0.13	Fixed Income	200,000	222,202	0.009%
JNLIPMCO Income Fund	Treasury, United States Department of	1/31/2028	0.75	Fixed Income	210,000	191,759	0.008%
JNLIPMCO Income Fund	Boeing Company, The	2/4/2026	2.20	Fixed Income	6,280,000	6,068,567	0.253%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.00	Fixed Income	20,000,000	17,950,900	0.748%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.00	Fixed Income	89,911	83,303	0.003%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2049	4.00	Fixed Income	4,616,675	4,495,017	0.187%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.00	Fixed Income	40,990	40,051	0.002%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	6/1/2048	3.50	Fixed Income	100,805	95,297	0.004%
JNLIPMCO Income Fund	American Airlines, Inc.	3/10/2028	3.20	Fixed Income	2,615,001	2,784,918	0.115%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.00	Fixed Income	1,273,643	1,242,468	0.052%
JNLIPMCO Income Fund	Government National Mortgage Association	10/15/2054	4.50	Fixed Income	6,010,000	5,933,458	0.247%
JNLIPMCO Income Fund	Government National Mortgage Association	10/15/2054	3.50	Fixed Income	12,600,000	11,843,777	0.493%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2049	4.00	Fixed Income	1,345,524	1,312,170	0.054%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	774,392	753,502	0.031%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2050	4.00	Fixed Income	2,723,755	2,645,169	0.110%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	252,592	245,778	0.010%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2050	4.00	Fixed Income	4,088,507	4,054,172	0.174%
JNLIPMCO Income Fund	UBS Group AG	5/14/2032	3.09	Fixed Income	1,550,000	1,416,159	0.059%
JNLIPMCO Income Fund	Deutsche Bank Aktiengesellschaft	5/28/2032	3.04	Fixed Income	9,500,000	8,528,108	0.355%
JNLIPMCO Income Fund	Voyager Aviation Holdings, LLC	5/9/2026	8.50	Fixed Income	1,165,664	0	0.000%
JNLIPMCO Income Fund	Voyager Preferred Units			Equity	2,121	0	0.000%
JNLIPMCO Income Fund	Voyager Common Shares			Equity	354	0	0.000%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	6/15/2028	3.00	Fixed Income	3,343,000	3,200,419	0.133%
JNLIPMCO Income Fund	Galaxy XV CLO Ltd	10/15/2030	6.53	Fixed Income	2,873,521	2,917,405	0.122%
JNLIPMCO Income Fund	Petroleos de Venezuela, S.A.	4/12/2037	5.50	Fixed Income	800,000	79,260	0.003%
JNLIPMCO Income Fund	Extended Stay America Trust 2021-ESH	7/15/2038	2.99	Fixed Income	11,494,356	11,504,960	0.479%
JNLIPMCO Income Fund	Presidencia da Republica	1/1/2025		Cash Equivalent	83,000,000	14,837,994	0.618%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2031	0.13	Fixed Income	790,000	848,561	0.035%
JNLIPMCO Income Fund	Venture Global Calcesteu Press, LLC	8/15/2029	3.88	Fixed Income	2,100,000	1,984,953	0.081%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	3.00	Fixed Income	26,950,000	25,121,389	1.047%
JNLIPMCO Income Fund	Ford Motor Credit Company LLC	8/10/2026	2.70	Fixed Income	400,000	385,135	0.016%
JNLIPMCO Income Fund	Country Garden Holdings Company Limited	10/22/2025	3.13	Fixed Income	400,000	29,965	0.001%
JNLIPMCO Income Fund	Avolon Holdings Funding Limited	11/18/2027	2.53	Fixed Income	2,240,000	2,106,390	0.088%
JNLIPMCO Income Fund	Government National Mortgage Association	3/1/2028	4.00	Fixed Income	4,000,000	3,647,001	0.151%
JNLIPMCO Income Fund	Santander UK Group Holdings PLC	11/3/2028	3.82	Fixed Income	1,800,000	1,785,366	0.074%
JNLIPMCO Income Fund	Republica Bolivariana de Venezuela	8/5/2031	11.95	Fixed Income	900,000	141,750	0.006%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	27,266	26,599	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	86,993	84,910	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2050	4.00	Fixed Income	3,341,106	3,248,885	0.135%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2050	4.00	Fixed Income	120,508	117,031	0.005%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2050	4.00	Fixed Income	61,927	60,373	0.003%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2048	4.00	Fixed Income	9,636	9,362	0.000%
JNLIPMCO Income Fund	BX Trust 2021-ARIA	10/15/2036	6.86	Fixed Income	2,200,000	2,188,157	0.091%
JNLIPMCO Income Fund	BX Trust 2021-ARIA	10/15/2036	7.11	Fixed Income	2,400,000	2,393,407	0.100%
JNLIPMCO Income Fund	Government National Mortgage Association	10/15/2054	5.50	Fixed Income	1,300,000	1,312,591	0.055%
JNLIPMCO Income Fund	Alice Franco	1/15/2029	4.13	Fixed Income	100,000	77,618	0.003%
JNLIPMCO Income Fund	DISH DBS Corporation	12/1/2028	5.25	Fixed Income	2,590,000	2,447,209	0.102%
JNLIPMCO Income Fund	DISH DBS Corporation	12/1/2028	5.75	Fixed Income	2,090,000	1,875,195	0.078%
JNLIPMCO Income Fund	LCCM 2021-FL3 Trust	11/17/2036	6.66	Fixed Income	12,727,260	12,727,510	0.530%
JNLIPMCO Income Fund	Venture Global Calcesteu Press, LLC	11/1/2033	3.98	Fixed Income	100,000	91,263	0.004%
JNLIPMCO Income Fund	BX Trust 2021-RISE	11/17/2036	6.96	Fixed Income	773,476	763,312	0.032%
JNLIPMCO Income Fund	Morgan Stanley Capital I Trust 2021-L7	12/15/2038	7.59	Fixed Income	2,929,000	2,577,107	0.107%
JNLIPMCO Income Fund	Morgan Stanley Capital I Trust 2021-L7	12/15/2038	8.29	Fixed Income	1,050,000	887,577	0.037%
JNLIPMCO Income Fund	CLP Financing, LLC	8/1/2025	5.25	Fixed Income	54,000	54,898	0.002%
JNLIPMCO Income Fund	CLP Financing, LLC	11/15/2029	5.30	Fixed Income	268,000	275,615	0.011%
JNLIPMCO Income Fund	Country Garden Holdings Company Limited	1/17/2025	5.13	Fixed Income	600,000	44,789	0.002%
JNLIPMCO Income Fund	Gaz Capital S.A.	3/23/2027	4.95	Fixed Income	800,000	496,000	0.021%
JNLIPMCO Income Fund	Intelsat Jackson Holdings S.A.	3/15/2030	6.50	Fixed Income	9,103,000	8,773,147	0.366%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	3/1/2032	4.40	Fixed Income	1,080,000	972,453	0.040%
JNLIPMCO Income Fund	Magnetite XXV, Limited	1/26/2032	6.75	Fixed Income	281,690	2,849,023	0.119%
JNLIPMCO Income Fund	Intelsat Jackson Holdings, Ltd.			Equity	123,980	3,680,906	0.153%
JNLIPMCO Income Fund	Intelsat Jackson Holdings, Ltd.	2/17/2027		Equity	1,073	2,250	0.000%
JNLIPMCO Income Fund	Intelsat Jackson Holdings, Ltd.	2/31/2049		Equity	251	120	0.000%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	8/1/2049	4.00	Fixed Income	279,546	272,004	0.011%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	9/1/2049	4.00	Fixed Income	467,828	455,207	0.019%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	11/1/2049	4.00	Fixed Income	229,381	229,381	0.010%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2048	4.00	Fixed Income	126,866	123,286	0.005%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2050	4.00	Fixed Income	304,523	295,737	0.012%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	8/1/2050	4.00	Fixed Income	7,669	7,448	0.000%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	4/1/2050	4.00	Fixed Income	25,974	25,225	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2050	4.00	Fixed Income	1,734,990	1,685,378	0.070%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	3/1/2050	4.00	Fixed Income	256,388	249,071	0.010%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2050	4.00	Fixed Income	15,165	14,737	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2050	4.00	Fixed Income	71,810	69,761	0.003%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2050	4.00	Fixed Income	11,286,122	10,866,579	0.457%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2051	4.00	Fixed Income	1,304,241	1,264,573	0.053%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2050	4.00	Fixed Income	9,480	9,186	0.000%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2050	4.00	Fixed Income	171,575	167,107	0.007%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	12/1/2050	4.00	Fixed Income	81,161	79,613	0.003%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2051	4.00	Fixed Income	19,436	19,436	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2050	4.00	Fixed Income	9,581	9,349	0.000%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2050	4.00	Fixed Income	77,379	75,122	0.003%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2051	4.00	Fixed Income	505,820	491,858	0.020%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2051	4.00	Fixed Income	9,495,715	9,210,360	0.384%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2052	4.00	Fixed Income	760,950	736,855	0.031%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	10/1/2051	4.00	Fixed Income	1,700,278	1,648,034	0.069%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2051	4.00	Fixed Income	230,231	223,804	0.009%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	12/1/2052	4.00	Fixed Income	630,513	619,463	0.026%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	2/1/2052	4.00	Fixed Income	486,189	470,794	0.020%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/1/2052	4.00	Fixed Income	232,620	225,472	0.009%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.00	Fixed Income	25,204	24,949	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/1/2046	4.00	Fixed Income	3,030	2,969	0.000%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2048	4.00	Fixed Income	472,500	459,458	0.019%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	6/1/2047	4.00	Fixed Income	5,946	5,810	0.000%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2048	4.00	Fixed Income	213,045	207,165	0.009%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2048	4.00	Fixed Income	803,480	783,813	0.033%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	15,677	15,338	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2048	4.00	Fixed Income	86,616	84,496	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	262,004	254,936	0.011%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	12/1/2049	4.00	Fixed Income	273,918	267,128	0.011%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2048	4.00	Fixed Income	94,742	92,098	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2049	4.00	Fixed Income	101,334	98,758	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2049	4.00	Fixed Income	2,758	2,686	0.000%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.00	Fixed Income	116,970	115,612	0.005%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2049	4.00	Fixed Income	45,357	44,244	0.002%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	4/1/2049	4.00	Fixed Income	86,704	84,446	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2049	4.00	Fixed Income	3,590	3,501	0.000%
JNLIPMCO Income Fund	Ministry of Finance of the Russian Federation	4/4/2042	5.63	Fixed Income	2,800,000	1,848,000	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Income Fund	Country Garden Holdings Company Limited	10/22/2020	3.88	Fixed Income	400,000	29,559	0.001%
JNLIPMCO Income Fund	Country Garden Holdings Company Limited	7/1/2026	2.78	Fixed Income	400,000	29,588	0.001%
JNLIPMCO Income Fund	Government National Mortgage Association	11/15/2054	4.50	Fixed Income	1,690,000	1,668,014	0.069%
JNLIPMCO Income Fund	Government National Mortgage Association	11/15/2054	4.00	Fixed Income	6,900,000	6,674,307	0.278%
JNLIPMCO Income Fund	UBS Group AG	8/12/2033	6.54	Fixed Income	2,850,000	3,173,651	0.132%
JNLIPMCO Income Fund	Michells & Butlers Finance PLC	12/15/2028	6.01	Fixed Income	99,882	131,478	0.005%
JNLIPMCO Income Fund	Treasury, United States Department of	8/15/2032	2.75	Fixed Income	19,800,000	18,573,260	0.774%
JNLIPMCO Income Fund	Ministry of Finance of the Russian Federation	9/16/2043	5.88	Fixed Income	200,000	135,418	0.006%
JNLIPMCO Income Fund	Towd Point Mortgage Trust 2022-4	9/25/2031	3.75	Fixed Income	10,764,097	10,316,634	0.430%
JNLIPMCO Income Fund	Market Bidco Limited	11/4/2027	8.29	Fixed Income	800,838	894,327	0.037%
JNLIPMCO Income Fund	Рыночная Акционерная Товарищество Национальная Энергетическая Компания Украины	11/9/2028	6.88	Fixed Income	400,000	955,578	0.011%
JNLIPMCO Income Fund	CWABS, Inc.	7/25/2034	6.62	Fixed Income	3,733,129	3,697,466	0.154%
JNLIPMCO Income Fund	Structured Asset Investment Loan Trust 2005-4	7/25/2035	5.69	Fixed Income	952,456	902,513	0.038%
JNLIPMCO Income Fund	PHM Alternative Mortgage Trust, Series 2007-3	7/25/2037	5.57	Fixed Income	2,889,538	2,792,476	0.116%
JNLIPMCO Income Fund	Government National Mortgage Association	11/15/2054	5.50	Fixed Income	1,700,000	1,716,963	0.072%
JNLIPMCO Income Fund	Preferred Residential Securities 05-2 PLC	12/15/2040	5.81	Fixed Income	1,044,711	1,391,220	0.058%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.50	Fixed Income	126,575,000	128,073,142	5.388%
JNLIPMCO Income Fund	Mr. Cooper Group Inc.	5/25/2047	5.96	Fixed Income	1,448,805	1,214,264	0.051%
JNLIPMCO Income Fund	CWABS Asset-Backed Certificates Trust 2007-10	11/25/2036	5.23	Fixed Income	9,759,213	8,080,465	0.337%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	129,112	125,912	0.005%
JNLIPMCO Income Fund	Barclays PLC	11/2/2033	7.44	Fixed Income	2,200,000	2,605,185	0.109%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.00	Fixed Income	137,925,000	137,844,204	5.743%
JNLIPMCO Income Fund	UBS Group AG	11/15/2033	9.02	Fixed Income	300,000	389,382	0.016%
JNLIPMCO Income Fund	Ellington Financial Mortgage Trust 2022-4	9/25/2067	5.90	Fixed Income	10,236,444	10,341,151	0.431%
JNLIPMCO Income Fund	Softbank Vision Fund II	12/21/2025	6.00	Fixed Income	4,164,391	4,158,615	0.173%
JNLIPMCO Income Fund	Santander UK Group Holdings PLC	11/10/2029	6.53	Fixed Income	1,000,000	1,069,735	0.045%
JNLIPMCO Income Fund	UBS Group AG	11/12/2034	5.96	Fixed Income	925,000	995,818	0.041%
JNLIPMCO Income Fund	Societe Generale	11/10/2034	6.69	Fixed Income	200,000	219,554	0.009%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.50	Fixed Income	130,860	133,064	0.006%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.50	Fixed Income	784,385	798,180	0.033%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2028	0.75	Fixed Income	2,633,000	3,029,824	0.124%
JNLIPMCO Income Fund	Government National Mortgage Association	11/15/2054	5.00	Fixed Income	4,000,000	4,004,026	0.167%
JNLIPMCO Income Fund	Eurosaal-UK 2007-6NC PLC	9/13/2045	5.78	Fixed Income	21,373	28,426	0.001%
JNLIPMCO Income Fund	Turkiye Cumhuriyet Basbakanlik	5/11/2047	5.75	Fixed Income	800,000	665,875	0.028%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2046	1.00	Fixed Income	1,200,000	1,328,685	0.055%
JNLIPMCO Income Fund	Washington Mutual Mortgage Pass-Through Certificates WMALT Series 2007-0A3 Trust	4/24/2025	4.89	Fixed Income	943,830	948,588	0.040%
JNLIPMCO Income Fund	Sitching AK Rabobank Certificatin II	11/1/2200	6.50	Fixed Income	3,601,150	4,563,079	0.190%
JNLIPMCO Income Fund	Ministry of Finance of the Russian Federation	6/23/2047	5.25	Fixed Income	5,400,000	1,525,500	0.064%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2027	0.88	Fixed Income	2,400,000	2,513,111	0.105%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2048	1.00	Fixed Income	3,100,000	3,282,363	0.136%
JNLIPMCO Income Fund	Newgate Funding PLC	12/15/2050	5.40	Fixed Income	2,815,612	3,676,015	0.153%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2048	3.50	Fixed Income	3,457,755	3,270,983	0.136%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	12/15/2054	4.50	Fixed Income	7,900,000	(7,770,390)	-0.324%
JNLIPMCO Income Fund	Republica Bolivariana de Venezuela	5/7/2049	9.00	Fixed Income	1,850,000	2,955,810	0.121%
JNLIPMCO Income Fund	Uniti Group Inc.			Equity	40,471	228,256	0.009%
JNLIPMCO Income Fund	UBS Group AG			Equity	4,114	127,401	0.005%
JNLIPMCO Income Fund	Alternative Loan Trust 2006-0A17	12/20/2046	5.27	Fixed Income	1,286,331	1,169,712	0.049%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	106,485	1,032,845	0.044%
JNLIPMCO Income Fund	Turkiye Cumhuriyet Basbakanlik	4/26/2029	7.63	Fixed Income	1,330,000	1,460,229	0.061%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	6/15/2025	3.50	Fixed Income	577,000	578,790	0.024%
JNLIPMCO Income Fund	Petroleos de Venezuela, S.A.	5/16/2025	6.00	Fixed Income	490,000	46,550	0.002%
JNLIPMCO Income Fund	METAL 2017-1 LLC	11/15/2034	4.58	Fixed Income	840,395	619,588	0.026%
JNLIPMCO Income Fund	Treasury, United States Department of	1/15/2029	0.88	Fixed Income	8,166,000	9,952,757	0.415%
JNLIPMCO Income Fund	Republica Bolivariana de Venezuela	10/13/2024	8.25	Fixed Income	1,332,000	183,150	0.008%
JNLIPMCO Income Fund	Treasury, United States Department of	1/15/2025	2.38	Fixed Income	1,624,000	2,704,947	0.113%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2041	0.75	Fixed Income	200,000	301,193	0.013%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2042	0.75	Fixed Income	400,000	564,528	0.019%
JNLIPMCO Income Fund	Treasury, United States Department of	10/31/2024	2.25	Fixed Income	2,159,000	2,174,606	0.091%
JNLIPMCO Income Fund	Treasury, United States Department of	1/15/2025	0.25	Fixed Income	11,798,000	15,475,187	0.645%
JNLIPMCO Income Fund	Ministry of Finance of the Russian Federation	3/31/2030	7.50	Fixed Income	199,216	129,491	0.005%
JNLIPMCO Income Fund	Syngenta Finance N.V.	4/24/2025	4.89	Fixed Income	943,830	948,588	0.040%
JNLIPMCO Income Fund	Republica Bolivariana de Venezuela	4/21/2025	7.65	Fixed Income	1,076,000	147,950	0.006%
JNLIPMCO Income Fund	Kennedy Wilson Europe Real Estate Limited	11/12/2025	3.25	Fixed Income	3,000,000	3,314,337	0.138%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2025	0.38	Fixed Income	4,862,000	6,588,212	0.265%
JNLIPMCO Income Fund	Treasury, United States Department of	11/15/2026	2.63	Fixed Income	10,380,000	10,387,834	0.424%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	3/15/2027	3.30	Fixed Income	447,000	435,331	0.018%
JNLIPMCO Income Fund	Petroleos de Venezuela, S.A.	11/15/2026	6.00	Fixed Income	500,000	47,500	0.002%
JNLIPMCO Income Fund	South Africa, Parliament of	12/21/2026	10.50	Fixed Income	226,700,000	14,172,164	0.590%
JNLIPMCO Income Fund	EPR Properties	12/15/2026	4.75	Fixed Income	32,000	32,346	0.001%
JNLIPMCO Income Fund	Treasury, United States Department of	1/15/2027	0.38	Fixed Income	728,000	921,740	0.038%
JNLIPMCO Income Fund	Petroleos de Venezuela, S.A.	4/12/2027	5.38	Fixed Income	300,000	28,688	0.001%
JNLIPMCO Income Fund	American Airlines, Inc.	5/1/2027	3.38	Fixed Income	1,649,780	1,592,091	0.066%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2027	0.38	Fixed Income	200,000	250,235	0.010%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	12/1/2027	3.30	Fixed Income	900,000	878,551	0.037%
JNLIPMCO Income Fund	Rio Oil Finance Trust	4/6/2028	8.20	Fixed Income	164,800	170,208	0.007%
JNLIPMCO Income Fund	Turkiye Cumhuriyet Basbakanlik	10/24/2028	6.13	Fixed Income	600,000	628,065	0.026%
JNLIPMCO Income Fund	NaftWest Group PLC	5/18/2029	4.99	Fixed Income	200,000	204,580	0.009%
JNLIPMCO Income Fund	Nationwide Building Society	3/8/2029	4.30	Fixed Income	1,600,000	1,587,320	0.066%
JNLIPMCO Income Fund	EPR Properties	4/15/2028	4.95	Fixed Income	90,000	91,394	0.004%
JNLIPMCO Income Fund	Republica Bolivariana de Venezuela	5/7/2028	9.25	Fixed Income	363,000	53,543	0.002%
JNLIPMCO Income Fund	CSR Mortgage Loan Trust 2005-AR1	4/25/2034	4.56	Fixed Income	2,992,862	2,717,010	0.148%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/25/2031	6.95	Fixed Income	8,800,000	2,580,258	0.107%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/29/2031	7.75	Fixed Income	47,500,000	2,303,137	0.096%
JNLIPMCO Income Fund	AFC Mortgage Corporation	3/25/2030	5.61	Fixed Income	1,084,357	899,847	0.037%
JNLIPMCO Income Fund	South Africa, Parliament of	1/31/2030	8.00	Fixed Income	12,600,000	713,821	0.030%
JNLIPMCO Income Fund	Comerio Finance Inc.	3/10/2030	7.50	Fixed Income	2,889,725	890,142	0.036%
JNLIPMCO Income Fund	Bombardier Capital Inc.	12/15/2029	3.26	Fixed Income	6,295,807	515,337	0.021%
JNLIPMCO Income Fund	IndyMac INDX Mortgage Loan Trust 2006-AR21	6/25/2036	3.54	Fixed Income	2,163,600	1,433,452	0.060%
JNLIPMCO Income Fund	GE-WMVC Mortgage Securities, L.L.C.	10/25/2035	5.86	Fixed Income	17,528,450	1,638,846	0.010%
JNLIPMCO Income Fund	Soundview Home Loan Trust	8/25/2035	8.51	Fixed Income	8,831,864	7,940,861	0.325%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2032	6.15	Fixed Income	4,571,000	1,261,435	0.053%
JNLIPMCO Income Fund	Encore Credit Receivables Trust	1/25/2036	5.94	Fixed Income	5,905,000	5,283,687	0.220%
JNLIPMCO Income Fund	Structured Asset Securities CORP Mortgage Loan Trust 2007-OSI	6/25/2037	5.17	Fixed Income	12,618,330	8,234,644	0.343%
JNLIPMCO Income Fund	SG Mortgage Securities Trust	11/15/2035	4.67	Fixed Income	4,975,000	4,584,058	0.191%
JNLIPMCO Income Fund	Chevy Chase Funding LLC Mortgage-Backed Certificates, Series 2004-2A	1/25/2035	5.86	Fixed Income	131,676	126,743	0.005%
JNLIPMCO Income Fund	Bank of America Funding Corp	2/20/2035	5.75	Fixed Income	2,560,744	2,454,046	0.102%
JNLIPMCO Income Fund	Securitized Asset Backed Receivables LLC	4/25/2035	5.94	Fixed Income	875,967	790,828	0.033%
JNLIPMCO Income Fund	People's Choice Home Loan Securities Trust Series 2005-3	8/25/2035	5.92	Fixed Income	1,524,346	1,457,456	0.061%
JNLIPMCO Income Fund	South Africa, Parliament of	2/28/2035	8.88	Fixed Income	35,300,000	1,907,386	0.079%
JNLIPMCO Income Fund	Citigroup Mortgage Loan Trust	12/25/2035	6.00	Fixed Income	1,891,526	1,875,062	0.078%
JNLIPMCO Income Fund	CWABS Asset-Backed Certificates Trust 2006-20	9/25/2035	5.43	Fixed Income	13,698,296	12,077,678	0.503%
JNLIPMCO Income Fund	Alternative Loan Trust 2005-45	10/25/2035	6.99	Fixed Income	2,059,432	1,099,186	0.046%
JNLIPMCO Income Fund	Bear Stearns ALT-A Trust 2006-3	10/25/2035	5.51	Fixed Income	668,271	658,445	0.027%
JNLIPMCO Income Fund	Wafu Mortgage Pass-Through Certificates Series 2003-AR9 Trust	9/25/2035	5.22	Fixed Income	2,488,648	2,302,957	0.096%
JNLIPMCO Income Fund	IndyMac MBS, Inc.	5/25/2035	5.37	Fixed Income	896,661	555,782	0.023%
JNLIPMCO Income Fund	Saxon Asset Securities Trust 2004-3	3/25/2035	5.76	Fixed Income	425,225	317,574	0.016%
JNLIPMCO Income Fund	Alternative Loan Trust 2005-43	9/25/2035	5.67	Fixed Income	202,525	179,014	0.007%
JNLIPMCO Income Fund	Alternative Loan Trust 2005-43	9/25/2035	5.50	Fixed Income	648,492	498,913	0.021%
JNLIPMCO Income Fund	Alternative Loan Trust 2005-45	11/20/2035	5.74	Fixed Income	1,347,615	1,265,311	0.053%
JNLIPMCO Income Fund	Lehman AS Trust, Series 2007-15N	8/25/2047	5.47	Fixed Income	2,198,723	2,062,093	0.086%
JNLIPMCO Income Fund	CSMSC Reacquisition Trust 2015-8R	4/26/2037	7.50	Fixed Income	2,893,759	5,636,013	0.235%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2049	1.00	Fixed Income	7,210,000	7,363,621	0.307%
JNLIPMCO Income Fund	BCAP LLC 2009-RR13-B Trust	4/26/2037	5.88	Fixed Income	3,470,863	1,695,102	0.071%
JNLIPMCO Income Fund	J.P. Morgan Alternative Loan Trust 2006-A6	10/25/2036	5.29	Fixed Income	875,631	791,564	0.033%
JNLIPMCO Income Fund	South Africa, Parliament of	1/31/2037	8.50	Fixed Income	37,800,000	1,952,088	0.081%
JNLIPMCO Income Fund	CSMC Series 2009-5R	6/26/2036	5.92	Fixed Income	1,665,908	1,355,764	0.056%
JNLIPMCO Income Fund	RFMSI Series 2007-S4 Trust	4/25/2037	6.00	Fixed Income	746,458	615,168	0.026%
JNLIPMCO Income Fund	CWABS, Inc.	11/25/2034	6.24	Fixed Income	2,450,000	2,128,819	0.089%
JNLIPMCO Income Fund	CWABS, Inc.	4/25/2045	5.37	Fixed Income	2,000,209	1,884,830	0.079%
JNLIPMCO Income Fund	C-BASS Mortgage Loan Asset-Backed Certificates, Series 2006-C88	10/25/2036	5.27	Fixed Income	5,069,577	4,266,251	0.178%
JNLIPMCO Income Fund	Alternative Loan Trust 2007-19	8/25/2037	6.50	Fixed Income	4,004,927	1,801,376	0.075%
JNLIPMCO Income Fund	Alternative Loan Trust 2006-911	2/25/2036	5.53	Fixed Income	678,672	581,903	0.024%
JNLIPMCO Income Fund	CHL Mortgage Pass-Through Trust 2006-17	12/25/2036	6.92	Fixed Income	1,189,014	534,071	0.023%
JNLIPMCO Income Fund	CSMC Mortgage-Backed Trust	8/26/2036	4.59	Fixed Income	544,449	532,487	0.022%
JNLIPMCO Income Fund	Wells Fargo Mortgage Backed Securities 2007-AR7 Trust	12/25/2037	6.23	Fixed Income	11,833,371	10,881,218	0.453%
JNLIPMCO Income Fund	Citigroup Mortgage Loan Trust 2013-2	11/25/2037	6.44	Fixed Income	2,695,952	2,395,499	0.100%
JNLIPMCO Income Fund	Republica Bolivariana de Venezuela	3/11/2038	7.00	Fixed Income	380,300	50,390	0.002%
JNLIPMCO Income Fund	South Africa, Parliament of	1/31/2040	9.00	Fixed Income	8,600,000	443,270	0.018%
JNLIPMCO Income Fund	TruPS Financials Note Securitization 2017-2 Ltd	9/20/2039					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	6/3/2027	7.50	Fixed Income	41,800,000	2,093,487	0.087%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/31/2029	8.50	Fixed Income	18,200,000	817,025	0.035%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2031	6.95	Fixed Income	2,889,000	841,066	0.035%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2049	4.00	Fixed Income	4,324	4,211	0.000%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	3/1/2049	4.00	Fixed Income	131,740	128,639	0.005%
JNLIPMCO Income Fund	HeartMedia, Inc.	9/1/2030	4.00	Equity	91,178	151,811	0.066%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2034	5.40	Fixed Income	1,100,000	281,100	0.012%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2034	5.40	Fixed Income	502,000	127,346	0.005%
JNLIPMCO Income Fund	Alice France Holding S.A.	2/1/2027	8.13	Fixed Income	600,000	495,189	0.021%
JNLIPMCO Income Fund	Ministry of Finance of the Russian Federation	6/23/2047	5.25	Fixed Income	400,000	113,000	0.005%
JNLIPMCO Income Fund	Accredited Mortgage Loan Trust 2006-2	9/25/2036	5.23	Fixed Income	2,851,792	2,831,348	0.118%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2032	6.15	Fixed Income	5,634,000	1,555,419	0.065%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	9/1/2048	4.00	Fixed Income	29,945	29,203	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.00	Fixed Income	130,999	127,710	0.005%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2029	0.25	Fixed Income	13,896,000	16,118,278	0.672%
JNLIPMCO Income Fund	Alice France Holding S.A.	2/1/2027	5.88	Fixed Income	100,000	88,082	0.004%
JNLIPMCO Income Fund	Ford Motor Credit Company LLC	8/1/2026	4.54	Fixed Income	2,400,000	2,397,422	0.100%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	9/1/2049	4.00	Fixed Income	10,426	10,152	0.000%
JNLIPMCO Income Fund	Alice France Holding S.A.	11/15/2028	5.50	Fixed Income	400,000	301,754	0.013%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	10/1/2048	4.00	Fixed Income	12,740	12,420	0.001%
JNLIPMCO Income Fund	Securitized Asset Backed Receivables LLC	1/25/2035	5.61	Fixed Income	34,723	41,931	0.002%
JNLIPMCO Income Fund	Securitized Asset Backed Receivables LLC	10/25/2035	5.58	Fixed Income	2,504,922	2,479,209	0.103%
JNLIPMCO Income Fund	GS Mortgage Securities Corp.	3/25/2036	5.51	Fixed Income	3,663,959	1,763,796	0.074%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2049	4.00	Fixed Income	7,155	6,974	0.000%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2040	5.35	Fixed Income	400,000	96,282	0.004%
JNLIPMCO Income Fund	South Africa, Parliament of	2/28/2031	7.00	Fixed Income	21,200,000	1,106,240	0.046%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/15/2050	4.00	Fixed Income	61,758	65,845	0.003%
JNLIPMCO Income Fund	WaMu Asset-Backed Certificates, WaMu Series 200X-HEX Trust	6/25/2045	5.75	Fixed Income	1,304,308	1,322,177	0.055%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	12/1/2049	4.00	Fixed Income	916,220	890,644	0.037%
JNLIPMCO Income Fund	Harborview Mortgage Loan Trust 2008-8	7/21/2036	6.43	Fixed Income	4,519,138	2,322,728	0.097%
JNLIPMCO Income Fund	CWABS, Inc.	7/25/2034	5.24	Fixed Income	233,780	233,339	0.009%
JNLIPMCO Income Fund	Bank of America Funding Corp.	6/25/2035	5.30	Fixed Income	89,477	87,174	0.004%
JNLIPMCO Income Fund	Turkiye Cumhuriyeti Basbakanlik	3/13/2025	4.25	Fixed Income	3,800,000	3,803,280	0.158%
JNLIPMCO Income Fund	Turkiye Cumhuriyeti Basbakanlik	3/13/2030	5.25	Fixed Income	3,400,000	3,285,626	0.137%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	9/1/2050	4.00	Fixed Income	26,391	25,646	0.001%
JNLIPMCO Income Fund	Mansard Mortgages 2006-1 PLC	10/15/2048	5.27	Fixed Income	2,999,335	2,987,168	0.159%
JNLIPMCO Income Fund	Alba 2006-2 PLC	12/15/2038	5.53	Fixed Income	858,060	1,066,921	0.044%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2050	0.25	Fixed Income	2,700,000	2,192,064	0.091%
JNLIPMCO Income Fund	UBS Group AG	4/1/2031	4.19	Fixed Income	700,000	700,104	0.029%
JNLIPMCO Income Fund	WaMu Asset-Backed Certificates WaMu Series 2007-HE2 Trust	4/25/2033	1.55	Fixed Income	36,239,466	13,193,933	0.560%
JNLIPMCO Income Fund	Treasury, United States Department of	4/15/2025	0.13	Fixed Income	5,934,000	7,100,338	0.296%
JNLIPMCO Income Fund	CWABS Asset-Backed Certificates Trust 2006-21	5/25/2035	5.25	Fixed Income	640,153	616,599	0.026%
JNLIPMCO Income Fund	Carriington Mortgage Loan Trust, Series 2006-NC3	7/25/2036	5.21	Fixed Income	7,130,000	6,377,783	0.258%
JNLIPMCO Income Fund	Topax Solar Farms LLC	9/30/2039	5.75	Fixed Income	880,672	594,812	0.025%
JNLIPMCO Income Fund	Topax Solar Farms LLC	9/30/2039	4.88	Fixed Income	54,864	49,455	0.002%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	1/1/2050	4.00	Fixed Income	689,257	670,017	0.028%
JNLIPMCO Income Fund	Moran Stanley & Co. LLC	2/16/2029	4.07	Fixed Income	1,700,000	1,652,652	0.069%
JNLIPMCO Income Fund	Navient Funding, LLC	12/15/2039	5.48	Fixed Income	1,084,407	1,047,575	0.044%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2050	3.50	Fixed Income	344,944	326,204	0.014%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2050	3.00	Fixed Income	3,368,013	3,075,720	0.128%
JNLIPMCO Income Fund	Ministry of Finance	5/13/2060	3.80	Fixed Income	2,434,000	1,713,755	0.071%
JNLIPMCO Income Fund	Novastar Mortgage Funding Trust, Series 2007-1	5/15/2037	1.10	Fixed Income	36,687,395	12,602,296	0.504%
JNLIPMCO Income Fund	Citigroup Commercial Mortgage Trust 2016-C1	5/12/2026	3.21	Fixed Income	5,500,000	5,382,718	0.224%
JNLIPMCO Income Fund	JPMCC Commercial Mortgage Securities Trust 2016-JP4	11/18/2026	3.65	Fixed Income	2,600,000	2,520,363	0.105%
JNLIPMCO Income Fund	HSBC Holdings PLC	6/4/2031	2.85	Fixed Income	504,000	4,606,207	0.192%
JNLIPMCO Income Fund	Ellington Financial Mortgage Trust 2020-1	5/25/2065	2.01	Fixed Income	1,115,539	1,115,536	0.046%
JNLIPMCO Income Fund	CommonBond Student Loan Trust 2020-A-GS	8/25/2050	1.38	Fixed Income	2,850,727	2,499,049	0.104%
JNLIPMCO Income Fund	Treasury, United States Department of	8/15/2048	3.00	Fixed Income	30,000	24,434	0.001%
JNLIPMCO Income Fund	CSMC Mortgage-Backed Trust 2006-6	7/25/2036	6.00	Fixed Income	458,117	225,925	0.009%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	7/1/2030	4.55	Fixed Income	7,254,500	7,284,307	0.304%
JNLIPMCO Income Fund	Specialty Underwriting & Residential Finance Trust	6/25/2032	6.00	Fixed Income	16,991,874	8,907,768	0.371%
JNLIPMCO Income Fund	Pacific Gas And Electric Company	7/1/2028	3.75	Fixed Income	975,500	957,535	0.040%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2030	0.13	Fixed Income	6,620,000	7,555,069	0.315%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2049	4.00	Fixed Income	28,427	27,722	0.001%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2050	1.55	Fixed Income	15,245	14,926	0.001%
JNLIPMCO Income Fund	Lealand Finance Company B.V.	6/30/2027	8.36	Fixed Income	21,020	10,777	0.000%
JNLIPMCO Income Fund	Windstream Escrow, LLC	8/15/2028	7.75	Fixed Income	6,439,000	6,505,595	0.271%
JNLIPMCO Income Fund	Ford Motor Credit Company LLC	8/1/2027	4.13	Fixed Income	3,200,000	3,137,853	0.131%
JNLIPMCO Income Fund	CBAM 2018-5 Ltd	4/1/2033	6.57	Fixed Income	1,115,091	1,131,042	0.047%
JNLIPMCO Income Fund	CWABS, Inc.	8/25/2035	6.17	Fixed Income	4,000,000	3,775,836	0.157%
JNLIPMCO Income Fund	Lealand Finance Company B.V.	6/30/2025	9.36	Fixed Income	73,862	26,166	0.001%
JNLIPMCO Income Fund	Eurocell-UK 2007-3BL PLC	6/13/2045	5.63	Fixed Income	11,954,214	13,908,136	0.579%
JNLIPMCO Income Fund	Merritage Mortgage Corporation	1/25/2035	5.00	Fixed Income	2,829,786	2,793,233	0.114%
JNLIPMCO Income Fund	Nissan Motor Co. Ltd.	9/1/2027	4.35	Fixed Income	4,300,000	4,200,168	0.175%
JNLIPMCO Income Fund	Nissan Motor Co. Ltd.	9/1/2030	4.81	Fixed Income	300,000	284,866	0.012%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2029	1.00	Fixed Income	562,955	387,206	0.015%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2030	0.75	Fixed Income	4,249,631	2,672,990	0.107%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2041	3.50	Fixed Income	4,209,730	1,943,797	0.081%
JNLIPMCO Income Fund	Alice France Holding S.A.	1/15/2029	5.13	Fixed Income	200,000	140,710	0.006%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2035	4.13	Fixed Income	3,579,799	1,747,535	0.073%
JNLIPMCO Income Fund	Presidencia De La Nacion	1/9/2038	5.00	Fixed Income	3,715,523	1,981,523	0.083%
JNLIPMCO Income Fund	American Airlines, Inc.	9/22/2027	3.60	Fixed Income	419,119	404,570	0.017%
JNLIPMCO Income Fund	Presidencia De La Nacion	7/9/2046	4.13	Fixed Income	114,993	59,010	0.002%
JNLIPMCO Income Fund	Windstream Services, LLC	8/24/2027	11.60	Fixed Income	538,756	538,024	0.022%
JNLIPMCO Income Fund	Park Place Securities, Inc.	5/25/2035	6.00	Fixed Income	4,461,000	3,401,042	0.142%
JNLIPMCO Income Fund	HeartMedia, Inc.	12/1/2030	4.00	Equity	124,483	129,028	0.005%
JNLIPMCO Income Fund	Uniti Group Inc.	2/15/2028	10.50	Fixed Income	1,728,000	1,852,575	0.077%
JNLIPMCO Income Fund	Alice France S.A.	8/31/2028	10.80	Fixed Income	1,097,475	842,807	0.035%
JNLIPMCO Income Fund	Treasury, United States Department of	2/15/2053	1.50	Fixed Income	3,600,000	3,452,965	0.144%
JNLIPMCO Income Fund	Ford Motor Credit Company LLC	2/1/2030	4.00	Fixed Income	200,000	198,616	0.008%
JNLIPMCO Income Fund	Banca Monte dei Paschi di Siena S.p.A.	1/9/2026	1.88	Fixed Income	100,000	110,244	0.005%
JNLIPMCO Income Fund	Credit Suisse Group AG	3/1/2029	7.75	Fixed Income	2,350,000	3,110,799	0.130%
JNLIPMCO Income Fund	Sharnock Residential 2022-1 DAC	1/24/2061	4.87	Fixed Income	13,231,252	14,751,347	0.615%
JNLIPMCO Income Fund	Credit Suisse Group AG	1/16/2025	4.66	Fixed Income	800,000	901,175	0.038%
JNLIPMCO Income Fund	Credit Suisse Group AG	4/22/2026	3.25	Fixed Income	550,000	621,388	0.026%
JNLIPMCO Income Fund	Kinbase 2022-RPL-1 Designated Activity Company	9/25/2062	4.46	Fixed Income	8,671,404	9,607,041	0.400%
JNLIPMCO Income Fund	Sharnock Residential 2022-2 Designated Activity Company	2/24/2071	4.62	Fixed Income	9,931,781	11,063,473	0.461%
JNLIPMCO Income Fund	Pagaya A Debt Trust 2023-3	12/16/2030	7.60	Fixed Income	2,847,846	2,957,114	0.121%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	10/1/2052	4.00	Fixed Income	931,531	897,959	0.037%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	12/1/2052	4.00	Fixed Income	921,267	888,065	0.037%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.00	Fixed Income	193,836	186,851	0.008%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.00	Fixed Income	937,403	903,620	0.037%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2052	4.00	Fixed Income	912,854	879,955	0.037%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	2/1/2053	6.00	Fixed Income	51,491,002	52,961,209	2.207%
JNLIPMCO Income Fund	Venus Securitization Trust 2023-3	3/25/2068	5.93	Fixed Income	6,196,748	6,270,045	0.261%
JNLIPMCO Income Fund	CPS Auto Receivables Trust 2023-B	7/16/2029	6.04	Fixed Income	300,000	335,329	0.014%
JNLIPMCO Income Fund	CPS Auto Receivables Trust 2023-B	8/15/2025	5.38	Fixed Income	100,000	100,465	0.004%
JNLIPMCO Income Fund	J.P. Morgan Alternative Loan Trust 2006-A2	5/25/2036	5.51	Fixed Income	904,532	761,620	0.032%
JNLIPMCO Income Fund	CIM Trust 2023-R4	5/25/2062	5.00	Fixed Income	5,779,343	5,843,707	0.243%
JNLIPMCO Income Fund	Structured Asset Securities Corp Mortgage Loan Trust	5/25/2037	5.87	Fixed Income	15,391,466	10,877,673	0.453%
JNLIPMCO Income Fund	Ellington Loan Acquisition Trust 2007-1	5/25/2037	4.21	Fixed Income	28,000,000	24,912,785	1.038%
JNLIPMCO Income Fund	COLT 2022-5 Mortgage Loan Trust	4/25/2067	4.55	Fixed Income	3,128,065	3,165,283	0.132%
JNLIPMCO Income Fund	Barclays PLC	5/9/2034	6.22	Fixed Income	1,077,000	1,187,823	0.049%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.50	Fixed Income	1,422,000	1,447,009	0.060%
JNLIPMCO Income Fund	Home Equity Asset Trust	10/25/2034	5.75	Fixed Income	1,261,503	1,229,761	0.052%
JNLIPMCO Income Fund	MFA 2023-NOM2 Trust	3/25/2068	4.40	Fixed Income	13,358,599	13,342,992	0.556%
JNLIPMCO Income Fund	DSLTA Mortgage Loan Trust 2004-AR2	1/19/2045	5.80	Fixed Income	1,061,391	963,348	0.040%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/1/2052	5.50	Fixed Income	358,326	364,627	0.015%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.50	Fixed Income	4,355,769	4,410,059	0.184%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.50	Fixed Income	223,996	227,880	0.009%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.50	Fixed Income	4,066,639	4,138,477	0.172%
JNLIPMCO Income Fund	GLS Auto Receivables Issuer Trust 2023-2	11/15/2027	5.52	Fixed Income	7,000,000	7,032,965	0.293%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	2/1/2052	3.00	Fixed Income	424,160	381,315	0.016%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.00	Fixed Income	442,217	398,173	0.017%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.00	Fixed Income	218,455	196,697	0.008%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.00	Fixed Income	108,776	97,942	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2052	4.00	Fixed Income	789,512	695,912	0.030%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	4/1/2053	4.50	Fixed Income	475,446	469,312	0.020%
JNLIPMCO Income Fund	Prospect Mortgage, LLC	4/25/2035	6.92	Fixed Income	3,738,390	3,576,942	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Income Fund	WSTN Trust	9/8/2039	6.52	Fixed Income	800.000	823,263	0.034%
JNLIPMCO Income Fund	CPS Auto Receivables Trust 2023-C	12/16/2024	6.13	Fixed Income	575,032	577,087	0.04%
JNLIPMCO Income Fund	Windstream Holdings, Inc.			Equity	108,848	2,287,879	0.095%
JNLIPMCO Income Fund	Cross 2023-H1 Mortgage Trust	3/25/2026	6.65	Fixed Income	6,182,937	6,316,550	0.263%
JNLIPMCO Income Fund	B.A.T. International Finance P.L.C.	2/22/2029	5.93	Fixed Income	5,700,000	6,073,817	0.253%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	7/1/2053	4.50	Fixed Income	15,351,073	15,148,242	0.631%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	8/1/2053	4.50	Fixed Income	5,414,683	5,343,146	0.223%
JNLIPMCO Income Fund	Carvana Auto Receivables Trust 2023-P3	11/10/2026	5.82	Fixed Income	6,300,000	6,413,799	0.267%
JNLIPMCO Income Fund	RFMSI Series 2006-S6 Trust	7/25/2035	6.00	Fixed Income	1,585,294	1,412,324	0.059%
JNLIPMCO Income Fund	MASTR Asset Backed Securities Trust 2006-AM1	6/25/2035	6.83	Fixed Income	2,827,578	2,877,635	0.120%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/15/2053	6.50	Fixed Income	28,175,000	29,047,766	1.219%
JNLIPMCO Income Fund	Soundview Home Loan Trust	4/25/2035	6.14	Fixed Income	2,810,352	2,697,950	0.112%
JNLIPMCO Income Fund	First Franklin Mortgage Loan Trust 2006FF13	10/25/2036	5.29	Fixed Income	6,629,516	4,295,994	0.179%
JNLIPMCO Income Fund	Market Bidco Finco PLC	11/4/2027	4.75	Fixed Income	1,400,000	1,521,386	0.063%
JNLIPMCO Income Fund	MASTR Asset Backed Securities Trust 2006-AM1	11/25/2035	5.87	Fixed Income	8,889,351	5,377,978	0.218%
JNLIPMCO Income Fund	J.P. Morgan Mortgage Trust 2023-DSC1	12/25/2033	4.62	Fixed Income	4,317,978	4,269,815	0.178%
JNLIPMCO Income Fund	Nelnet Student Loan Trust 2023-A	2/20/2041	6.64	Fixed Income	2,596,336	2,658,782	0.111%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2033	1.38	Fixed Income	28,100,000	28,773,343	1.199%
JNLIPMCO Income Fund	SMB Private Education Loan Trust 2022-C	5/16/2050	7.20	Fixed Income	2,159,878	2,200,924	0.092%
JNLIPMCO Income Fund	Treasury, United States Department of	8/15/2043	4.38	Fixed Income	4,700,000	4,859,918	0.202%
JNLIPMCO Income Fund	WestMet Group Holdings			Equity	768	2,881	0.000%
JNLIPMCO Income Fund	Sound Point CLO XXVIII Ltd	1/21/2031	6.66	Fixed Income	3,675,043	3,726,318	0.155%
JNLIPMCO Income Fund	Carvana Co.	6/1/2030	13.00	Fixed Income	2,636,303	2,910,845	0.121%
JNLIPMCO Income Fund	Carvana Co.	6/1/2031	14.00	Fixed Income	3,135,856	3,749,953	0.156%
JNLIPMCO Income Fund	Barclays PLC	9/13/2029	6.49	Fixed Income	1,200,000	1,283,957	0.053%
JNLIPMCO Income Fund	Barclays PLC	9/13/2034	6.69	Fixed Income	1,400,000	1,559,143	0.065%
JNLIPMCO Income Fund	Cavalot Bank, S.A.	9/13/2034	6.84	Fixed Income	1,100,000	1,271,760	0.051%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	6/1/2053	4.50	Fixed Income	186,948	184,478	0.008%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	5/1/2053	4.50	Fixed Income	814,213	803,454	0.033%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	7/1/2053	5.50	Fixed Income	7,511,580	7,636,645	0.318%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	10/1/2053	5.50	Fixed Income	6,527,833	6,636,519	0.277%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	8/1/2053	4.50	Fixed Income	6,918,963	6,835,574	0.284%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2053	5.50	Fixed Income	13,978,569	14,211,307	0.582%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.50	Fixed Income	170,000,000	175,358,995	7.306%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/27/2031	2.75	Fixed Income	63,621,578	2,852,830	0.119%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	10/15/2053	4.50	Fixed Income	98,236	98,236	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	5/1/2053	4.50	Fixed Income	98,102	97,051	0.004%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2053	4.50	Fixed Income	868,811	857,331	0.036%
JNLIPMCO Income Fund	Avon Finance No.4 P.L.C.	12/28/2049	5.99	Fixed Income	7,250,835	9,708,863	0.405%
JNLIPMCO Income Fund	Research-Driven Payaya Motor Asset Trust 2023-3	9/25/2027	7.13	Fixed Income	5,150,690	5,277,907	0.218%
JNLIPMCO Income Fund	UBS Group AG	12/22/2027	6.33	Fixed Income	4,400,000	4,651,049	0.194%
JNLIPMCO Income Fund	UBS Group AG	9/22/2029	6.25	Fixed Income	3,000,000	3,189,901	0.133%
JNLIPMCO Income Fund	Navigent Student Loan Trust 202-2	2/25/2033	6.29	Fixed Income	5,359,788	5,319,978	0.222%
JNLIPMCO Income Fund	Magnetic XXXIX Ltd	10/15/2033	6.93	Fixed Income	7,400,000	7,486,923	0.312%
JNLIPMCO Income Fund	SLM Student Loan Trust 2012-5	3/25/2026	6.19	Fixed Income	5,704,933	5,648,211	0.235%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.00	Fixed Income	178,825,000	182,799,654	7.618%
JNLIPMCO Income Fund	Bear Stearns Asset Backed Securities I Trust 2006-HE1	12/25/2034	5.94	Fixed Income	3,367,162	3,135,593	0.131%
JNLIPMCO Income Fund	Protium Mortgage Credit Partners I, L.P.	9/25/2026	8.23	Fixed Income	3,061,864	3,159,258	0.132%
JNLIPMCO Income Fund	United Airlines Pass Through Certificates, Series 2018-1	3/1/2030	3.50	Fixed Income	780,981	739,356	0.031%
JNLIPMCO Income Fund	Energy Transfer LP	12/1/2028	6.10	Fixed Income	1,700,000	1,840,521	0.077%
JNLIPMCO Income Fund	BPCE	10/19/2029	6.71	Fixed Income	1,650,000	1,812,349	0.076%
JNLIPMCO Income Fund	BPCE	10/19/2034	7.00	Fixed Income	1,400,000	1,613,871	0.067%
JNLIPMCO Income Fund	Wells Fargo & Company	10/23/2029	6.30	Fixed Income	2,400,000	2,634,396	0.110%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/30/2028	4.00	Fixed Income	286,915,713	14,287,408	0.595%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	12/3/2026	3.00	Fixed Income	209,348,624	10,129,502	0.422%
JNLIPMCO Income Fund	Venture Global LNG, Inc.	8/1/2029	5.50	Fixed Income	200,000	228,007	0.009%
JNLIPMCO Income Fund	Venture Global LNG, Inc.	2/1/2032	9.88	Fixed Income	3,000,000	3,382,910	0.141%
JNLIPMCO Income Fund	Banco Santander, S.A.	11/7/2027	6.53	Fixed Income	1,500,000	1,603,288	0.067%
JNLIPMCO Income Fund	Banco Santander, S.A.	11/7/2028	6.61	Fixed Income	1,200,000	1,330,884	0.055%
JNLIPMCO Income Fund	Palmer Square European Loan Funding 2023-3 Designated Activity Company	5/15/2033	5.04	Fixed Income	5,417,014	6,084,865	0.254%
JNLIPMCO Income Fund	Amisurg Corp			Equity	89,453	5,979,244	0.248%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	3/1/2029	8.50	Fixed Income	80,500,000	4,009,946	0.167%
JNLIPMCO Income Fund	Bayer US Finance LLC	1/21/2029	6.25	Fixed Income	3,700,000	3,955,931	0.165%
JNLIPMCO Income Fund	Gaz Finance PLC	12/7/2029	2.95	Fixed Income	6,400,000	3,110,678	0.130%
JNLIPMCO Income Fund	Harley Marine Financing LLC	12/15/2027	9.25	Fixed Income	75,000	78,107	0.003%
JNLIPMCO Income Fund	Harley Marine Financing LLC	12/15/2027	9.75	Fixed Income	85,182	87,232	0.004%
JNLIPMCO Income Fund	UBS Group AG	2/8/2035	5.70	Fixed Income	200,000	212,991	0.009%
JNLIPMCO Income Fund	Lloyds Banking Group PLC	1/15/2035	5.68	Fixed Income	700,000	743,347	0.031%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	9/15/2053	6.00	Fixed Income	281,179	2,088,558	0.087%
JNLIPMCO Income Fund	Treasury, United States Department of	1/15/2034	1.75	Fixed Income	3,000,000	3,116,661	0.130%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	10/1/2053	6.50	Fixed Income	12,702,724	13,183,302	0.549%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	12/1/2053	6.50	Fixed Income	1,446,748	1,499,674	0.062%
JNLIPMCO Income Fund	Romania, Government of	3/22/2031	5.38	Fixed Income	1,420,000	1,587,863	0.066%
JNLIPMCO Income Fund	Romania, Government of	2/22/2036	5.63	Fixed Income	1,040,000	1,188,769	0.050%
JNLIPMCO Income Fund	Poseidon Bidco SASU	12/31/2049		Fixed Income	2,100,000	1,788,275	0.075%
JNLIPMCO Income Fund	NatWest Group PLC	3/1/2035	5.78	Fixed Income	1,000,000	1,067,377	0.044%
JNLIPMCO Income Fund	Ford Motor Credit Company LLC	3/8/2029	5.90	Fixed Income	1,100,000	1,122,972	0.047%
JNLIPMCO Income Fund	Banco Bilbao Vizcaya Argentaria, S.A.	3/13/2035	6.03	Fixed Income	800,000	852,066	0.036%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	1/1/2054	6.50	Fixed Income	25,502,321	26,435,264	1.101%
JNLIPMCO Income Fund	Spirit Airlines, Inc.	2/15/2030	3.38	Fixed Income	259,455	233,331	0.010%
JNLIPMCO Income Fund	J.P. Morgan Mortgage Trust 2024-MS1	9/1/2054	6.00	Fixed Income	4,732,458	4,919,489	0.201%
JNLIPMCO Income Fund	Madison Peak Funding XXXIX LTD	10/18/2030	6.46	Fixed Income	7,259,242	7,372,718	0.307%
JNLIPMCO Income Fund	Marathon CLO XIII Ltd	4/15/2032	6.50	Fixed Income	9,882,414	10,026,562	0.418%
JNLIPMCO Income Fund	Treasury, United States Department of	3/31/2026	4.50	Fixed Income	33,600,000	33,955,906	1.415%
JNLIPMCO Income Fund	Panama Infrastructure Receivable Purchaser PLC	4/5/2032	6.48	Fixed Income	6,449,000	4,494,051	0.187%
JNLIPMCO Income Fund	CarVal CLO I Ltd	7/16/2033	6.25	Fixed Income	12,741,061	12,925,108	0.539%
JNLIPMCO Income Fund	Treasury, United States Department of	4/15/2027	4.50	Fixed Income	33,800,000	35,241,695	1.488%
JNLIPMCO Income Fund	Sound Point CLO XXVIII Ltd	1/26/2032	6.56	Fixed Income	12,700,000	12,857,516	0.536%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2033	7.30	Fixed Income	6,800,000	2,010,693	0.084%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	12/12/2037	6.50	Fixed Income	2,900,000	811,178	0.034%
JNLIPMCO Income Fund	Boeing Company, The	5/1/2034	6.53	Fixed Income	300,000	330,250	0.014%
JNLIPMCO Income Fund	Boeing Company, The	5/1/2027	6.26	Fixed Income	630,000	666,790	0.028%
JNLIPMCO Income Fund	Al Sirk Midco Limited	2/21/2031	8.35	Fixed Income	1,000,000	1,113,865	0.046%
JNLIPMCO Income Fund	Treasury, United States Department of	5/15/2054	4.63	Fixed Income	22,300,000	24,289,558	1.012%
JNLIPMCO Income Fund	Romania, Government of	5/30/2037	5.63	Fixed Income	1,500,000	1,677,354	0.070%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	5/1/2034	4.38	Fixed Income	100,000	97,307	0.004%
JNLIPMCO Income Fund	Windstream Services, LLC	2/28/2027	9.25	Fixed Income	1,000,000	997,575	0.042%
JNLIPMCO Income Fund	Envision Healthcare Corporation	11/3/2028	13.20	Fixed Income	15,444,040	16,147,125	0.678%
JNLIPMCO Income Fund	Envision Healthcare Corporation	7/20/2026	11.08	Fixed Income	2,591,395	2,636,050	0.110%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	4/30/2031	7.13	Fixed Income	100,000	106,895	0.004%
JNLIPMCO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos	9/3/2026	7.00	Fixed Income	30,000,000	1,465,377	0.061%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	11/8/2031	4.38	Fixed Income	400,000	321,144	0.013%
JNLIPMCO Income Fund	SMB Private Education Loan Trust 2024-D	7/5/2053	6.59	Fixed Income	3,797,815	3,779,281	0.157%
JNLIPMCO Income Fund	Turkiye Cumhuriyeti Basbakanlik	5/1/2028	53.64	Fixed Income	116,800,000	3,593,394	0.150%
JNLIPMCO Income Fund	Saudi Arabian Oil Company	7/1/2054	5.75	Fixed Income	800,000	820,100	0.034%
JNLIPMCO Income Fund	Treasury, United States Department of	11/12/2024	5.70	Cash Equivalent	265,000	265,552	0.011%
JNLIPMCO Income Fund	Saudi Arabian Oil Company	7/1/2054	5.88	Fixed Income	1,000,000	1,020,903	0.043%
JNLIPMCO Income Fund	Saudi Arabian Oil Company	7/1/2034	5.25	Fixed Income	600,000	622,589	0.026%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	3/1/2053	4.00	Fixed Income	199,268	192,025	0.008%
JNLIPMCO Income Fund	Federal Home Loan Mortgage Corporation	8/1/2054	5.00	Fixed Income	396,512	397,856	0.017%
JNLIPMCO Income Fund	Turkiye Cumhuriyeti Basbakanlik	8/19/2026	53.64	Fixed Income	500,000	15,580	0.001%
JNLIPMCO Income Fund	Turkiye Cumhuriyeti Basbakanlik	5/20/2026	53.64	Fixed Income	600,000	18,707	0.001%
JNLIPMCO Income Fund	Morgan Stanley Bank, National Association	7/14/2028	4.97	Fixed Income	7,700,000	7,930,220	0.330%
JNLIPMCO Income Fund	RCKT Mortgage Trust 2024-CE55	7/25/2028	5.85	Fixed Income	5,479,155	5,575,328	0.232%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	2/9/2032	6.50	Fixed Income	100,000	103,788	0.004%
JNLIPMCO Income Fund	Treasury, United States Department of	7/15/2034	1.88	Fixed Income	25,500,000	26,234,731	1.093%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	4/30/2044	7.75	Fixed Income	200,000	215,740	0.009%
JNLIPMCO Income Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/12/2039	7.80	Fixed Income	1,000,000	301,649	0.013%
JNLIPMCO Income Fund	Federal National Mortgage Association, Inc.	11/15/2054	7.00	Fixed Income	26,400,000	27,435,461	1.143%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	12/23/2027	1.60	Fixed Income	200,000	146,489	0.006%
JNLIPMCO Income Fund	Upfield B.V.	1/3/2028	8.18	Fixed Income	2,600,000	2,914,540	0.121%
JNLIPMCO Income Fund	Thames Water Utilities Finance PLC	2/25/2028	3.50	Fixed Income	100,000	99,742	0.004%
JNLIPMCO Income Fund	Santander Holdings USA, Inc.	9/6/2030	5.35	Fixed Income	700,000	710,116	0.029%
JNLIPMCO Income Fund	Barclays PLC	9/10/2035	5.34	Fixed Income	1,300,000	1,318,648	0.055%
JNLIPMCO Income Fund	Santander UK Group Holdings PLC	9/11/2030	4.86	Fixed Income	800,000	808,123	0.034%
JNLIPMCO Income Fund	Deutsche Bank Aktiengesellschaft	9/11/2035	5.40	Fixed Income	200,000	202,166	0.008%
JNLIPMCO Income Fund	Janus Henderson Asia Holdings (S) Inc.	9/18/2034	5.45	Fixed Income	400,000	399,930	0.017%
JNLIPMCO Income Fund	Woodside Finance Limited	9/12/2034	5.10	Fixed Income	900,000	896,362	0.037%
JNLIPMCO Income Fund	Mediapro Incremental Facility	8/14/2029	9.34	Fixed Income	1,200,0		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPIMCO Income Fund	Bought BRL / Sold USD			Derivative		193.136	0.008%
JNLIPIMCO Income Fund	Bought CHF / Sold USD			Derivative		12.233	0.000%
JNLIPIMCO Income Fund	Bought CNY / Sold USD			Derivative		190	0.000%
JNLIPIMCO Income Fund	Bought CNY / Sold USD			Derivative		110	0.000%
JNLIPIMCO Income Fund	Bought CNY / Sold USD			Derivative		180	0.000%
JNLIPIMCO Income Fund	Bought EUR / Sold USD			Derivative		5.251	0.000%
JNLIPIMCO Income Fund	Bought EUR / Sold USD			Derivative		(4.079)	0.000%
JNLIPIMCO Income Fund	Bought EUR / Sold USD			Derivative		(214.301)	-0.009%
JNLIPIMCO Income Fund	Bought GBP / Sold USD			Derivative		23.891	0.001%
JNLIPIMCO Income Fund	Bought IDR / Sold USD			Derivative		1.622	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		2.444	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		2.510	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		5.002	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		4.751	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		4.838	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		5.087	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		7.585	0.000%
JNLIPIMCO Income Fund	Bought INR / Sold USD			Derivative		(109)	0.000%
JNLIPIMCO Income Fund	Bought JPY / Sold USD			Derivative		172.715	0.007%
JNLIPIMCO Income Fund	Bought JPY / Sold USD			Derivative		63.544	0.003%
JNLIPIMCO Income Fund	Bought JPY / Sold USD			Derivative		(251.876)	-0.010%
JNLIPIMCO Income Fund	Bought JPY / Sold USD			Derivative		(33.009)	-0.001%
JNLIPIMCO Income Fund	Bought MXN / Sold USD			Derivative		(78.045)	-0.003%
JNLIPIMCO Income Fund	Bought MXN / Sold USD			Derivative		(37.681)	-0.002%
JNLIPIMCO Income Fund	Bought MXN / Sold USD			Derivative		(90.429)	-0.004%
JNLIPIMCO Income Fund	Bought PEN / Sold USD			Derivative		1.617	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		45.959	0.002%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		46.942	0.002%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		7.979	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		0	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		39.408	0.002%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		34.965	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		9.164	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		13.243	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		13.867	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		14.527	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		14.158	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		3.404	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		19.209	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		11.634	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		21.237	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		20.884	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		25.938	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		31.119	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		14.690	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		12.724	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		11.403	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		25.686	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		59.427	0.002%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		20.347	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		7.767	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		23.277	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		23.016	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		9.552	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		3.612	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		29.444	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		33.590	0.001%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		0	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		5.056	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		567	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		4.249	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		2.282	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		7.698	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		1.130	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		1.234	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		2.758	0.000%
JNLIPIMCO Income Fund	Bought TRY / Sold USD			Derivative		(3.146)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		78.432	0.003%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		37.605	0.002%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		92.374	0.004%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		288.905	0.012%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		641.368	0.027%
JNLIPIMCO Income Fund	Bought USD / Sold CNY			Derivative		(1.588)	-0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(14.635)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold ZAR			Derivative		(835.681)	-0.035%
JNLIPIMCO Income Fund	Bought USD / Sold ZAR			Derivative		(2.523)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		(893)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(11.388)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TRY			Derivative		(59.459)	-0.002%
JNLIPIMCO Income Fund	Bought USD / Sold TRY			Derivative		(7.773)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold ZAR			Derivative		(6.171)	-0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(5.904)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(8.996)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold ZAR			Derivative		(14.088)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(9.769)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold ZAR			Derivative		(30.414)	0.001%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(8.303)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(9.400)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold CNY			Derivative		(1.88)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold ZAR			Derivative		(6.536)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		(473)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		2.472	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold TWD			Derivative		846	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold CNY			Derivative		(108)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold CNY			Derivative		(177)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(3.440)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold EUR			Derivative		21.444	0.001%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(657)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold AUD			Derivative		(24.383)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold GBP			Derivative		(486.363)	-0.020%
JNLIPIMCO Income Fund	Bought USD / Sold CHF			Derivative		1.500	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold EUR			Derivative		(3.527)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold GBP			Derivative		(9.362)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(2.075)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(4.705)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(6.125)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(7.404)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(3.642)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(9.980)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(13.973)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(14.459)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(14.806)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(29.521)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(3.371)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold EUR			Derivative		(37.960)	-0.002%
JNLIPIMCO Income Fund	Bought USD / Sold EUR			Derivative		(9.786)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(88.035)	-0.004%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(119.489)	-0.005%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(26.151)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(12.063)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(3.202)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(14.275)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(13.607)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		(78.397)	-0.003%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		(115.328)	-0.005%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(4.227)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(10.100)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(28.871)	-0.001%
JNLIPIMCO Income Fund	Bought USD / Sold MXN			Derivative		492	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(40.673)	-0.002%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(5.059)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(3.042)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(2.789)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold EUR			Derivative		(4.012)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold BRL			Derivative		(186.580)	-0.008%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(1.515)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(6.739)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold PEN			Derivative		(6.804)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold GBP			Derivative		32	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold AUD			Derivative		(7.221)	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold CHF			Derivative		1.993	0.000%
JNLIPIMCO Income Fund	Bought USD / Sold EUR			Derivative		205.790	0.009%
JNLIPIMCO Income Fund	Bought USD / Sold GBP			Derivative		30.070	0.001%
JNLIPIMCO Income Fund	Bought ZAR / Sold USD			Derivative		29.824	0.001%
JNLIPIMCO Income Fund	Bought ZAR / Sold USD			Derivative		33.335	0.001%
JNLIPIMCO Income Fund	Bought ZAR / Sold USD			Derivative		18.787	0.001%
JNLIPIMCO Income Fund	Bought ZAR / Sold USD			Derivative		4.412	0.000%
JNLIPIMCO Income Fund	USD/MXN Spot Rate OPTION			Derivative	2,000,000	(194.631)	-0.008%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Income Fund	USDMMN Spot Rate OPTION			Derivative	943.000	(94.514)	-0.004%
JNLIPMCO Income Fund	USDMMN Spot Rate OPTION			Derivative	2,989.000	(231.850)	-0.01%
JNLIPMCO Income Fund	USDTRY Spot Rate OPTION			Derivative	-6,700.000	(189.193)	-0.008%
JNLIPMCO Income Fund	USDTRY Spot Rate OPTION			Derivative	-6,700.000	(130.540)	-0.005%
JNLIPMCO Income Fund	USDTRY Spot Rate OPTION			Derivative	-1,000.000	(2.788)	0.000%
JNLIPMCO Income Fund	USDTRY Spot Rate OPTION			Derivative	-1,000.000	(11.749)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-3,800.000	(5.024)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-3,800.000	(458)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-3,800.000	(12,518)	-0.001%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-3,800.000	(189)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-3,100.000	(7,526)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-3,100.000	(780)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-2,100.000	(7,808)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-2,100.000	(529)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-2,100.000	(7,498)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-2,100.000	(561)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-2,500.000	(10,066)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-2,500.000	(558)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,500.000	(3,315)	0.000%
JNLIPMCO Income Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,500.000	(1,394)	0.000%
JNLIPMCO Income Fund	Euro Schatz FUTURE - PHYSICALLY DELIVERED			Derivative	-1	(540)	0.000%
JNLIPMCO Income Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	824	180.374	0.008%
JNLIPMCO Income Fund	Long Gilt FUTURE - PHYSICALLY DELIVERED			Derivative	651	(1,058.523)	-0.044%
JNLIPMCO Income Fund	Euro BOBL FUTURE - PHYSICALLY DELIVERED			Derivative	-149	(186.902)	-0.008%
JNLIPMCO Income Fund	Euro Bund Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-14	1.759	0.000%
JNLIPMCO Income Fund	Euro Bund Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-14	4.333	0.000%
JNLIPMCO Income Fund	Euro Bund FUTURE - PHYSICALLY DELIVERED			Derivative	-316	(610.801)	-0.025%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-163	(4,215)	0.000%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-27	53.806	0.002%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-175	(34,004)	-0.001%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-173	147.163	0.006%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-23	52.022	0.002%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-163	48.233	0.002%
JNLIPMCO Income Fund	3 Month SOFR Index FUTURE - CASH SETTLED			Derivative	-31	65.630	0.003%
JNLIPMCO Income Fund	28-Day MEXBOR EXCHANGE CLEARED IRS			Derivative	15,600.000	(9.785)	0.000%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	5,400.000	2,72.669	0.000%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,500.000	1,345.207	0.056%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	300.000	3.070	0.000%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	500.000	12.821	0.001%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	300.000	11.439	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,220.000	355.930	0.015%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	127,110.000	(9,125.953)	-0.380%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	6,580.000.000	1,418.700	0.059%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	12,430.000.000	2,258.240	0.091%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	22,200.000	479.081	0.020%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	276.000.000	171.405	0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,200.000	(91.571)	-0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,230.000	13.244	0.001%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	1,800.000	(1,049)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	1,800.000	(343)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	900.000	(759)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	1,600.000	(3,401)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	900.000	(234)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	1,100.000	(1,079)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	600.000	(1,915)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	100.000	(530)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	600.000	(4,067)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	300.000	(1,946)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	300.000	(1,979)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	400.000	(1,704)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	500.000	(2,669)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS			Derivative	300.000	(1,570)	0.000%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	8,200.000	(307.068)	-0.013%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	569.400.000	98.868	0.004%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	280.000.000	(28.172)	-0.001%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	130.000.000	84.151	0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,700.000	(104.775)	-0.004%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	8,200.000	(307.837)	-0.013%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	11,200.000	(3,480.897)	-0.13%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	5,400.000	(154.281)	-0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,100.000	(11,934)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	6,470.000	(18.107)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	5,540.000	54.239	0.002%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	25,380.000	(637.787)	-0.027%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	56,400.000	309.246	0.013%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	15,900.000	278.960	0.012%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	28,300.000	202.969	0.008%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,300.000	(43.542)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,500.000	(39.687)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,600.000	(12.251)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,600.000	(14.717)	-0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,600.000	(11.580)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,200.000	(26.050)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,460.000	(25.480)	-0.001%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	23,200.000	1,465.537	0.061%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,620.000	(24.775)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	9,880.000	114.354	0.005%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,040.000	(6.205)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	50,500.000	117.234	0.005%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	65,870.000	65.030	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,820.000	(965)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	24,300.000	375.190	0.016%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	107,380.000	(2,550.503)	-0.106%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	238,090.000	594.410	0.025%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,500.000	47.681	0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,800.000	15.949	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,200.000	(54.683)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,810.000	23.078	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	33,500.000	3,977.291	0.166%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	35,800.000	1,764.464	0.074%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,000.000	204.372	0.009%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,600.000	21.284	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	139,040.000	602.354	0.025%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	63,690.000	(1,519.877)	-0.063%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,500.000	53.414	0.002%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	5,800.000	126.975	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	69,000.000	9,630.997	0.401%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	19,903.000	(1,522.637)	-0.063%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	59,600.000	(6,589.566)	-0.275%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,300.000	949.506	0.040%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,000.000	(80.001)	-0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	500.000	212.642	0.009%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,700.000	(128.606)	-0.005%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,200.000	71.897	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,300.000	1,903.549	0.075%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	10,460.000	(961.743)	-0.040%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	59,100.000	3,267.005	0.138%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,500.000	474.270	0.020%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,400.000	23.857	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	900.000	365.700	0.015%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,700.000	232.932	0.010%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	14,824.000	(2,257.039)	-0.094%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,700.000	(206.055)	-0.008%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	300.000	(94.454)	-0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,980.000	158.940	0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	11,500.000	583.551	0.024%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,600.000	971.201	0.039%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	20,600.000	(902.125)	-0.038%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,500.000	156.250	0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	5,900.000	785.784	0.033%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,800.000	237.607	0.009%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	11,500.000	4,676.535	0.195%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	7,200.000	(503.235)	-0.021%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,300.000	413.536	0.017%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	6,200.000	515.225	0.013%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,100.000	(284.972)	-0.011%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,000.000	(248.768)	-0.010%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,400.000	(166.705)	-0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,400.000	(174.586)	-0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,300.000	(150.022)	-0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	300.000	(91.661)	-0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	33,200.000	(1,404.274)	-0.059%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	90,900.000	(2,275.450)	-0.095%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,500.000	(463.786)	-0.017%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	600.000	274.919	0.011%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,100.000	(308.238)	-0.013%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	33,100.000	4,153.436	0.173%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,800.000	140.732	0.006%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,700,000	237,505	0.010%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			12,800,000	(4,415,793)	-0.186%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			5,700,000	263,294	0.011%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			7,600,000	147,436	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			7,600,000	148,355	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,600,000	16,279	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			4,800,000	1,157,337	0.048%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			11,000,000	111,955	0.005%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,800,000	517,026	0.022%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,700,000	180,510	0.008%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			34,000,000	(1,678,452)	-0.070%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,600,000	(175,168)	-0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,630,000	(58,173)	-0.002%
JNLIPMCO Income Fund	Bank of Canada Overnight Repo Rate EXCHANGE CLEARED IRS	Derivative			24,800,000	376,434	0.016%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			18,400,000	(536,793)	-0.022%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			51,190,000	(1,499,134)	-0.062%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			900,000	37,245	0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			8,320,000	422,898	0.018%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			8,400,000	131,579	0.005%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			12,600,000	160,697	0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			4,200,000	145,819	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,900,000	24,555	0.001%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			18,900,000	(123,066)	-0.005%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			7,300,000	(64,812)	-0.003%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,000,000	9,153	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			6,000,000	13,647	0.001%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			2,000,000	4,512	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			1,600,000	3,624	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			29,400,000	(268,015)	-0.011%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,400,000	46,691	0.002%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			2,400,000	5,506	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,100,000	9,658	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			19,000,000	(124,394)	-0.005%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,100,000	9,690	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,100,000	9,660	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			19,200,000	(131,529)	-0.005%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			15,600,000	(145,656)	-0.006%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			12,100,000	(89,065)	-0.004%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			6,100,000	(44,276)	-0.002%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS	Derivative			2,400,000	6,036	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,300,000	10,752	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,200,000	9,540	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			10,200,000	23,077	0.001%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,300,000	9,690	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			4,200,000	9,277	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			17,500,000	(166,650)	-0.007%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			2,300,000	5,201	0.000%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			7,700,000	17,277	0.001%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			9,500,000	(66,986)	-0.003%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			4,300,000	(39,981)	-0.002%
JNLIPMCO Income Fund	3M JIBAR EXCHANGE CLEARED IRS	Derivative			7,700,000	16,734	0.001%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS	Derivative			1,600,000	133,588	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			4,600,000	164,623	0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	89,527	0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,200,000	102,596	0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			4,700,000	269,364	0.011%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	157,458	0.007%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS	Derivative			3,000,000	146,121	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	152,985	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	66,042	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	16,036	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			9,400,000	(9,141)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			800,000	81,419	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	165,761	0.007%
JNLIPMCO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS	Derivative			2,800,000	146,236	0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,800,000	(5,798)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(5,622)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(5,728)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(5,380)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(6,386)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(7,863)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,400,000	126,310	0.005%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,500,000	3,927	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(8,223)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,700,000	(10,060)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			7,200,000	(12,997)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			7,200,000	(14,263)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,400,000	(179,587)	-0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			7,300,000	(16,920)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			7,300,000	(16,218)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			3,680,000	(49,516)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			6,120,000	(99,891)	-0.004%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,400,000	(138,463)	-0.006%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			53,380,000	(799,935)	-0.033%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			16,930,000	(382,650)	-0.016%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			5,570,000	(47,355)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			8,380,000	(168,124)	-0.007%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			11,230,000	688,718	0.029%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			5,530,000	355,771	0.015%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,300,000	65,127	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	(62,587)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	(36,380)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	(48,418)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	(42,263)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	(63,065)	-0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,400,000	(55,569)	-0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	(13,102)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			500,000	(8,560)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	(13,385)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	(13,326)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			400,000	(7,733)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			400,000	(7,415)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	(28,365)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			200,000	(3,197)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			500,000	(8,027)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			400,000	(6,499)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			500,000	(8,731)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			900,000	(16,177)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			500,000	(10,135)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			400,000	(9,509)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	(16,719)	-0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(6,749)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			200,000	(4,641)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			500,000	(11,996)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	41,332	0.002%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			700,000	24,278	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(7,926)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(8,155)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	70,024	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	66,342	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(7,699)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(7,788)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(7,107)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			300,000	(7,991)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			200,000	(5,246)	0.000%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	30,302	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,100,000	37,053	0.001%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			4,600,000	205,268	0.009%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			6,800,000	187,447	0.008%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			2,300,000	66,429	0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,200,000	38,427	0.002%
JNLIPMCO Income Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS	Derivative			4,500,000	(27,332)	-0.001%
JNLIPMCO Income Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS	Derivative			1,700,000	50,025	0.002%
JNLIPMCO Income Fund	6M Australian Bank Bill Short Term Rate EXCHANGE CLEARED IRS	Derivative			26,300,000	(91,289)	-0.004%
JNLIPMCO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS	Derivative			1,640,000,000	(222,864)	-0.009%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			1,100,000	110,897	0.005%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			7,530,000	(54,032)	-0.002%
JNLIPMCO Income Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS	Derivative			1,000,000	(8,425)	0.000%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			22,760,000	(160,795)	-0.007%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			19,260,000	(130,561)	-0.005%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			11,540,000	(78,335)	-0.003%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			26,950,000	(178,677)	-0.007%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			3,880,000	(25,608)	-0.001%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			26,020,000	(172,624)	-0.007%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			23,090,000	(154,905)	-0.006%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			11,500,000	(77,121)	-0.003%
JNLIPMCO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS	Derivative			4,000,000	(33,972)	-0.001%
JNLIPMCO Income Fund	BRAZIBOR EXCHANGE CLEARED IRS	Derivative			20,480,000	(125,354)	-0.005%

Instrument Name	Invested	Maturity	Coupon %	Asset Type	Shares Per	Value (\$)	% Of Total Investments
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,500,000	130,849	0.005%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,400,000	63,721	0.003%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,300,000	144,809	0.006%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,300,000	145,924	0.006%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,300,000	140,030	0.005%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	1,600,000	65,005	0.003%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,400,000	65,072	0.003%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,200,000	147,934	0.006%
JNLPMCMO Income Fund	3M New Zealand Bank Bill Forward Rate Agreement EXCHANGE CLEARED IRS			Derivative	2,200,000	246,171	0.011%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	1,800,000	63,446	0.003%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	95,900,000	(1,117,800)	-0.047%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	460,000	(962)	-0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	460,000	(1,115)	-0.000%
JNLPMCMO Income Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	3,190,000,000	(139,841)	-0.006%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,300,000	(187,117)	-0.008%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,000,000	(179,913)	-0.007%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,800,000	(153,387)	-0.006%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,800,000	(105,554)	-0.004%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,800,000	(116,501)	-0.005%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	270,000	(7,649)	-0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	680,000	(11,967)	-0.000%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	74,800,000	960,314	0.036%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	990,000	(4,155)	-0.000%
JNLPMCMO Income Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	600,000	(303)	-0.000%
JNLPMCMO Income Fund	28-Day MEXIBOR EXCHANGE CLEARED IRS			Derivative	400,000	(2,047)	-0.000%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,400,000	(56,027)	-0.002%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,070,000	(10,350)	-0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,500,000	(14,749)	-0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,800,000	(69,571)	-0.002%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,200,000	(10,154)	-0.000%
JNLPMCMO Income Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	16,474,000	(97,580)	-0.004%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,750,000	(17,840)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,800,000	(95,517)	-0.004%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	410,000	(968)	-0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,010,000	4,896	0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,140,000	(16,196)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,340,000	(13,699)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	7,900,000	(28,521)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	16,180,000	(55,641)	-0.002%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,900,000	(19,742)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,600,000	(34,032)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,700,000	(26,978)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,700,000	(47,892)	-0.002%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,400,000	(19,250)	-0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	10,300,000	4,295	0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	21,700,000	95,247	0.003%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	5,300,000	91,691	0.004%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,200,000	7,693	0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,800,000	15,511	0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,700,000	26,521	0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,700,000	21,188	0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	6,800,000	37,640	0.002%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	4,300,000	30,465	0.001%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	3,400,000	34,315	0.001%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,200,000	(300,576)	-0.013%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,300,000	(201,090)	-0.008%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	3,100,000	(315,116)	-0.013%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,400,000	(134,884)	-0.005%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,100,000	(164,734)	-0.007%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,600,000	(236,477)	-0.010%
JNLPMCMO Income Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	3,100,000	(402,131)	-0.017%
JNLPMCMO Income Fund	CMBX.NA.AA.5 CREDIT DEFAULT SWAP-ABXCMXB SWAP INDEX			Derivative	-23,923,045	(2,841)	-0.000%
JNLPMCMO Income Fund	CMBX.NA.AA.10 CREDIT DEFAULT SWAP-ABXCMXB SWAP INDEX			Derivative	-36,200,000	(4,350)	-0.000%
JNLPMCMO Income Fund	Gobierno Federal de los Estados Unidos Mexicanos CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,500,000	3,274	0.000%
JNLPMCMO Income Fund	CMBX.NA.AA.11 CREDIT DEFAULT SWAP-ABXCMXB SWAP INDEX			Derivative	-7,500,000	(15,806)	-0.001%
JNLPMCMO Income Fund	Presidencia da Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-700,000	1,317	0.000%
JNLPMCMO Income Fund	CDX.EM.32.V4 EXCHANGE CLEARED CDS - INDEX			Derivative	-1,270,000	2,399	0.000%
JNLPMCMO Income Fund	Presidencia da Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-500,000	941	0.000%
JNLPMCMO Income Fund	CMBX.NA.AA.13 CREDIT DEFAULT SWAP-ABXCMXB SWAP INDEX			Derivative	-79,500,000	(454,183)	-0.019%
JNLPMCMO Income Fund	CDX.NA.HY.34.V3 EXCHANGE CLEARED CDS - INDEX			Derivative	-352,000	6,555	0.000%
JNLPMCMO Income Fund	CDX.EM.34.V3 EXCHANGE CLEARED CDS - INDEX			Derivative	-2,844,000	49,568	0.002%
JNLPMCMO Income Fund	Rolls-Royce Group PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-4,400,000	166,713	0.007%
JNLPMCMO Income Fund	CDX.NA.HY.35.V5 EXCHANGE CLEARED CDS - INDEX			Derivative	-192,000	4,918	0.000%
JNLPMCMO Income Fund	Presidencia da Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-10,600,000	71,193	0.003%
JNLPMCMO Income Fund	General Electric Company EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-4,500,000	49,568	0.002%
JNLPMCMO Income Fund	CDX.NA.HY.36.V5 EXCHANGE CLEARED CDS - INDEX			Derivative	-9,024,000	255,320	0.011%
JNLPMCMO Income Fund	Presidencia da Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-7,200,000	48,515	0.002%
JNLPMCMO Income Fund	EADS Finance EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-6,500,000	42,448	0.002%
JNLPMCMO Income Fund	EADS Finance EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-100,000	1,532	0.000%
JNLPMCMO Income Fund	CMBX.NA.AA.11 CREDIT DEFAULT SWAP-ABXCMXB SWAP INDEX			Derivative	-7,800,000	(16,439)	-0.001%
JNLPMCMO Income Fund	CDX.EM.36.V3 EXCHANGE CLEARED CDS - INDEX			Derivative	-12,236,000	255,554	0.011%
JNLPMCMO Income Fund	Departamento Administrativo De La Presidencia De La Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,000,000	2,781	0.000%
JNLPMCMO Income Fund	CDX.NA.HY.37.V5 EXCHANGE CLEARED CDS - INDEX			Derivative	-2,688,000	128,348	0.005%
JNLPMCMO Income Fund	Rolls-Royce Group PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,300,000	44,760	0.002%
JNLPMCMO Income Fund	Turkiye Cumhuriyeti Basbakanlik CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,810,000	2,830	0.000%
JNLPMCMO Income Fund	South Africa, Parliament of CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,200,000	9,330	0.000%
JNLPMCMO Income Fund	Departamento Administrativo De La Presidencia De La Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-300,000	(9,093)	-0.000%
JNLPMCMO Income Fund	Turkiye Cumhuriyeti Basbakanlik CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-700,000	1,075	0.000%
JNLPMCMO Income Fund	Ford Motor Credit Company LLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-600,000	12,415	0.001%
JNLPMCMO Income Fund	Departamento Administrativo De La Presidencia De La Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-300,000	(585)	-0.000%
JNLPMCMO Income Fund	Rolls-Royce Group PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,500,000	104,022	0.004%
JNLPMCMO Income Fund	Turkiye Cumhuriyeti Basbakanlik CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,200,000	1,532	0.000%
JNLPMCMO Income Fund	Turkiye Cumhuriyeti Basbakanlik CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-100,000	156	0.000%
JNLPMCMO Income Fund	Departamento Administrativo De La Presidencia De La Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-200,000	(390)	-0.000%
JNLPMCMO Income Fund	Turkiye Cumhuriyeti Basbakanlik CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-200,000	313	0.000%
JNLPMCMO Income Fund	Ford Motor Credit Company LLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-900,000	38,451	0.001%
JNLPMCMO Income Fund	CDX.EM.38 EXCHANGE CLEARED CDS - INDEX			Derivative	-1,600,000	74,380	0.003%
JNLPMCMO Income Fund	Turkiye Cumhuriyeti Basbakanlik CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-500,000	782	0.000%
JNLPMCMO Income Fund	CDX.NA.HY.39.V4 EXCHANGE CLEARED CDS - INDEX			Derivative	-485,000	39,544	0.002%
JNLPMCMO Income Fund	Departamento Administrativo De La Presidencia De La Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-100,000	(1,532)	-0.000%
JNLPMCMO Income Fund	CDX.EM.39 EXCHANGE CLEARED CDS - INDEX			Derivative	-900,000	35,227	0.001%
JNLPMCMO Income Fund	CDX.NA.HY.40.V3 EXCHANGE CLEARED CDS - INDEX			Derivative	-294,000	17,633	0.001%
JNLPMCMO Income Fund	Verizon Communications Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-3,900,000	80,743	0.003%
JNLPMCMO Income Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-3,700,000	96,271	0.004%
JNLPMCMO Income Fund	Verizon Communications Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-900,000	20,381	0.001%
JNLPMCMO Income Fund	CDX.NA.G.41 EXCHANGE CLEARED CDS - INDEX			Derivative	-100,000	986	0.000%
JNLPMCMO Income Fund	CDX.EM.40 EXCHANGE CLEARED CDS - INDEX			Derivative	-5,000,000	117,678	0.005%
JNLPMCMO Income Fund	CDX.NA.HY.41.V2 EXCHANGE CLEARED CDS - INDEX			Derivative	-2,910,000	310,547	0.012%
JNLPMCMO Income Fund	Verizon Communications Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-2,400,000	3,139	0.000%
JNLPMCMO Income Fund	CDX.NA.G.42 EXCHANGE CLEARED CDS - INDEX			Derivative	-12,100,000	42,436	0.002%
JNLPMCMO Income Fund	CDX.EM.41 EXCHANGE CLEARED CDS - INDEX			Derivative	-1,500,000	19,131	0.001%
JNLPMCMO Income Fund	CDX.NA.HY.42 EXCHANGE CLEARED CDS - INDEX			Derivative	-11,400,000	218,583	0.009%
JNLPMCMO Income Fund	CDX.NA.G.43 EXCHANGE CLEARED CDS - INDEX			Derivative	-20,000,000	(3,359)	-0.000%
JNLPMCMO Income Fund	CDX.EM.42 EXCHANGE CLEARED CDS - INDEX			Derivative	-1,400,000	1,113	0.000%
JNLPMCMO Income Fund	CDX.NA.HY.43 EXCHANGE CLEARED CDS - INDEX			Derivative	-23,300,000	(26,179)	-0.001%
JNLPMCMO Income Fund	CMBX.NA.AA.5 CREDIT DEFAULT SWAP-ABXCMXB SWAP INDEX			Derivative	-15,955	(963)	-0.000%
JNLPMCMO Income Fund	CDX.NA.HY.33.V3 CREDIT DEFAULT SWAP CREDIT TRANCHE			Derivative	-13,554,638	171,816	0.007%
JNLPMCMO Income Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-500,000	2,563	0.000%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	12,000,000	(101,497)	-0.004%
JNLPMCMO Income Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	2,000,000	(963)	-0.000%
JNLPMCMO Income Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-15	10,293	0.000%
JNLPMCMO Income Fund	United States 10 Year Note Future, Dec. 2024 OPTION			Derivative	-22	(1,375)	-0.000%
JNLPMCMO Income Fund	United States 10 Year Note Future, Dec. 2024 OPTION			Derivative	-22	(1,375)	-0.000%
JNLPMCMO Income Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	720	80,040	0.003%
JNLPMCMO Income Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-499	302,556	0.012%
JNLPMCMO Income Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	83	(37,726)	-0.002%
JNLPMCMO Income Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-145	90,994	0.004%
JNLPMCMO Income Fund	Australia 10 Year Bond FUTURE - CASH SETTLED			Derivative	249	(137,408)	-0.006%
Total Derivatives						7,676,662	
Total All Investments						2,400,069,425	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLPMCO Investment Grade Credit Bond Fund	Cash			Cash Equivalent	8,221,730	8,221,730	0.660%
JNLPMCO Investment Grade Credit Bond Fund	American Airlines, Inc.	1/15/2028	3.58	Fixed Income	185,823	180,467	0.014%
JNLPMCO Investment Grade Credit Bond Fund	Netflix, Inc.	11/15/2029	3.88	Fixed Income	1,400,000	1,636,269	0.131%
JNLPMCO Investment Grade Credit Bond Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	266,818	268,130	0.022%
JNLPMCO Investment Grade Credit Bond Fund	United Airlines, Inc.	4/1/2026	4.00	Fixed Income	457,545	459,333	0.037%
JNLPMCO Investment Grade Credit Bond Fund	Cheniere Corpus Christi Holdings, LLC	11/15/2029	3.70	Fixed Income	800,000	780,179	0.063%
JNLPMCO Investment Grade Credit Bond Fund	Farifax Financial Holdings Limited	4/29/2030	4.63	Fixed Income	1,900,000	1,941,042	0.156%
JNLPMCO Investment Grade Credit Bond Fund	Lenovo Group Limited	11/22/2030	3.42	Fixed Income	2,000,000	1,888,000	0.152%
JNLPMCO Investment Grade Credit Bond Fund	Boeing Company, The	2/1/2028	3.25	Fixed Income	300,000	285,490	0.023%
JNLPMCO Investment Grade Credit Bond Fund	Las Vegas Sands Corp.	9/8/2029	3.90	Fixed Income	1,100,000	1,051,703	0.084%
JNLPMCO Investment Grade Credit Bond Fund	ONEOK Partners, L.P.	9/15/2043	6.20	Fixed Income	500,000	527,640	0.042%
JNLPMCO Investment Grade Credit Bond Fund	Kaisa Group Holdings Ltd.	11/12/2049	11.95	Fixed Income	800,000	39,800	0.003%
JNLPMCO Investment Grade Credit Bond Fund	Ford Motor Credit Company LLC	11/13/2025	3.38	Fixed Income	300,000	298,246	0.024%
JNLPMCO Investment Grade Credit Bond Fund	Morgan Stanley	2/13/2032	1.78	Fixed Income	1,500,000	1,273,813	0.102%
JNLPMCO Investment Grade Credit Bond Fund	Brixmor Operating Partnership LP	3/15/2027	3.90	Fixed Income	700,000	689,836	0.055%
JNLPMCO Investment Grade Credit Bond Fund	Rexford Industrial Realty, L.P.	12/1/2030	2.13	Fixed Income	900,000	784,075	0.063%
JNLPMCO Investment Grade Credit Bond Fund	Avolon Holdings Funding Limited	4/15/2026	4.25	Fixed Income	1,500,000	1,513,635	0.121%
JNLPMCO Investment Grade Credit Bond Fund	Store Capital LLC	11/18/2030	2.75	Fixed Income	600,000	531,483	0.043%
JNLPMCO Investment Grade Credit Bond Fund	American Tower Corporation	1/15/2051	2.95	Fixed Income	700,000	479,332	0.038%
JNLPMCO Investment Grade Credit Bond Fund	Deutsche Bank Aktiengesellschaft	11/24/2026	2.13	Fixed Income	3,400,000	3,320,357	0.266%
JNLPMCO Investment Grade Credit Bond Fund	Saudi Arabian Oil Company	11/24/2030	2.25	Fixed Income	200,000	177,412	0.014%
JNLPMCO Investment Grade Credit Bond Fund	British Airways Pass Through Trust 2020-1A	11/15/2032	4.25	Fixed Income	283,485	272,947	0.022%
JNLPMCO Investment Grade Credit Bond Fund	Mississippi Power Company	3/30/2028	3.95	Fixed Income	2,600,000	2,571,791	0.209%
JNLPMCO Investment Grade Credit Bond Fund	JAB Holdings B.V.	11/23/2030	2.20	Fixed Income	686,000	593,406	0.048%
JNLPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	4/1/2061	3.85	Fixed Income	200,000	125,959	0.010%
JNLPMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc., The	10/30/2027	7.28	Fixed Income	1,700,000	1,759,100	0.143%
JNLPMCO Investment Grade Credit Bond Fund	Kaisa Group Holdings Ltd.	4/9/2049	11.25	Fixed Income	300,000	14,925	0.001%
JNLPMCO Investment Grade Credit Bond Fund	Puget Energy, Inc.	6/15/2030	4.10	Fixed Income	900,000	877,882	0.070%
JNLPMCO Investment Grade Credit Bond Fund	System Energy Resources, Inc.	12/9/2025	2.14	Fixed Income	1,300,000	1,270,360	0.102%
JNLPMCO Investment Grade Credit Bond Fund	Societe Generale	12/14/2026	1.40	Fixed Income	800,000	886,303	0.070%
JNLPMCO Investment Grade Credit Bond Fund	Charles Schwab Corporation, The	1/1/2029	4.00	Fixed Income	2,300,000	2,063,625	0.166%
JNLPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2048	3.50	Fixed Income	250,756	237,055	0.019%
JNLPMCO Investment Grade Credit Bond Fund	Yangjo Justice International Limited	4/15/2049	7.50	Fixed Income	200,000	750	0.000%
JNLPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2039	3.50	Fixed Income	85,116	82,433	0.007%
JNLPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2031	3.00	Fixed Income	84,483	81,071	0.007%
JNLPMCO Investment Grade Credit Bond Fund	Live Nation Entertainment, Inc.	1/15/2028	3.75	Fixed Income	200,000	194,080	0.016%
JNLPMCO Investment Grade Credit Bond Fund	Charles Schwab Corporation, The	3/11/2031	1.65	Fixed Income	4,000,000	3,995,874	0.273%
JNLPMCO Investment Grade Credit Bond Fund	EQM Midstream Partners, LP	11/15/2029	4.00	Fixed Income	400,000	394,516	0.032%
JNLPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/15/2029	4.00	Fixed Income	12,500,000	12,007,813	0.946%
JNLPMCO Investment Grade Credit Bond Fund	Capital Farm Credit A.A.	1/1/2200	5.00	Fixed Income	3,200,000	3,111,350	0.250%
JNLPMCO Investment Grade Credit Bond Fund	American Assets Trust, L.P.	2/1/2031	3.38	Fixed Income	2,600,000	2,273,226	0.182%
JNLPMCO Investment Grade Credit Bond Fund	Anantes Holdings LP	7/15/2026	3.95	Fixed Income	300,000	294,126	0.024%
JNLPMCO Investment Grade Credit Bond Fund	Arcadis Limited	12/6/2028	2.85	Fixed Income	2,800,000	2,627,188	0.213%
JNLPMCO Investment Grade Credit Bond Fund	Government of Saudi Arabia	2/2/2033	2.25	Fixed Income	5,100,000	4,265,961	0.342%
JNLPMCO Investment Grade Credit Bond Fund	Erste Group Bank AG	1/1/2200	4.25	Fixed Income	2,000,000	2,128,062	0.171%
JNLPMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	2/4/2032	1.95	Fixed Income	1,800,000	1,553,599	0.125%
JNLPMCO Investment Grade Credit Bond Fund	Apple Inc.	2/8/2061	2.90	Fixed Income	2,200,000	1,694,531	0.136%
JNLPMCO Investment Grade Credit Bond Fund	UBS Group AG	1/1/2200	4.38	Fixed Income	2,600,000	2,289,981	0.184%
JNLPMCO Investment Grade Credit Bond Fund	American Airlines, Inc.	10/1/2026	3.70	Fixed Income	505,124	496,436	0.040%
JNLPMCO Investment Grade Credit Bond Fund	Kaisa Group Holdings Ltd.	9/28/2049	9.75	Fixed Income	2,600,000	75,660	0.006%
JNLPMCO Investment Grade Credit Bond Fund	National Fuel Gas Company	3/1/2031	2.95	Fixed Income	300,000	295,198	0.024%
JNLPMCO Investment Grade Credit Bond Fund	Centene Corporation	3/1/2031	2.95	Fixed Income	300,000	258,336	0.021%
JNLPMCO Investment Grade Credit Bond Fund	Georgia Power Company	3/15/2051	3.25	Fixed Income	2,300,000	1,694,805	0.136%
JNLPMCO Investment Grade Credit Bond Fund	Kaisa Group Holdings Ltd.	7/23/2049	10.88	Fixed Income	2,000,000	89,137	0.007%
JNLPMCO Investment Grade Credit Bond Fund	Becton, Dickinson and Company	2/11/2031	1.96	Fixed Income	2,800,000	2,511,544	0.202%
JNLPMCO Investment Grade Credit Bond Fund	NCL Finance, Ltd.	6/13/2029	6.13	Fixed Income	700,000	715,177	0.057%
JNLPMCO Investment Grade Credit Bond Fund	Omega Healthcare Investors, Inc.	4/15/2033	3.25	Fixed Income	2,100,000	1,836,776	0.147%
JNLPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	6/1/2031	3.25	Fixed Income	1,400,000	1,290,287	0.104%
JNLPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	10/15/2024	3.00	Fixed Income	7,420,000	6,659,450	0.534%
JNLPMCO Investment Grade Credit Bond Fund	Commonwealth of Australia	11/21/2031	3.80	Fixed Income	2,500,000	2,258,920	0.183%
JNLPMCO Investment Grade Credit Bond Fund	Oracle Corporation	3/25/2028	2.30	Fixed Income	6,000,000	5,637,605	0.452%
JNLPMCO Investment Grade Credit Bond Fund	Royal Caribbean Cruises Ltd.	4/1/2028	5.50	Fixed Income	400,000	416,023	0.033%
JNLPMCO Investment Grade Credit Bond Fund	Government National Mortgage Association	10/15/2024	4.00	Fixed Income	3,900,000	3,770,759	0.303%
JNLPMCO Investment Grade Credit Bond Fund	Allico France Holding S.A.	7/15/2029	4.80	Fixed Income	1,400,000	1,224,813	0.100%
JNLPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	4/22/2032	2.69	Fixed Income	2,900,000	2,622,780	0.210%
JNLPMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc., The	12/27/2032	1.99	Fixed Income	3,900,000	3,353,428	0.269%
JNLPMCO Investment Grade Credit Bond Fund	GE Capital Funding LLC	5/15/2032	4.55	Fixed Income	537,000	547,409	0.044%
JNLPMCO Investment Grade Credit Bond Fund	Wyer Group PLC (The)	5/13/2026	2.20	Fixed Income	2,327,100	2,327,100	0.187%
JNLPMCO Investment Grade Credit Bond Fund	T-Mobile USA, Inc.	2/15/2051	3.30	Fixed Income	3,500,000	2,556,774	0.205%
JNLPMCO Investment Grade Credit Bond Fund	T-Mobile USA, Inc.	4/15/2025	3.50	Fixed Income	1,750,000	1,765,398	0.142%
JNLPMCO Investment Grade Credit Bond Fund	T-Mobile USA, Inc.	11/15/2060	3.60	Fixed Income	1,700,000	1,261,175	0.101%
JNLPMCO Investment Grade Credit Bond Fund	T-Mobile USA, Inc.	2/15/2026	3.60	Fixed Income	2,800,000	2,589,563	0.210%
JNLPMCO Investment Grade Credit Bond Fund	Citizens Financial Group, Inc.	1/1/2200	4.00	Fixed Income	800,000	762,211	0.061%
JNLPMCO Investment Grade Credit Bond Fund	Capital One Financial Corporation	4/1/2200	3.95	Fixed Income	1,700,000	1,619,001	0.130%
JNLPMCO Investment Grade Credit Bond Fund	Global Atlantic Financial Company	6/15/2031	3.13	Fixed Income	1,700,000	1,507,647	0.121%
JNLPMCO Investment Grade Credit Bond Fund	Verisign, Inc.	11/15/2031	6.00	Fixed Income	600,000	629,922	0.049%
JNLPMCO Investment Grade Credit Bond Fund	Catamaran CLO 2014-1 Ltd	4/22/2030	6.80	Fixed Income	703,589	713,824	0.057%
JNLPMCO Investment Grade Credit Bond Fund	NetWest Group PLC	1/1/2200	4.60	Fixed Income	1,300,000	1,106,788	0.089%
JNLPMCO Investment Grade Credit Bond Fund	CSWF Trust 2011-SOP2	6/15/2034	6.18	Fixed Income	443,978	416,370	0.033%
JNLPMCO Investment Grade Credit Bond Fund	ASV Finance Co. II LLC	6/30/2051	6.18	Fixed Income	500,000	482,566	0.039%
JNLPMCO Investment Grade Credit Bond Fund	Extended Stay America Trust 2021-ESH	7/15/2038	6.29	Fixed Income	3,920,558	3,924,173	0.315%
JNLPMCO Investment Grade Credit Bond Fund	Centene Corporation	7/15/2028	2.45	Fixed Income	1,100,000	1,019,221	0.082%
JNLPMCO Investment Grade Credit Bond Fund	Carlyle Global Market Strategies CLO 2013-1, Ltd	8/14/2030	6.33	Fixed Income	207,958	209,817	0.017%
JNLPMCO Investment Grade Credit Bond Fund	Apidos CLO XXV	7/18/2029	6.44	Fixed Income	182,866	185,350	0.015%
JNLPMCO Investment Grade Credit Bond Fund	LCM 2021-FL2 Trust	12/15/2038	6.40	Fixed Income	403,952	401,952	0.032%
JNLPMCO Investment Grade Credit Bond Fund	Nomura Holdings, Inc.	7/14/2028	2.17	Fixed Income	1,900,000	1,751,794	0.141%
JNLPMCO Investment Grade Credit Bond Fund	Carlyle US CLO 2017-1, Ltd.	4/21/2031	6.54	Fixed Income	618,863	627,140	0.050%
JNLPMCO Investment Grade Credit Bond Fund	Xiaom Best Time International Limited	7/14/2031	2.88	Fixed Income	600,000	536,235	0.043%
JNLPMCO Investment Grade Credit Bond Fund	BRSP 2021-FL1 Ltd.	12/18/2032	4.88	Fixed Income	1,488,133	1,488,133	0.119%
JNLPMCO Investment Grade Credit Bond Fund	Crestline Denali CLO XV, Ltd.	4/22/2030	6.57	Fixed Income	339,815	344,514	0.028%
JNLPMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc., The	7/21/2032	2.38	Fixed Income	2,300,000	2,005,735	0.161%
JNLPMCO Investment Grade Credit Bond Fund	Morgan Stanley	7/21/2032	2.24	Fixed Income	1,600,000	1,386,301	0.111%
JNLPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	1/1/2200	4.25	Equity	65,107	61,919	0.005%
JNLPMCO Investment Grade Credit Bond Fund	British Airways PLC	3/15/2035	2.90	Fixed Income	1,318,175	1,177,097	0.094%
JNLPMCO Investment Grade Credit Bond Fund	Carnival Corporation	8/1/2028	4.00	Fixed Income	1,100,000	1,068,991	0.086%
JNLPMCO Investment Grade Credit Bond Fund	Benefit Street Partners CLO XVII Ltd	7/15/2032	6.64	Fixed Income	800,000	811,515	0.065%
JNLPMCO Investment Grade Credit Bond Fund	CSMC 2021-AD7	7/15/2038	6.61	Fixed Income	1,700,000	1,530,713	0.122%
JNLPMCO Investment Grade Credit Bond Fund	Venture Global Calcasieu Pass, LLC	8/15/2029	3.88	Fixed Income	1,200,000	1,139,973	0.091%
JNLPMCO Investment Grade Credit Bond Fund	Venture Global Calcasieu Pass, LLC	8/15/2031	4.13	Fixed Income	300,000	280,567	0.023%
JNLPMCO Investment Grade Credit Bond Fund	Tencent Music Entertainment Group	9/3/2030	2.00	Fixed Income	500,000	435,525	0.035%
JNLPMCO Investment Grade Credit Bond Fund	Royalty Pharma PLC	8/2/2040	3.80	Fixed Income	600,000	1,066,864	0.084%
JNLPMCO Investment Grade Credit Bond Fund	MSCI Inc.	8/15/2033	3.25	Fixed Income	200,000	176,829	0.014%
JNLPMCO Investment Grade Credit Bond Fund	Franklin Resources, Inc.	8/1/2051	2.95	Fixed Income	1,630,000	1,116,373	0.090%
JNLPMCO Investment Grade Credit Bond Fund	Arizona Public Service Company	12/15/2031	2.20	Fixed Income	1,700,000	1,453,586	0.117%
JNLPMCO Investment Grade Credit Bond Fund	Assured Guaranty US Holdings Inc.	9/15/2051	3.60	Fixed Income	1,700,000	1,250,847	0.100%
JNLPMCO Investment Grade Credit Bond Fund	Avolon Holdings Funding Limited	11/18/2027	2.53	Fixed Income	2,350,000	2,062,438	0.173%
JNLPMCO Investment Grade Credit Bond Fund	Quanta Services, Inc.	10/1/2041	3.05	Fixed Income	1,500,000	1,163,544	0.093%
JNLPMCO Investment Grade Credit Bond Fund	Nissan Motor Acceptance Corporation LLC	9/16/2026	1.85	Fixed Income	2,200,000	2,065,696	0.166%
JNLPMCO Investment Grade Credit Bond Fund	Fidelity National Financial, Inc.	9/1/2051	3.20	Fixed Income	400,000	268,296	0.022%
JNLPMCO Investment Grade Credit Bond Fund	Allico France Holding S.A.	10/15/2029	5.50	Fixed Income	230,000	166,988	0.013%
JNLPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	3/1/2042	3.50	Fixed Income	3,600,000	2,511,485	0.202%
JNLPMCO Investment Grade Credit Bond Fund	Blue Owl Finance LLC	10/7/2051	4.13	Fixed Income	3,400,000	2,653,987	0.213%
JNLPMCO Investment Grade Credit Bond Fund	Broadcom Inc.	11/15/2036	3.19	Fixed Income	1,109,000	955,052	0.077%
JNLPMCO Investment Grade Credit Bond Fund	Broadcom Inc.	11/15/2035	3.14	Fixed Income	1,822,000	1,406,083	0.113%
JNLPMCO Investment Grade Credit Bond Fund	Nykredit Realredit A/S	10/1/2053	1.50	Fixed Income	1,648,042	205,681	0.017%
JNLPMCO Investment Grade Credit Bond Fund	Nykredit Realredit A/S	10/1/2053	1.50	Fixed Income	2,778,469	335,766	0.027%
JNLPMCO Investment Grade Credit Bond Fund	EPRI Properties	11/15/2031	3.60	Fixed Income	1,800,000	1,627,743	0.131%
JNLPMCO Investment Grade Credit Bond Fund	Citigroup Inc.	1/1/2200	4.15	Fixed Income	2,500,000	2,409,392	0.193%
JNLPMCO Investment Grade Credit Bond Fund	AerCap Ireland Capital Designated Activity Company	10/29/2026	2.45	Fixed Income	900,000	873,953	0.070%
JNLPMCO Investment Grade Credit Bond Fund	AerCap Ireland Capital Designated Activity Company	1/30/2032	3.30	Fixed Income	3,700,000	3,359,908	0.270%
JNLPMCO Investment Grade Credit Bond Fund	Berry Global, Inc.	1/15/2026	1.57	Fixed Income	4,700,000	4,538,189	0.364%
JNLPMCO Investment Grade Credit Bond Fund	SVB Financial Group	1/1/2200	4.25	Fixed Income	2,600,000	3,250	0.000%
JNLPMCO Investment Grade Credit Bond Fund	Yangjo Justice International Limited	4/15/2049	9.75	Fixed Income	400,000	500	0.000%
JNLPMCO Investment Grade Credit Bond Fund	Realty Income Corporation	8/15/2027	3.95	Fixed Income	400,000	399,907	0.032%
JNLPMCO Investment Grade Credit Bond Fund	Nykredit Realredit A/S	10/1/2050	1.00	Fixed Income	90,900	10,934	0.001%
JNLPMCO Investment Grade Credit Bond Fund	Venture Global Calcasieu Pass, LLC	11/15/2033	3.88	Fixed Income	1,200,000	1,096,788	0.088%
JNLPMCO Investment Grade Credit Bond Fund	CDW Finance Corporation	12/1/2031	3.57	Fixed Income	1,400,000	1,295,725	0.104%
JNLPMCO Investment Grade Credit Bond Fund	GLP Financing, LLC	6/1/2025	5.25	Fixed Income	400,000	406,566	0.033%
JNLPMCO Investment Grade Credit Bond							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	4/27/2028	4.38	Fixed Income	600,000	612,297	0.049%
JNLIPMCO Investment Grade Credit Bond Fund	Netflix Group, PLC	1/27/2030	5.08	Fixed Income	2,880,000	2,874,653	0.231%
JNLIPMCO Investment Grade Credit Bond Fund	VICI Properties Inc.	2/1/2027	5.75	Fixed Income	400,000	410,793	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	VICI Properties Inc.	2/15/2029	3.88	Fixed Income	2,500,000	2,406,742	0.193%
JNLIPMCO Investment Grade Credit Bond Fund	NXP B.V.	5/1/2025	2.70	Fixed Income	1,300,000	1,301,448	0.104%
JNLIPMCO Investment Grade Credit Bond Fund	NXP B.V.	5/1/2030	3.40	Fixed Income	2,400,000	2,302,359	0.186%
JNLIPMCO Investment Grade Credit Bond Fund	Crown Castle Inc.	7/15/2031	2.50	Fixed Income	500,000	438,121	0.035%
JNLIPMCO Investment Grade Credit Bond Fund	TD SYNNEX Corporation	8/9/2026	1.75	Fixed Income	2,300,000	2,194,167	0.176%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley	1/1/2020	6.50	Equity	34,600	934,070	0.075%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	8/15/2026	4.54	Fixed Income	1,200,000	1,204,926	0.097%
JNLIPMCO Investment Grade Credit Bond Fund	Government National Mortgage Association	11/15/2054	4.00	Fixed Income	9,800,000	9,479,451	0.751%
JNLIPMCO Investment Grade Credit Bond Fund	Global Payments Inc.	8/15/2032	5.40	Fixed Income	500,000	516,938	0.041%
JNLIPMCO Investment Grade Credit Bond Fund	UBS Group AG	8/12/2033	6.54	Fixed Income	4,250,000	4,732,638	0.380%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/15/2054	4.50	Fixed Income	2,300,000	2,261,188	0.181%
JNLIPMCO Investment Grade Credit Bond Fund	Global Payments Inc.	8/15/2052	5.95	Fixed Income	600,000	624,771	0.050%
JNLIPMCO Investment Grade Credit Bond Fund	DTE Energy Company	3/1/2030	2.95	Fixed Income	500,000	463,098	0.037%
JNLIPMCO Investment Grade Credit Bond Fund	Zimmer Biomet Holdings, Inc.	11/24/2031	2.60	Fixed Income	570,000	504,566	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	8/15/2032	2.75	Fixed Income	16,000,000	14,952,510	1.200%
JNLIPMCO Investment Grade Credit Bond Fund	Bausch Health Companies Inc.	9/30/2028	11.00	Fixed Income	270,000	251,243	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	Bausch Health Companies Inc.	10/15/2030	14.00	Fixed Income	53,000	51,906	0.004%
JNLIPMCO Investment Grade Credit Bond Fund	Enel Finance America, LLC	10/14/2027	7.35	Fixed Income	400,000	442,042	0.035%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.50	Fixed Income	87,300,000	88,333,283	7.089%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley	10/16/2026	6.14	Fixed Income	200,000	209,807	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Bairings CLO Ltd 2018-I	4/15/2031	6.51	Fixed Income	742,948	753,822	0.060%
JNLIPMCO Investment Grade Credit Bond Fund	AREIT 2021-CRÉS Trust	11/17/2038	6.28	Fixed Income	184,941	184,907	0.015%
JNLIPMCO Investment Grade Credit Bond Fund	Lockheed Martin Corporation	11/15/2034	5.70	Fixed Income	1,675,000	1,905,806	0.153%
JNLIPMCO Investment Grade Credit Bond Fund	Elevance Health, Inc.	10/15/2052	6.10	Fixed Income	900,000	1,025,303	0.082%
JNLIPMCO Investment Grade Credit Bond Fund	HSCB Holdings PLC	11/3/2028	7.39	Fixed Income	800,000	890,578	0.071%
JNLIPMCO Investment Grade Credit Bond Fund	Haleon US Capital LLC	3/24/2032	3.63	Fixed Income	1,500,000	1,411,214	0.113%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.00	Fixed Income	2,500,000	2,486,536	0.201%
JNLIPMCO Investment Grade Credit Bond Fund	Var Energy ASA	11/15/2032	8.00	Fixed Income	500,000	594,479	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	UBS Group AG	11/15/2033	9.02	Fixed Income	500,000	647,345	0.052%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	11/15/2032	4.13	Fixed Income	2,500,000	2,610,827	0.210%
JNLIPMCO Investment Grade Credit Bond Fund	Illumina, Inc.	12/13/2027	5.75	Fixed Income	200,000	211,121	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley	10/18/2028	6.30	Fixed Income	1,000,000	1,086,309	0.087%
JNLIPMCO Investment Grade Credit Bond Fund	CDO Finance Corporation	2/15/2029	3.75	Fixed Income	500,000	458,243	0.036%
JNLIPMCO Investment Grade Credit Bond Fund	Oklahoma Gas and Electric Company	1/15/2033	5.40	Fixed Income	400,000	425,890	0.034%
JNLIPMCO Investment Grade Credit Bond Fund	Targa Resources Corp.	3/15/2033	6.13	Fixed Income	2,700,000	2,903,592	0.233%
JNLIPMCO Investment Grade Credit Bond Fund	UBS Group AG	11/25/2034	5.96	Fixed Income	1,800,000	2,045,461	0.164%
JNLIPMCO Investment Grade Credit Bond Fund	Nomura Holdings, Inc.	1/18/2037	2.84	Fixed Income	2,000,000	2,100,349	0.169%
JNLIPMCO Investment Grade Credit Bond Fund	Elevance Health, Inc.	5/15/2032	4.10	Fixed Income	200,000	197,951	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Venture Global Calcasieu Pass, LLC	1/15/2030	6.25	Fixed Income	600,000	636,823	0.051%
JNLIPMCO Investment Grade Credit Bond Fund	Ecopetrol S.A.	1/13/2033	8.88	Fixed Income	1,700,000	1,854,699	0.149%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley	2/1/2029	5.15	Fixed Income	4,700,000	4,858,243	0.390%
JNLIPMCO Investment Grade Credit Bond Fund	Illumina, Inc.	3/23/2031	2.55	Fixed Income	200,000	173,055	0.014%
JNLIPMCO Investment Grade Credit Bond Fund	Oracle Corporation	7/15/2046	4.00	Fixed Income	900,000	754,726	0.061%
JNLIPMCO Investment Grade Credit Bond Fund	Nationwide Building Society	1/1/2200	10.25	Fixed Income	219,200	396,025	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	Sichting AK Rabobank Certificaten II	3/15/2030	6.50	Fixed Income	630,275	598,632	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	4/1/2048	5.75	Fixed Income	300,000	270,494	0.022%
JNLIPMCO Investment Grade Credit Bond Fund	Charles Schwab Corporation, The	1/1/2200	5.00	Fixed Income	800,000	873,886	0.070%
JNLIPMCO Investment Grade Credit Bond Fund	Enterprise Products Operating LLC	10/16/2028	4.15	Fixed Income	500,000	509,512	0.041%
JNLIPMCO Investment Grade Credit Bond Fund	JP Morgan Chase & Co.	1/1/2200	6.10	Fixed Income	800,000	827,450	0.067%
JNLIPMCO Investment Grade Credit Bond Fund	HCA Inc.	6/15/2047	5.50	Fixed Income	900,000	909,251	0.073%
JNLIPMCO Investment Grade Credit Bond Fund	Countrywide Home Loans, Inc.	11/25/2034	5.39	Fixed Income	341,139	312,146	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	11/15/2047	2.75	Fixed Income	12,600,000	9,804,418	0.794%
JNLIPMCO Investment Grade Credit Bond Fund	CHL Mortgage Pass-Through Trust 2002-HYB1	8/25/2037	6.00	Fixed Income	290,261	260,959	0.021%
JNLIPMCO Investment Grade Credit Bond Fund	Crown Communication Inc.	5/15/2028	4.24	Fixed Income	100,000	97,356	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	ONEOK Partners, L.P.	3/15/2025	4.90	Fixed Income	500,000	500,279	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	Kaisa Group Holdings Ltd.	6/30/2049	8.50	Fixed Income	800,000	39,800	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	MLP LP	4/15/2058	4.90	Fixed Income	300,000	270,933	0.022%
JNLIPMCO Investment Grade Credit Bond Fund	Kirby Realty, L.P.	12/15/2028	4.75	Fixed Income	500,000	503,239	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	CoBank, ACB	9/15/2028	6.20	Equity	3,000	303,630	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	QatarEnergy LNG	9/30/2027	5.84	Fixed Income	155,625	157,790	0.013%
JNLIPMCO Investment Grade Credit Bond Fund	Energy Transfer Operating, L.P.	4/15/2049	6.25	Fixed Income	3,000,000	3,253,548	0.261%
JNLIPMCO Investment Grade Credit Bond Fund	ONEOK Partners, L.P.	10/15/2037	6.85	Fixed Income	200,000	212,399	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Energy Transfer LP	7/1/2038	7.50	Fixed Income	200,000	242,269	0.019%
JNLIPMCO Investment Grade Credit Bond Fund	Kaisa Group Holdings Ltd.	6/30/2049	9.38	Fixed Income	800,000	39,800	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Enterprise Products Operating LLC	8/16/2077	8.34	Fixed Income	250,000	251,357	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	W.P. Carey Inc.	2/1/2025	4.10	Fixed Income	600,000	601,249	0.049%
JNLIPMCO Investment Grade Credit Bond Fund	Renal Dialysis Center of Las Vegas, Ltd.	10/15/2024	4.75	Fixed Income	700,000	715,101	0.057%
JNLIPMCO Investment Grade Credit Bond Fund	Azul Investments LLP	10/26/2024	5.88	Fixed Income	100,000	68,740	0.006%
JNLIPMCO Investment Grade Credit Bond Fund	Paramount Global	4/30/2036	6.88	Fixed Income	600,000	626,475	0.050%
JNLIPMCO Investment Grade Credit Bond Fund	Woodside Finance Limited	3/5/2025	3.65	Fixed Income	600,000	598,068	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Air Canada	5/15/2025	4.13	Fixed Income	49,921	50,125	0.004%
JNLIPMCO Investment Grade Credit Bond Fund	GTP Acquisition Partners I, LLC	6/16/2025	3.48	Fixed Income	300,000	297,265	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Host Hotels & Resorts, L.P.	6/15/2025	4.00	Fixed Income	300,000	301,613	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Ford Motor Credit Company LLC	1/8/2026	4.38	Fixed Income	237,000	237,000	0.019%
JNLIPMCO Investment Grade Credit Bond Fund	Bacardi Limited	7/15/2026	2.75	Fixed Income	300,000	293,061	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Reinsurance Group of America, Incorporated	9/15/2026	3.95	Fixed Income	600,000	597,643	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Yara International ASA	6/6/2026	3.80	Fixed Income	300,000	299,416	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Gabine Pass Liquefaction, LLC	6/30/2028	5.88	Fixed Income	1,200,000	1,037,832	0.083%
JNLIPMCO Investment Grade Credit Bond Fund	Cleco Corporate Holdings LLC	3/1/2028	3.74	Fixed Income	2,200,000	2,195,628	0.176%
JNLIPMCO Investment Grade Credit Bond Fund	United Airlines 2014-2 Pass-Through Trust	9/3/2026	3.75	Fixed Income	49,911	48,953	0.004%
JNLIPMCO Investment Grade Credit Bond Fund	Cooperative Rabobank U.A.	7/21/2026	3.75	Fixed Income	1,000,000	992,654	0.080%
JNLIPMCO Investment Grade Credit Bond Fund	HCA Inc.	6/15/2026	5.25	Fixed Income	300,000	306,875	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	Rio Oil Finance Trust	1/8/2027	72.73%	Fixed Income	76	76	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	3/15/2027	3.30	Fixed Income	2,800,000	2,726,906	0.219%
JNLIPMCO Investment Grade Credit Bond Fund	Chemere Corpus Christi Holdings, LLC	6/30/2027	5.13	Fixed Income	2,200,000	2,264,637	0.182%
JNLIPMCO Investment Grade Credit Bond Fund	Wynn Las Vegas, LLC	5/15/2027	5.25	Fixed Income	300,000	306,033	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	American Tower Corporation	2/15/2027	3.13	Fixed Income	400,000	439,125	0.035%
JNLIPMCO Investment Grade Credit Bond Fund	Mitsui Fudosan Co., Ltd.	7/20/2027	3.65	Fixed Income	900,000	890,662	0.071%
JNLIPMCO Investment Grade Credit Bond Fund	Santander Holdings USA, Inc.	7/13/2027	4.40	Fixed Income	100,000	100,626	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	Energy Transfer LP	4/15/2027	4.20	Fixed Income	1,200,000	1,219,000	0.098%
JNLIPMCO Investment Grade Credit Bond Fund	Physicians Realty L.P.	1/15/2027	4.30	Fixed Income	995,000	995,240	0.080%
JNLIPMCO Investment Grade Credit Bond Fund	Enable Midstream Partners, LP	3/15/2027	4.40	Fixed Income	800,000	802,819	0.064%
JNLIPMCO Investment Grade Credit Bond Fund	EPR Properties	12/15/2026	4.75	Fixed Income	200,000	202,165	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	2/7/2030	3.97	Fixed Income	7,000,000	6,915,338	0.555%
JNLIPMCO Investment Grade Credit Bond Fund	Spirit Airlines, Inc.	4/1/2028	4.10	Fixed Income	1,539,091	1,513,744	0.121%
JNLIPMCO Investment Grade Credit Bond Fund	Synchrony Financial	12/1/2027	3.95	Fixed Income	2,000,000	1,967,776	0.158%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	12/1/2027	3.30	Fixed Income	200,000	195,234	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	GATX Corporation	3/15/2028	3.50	Fixed Income	500,000	483,262	0.039%
JNLIPMCO Investment Grade Credit Bond Fund	AVIS Specialty Finance PLC	1/18/2027	4.00	Fixed Income	700,000	698,252	0.056%
JNLIPMCO Investment Grade Credit Bond Fund	Brandwine Operating Partnership, L.P.	11/15/2027	3.95	Fixed Income	400,000	387,659	0.031%
JNLIPMCO Investment Grade Credit Bond Fund	Crown Castle Inc.	2/15/2028	3.80	Fixed Income	900,000	887,243	0.071%
JNLIPMCO Investment Grade Credit Bond Fund	Vmware LLC	8/21/2027	3.90	Fixed Income	1,800,000	1,788,285	0.144%
JNLIPMCO Investment Grade Credit Bond Fund	Royal Caribbean Cruises Ltd.	3/15/2028	3.90	Fixed Income	1,000,000	966,601	0.078%
JNLIPMCO Investment Grade Credit Bond Fund	Zellis Inc.	9/1/2027	3.00	Fixed Income	300,000	290,820	0.023%
JNLIPMCO Investment Grade Credit Bond Fund	Brookfield Financial, Inc.	1/25/2028	3.90	Fixed Income	2,000,000	1,988,697	0.160%
JNLIPMCO Investment Grade Credit Bond Fund	American Homes 4 Rent, L.P.	2/15/2028	4.25	Fixed Income	1,200,000	1,197,450	0.096%
JNLIPMCO Investment Grade Credit Bond Fund	Aviation Capital Group LLC	11/1/2027	3.50	Fixed Income	1,532,000	1,500,393	0.120%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	1/20/2028	3.82	Fixed Income	3,000,000	2,999,001	0.240%
JNLIPMCO Investment Grade Credit Bond Fund	Fairfax Financial Holdings Limited	3/29/2028	2.75	Fixed Income	600,000	666,683	0.054%
JNLIPMCO Investment Grade Credit Bond Fund	Massachusetts Institute of Technology	7/1/2114	4.68	Fixed Income	200,000	192,270	0.015%
JNLIPMCO Investment Grade Credit Bond Fund	Physicians Realty L.P.	1/15/2028	3.95	Fixed Income	200,000	198,598	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	JP Morgan Chase & Co.	2/1/2028	3.78	Fixed Income	4,400,000	4,380,228	0.352%
JNLIPMCO Investment Grade Credit Bond Fund	The Cleveland Electric Illuminating Company	4/1/2028	3.50	Fixed Income	2,870,000	2,821,510	0.226%
JNLIPMCO Investment Grade Credit Bond Fund	High Street Funding Trust I	2/15/2028	4.11	Fixed Income	100,000	97,741	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	Duquesne Light Holdings, Inc.	8/1/2027	3.62	Fixed Income	1,200,000	1,179,033	0.095%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	9/15/2043	4.50	Fixed Income	600,000	537,147	0.043%
JNLIPMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc., The	6/5/2028	3.69	Fixed Income	400,000	398,392	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	UBS Group AG	1/12/2029	3.87	Fixed Income	700,000	689,151	0.055%
JNLIPMCO Investment Grade Credit Bond Fund	Alexandria Real Estate Equities, Inc.	7/30/2029	4.50	Fixed Income	500,000	503,422	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	Boral Finance Pty Limited	5/1/2028	3.75	Fixed Income	339,000	329,087	0.026%
JNLIPMCO Investment Grade Credit Bond Fund	HSCB Holdings PLC	6/19/2029	4.58	Fixed Income	1,100,000	1,114,966	0.089%
JNLIPMCO Investment Grade Credit Bond Fund	United Airlines Pass Through Certificates, Series 2016-2	10/7/2028	3.10	Fixed Income	333,221	304,894	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Enable Midstream Partners, LP	5/15/2028	4.95	Fixed Income	500,000	516,857	0.041%
JNLIPMCO Investment Grade Credit Bond Fund	CLP Financing, LLC	8/1/2028	5.75	Fixed Income	300,000	314,729	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	EPR Properties	4/15/2028	4.95	Fixed Income	100,000	101,549	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	5/22/2028	3.58	Fixed Income	4,800,000	4,765,541	0.382%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Investment Grade Credit Bond Fund	Residential Asset Mortgage Products, Inc.	12/25/2035	5.43	Fixed Income	135,322	110,087	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	Structured Asset Securities Corporation	8/25/2035	4.46	Fixed Income	1,257	1,580	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Renaissance Home Equity Loan Trust 2007-3	9/25/2037	7.24	Fixed Income	138,066	56,475	0.005%
JNLIPMCO Investment Grade Credit Bond Fund	Weyerhaeuser Company	11/15/2029	4.00	Fixed Income	2,000,000	1,992,148	0.160%
JNLIPMCO Investment Grade Credit Bond Fund	RALI Series 2007-QS3 Trust	2/25/2037	6.00	Fixed Income	30,975	24,593	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley Home Equity Loan Trust 2007-2	4/25/2037	5.07	Fixed Income	6,538	4,468	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	J.P. Morgan Mortgage Acquisition Trust 2006-NC2	7/25/2036	5.37	Fixed Income	175,537	169,179	0.014%
JNLIPMCO Investment Grade Credit Bond Fund	The Southern Company	7/1/2036	4.25	Fixed Income	400,000	383,506	0.031%
JNLIPMCO Investment Grade Credit Bond Fund	PacifiCorp	10/15/2037	6.25	Fixed Income	1,300,000	1,477,799	0.119%
JNLIPMCO Investment Grade Credit Bond Fund	Woodside Finance Limited	3/4/2029	4.50	Fixed Income	2,000,000	1,990,523	0.160%
JNLIPMCO Investment Grade Credit Bond Fund	Veritas Analytics, Inc.	3/15/2029	4.13	Fixed Income	400,000	398,448	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	Energy Transfer LP	6/1/2041	6.05	Fixed Income	1,300,000	1,374,067	0.110%
JNLIPMCO Investment Grade Credit Bond Fund	Lazard Group LLC	3/11/2029	4.38	Fixed Income	278,000	275,994	0.022%
JNLIPMCO Investment Grade Credit Bond Fund	Tesco Property Finance 5 PLC	10/13/2041	5.66	Fixed Income	555,113	751,292	0.060%
JNLIPMCO Investment Grade Credit Bond Fund	Spectrum Management Holding Company, LLC	9/15/2042	4.50	Fixed Income	300,000	231,400	0.019%
JNLIPMCO Investment Grade Credit Bond Fund	Blackstone Inc.	6/15/2044	5.00	Fixed Income	300,000	298,284	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	3/15/2045	4.30	Fixed Income	200,000	167,857	0.013%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	7/1/2043	3.00	Fixed Income	175,109	162,525	0.013%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	8/1/2043	3.00	Fixed Income	4,584	4,250	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.	4/2/2034	7.30	Fixed Income	1,000,000	1,099,448	0.088%
JNLIPMCO Investment Grade Credit Bond Fund	AerCap Ireland Capital Designated Activity Company	4/3/2026	4.45	Fixed Income	600,000	611,721	0.049%
JNLIPMCO Investment Grade Credit Bond Fund	Lazard Group LLC	9/19/2028	4.50	Fixed Income	1,200,000	1,195,639	0.096%
JNLIPMCO Investment Grade Credit Bond Fund	Crown Capital Inc.	2/15/2029	4.30	Fixed Income	1,800,000	1,791,792	0.144%
JNLIPMCO Investment Grade Credit Bond Fund	Blackstone Holdings Finance Co. L.L.C.	4/10/2029	1.50	Fixed Income	800,000	841,978	0.068%
JNLIPMCO Investment Grade Credit Bond Fund	AIA Group Limited	4/9/2029	3.60	Fixed Income	1,200,000	1,184,845	0.095%
JNLIPMCO Investment Grade Credit Bond Fund	Greene King Finance PLC	9/15/2031	5.32	Fixed Income	298,560	396,920	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	Joint Stock Company Alrosa (Public Joint Stock Company)	4/9/2049	4.45	Fixed Income	800,000	800,000	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	New Residential Mortgage Loan Trust 2018-3	5/25/2058	4.50	Fixed Income	350,004	344,925	0.028%
JNLIPMCO Investment Grade Credit Bond Fund	J.P. Morgan Mortgage Acquisition Trust 2006-CW2	8/25/2036	6.28	Fixed Income	997,898	603,178	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Ford Motor Credit Company LLC	11/2/2027	3.82	Fixed Income	1,653,000	1,617,164	0.130%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The	5/1/2034	3.60	Fixed Income	1,800,000	1,558,150	0.125%
JNLIPMCO Investment Grade Credit Bond Fund	Mortgage Trust Mortgage Loan Trust 2006-1	4/25/2035	5.71	Fixed Income	303,829	237,825	0.019%
JNLIPMCO Investment Grade Credit Bond Fund	Alternative Loan Trust 2005-43	8/25/2035	6.47	Fixed Income	51,170	41,732	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	New Century Home Equity Loan Trust	2/25/2036	5.67	Fixed Income	300,000	243,528	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	GSAMP Trust 2006-FM2	9/25/2036	5.25	Fixed Income	2,580,004	851,059	0.068%
JNLIPMCO Investment Grade Credit Bond Fund	GS Mortgage Securities Corp.	1/25/2036	5.60	Fixed Income	287,250	287,250	0.023%
JNLIPMCO Investment Grade Credit Bond Fund	Motorola Solutions, Inc.	5/23/2029	4.60	Fixed Income	1,300,000	1,333,362	0.107%
JNLIPMCO Investment Grade Credit Bond Fund	Appalachian Power Company	6/1/2027	3.30	Fixed Income	600,000	592,387	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Bear Stearns ALTA Trust 2006-3	4/25/2035	5.30	Fixed Income	264,232	245,582	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	CWABS Asset-Backed Certificates Trust 2007-12	10/15/2033	5.71	Fixed Income	461,818	447,628	0.036%
JNLIPMCO Investment Grade Credit Bond Fund	San Diego Gas & Electric Company	6/15/2049	4.10	Fixed Income	200,000	171,710	0.014%
JNLIPMCO Investment Grade Credit Bond Fund	Air Canada	3/15/2027	3.60	Fixed Income	114,850	111,587	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	American Tower Corporation	1/15/2025	2.95	Fixed Income	1,700,000	1,697,444	0.139%
JNLIPMCO Investment Grade Credit Bond Fund	American Home Mortgage Assets Trust 2006-3	10/25/2045	6.06	Fixed Income	384,199	218,010	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Micron Technology, Inc.	2/15/2027	4.19	Fixed Income	300,000	300,766	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	New Century Home Equity Loan Trust 2006-2	8/25/2036	5.29	Fixed Income	191,707	198,534	0.015%
JNLIPMCO Investment Grade Credit Bond Fund	UnitedHealth Group Incorporated	8/15/2039	5.50	Fixed Income	800,000	692,842	0.056%
JNLIPMCO Investment Grade Credit Bond Fund	Union Pacific Corporation	9/15/2039	3.95	Fixed Income	300,000	245,853	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	Southern California Edison Company	4/1/2047	4.00	Fixed Income	1,100,000	943,751	0.076%
JNLIPMCO Investment Grade Credit Bond Fund	American Airlines, Inc. Class AA Pass Through Certificates, Series 2019-1	2/15/2032	3.15	Fixed Income	151,171	139,625	0.011%
JNLIPMCO Investment Grade Credit Bond Fund	Las Vegas Sands Corp.	8/18/2026	3.50	Fixed Income	1,200,000	1,179,286	0.095%
JNLIPMCO Investment Grade Credit Bond Fund	McDonald's Corporation	9/1/2049	4.65	Fixed Income	400,000	316,801	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	Global Payments Inc.	8/15/2049	4.15	Fixed Income	500,000	406,869	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	NiSource Inc.	9/1/2029	2.95	Fixed Income	700,000	657,638	0.053%
JNLIPMCO Investment Grade Credit Bond Fund	PECO Energy Company	9/15/2049	3.00	Fixed Income	800,000	569,534	0.046%
JNLIPMCO Investment Grade Credit Bond Fund	Kilroy Realty, L.P.	2/15/2030	3.05	Fixed Income	1,000,000	1,098,130	0.072%
JNLIPMCO Investment Grade Credit Bond Fund	Alexandria Real Estate Equities, Inc.	12/15/2030	2.75	Fixed Income	2,600,000	2,407,036	0.193%
JNLIPMCO Investment Grade Credit Bond Fund	Willis North America, Inc.	9/15/2029	2.95	Fixed Income	1,500,000	1,391,767	0.112%
JNLIPMCO Investment Grade Credit Bond Fund	Blackstone Inc.	1/10/2030	2.50	Fixed Income	5,700,000	5,250,986	0.421%
JNLIPMCO Investment Grade Credit Bond Fund	United Airlines Pass Through Trust 2019-2AA	5/1/2032	2.70	Fixed Income	3,716,540	3,588,732	0.270%
JNLIPMCO Investment Grade Credit Bond Fund	Southern California Edison Company	10/15/2030	4.00	Fixed Income	400,000	319,014	0.026%
JNLIPMCO Investment Grade Credit Bond Fund	Highwoods Realty Limited Partnership	2/15/2030	3.05	Fixed Income	400,000	361,587	0.029%
JNLIPMCO Investment Grade Credit Bond Fund	Southern California Edison Company	3/15/2039	6.05	Fixed Income	400,000	442,198	0.035%
JNLIPMCO Investment Grade Credit Bond Fund	Carlyle Finance LLC	9/19/2029	3.50	Fixed Income	500,000	480,662	0.039%
JNLIPMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	10/15/2030	2.74	Fixed Income	2,800,000	2,725,388	0.218%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	3/15/2046	4.25	Fixed Income	1,200,000	993,819	0.080%
JNLIPMCO Investment Grade Credit Bond Fund	Paramount Global	6/1/2028	3.70	Fixed Income	800,000	769,431	0.062%
JNLIPMCO Investment Grade Credit Bond Fund	Danske Bank A/S	12/20/2025	3.24	Fixed Income	1,000,000	1,003,830	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	Occidental Petroleum Corporation	3/15/2040	6.20	Fixed Income	3,010,000	3,123,803	0.251%
JNLIPMCO Investment Grade Credit Bond Fund	SB Capital S.A.	10/29/2049	5.13	Fixed Income	5,100,000	0	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	SB Capital S.A.	5/23/2049	5.25	Fixed Income	600,000	0	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Allegion Public Limited Company	10/1/2029	3.50	Fixed Income	500,000	485,357	0.039%
JNLIPMCO Investment Grade Credit Bond Fund	IndyMac BMS, Inc.	7/25/2035	5.45	Fixed Income	224,250	224,089	0.018%
JNLIPMCO Investment Grade Credit Bond Fund	Unigel Luxembourg SA	10/1/2026	8.75	Fixed Income	600,000	151,175	0.012%
JNLIPMCO Investment Grade Credit Bond Fund	American Tower Corporation	1/15/2027	2.75	Fixed Income	1,900,000	1,846,210	0.148%
JNLIPMCO Investment Grade Credit Bond Fund	Brandywine Operating Partnership, L.P.	10/1/2029	4.55	Fixed Income	100,000	96,336	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	3/1/2026	4.90	Fixed Income	2,000,000	1,540,570	0.124%
JNLIPMCO Investment Grade Credit Bond Fund	DC Office Trust 2019-MTC	10/15/2029	2.97	Fixed Income	2,250,000	1,987,497	0.160%
JNLIPMCO Investment Grade Credit Bond Fund	LeasePlan Corporation N.V.	10/24/2024	2.88	Fixed Income	5,300,000	5,357,296	0.430%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	10/30/2030	2.88	Fixed Income	500,000	470,163	0.038%
JNLIPMCO Investment Grade Credit Bond Fund	Ashland Capital, Inc.	5/1/2028	4.00	Fixed Income	400,000	396,105	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	2/1/2027	7.08	Fixed Income	1,019,328	1,035,581	0.083%
JNLIPMCO Investment Grade Credit Bond Fund	Nationwide Financial Services, Inc.	11/30/2049	3.90	Fixed Income	500,000	404,053	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	Ameren Illinois Company	3/15/2050	3.25	Fixed Income	300,000	221,398	0.018%
JNLIPMCO Investment Grade Credit Bond Fund	Las Vegas Sands Corp.	6/25/2025	2.90	Fixed Income	200,000	198,017	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Camden LMG, LLC	1/15/2038	3.40	Fixed Income	1,300,000	1,116,886	0.089%
JNLIPMCO Investment Grade Credit Bond Fund	Travel + Leisure Co.	3/1/2030	4.63	Fixed Income	1,000,000	939,206	0.075%
JNLIPMCO Investment Grade Credit Bond Fund	HarborView Mortgage Loan Trust 2006-12	12/19/2036	5.49	Fixed Income	374,991	308,795	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	Adventist Health SystemWest	3/1/2029	2.95	Fixed Income	1,000,000	932,415	0.075%
JNLIPMCO Investment Grade Credit Bond Fund	EPRI Properties	8/1/2027	3.00	Fixed Income	2,800,000	2,800,152	0.212%
JNLIPMCO Investment Grade Credit Bond Fund	Boston Scientific Corporation	3/1/2049	4.70	Fixed Income	1,483,000	1,418,846	0.114%
JNLIPMCO Investment Grade Credit Bond Fund	MASTR Asset Backed Securities Trust 2006-AM1	12/25/2034	5.69	Fixed Income	629,867	593,093	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Export-Import Bank of India	1/15/2030	3.25	Fixed Income	600,000	568,206	0.046%
JNLIPMCO Investment Grade Credit Bond Fund	Southern California Gas Company	1/15/2030	2.55	Fixed Income	1,600,000	1,473,810	0.118%
JNLIPMCO Investment Grade Credit Bond Fund	Georgia Power Company	1/30/2050	3.70	Fixed Income	400,000	321,359	0.026%
JNLIPMCO Investment Grade Credit Bond Fund	Phosagro Bond Funding Designated Activity Company	1/23/2025	3.05	Fixed Income	600,000	496,864	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	1/1/2200	4.60	Fixed Income	2,300,000	2,302,567	0.185%
JNLIPMCO Investment Grade Credit Bond Fund	Constellation Insurance, Inc.	1/24/2030	6.90	Fixed Income	2,600,000	2,655,978	0.212%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	1/1/2200	4.30	Fixed Income	2,700,000	2,702,330	0.217%
JNLIPMCO Investment Grade Credit Bond Fund	National Rural Utilities Cooperative Finance Corporation	3/15/2030	2.40	Fixed Income	1,600,000	1,456,355	0.117%
JNLIPMCO Investment Grade Credit Bond Fund	VICI Properties Inc.	8/15/2030	4.13	Fixed Income	400,000	382,337	0.031%
JNLIPMCO Investment Grade Credit Bond Fund	Union Pacific Corporation	2/5/2070	3.75	Fixed Income	300,000	259,080	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	Merrill Lynch Mortgage Capital Inc.	9/25/2035	5.72	Fixed Income	581,539	550,855	0.044%
JNLIPMCO Investment Grade Credit Bond Fund	Santander Holdings USA, Inc.	10/5/2026	3.24	Fixed Income	2,200,000	2,176,000	0.175%
JNLIPMCO Investment Grade Credit Bond Fund	Tetragon Inc.	3/1/2028	3.38	Fixed Income	1,100,000	1,067,908	0.086%
JNLIPMCO Investment Grade Credit Bond Fund	Essex Properties, L.P.	3/15/2032	2.65	Fixed Income	3,800,000	3,395,873	0.273%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	2/11/2031	2.57	Fixed Income	3,700,000	3,374,473	0.271%
JNLIPMCO Investment Grade Credit Bond Fund	Adani Electricity Mumbai Limited	2/12/2030	3.95	Fixed Income	524,000	475,630	0.038%
JNLIPMCO Investment Grade Credit Bond Fund	HCA Inc.	9/1/2030	3.50	Fixed Income	700,000	661,090	0.053%
JNLIPMCO Investment Grade Credit Bond Fund	DTE Electric Company	3/1/2030	2.25	Fixed Income	1,400,000	1,275,776	0.102%
JNLIPMCO Investment Grade Credit Bond Fund	Jeffrey Aronson Corporation	5/15/2032	2.75	Fixed Income	237,816	213,485	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Tennessee Gas Pipeline Company, L.L.C.	3/1/2030	2.90	Fixed Income	5,100,000	4,678,988	0.376%
JNLIPMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	1/1/2200	4.00	Fixed Income	4,700,000	4,730,717	0.380%
JNLIPMCO Investment Grade Credit Bond Fund	Veritas Realty, Limited Partnership	1/15/2029	4.40	Fixed Income	900,000	806,342	0.073%
JNLIPMCO Investment Grade Credit Bond Fund	Citigroup Inc.	3/31/2031	4.41	Fixed Income	2,200,000	1,383,666	0.115%
JNLIPMCO Investment Grade Credit Bond Fund	Moran Stanley	4/1/2031	3.62	Fixed Income	3,500,000	3,423,209	0.275%
JNLIPMCO Investment Grade Credit Bond Fund	Long Beach Mortgage Loan Trust 2006-8	9/25/2036	5.29	Fixed Income	906,884	248,066	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	C-BASS 2007-CB1 Trust	1/25/2037	3.19	Fixed Income	558,711	164,765	0.013%
JNLIPMCO Investment Grade Credit Bond Fund	Bear Stearns Asset Backed Securities I Trust 2006-HE9	11/25/2035	5.00	Fixed Income	1,000,000	959,542	0.077%
JNLIPMCO Investment Grade Credit Bond Fund	BNP Paribas	8/14/2028	4.40	Fixed Income	900,000	898,514	0.072%
JNLIPMCO Investment Grade Credit Bond Fund	Bear Stearns Arm Trust 2005-6	6/25/2035	5.14	Fixed Income	215,161	200,319	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Alternative Loan Trust 2006-43CB	2/25/2037	6.00	Fixed Income	489,238	263,172	0.021%
JNLIPMCO Investment Grade Credit Bond Fund	Alternative Loan Trust 2006-911	2/25/2036	5.50	Fixed Income	3,016,983	2,816,078	0.146%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Mortgage 2006-B Trust	11/20/2036	3.73	Fixed Income	1,511,646	1,302,345	0.105%
JNLIPMCO Investment Grade Credit Bond Fund	Alternative Loan Trust 2005-43	7/25/2035	5.75	Fixed Income	1,712,386	1,066,126	0.086%
JNLIPMCO Investment Grade Credit Bond Fund	Alternative Loan Trust 2005-43	10/25/2035	5.50	Fixed Income	1,323,448	985,736	0.079%
JNLIPMCO Investment Grade Credit Bond Fund	Bear Stearns ARM Trust 2005-2	7/25/2035	3.75	Fixed Income	588		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Investment Grade Credit Bond Fund	Live Nation Entertainment, Inc.	5/15/2027	6.50	Fixed Income	600.000	626.800	0.050%
JNLIPMCO Investment Grade Credit Bond Fund	Entergy Corporation	5/15/2030	2.90	Fixed Income	2,660.000	2,369.460	0.139%
JNLIPMCO Investment Grade Credit Bond Fund	Sifer Financial Corp.	5/15/2030	4.00	Fixed Income	900.000	875.559	0.070%
JNLIPMCO Investment Grade Credit Bond Fund	Alcon Financial Corporation	5/27/2030	2.60	Fixed Income	700.000	645.166	0.052%
JNLIPMCO Investment Grade Credit Bond Fund	Evergy Metro, Inc.	6/1/2030	2.25	Fixed Income	1,000.000	901.739	0.072%
JNLIPMCO Investment Grade Credit Bond Fund	MPX L.P.	12/1/2047	5.20	Fixed Income	1,639.000	1,569.946	0.126%
JNLIPMCO Investment Grade Credit Bond Fund	Stryker Corporation	6/15/2050	2.90	Fixed Income	300.000	213.966	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	6/2/2028	2.39	Fixed Income	4,500.000	4,316.270	0.346%
JNLIPMCO Investment Grade Credit Bond Fund	Ferguson Financial PLC	6/2/2030	3.25	Fixed Income	3,900.000	3,675.482	0.295%
JNLIPMCO Investment Grade Credit Bond Fund	Marriott International, Inc.	6/15/2030	4.63	Fixed Income	200.000	204.676	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	HSBC Holdings PLC	8/4/2031	2.85	Fixed Income	2,500.000	2,284.925	0.183%
JNLIPMCO Investment Grade Credit Bond Fund	Infor, Inc.	7/15/2025	1.75	Fixed Income	800.000	782.078	0.063%
JNLIPMCO Investment Grade Credit Bond Fund	The East Ohio Gas Company	6/15/2030	2.00	Fixed Income	600.000	526.150	0.042%
JNLIPMCO Investment Grade Credit Bond Fund	Weyerhaeuser Company	4/15/2030	4.00	Fixed Income	2,300.000	2,294.546	0.184%
JNLIPMCO Investment Grade Credit Bond Fund	Equinus, Inc.	7/15/2030	2.15	Fixed Income	1,700.000	1,510.016	0.121%
JNLIPMCO Investment Grade Credit Bond Fund	UDR, Inc.	8/15/2031	3.00	Fixed Income	200.000	182.935	0.015%
JNLIPMCO Investment Grade Credit Bond Fund	Delta Air Lines, Inc.	15/1/2026	7.38	Fixed Income	1,601.000	1,672.536	0.134%
JNLIPMCO Investment Grade Credit Bond Fund	Ares Finance Co. II LLC	6/15/2030	3.25	Fixed Income	1,200.000	1,130.232	0.091%
JNLIPMCO Investment Grade Credit Bond Fund	Florida Gas Transmission Company, LLC	7/1/2030	2.55	Fixed Income	1,000.000	905.795	0.073%
JNLIPMCO Investment Grade Credit Bond Fund	Black Hills Corporation	6/15/2030	2.50	Fixed Income	1,400.000	1,254.536	0.101%
JNLIPMCO Investment Grade Credit Bond Fund	Westinghouse Air Brake Technologies Corporation	6/15/2025	3.20	Fixed Income	5,500.000	5,482.398	0.440%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	6/1/2040	3.30	Fixed Income	2,300.000	1,800.163	0.144%
JNLIPMCO Investment Grade Credit Bond Fund	Constellation Brands, Inc.	12/6/2026	3.70	Fixed Income	100.000	100.128	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	GLP Financing, LLC	1/15/2031	4.00	Fixed Income	5,600.000	5,306.698	0.429%
JNLIPMCO Investment Grade Credit Bond Fund	Occidental Petroleum Corporation	9/15/2031	7.88	Fixed Income	2,800.000	3,256.872	0.261%
JNLIPMCO Investment Grade Credit Bond Fund	Discover Financial Services	1/1/2200	6.13	Fixed Income	2,100.000	2,105.006	0.169%
JNLIPMCO Investment Grade Credit Bond Fund	AbbVie Inc.	11/6/2042	4.40	Fixed Income	2,981.000	2,179.292	0.193%
JNLIPMCO Investment Grade Credit Bond Fund	Arch Capital Group Ltd.	6/30/2050	3.64	Fixed Income	615.000	482.467	0.039%
JNLIPMCO Investment Grade Credit Bond Fund	Alaska Air Pass Through Trust 2020-1A	8/15/2027	4.80	Fixed Income	755.092	757.833	0.061%
JNLIPMCO Investment Grade Credit Bond Fund	CoStar Group, Inc.	7/15/2030	2.80	Fixed Income	1,100.000	997.343	0.080%
JNLIPMCO Investment Grade Credit Bond Fund	Occidental Petroleum Corporation	7/15/2030	6.88	Fixed Income	300.000	359.519	0.028%
JNLIPMCO Investment Grade Credit Bond Fund	Sumitomo Mitsui Financial Group, Inc.	7/8/2030	2.13	Fixed Income	2,700.000	2,789.263	0.223%
JNLIPMCO Investment Grade Credit Bond Fund	Nomura Holdings, Inc.	7/16/2025	1.85	Fixed Income	1,300.000	1,274.552	0.102%
JNLIPMCO Investment Grade Credit Bond Fund	Aviation Capital Group LLC	12/15/2024	5.50	Fixed Income	600.000	609.443	0.049%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.50	Fixed Income	28.609	28.642	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.50	Fixed Income	13.062	13.067	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2049	4.50	Fixed Income	23.938	23.936	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	4/1/2049	4.50	Fixed Income	26.973	26.971	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2048	4.50	Fixed Income	18.263	18.284	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	10/1/2048	4.50	Fixed Income	9.716	9.716	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2048	4.50	Fixed Income	70.786	70.846	0.006%
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2048	4.50	Fixed Income	140.946	141.066	0.011%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	10/1/2048	4.50	Fixed Income	87.202	87.276	0.007%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.50	Fixed Income	37.847	37.916	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.50	Fixed Income	17.494	17.493	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	7/1/2050	4.95	Fixed Income	500.000	460.044	0.037%
JNLIPMCO Investment Grade Credit Bond Fund	Boise Cascade Company	7/1/2030	4.88	Fixed Income	300.000	292.785	0.023%
JNLIPMCO Investment Grade Credit Bond Fund	MCE Financial Limited	7/21/2028	5.75	Fixed Income	400.000	391.577	0.031%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	7/1/2028	3.75	Fixed Income	250.000	245.396	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	Bristol-Myers Squibb Company	2/20/2048	4.55	Fixed Income	78.000	72.322	0.006%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	7/23/2031	1.90	Fixed Income	3,900.000	3,399.873	0.273%
JNLIPMCO Investment Grade Credit Bond Fund	Pacific Gas And Electric Company	1/1/2026	3.15	Fixed Income	1,200.000	1,187.178	0.095%
JNLIPMCO Investment Grade Credit Bond Fund	Mid-Atlantic Interstate Transmission, LLC	5/15/2028	4.10	Fixed Income	1,300.000	1,309.572	0.105%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	3/1/2049	4.00	Fixed Income	163.204	159.159	0.013%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	5/1/2050	4.00	Fixed Income	1,389.037	1,350.697	0.108%
JNLIPMCO Investment Grade Credit Bond Fund	JetBlue Airways Corporation	11/15/2032	4.00	Fixed Income	2,529.615	2,166.077	0.174%
JNLIPMCO Investment Grade Credit Bond Fund	Delta Air Lines, Inc.	6/10/2028	7.85	Fixed Income	726.824	716.069	0.057%
JNLIPMCO Investment Grade Credit Bond Fund	ServiceNow, Inc.	9/1/2030	1.40	Fixed Income	1,200.000	1,030.819	0.083%
JNLIPMCO Investment Grade Credit Bond Fund	Host Hotels & Resorts, L.P.	9/15/2030	3.50	Fixed Income	3,400.000	3,160.019	0.254%
JNLIPMCO Investment Grade Credit Bond Fund	CNA Financial Corporation	8/15/2030	2.55	Fixed Income	300.000	263.705	0.021%
JNLIPMCO Investment Grade Credit Bond Fund	MPX L.P.	5/15/2033	5.88	Fixed Income	700.000	3,342.897	0.268%
JNLIPMCO Investment Grade Credit Bond Fund	Ford Motor Credit Company LLC	8/17/2027	4.13	Fixed Income	300.000	294.184	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	CVS Health Corporation	8/21/2040	2.70	Fixed Income	300.000	214.422	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Santander UK Group Holdings PLC	8/21/2026	1.53	Fixed Income	2,100.000	2,040.698	0.164%
JNLIPMCO Investment Grade Credit Bond Fund	Globe Life Inc.	6/15/2030	2.15	Fixed Income	300.000	259.162	0.021%
JNLIPMCO Investment Grade Credit Bond Fund	Wynn Macau, Limited	8/26/2028	5.63	Fixed Income	500.000	488.115	0.039%
JNLIPMCO Investment Grade Credit Bond Fund	Hanover Insurance Group Inc, The	9/1/2030	2.50	Fixed Income	500.000	439.068	0.035%
JNLIPMCO Investment Grade Credit Bond Fund	Mizuho Financial Group, Inc.	9/8/2031	1.98	Fixed Income	1,000.000	1,645.378	0.132%
JNLIPMCO Investment Grade Credit Bond Fund	Air Canada	4/1/2029	5.25	Fixed Income	57.260	57.048	0.005%
JNLIPMCO Investment Grade Credit Bond Fund	Transurban Finance Company Pty Ltd	3/16/2031	2.45	Fixed Income	950.000	825.115	0.066%
JNLIPMCO Investment Grade Credit Bond Fund	Banco Bilbao Vizcaya Argentaria, S.A.	9/18/2025	1.13	Fixed Income	4,000.000	3,876.720	0.311%
JNLIPMCO Investment Grade Credit Bond Fund	COPT Defense Properties	3/15/2026	2.25	Fixed Income	400.000	386.859	0.031%
JNLIPMCO Investment Grade Credit Bond Fund	Presidencia De La Nacion	7/8/2029	1.00	Fixed Income	29.816	29.816	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Presidencia De La Nacion	7/9/2030	0.75	Fixed Income	98.641	59.723	0.005%
JNLIPMCO Investment Grade Credit Bond Fund	Presidencia De La Nacion	7/9/2041	3.50	Fixed Income	1,100.000	507.913	0.041%
JNLIPMCO Investment Grade Credit Bond Fund	Presidencia De La Nacion	7/9/2035	4.13	Fixed Income	188.248	91.896	0.007%
JNLIPMCO Investment Grade Credit Bond Fund	American Airlines, Inc.	9/22/2027	3.60	Fixed Income	997.213	977.185	0.079%
JNLIPMCO Investment Grade Credit Bond Fund	Quanta Services, Inc.	10/1/2030	2.90	Fixed Income	900.000	841.544	0.068%
JNLIPMCO Investment Grade Credit Bond Fund	Aker BP ASA	1/15/2031	4.00	Fixed Income	3,500.000	3,341.145	0.268%
JNLIPMCO Investment Grade Credit Bond Fund	Centene Corporation	10/15/2030	3.00	Fixed Income	4,900.000	4,452.720	0.357%
JNLIPMCO Investment Grade Credit Bond Fund	CenterPoint Energy Resources Corp.	10/1/2030	1.75	Fixed Income	2,000.000	1,737.386	0.139%
JNLIPMCO Investment Grade Credit Bond Fund	Entergy Texas, Inc.	3/15/2031	1.75	Fixed Income	700.000	594.186	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Midwest Connector Capital Company LLC	4/1/2029	4.63	Fixed Income	500.000	508.210	0.041%
JNLIPMCO Investment Grade Credit Bond Fund	Protective Life Corporation	9/30/2028	4.30	Fixed Income	1,000.000	997.487	0.080%
JNLIPMCO Investment Grade Credit Bond Fund	SKY Miles IP Ltd.	9/16/2027	9.03	Fixed Income	239.168	247.673	0.020%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley	1/1/2200	5.88	Fixed Income	700.000	1,004.176	0.080%
JNLIPMCO Investment Grade Credit Bond Fund	INTEGRIS Baptist Medical Center, Inc.	8/15/2050	3.88	Fixed Income	700.000	556.269	0.045%
JNLIPMCO Investment Grade Credit Bond Fund	Elevance Health, Inc.	2/15/2033	4.75	Fixed Income	3,700.000	3,762.179	0.302%
JNLIPMCO Investment Grade Credit Bond Fund	Nexidia Energy Capital Holdings, Inc.	2/28/2030	5.00	Fixed Income	500.000	519.532	0.042%
JNLIPMCO Investment Grade Credit Bond Fund	BP Capital Markets America, Inc.	3/15/2033	4.81	Fixed Income	700.000	1,015.766	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	Philip Morris International Inc.	2/15/2033	5.38	Fixed Income	1,500.000	1,576.904	0.127%
JNLIPMCO Investment Grade Credit Bond Fund	Amgen Inc.	3/2/2053	5.65	Fixed Income	6,600.000	6,981.427	0.560%
JNLIPMCO Investment Grade Credit Bond Fund	Amgen Inc.	3/2/2030	5.25	Fixed Income	400.000	418.783	0.034%
JNLIPMCO Investment Grade Credit Bond Fund	Amgen Inc.	3/2/2033	5.25	Fixed Income	1,200.000	1,254.854	0.101%
JNLIPMCO Investment Grade Credit Bond Fund	Amgen Inc.	3/2/2043	5.60	Fixed Income	400.000	422.644	0.034%
JNLIPMCO Investment Grade Credit Bond Fund	Exelon Corporation	3/15/2028	5.15	Fixed Income	800.000	823.663	0.066%
JNLIPMCO Investment Grade Credit Bond Fund	Trillium Inc.	3/15/2033	6.10	Fixed Income	200.000	276.566	0.021%
JNLIPMCO Investment Grade Credit Bond Fund	Williams Companies, Inc., The	3/2/2026	5.40	Fixed Income	2,300.000	2,339.752	0.188%
JNLIPMCO Investment Grade Credit Bond Fund	Humana Inc.	3/15/2053	5.50	Fixed Income	300.000	297.146	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Southern California Edison Company	3/1/2028	5.30	Fixed Income	4,200.000	4,362.255	0.350%
JNLIPMCO Investment Grade Credit Bond Fund	PPL Electric Utilities Corporation	5/15/2033	5.00	Fixed Income	100.000	105.064	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	American Electric Power Corporation, Inc.	5/1/2029	5.65	Fixed Income	1,800.000	1,691.458	0.136%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	2/15/2053	1.50	Fixed Income	6,823.000	6,544.327	0.525%
JNLIPMCO Investment Grade Credit Bond Fund	American Tower Corporation	3/15/2033	5.65	Fixed Income	1,200.000	1,270.799	0.102%
JNLIPMCO Investment Grade Credit Bond Fund	Enbridge Inc.	3/8/2033	5.70	Fixed Income	1,700.000	1,798.504	0.144%
JNLIPMCO Investment Grade Credit Bond Fund	System Energy Resources, Inc.	4/15/2028	6.00	Fixed Income	700.000	713.618	0.056%
JNLIPMCO Investment Grade Credit Bond Fund	Texas Natural Gas Securitization Finance Corporation	4/1/2035	5.10	Fixed Income	1,164.040	1,233.625	0.099%
JNLIPMCO Investment Grade Credit Bond Fund	Duke Energy Ohio, Inc.	4/1/2053	5.65	Fixed Income	1,500.000	1,630.223	0.131%
JNLIPMCO Investment Grade Credit Bond Fund	Duke Energy Indiana, LLC	4/1/2053	5.40	Fixed Income	2,100.000	2,212.226	0.178%
JNLIPMCO Investment Grade Credit Bond Fund	UnitedHealth Group Incorporated	4/15/2063	5.20	Fixed Income	1,500.000	1,539.650	0.124%
JNLIPMCO Investment Grade Credit Bond Fund	Aviation Capital Group LLC	4/15/2028	6.25	Fixed Income	600.000	643.332	0.052%
JNLIPMCO Investment Grade Credit Bond Fund	Canadian Pacific Kansas City Limited	6/1/2026	3.13	Fixed Income	500.000	494.994	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of America Corporation	4/25/2034	5.29	Fixed Income	3,200.000	3,401.041	0.273%
JNLIPMCO Investment Grade Credit Bond Fund	Canadian Pacific Kansas City Limited	5/1/2050	3.50	Fixed Income	1,200.000	948.966	0.076%
JNLIPMCO Investment Grade Credit Bond Fund	Warnermedia Holdings, Inc.	2/15/2032	4.28	Fixed Income	2,650.000	2,965.071	0.239%
JNLIPMCO Investment Grade Credit Bond Fund	Warnermedia Holdings, Inc.	3/15/2042	5.05	Fixed Income	1,700.000	1,391.400	0.112%
JNLIPMCO Investment Grade Credit Bond Fund	Meta Platforms, Inc.	5/15/2053	5.60	Fixed Income	1,700.000	1,877.617	0.151%
JNLIPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	2/1/2027	7.08	Fixed Income	1,687	2.684	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Comcast Corporation	5/15/2064	5.50	Fixed Income	1,100.000	1,160.465	0.093%
JNLIPMCO Investment Grade Credit Bond Fund	HCA Inc.	6/1/2033	5.50	Fixed Income	1,800.000	1,902.202	0.153%
JNLIPMCO Investment Grade Credit Bond Fund	Glencore Funding LLC	5/8/2028	5.40	Fixed Income	900.000	945.963	0.076%
JNLIPMCO Investment Grade Credit Bond Fund	Lloyds Banking Group PLC	3/6/2029	5.87	Fixed Income	700.000	732.686	0.059%
JNLIPMCO Investment Grade Credit Bond Fund	Barclays PLC	5/9/2034	6.22	Fixed Income	3,100.000	3,418.987	0.274%
JNLIPMCO Investment Grade Credit Bond Fund	Equifax Inc.	6/1/2028	5.10	Fixed Income	1,000.000	1,040.987	0.084%
JNLIPMCO Investment Grade Credit Bond Fund	T-Mobile USA, Inc.	1/15/2054	5.75	Fixed Income	2,100.000	2,253.386	0.181%
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2052	3.00	Fixed Income	462.361	416.311	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	Aviation Home Operating Partnership LP	5/15/2031	5.88	Fixed Income	700.000	699.433	0.056%
JNLIPMCO Investment Grade Credit Bond Fund	The AES Corporation	6/1/2028	5.45	Fixed Income	2,900.000	3,038.578	0.244%
JNLIPMCO Investment Grade Credit Bond Fund	Florida Power & Light Company	5/15/2033	4.80	Fixed Income	2,300.000	2,398.636	0.193%
JNLIPMCO Investment Grade Credit Bond Fund	Southern California Gas Company	5/15/2033	5.20	Fixed Income	1,800.000	1,905.469	0.153%
JNLIPMCO Investment Grade Credit Bond Fund	Lockheed Martin Corporation	2/15/2056	5.20	Fixed Income			

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPIMCO Investment Grade Credit Bond Fund	Drillico Holding Lux S.A.	6/15/2030	7.50	Fixed Income	13,315	12,717	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	URS Group AG	4/1/2026	4.55	Fixed Income	700,000	117,050	0.058%
JNLIPIMCO Investment Grade Credit Bond Fund	CBRE Services, Inc.	8/15/2034	5.95	Fixed Income	600,000	649,214	0.052%
JNLIPIMCO Investment Grade Credit Bond Fund	The Connecticut Light and Power Company	7/1/2033	4.90	Fixed Income	400,000	414,913	0.033%
JNLIPIMCO Investment Grade Credit Bond Fund	Howard Midstream Energy Partners, LLC	7/15/2028	8.88	Fixed Income	500,000	539,933	0.043%
JNLIPIMCO Investment Grade Credit Bond Fund	Hyundai Capital America	7/11/2025	6.00	Fixed Income	800,000	923,622	0.074%
JNLIPIMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	1/1/2020	7.63	Fixed Income	600,000	655,033	0.053%
JNLIPIMCO Investment Grade Credit Bond Fund	Jefferies Financial Group Inc.	7/21/2028	5.88	Fixed Income	1,175,000	1,237,999	0.099%
JNLIPIMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	7/25/2029	5.57	Fixed Income	500,000	525,402	0.042%
JNLIPIMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	7/25/2034	5.56	Fixed Income	300,000	317,967	0.026%
JNLIPIMCO Investment Grade Credit Bond Fund	HECO Corporation	8/1/2028	5.25	Fixed Income	450,000	469,420	0.038%
JNLIPIMCO Investment Grade Credit Bond Fund	Elecricite de France	9/21/2038	4.88	Fixed Income	1,100,000	1,061,780	0.085%
JNLIPIMCO Investment Grade Credit Bond Fund	Ontario Gaming GTA LP	7/11/2030	9.58	Fixed Income	398,250	398,009	0.032%
JNLIPIMCO Investment Grade Credit Bond Fund	RTX Corporation	2/27/2053	5.38	Fixed Income	1,500,000	1,551,053	0.124%
JNLIPIMCO Investment Grade Credit Bond Fund	Etra Space Storage LP	10/15/2030	2.20	Fixed Income	1,000,000	985,170	0.071%
JNLIPIMCO Investment Grade Credit Bond Fund	Freedom Mortgage Corporation	1/15/2027	6.63	Fixed Income	1,200,000	1,219,377	0.098%
JNLIPIMCO Investment Grade Credit Bond Fund	Norfolk Southern Corporation	8/1/2054	5.35	Fixed Income	700,000	727,031	0.058%
JNLIPIMCO Investment Grade Credit Bond Fund	Invitation Homes Operating Partnership LP	8/15/2030	5.45	Fixed Income	400,000	418,901	0.034%
JNLIPIMCO Investment Grade Credit Bond Fund	Booz Allen Hamilton Inc.	8/4/2033	5.95	Fixed Income	600,000	646,422	0.052%
JNLIPIMCO Investment Grade Credit Bond Fund	CNA Financial Corporation	6/15/2033	5.50	Fixed Income	900,000	962,396	0.077%
JNLIPIMCO Investment Grade Credit Bond Fund	HCA Inc.	3/15/2032	3.63	Fixed Income	4,900,000	4,545,170	0.365%
JNLIPIMCO Investment Grade Credit Bond Fund	ConocoPhillips Company	3/15/2054	5.55	Fixed Income	1,100,000	1,152,922	0.093%
JNLIPIMCO Investment Grade Credit Bond Fund	Anarjes Holdings LP	8/11/2028	7.95	Fixed Income	600,000	644,284	0.052%
JNLIPIMCO Investment Grade Credit Bond Fund	BNP Paribas	1/1/2200	8.50	Fixed Income	1,700,000	1,942,098	0.148%
JNLIPIMCO Investment Grade Credit Bond Fund	ONEOK, Inc.	9/1/2053	6.63	Fixed Income	600,000	668,426	0.054%
JNLIPIMCO Investment Grade Credit Bond Fund	Enel Finance America, LLC	7/12/2041	2.88	Fixed Income	1,600,000	1,162,546	0.093%
JNLIPIMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc. The	7/1/2030	7.50	Fixed Income	700,000	758,464	0.061%
JNLIPIMCO Investment Grade Credit Bond Fund	Assured Guaranty US Holdings Inc.	9/15/2028	6.13	Fixed Income	500,000	531,759	0.043%
JNLIPIMCO Investment Grade Credit Bond Fund	BKMT 2020-FL3 Ltd	11/18/2037	6.60	Fixed Income	715,706	705,972	0.057%
JNLIPIMCO Investment Grade Credit Bond Fund	Marsh & McLennan Companies, Inc.	9/15/2053	5.70	Fixed Income	700,000	757,562	0.061%
JNLIPIMCO Investment Grade Credit Bond Fund	Barclays PLC	8/12/2034	6.68	Fixed Income	1,100,000	1,225,941	0.098%
JNLIPIMCO Investment Grade Credit Bond Fund	Santitas Finanzas Ltd	9/18/2033	6.88	Fixed Income	2,300,000	2,538,758	0.204%
JNLIPIMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/27/2031	2.75	Fixed Income	41,144,400	1,843,596	0.148%
JNLIPIMCO Investment Grade Credit Bond Fund	American Tower Corporation	11/15/2033	5.90	Fixed Income	1,900,000	2,085,450	0.167%
JNLIPIMCO Investment Grade Credit Bond Fund	Vistra Operations Company LLC	10/15/2033	6.95	Fixed Income	800,000	928,212	0.074%
JNLIPIMCO Investment Grade Credit Bond Fund	Marrion International, Inc.	9/15/2026	5.48	Fixed Income	1,000,000	1,077,305	0.084%
JNLIPIMCO Investment Grade Credit Bond Fund	Hudson Pacific Properties, LP	2/15/2028	5.95	Fixed Income	600,000	553,228	0.044%
JNLIPIMCO Investment Grade Credit Bond Fund	Freedom Mortgage Corporation	10/1/2028	12.00	Fixed Income	800,000	922,486	0.074%
JNLIPIMCO Investment Grade Credit Bond Fund	Golub Capital Partners CLO 26B Ltd	4/20/2031	6.56	Fixed Income	213,825	216,766	0.017%
JNLIPIMCO Investment Grade Credit Bond Fund	Southern California Edison Company	9/1/2028	5.65	Fixed Income	1,100,000	1,185,707	0.095%
JNLIPIMCO Investment Grade Credit Bond Fund	Western Midstream Operating, LP	1/15/2029	6.35	Fixed Income	900,000	966,711	0.078%
JNLIPIMCO Investment Grade Credit Bond Fund	Octagon Investment Partners XV, Ltd.	7/19/2030	6.51	Fixed Income	1,044,804	1,059,130	0.085%
JNLIPIMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.00	Fixed Income	14,000,000	14,311,171	1.149%
JNLIPIMCO Investment Grade Credit Bond Fund	Ally Financial Inc.	8/8/2027	4.75	Fixed Income	380,000	394,111	0.031%
JNLIPIMCO Investment Grade Credit Bond Fund	BGC Group, Inc.	5/25/2028	8.00	Fixed Income	700,000	773,269	0.062%
JNLIPIMCO Investment Grade Credit Bond Fund	BGC Group, Inc.	12/15/2025	4.38	Fixed Income	700,000	702,987	0.056%
JNLIPIMCO Investment Grade Credit Bond Fund	BPCE	10/19/2027	6.61	Fixed Income	900,000	961,702	0.077%
JNLIPIMCO Investment Grade Credit Bond Fund	Energy Transfer LP	12/1/2033	6.55	Fixed Income	1,400,000	1,576,929	0.127%
JNLIPIMCO Investment Grade Credit Bond Fund	BPCE	10/19/2034	7.00	Fixed Income	400,000	461,038	0.037%
JNLIPIMCO Investment Grade Credit Bond Fund	Nationwide Building Society	10/18/2027	6.56	Fixed Income	1,800,000	1,928,991	0.155%
JNLIPIMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	10/23/2034	6.25	Fixed Income	3,000,000	3,416,110	0.274%
JNLIPIMCO Investment Grade Credit Bond Fund	Kervue Inc.	3/22/2033	7.90	Fixed Income	700,000	724,107	0.058%
JNLIPIMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	11/30/2028	4.00	Fixed Income	33,713,841	1,678,832	0.135%
JNLIPIMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc. The	10/24/2034	6.56	Fixed Income	2,900,000	3,356,714	0.269%
JNLIPIMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	12/3/2026	3.00	Fixed Income	20,557,220	994,678	0.080%
JNLIPIMCO Investment Grade Credit Bond Fund	Venture Global LNG, Inc.	2/1/2029	9.50	Fixed Income	1,000,000	1,388,041	0.109%
JNLIPIMCO Investment Grade Credit Bond Fund	Venture Global LNG, Inc.	2/1/2032	9.88	Fixed Income	1,100,000	1,240,400	0.100%
JNLIPIMCO Investment Grade Credit Bond Fund	Fox Corporation	10/13/2033	6.50	Fixed Income	900,000	1,010,221	0.081%
JNLIPIMCO Investment Grade Credit Bond Fund	Morgan Stanley	11/1/2029	6.41	Fixed Income	2,500,000	2,754,968	0.221%
JNLIPIMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	10/31/2030	4.88	Fixed Income	8,500,000	9,244,501	0.742%
JNLIPIMCO Investment Grade Credit Bond Fund	Lloyds Banking Group PLC	8/1/2033	5.95	Fixed Income	3,200,000	3,053,305	0.251%
JNLIPIMCO Investment Grade Credit Bond Fund	Enbridge Inc.	11/15/2030	6.20	Fixed Income	1,500,000	1,668,895	0.134%
JNLIPIMCO Investment Grade Credit Bond Fund	Sysco Corporation	1/17/2034	6.00	Fixed Income	300,000	332,914	0.027%
JNLIPIMCO Investment Grade Credit Bond Fund	RTX Corporation	3/15/2034	6.10	Fixed Income	1,300,000	1,439,806	0.116%
JNLIPIMCO Investment Grade Credit Bond Fund	Ares Management Corporation	11/10/2028	6.38	Fixed Income	800,000	879,971	0.071%
JNLIPIMCO Investment Grade Credit Bond Fund	URS Group AG	1/1/2200	9.25	Fixed Income	200,000	243,088	0.020%
JNLIPIMCO Investment Grade Credit Bond Fund	Spirit Aerosystems, Inc.	11/15/2030	9.75	Fixed Income	1,300,000	1,497,946	0.120%
JNLIPIMCO Investment Grade Credit Bond Fund	FS KKR Capital Corp.	7/15/2029	7.88	Fixed Income	1,400,000	1,529,589	0.123%
JNLIPIMCO Investment Grade Credit Bond Fund	Charles Schwab Corporation, The	11/1/2029	6.90	Fixed Income	1,100,000	1,204,940	0.095%
JNLIPIMCO Investment Grade Credit Bond Fund	Teapey, Inc.	11/27/2030	7.70	Fixed Income	800,000	884,233	0.071%
JNLIPIMCO Investment Grade Credit Bond Fund	GoldenTree Loan Management US CLO 16 Ltd	12/0/2034	6.95	Fixed Income	1,000,000	1,017,673	0.082%
JNLIPIMCO Investment Grade Credit Bond Fund	Bayer US Finance LLC	11/21/2030	6.38	Fixed Income	4,800,000	5,250,808	0.421%
JNLIPIMCO Investment Grade Credit Bond Fund	Votres Transportation And Infrastructure Investors LLC	12/1/2030	9.63	Fixed Income	600,000	650,962	0.052%
JNLIPIMCO Investment Grade Credit Bond Fund	Banco Santander, S.A.	1/1/2200	9.63	Fixed Income	400,000	475,747	0.038%
JNLIPIMCO Investment Grade Credit Bond Fund	37 Capital CLO 4 Ltd	12/3/2036	7.10	Fixed Income	600,000	610,974	0.049%
JNLIPIMCO Investment Grade Credit Bond Fund	Intesa Sanpaolo SPA	11/28/2053	7.80	Fixed Income	1,300,000	1,593,982	0.128%
JNLIPIMCO Investment Grade Credit Bond Fund	Norfolk Southern Corporation	3/15/2064	5.95	Fixed Income	600,000	665,962	0.053%
JNLIPIMCO Investment Grade Credit Bond Fund	Sunac China Holdings Limited	9/30/2026	6.25	Fixed Income	69,092	7,698	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	Sunac China Holdings Limited	9/30/2027	6.50	Fixed Income	138,522	12,838	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	Sunac China Holdings Limited	9/30/2028	6.75	Fixed Income	208,287	17,743	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	Gaz Finance PLC	12/7/2029	2.95	Fixed Income	1,800,000	874,878	0.070%
JNLIPIMCO Investment Grade Credit Bond Fund	Sunac China Holdings Limited	9/30/2029	7.00	Fixed Income	201,730	15,169	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	Sunac China Holdings Limited	9/30/2030	7.25	Fixed Income	98,322	7,148	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	Sunac China Holdings Limited	9/30/2025	6.00	Fixed Income	68,925	8,110	0.001%
JNLIPIMCO Investment Grade Credit Bond Fund	Golub Capital BDC, Inc.	12/5/2028	7.05	Fixed Income	400,000	431,232	0.035%
JNLIPIMCO Investment Grade Credit Bond Fund	Crown Castle Inc.	8/1/2029	5.60	Fixed Income	300,000	318,980	0.026%
JNLIPIMCO Investment Grade Credit Bond Fund	Canort Fitzgerald, P.L.	12/1/2028	7.20	Fixed Income	1,500,000	1,623,494	0.130%
JNLIPIMCO Investment Grade Credit Bond Fund	Stryker Corporation	12/8/2028	4.85	Fixed Income	2,100,000	2,185,867	0.175%
JNLIPIMCO Investment Grade Credit Bond Fund	American Electric Power Company, Inc.	11/15/2029	5.20	Fixed Income	1,000,000	1,043,469	0.084%
JNLIPIMCO Investment Grade Credit Bond Fund	Ally Financial Inc.	1/2/2030	6.80	Fixed Income	800,000	857,971	0.069%
JNLIPIMCO Investment Grade Credit Bond Fund	OneMain Finance Corporation	3/15/2030	7.88	Fixed Income	900,000	944,453	0.076%
JNLIPIMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	12/2/2030	7.33	Fixed Income	990,000	999,656	0.080%
JNLIPIMCO Investment Grade Credit Bond Fund	Ares Management Corporation	4/22/2031	6.59	Fixed Income	888,623	961,506	0.072%
JNLIPIMCO Investment Grade Credit Bond Fund	Bairings Loan Partners CLO Ltd 3	7/20/2033	6.90	Fixed Income	1,000,000	1,015,200	0.082%
JNLIPIMCO Investment Grade Credit Bond Fund	Lloyds Banking Group PLC	1/15/2035	6.68	Fixed Income	1,700,000	1,805,271	0.145%
JNLIPIMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/7/2036	6.00	Fixed Income	700,000	730,905	0.059%
JNLIPIMCO Investment Grade Credit Bond Fund	PacificCorp	2/15/2031	5.30	Fixed Income	900,000	948,481	0.076%
JNLIPIMCO Investment Grade Credit Bond Fund	BPCE	1/18/2030	5.72	Fixed Income	500,000	521,494	0.042%
JNLIPIMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	12/2/2030	7.33	Fixed Income	2,500	2,526	0.000%
JNLIPIMCO Investment Grade Credit Bond Fund	Government of Saudi Arabia	1/16/2030	4.75	Fixed Income	200,000	205,448	0.016%
JNLIPIMCO Investment Grade Credit Bond Fund	Kilroy Realty, L.P.	1/15/2036	6.25	Fixed Income	700,000	726,971	0.058%
JNLIPIMCO Investment Grade Credit Bond Fund	i-Mobile USA, Inc.	4/15/2034	5.15	Fixed Income	100,000	1,056,480	0.086%
JNLIPIMCO Investment Grade Credit Bond Fund	Main Street Capital Corporation	3/1/2029	6.95	Fixed Income	400,000	419,625	0.034%
JNLIPIMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	1/23/2030	5.20	Fixed Income	1,700,000	1,769,193	0.142%
JNLIPIMCO Investment Grade Credit Bond Fund	Morgan Stanley	1/16/2030	5.17	Fixed Income	1,600,000	1,666,538	0.134%
JNLIPIMCO Investment Grade Credit Bond Fund	EverSource Energy	3/1/2034	5.50	Fixed Income	600,000	658,058	0.053%
JNLIPIMCO Investment Grade Credit Bond Fund	Direct TV Financial, LLC	9/20/2029	10.61	Fixed Income	375,000	396,467	0.032%
JNLIPIMCO Investment Grade Credit Bond Fund	Presidencia da Republica	5/13/2054	7.13	Fixed Income	700,000	745,360	0.060%
JNLIPIMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2054	6.50	Fixed Income	4,167,158	4,318,301	0.347%
JNLIPIMCO Investment Grade Credit Bond Fund	HPS Corporate Lendito Fund	1/30/2029	6.75	Fixed Income	300,000	314,601	0.025%
JNLIPIMCO Investment Grade Credit Bond Fund	Realty Income Corporation	2/15/2031	5.20	Fixed Income	600,000	662,987	0.054%
JNLIPIMCO Investment Grade Credit Bond Fund	Realty Income Corporation	9/15/2026	4.45	Fixed Income	200,000	200,975	0.016%
JNLIPIMCO Investment Grade Credit Bond Fund	State Street Corporation	1/1/2200	6.70	Fixed Income	600,000	621,042	0.050%
JNLIPIMCO Investment Grade Credit Bond Fund	Ashford Capital, Inc.	4/15/2034	5.80	Fixed Income	1,100,000	1,192,010	0.096%
JNLIPIMCO Investment Grade Credit Bond Fund	Lockheed Martin Corporation	8/15/2034	4.80	Fixed Income	1,300,000	1,340,234	0.108%
JNLIPIMCO Investment Grade Credit Bond Fund	Northrop Grumman Corporation	6/1/2054	5.20	Fixed Income	1,500,000	1,563,086	0.125%
JNLIPIMCO Investment Grade Credit Bond Fund	Trinitas CLO XII Ltd	4/25/2033	6.65	Fixed Income	2,200,000	2,228,410	0.179%
JNLIPIMCO Investment Grade Credit Bond Fund	Piedmont Operating Partnership, LP	7/20/2028	9.25	Fixed Income	500,000	568,721	0.046%
JNLIPIMCO Investment Grade Credit Bond Fund	Deutsche Bank Aktiengesellschaft	2/8/2028	5.71	Fixed Income	1,400,000	1,434,324	0.115%
JNLIPIMCO Investment Grade Credit Bond Fund	Fiducicomiso Fibra Uno	2/13/2034	7.38	Fixed Income	800,000	832,456	0.067%
JNLIPIMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	2/15/2034	4.00	Fixed Income	34,500,000	35,103,470	2.817%
JNLIPIMCO Investment Grade Credit Bond Fund	EOT Corporation	2/1/2034	5.75	Fixed Income	500,000	518,665	0.042%
JNLIPIMCO Investment Grade Credit Bond Fund	Canadian Natural Resources Limited	6/30/2033	6.45	Fixed Income	500,000	563,284	0.045%
JNLIPIMCO Investment Grade Credit Bond Fund	Bristol-Myers Squibb Company	2/22/2029	4.90	Fixed Income	1,000,000	1,039,028	0.083%
JNLIPIMCO Investment Grade Credit Bond Fund	Bristol-Myers Squibb Company	2/22/2031	5.10	Fixed Income	565,000	594,021	0.048%
JNLIPIMCO Investment Grade Credit Bond Fund	Romania, Government of	3/22/2031	5.38	Fixed Income	500,000	567,275	0.047%
JNLIPIMCO Investment Grade Credit Bond Fund	AstraZeneca Finance LLC	2/16/2031	4.90	Fixed Income	2,000,000	2,096,930	0.168%
JNLIPIMCO Investment Grade Credit Bond Fund	JDE Peet's N.V.	6/16/2033	1.13	Fixed Income	100,000	90,982	0.007%
JNLIPIMCO Investment Grade Credit Bond Fund	AbbVie Inc.	3/15/2054	5.40				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Investment Grade Credit Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2053	4.50	Fixed Income	688,688	679,588	0.055%
JNLIPMCO Investment Grade Credit Bond Fund	PacifiCorp	1/15/2065	5.30	Fixed Income	1,080,000	1,060,816	0.086%
JNLIPMCO Investment Grade Credit Bond Fund	Charter Communications Operating, LLC	6/30/2062	3.95	Fixed Income	1,500,000	943,492	0.076%
JNLIPMCO Investment Grade Credit Bond Fund	CVS Health Corporation	6/1/2063	6.00	Fixed Income	2,000,000	2,083,781	0.167%
JNLIPMCO Investment Grade Credit Bond Fund	CaixaBank, S.A.	3/15/2030	5.67	Fixed Income	400,000	416,546	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	Host Hotels & Resorts, LP	12/15/2029	3.38	Fixed Income	3,600,000	3,692,100	0.272%
JNLIPMCO Investment Grade Credit Bond Fund	BlueMountain CLO 2018-3 Ltd	10/25/2030	6.51	Fixed Income	2,083,843	2,109,689	0.169%
JNLIPMCO Investment Grade Credit Bond Fund	CVS Health Corporation	2/28/2031	1.88	Fixed Income	3,900,000	3,290,029	0.246%
JNLIPMCO Investment Grade Credit Bond Fund	Goldentree Loan Management US CLO 4, Ltd.	4/24/2031	6.43	Fixed Income	2,222,541	2,251,058	0.181%
JNLIPMCO Investment Grade Credit Bond Fund	Public Service Company of Colorado	6/15/2031	1.88	Fixed Income	2,700,000	2,315,756	0.180%
JNLIPMCO Investment Grade Credit Bond Fund	Vale Overseas Ltd	6/12/2033	6.13	Fixed Income	3,100,000	3,340,330	0.249%
JNLIPMCO Investment Grade Credit Bond Fund	Essen Portfolio, L.P.	4/1/2034	5.50	Fixed Income	600,000	641,433	0.051%
JNLIPMCO Investment Grade Credit Bond Fund	Bayer US Finance LLC	11/21/2033	6.50	Fixed Income	800,000	885,196	0.071%
JNLIPMCO Investment Grade Credit Bond Fund	ONEOK, Inc.	7/13/2047	4.95	Fixed Income	2,600,000	2,363,042	0.190%
JNLIPMCO Investment Grade Credit Bond Fund	Dynex S4 Senior Loan Fund	10/19/2029	6.48	Fixed Income	530,170	557,971	0.043%
JNLIPMCO Investment Grade Credit Bond Fund	ING Groep N.V.	3/19/2035	5.55	Fixed Income	1,600,000	1,680,361	0.135%
JNLIPMCO Investment Grade Credit Bond Fund	Global Atlantic Financial Company	3/15/2054	6.75	Fixed Income	400,000	426,712	0.034%
JNLIPMCO Investment Grade Credit Bond Fund	Anchorage Capital CLO 6 Ltd	4/24/2034	6.72	Fixed Income	1,000,000	1,014,878	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	8/24/2034	4.00	Fixed Income	8,058,431	393,714	0.031%
JNLIPMCO Investment Grade Credit Bond Fund	Wynn Resorts Finance, LLC	2/15/2031	7.13	Fixed Income	2,000,000	218,311	0.018%
JNLIPMCO Investment Grade Credit Bond Fund	Magnetite XII, Ltd.	10/15/2031	6.45	Fixed Income	1,045,773	1,060,600	0.085%
JNLIPMCO Investment Grade Credit Bond Fund	Appalachian Power Company	4/1/2034	5.65	Fixed Income	1,000,000	1,081,884	0.087%
JNLIPMCO Investment Grade Credit Bond Fund	The Naranjito Electric Company	5/1/2034	5.35	Fixed Income	400,000	427,418	0.034%
JNLIPMCO Investment Grade Credit Bond Fund	Hilton Domestic Operating Company Inc.	4/1/2029	5.88	Fixed Income	500,000	527,984	0.042%
JNLIPMCO Investment Grade Credit Bond Fund	Station Casinos LLC	3/7/2031	7.50	Fixed Income	497,500	495,206	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	MGM Resorts International	4/15/2032	6.50	Fixed Income	3,000,000	3,147,433	0.253%
JNLIPMCO Investment Grade Credit Bond Fund	Public Service Enterprise Group Incorporated	4/1/2034	5.45	Fixed Income	800,000	854,262	0.077%
JNLIPMCO Investment Grade Credit Bond Fund	North American Company for Life and Health Insurance	4/15/2034	6.88	Fixed Income	1,500,000	1,653,653	0.133%
JNLIPMCO Investment Grade Credit Bond Fund	Smurfit Kappa Treasury Unlimited Company	1/15/2030	5.20	Fixed Income	1,500,000	1,566,117	0.126%
JNLIPMCO Investment Grade Credit Bond Fund	Algonquin Power & Utilities Corp.	6/15/2026	5.37	Fixed Income	1,100,000	1,130,995	0.091%
JNLIPMCO Investment Grade Credit Bond Fund	Colony Capital Partners	4/20/2033	6.56	Fixed Income	860,567	873,150	0.070%
JNLIPMCO Investment Grade Credit Bond Fund	Enbridge Inc.	4/5/2027	6.90	Fixed Income	100,000	104,844	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	Enbridge Inc.	4/5/2029	5.30	Fixed Income	100,000	106,079	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	Vistra Zero Operating Company, LLC	3/20/2031	8.00	Fixed Income	199,000	199,492	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Vistra Operations Company LLC	4/15/2034	6.00	Fixed Income	1,100,000	1,204,313	0.097%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	4/22/2030	6.38	Fixed Income	1,100,000	1,118,925	0.091%
JNLIPMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	4/22/2030	5.22	Fixed Income	2,600,000	2,793,141	0.224%
JNLIPMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc., The	1/1/2020	7.50	Fixed Income	1,000,000	1,095,177	0.088%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	4/15/2029	2.13	Fixed Income	11,670,000	12,201,229	0.979%
JNLIPMCO Investment Grade Credit Bond Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo	8/1/2027	6.90	Fixed Income	1,300,000	963,971	0.076%
JNLIPMCO Investment Grade Credit Bond Fund	Cassa Depositi E Prestiti Societa' Per Azioni	4/30/2029	5.88	Fixed Income	1,000,000	1,067,351	0.086%
JNLIPMCO Investment Grade Credit Bond Fund	Citigroup Inc.	4/30/2034	5.57	Fixed Income	700,000	763,472	0.061%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	4/30/2029	4.63	Fixed Income	20,700,000	21,615,329	1.759%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The	5/1/2034	6.53	Fixed Income	100,000	110,184	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The	5/1/2054	6.88	Fixed Income	1,800,000	2,026,084	0.163%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The	5/1/2027	6.26	Fixed Income	800,000	846,750	0.068%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The	5/1/2029	6.30	Fixed Income	900,000	970,475	0.078%
JNLIPMCO Investment Grade Credit Bond Fund	OTE Energy Company	6/1/2034	5.85	Fixed Income	900,000	987,498	0.079%
JNLIPMCO Investment Grade Credit Bond Fund	Delata Aircraft Designated Activity Co	10/14/2027	7.08	Fixed Income	120,000	120,559	0.010%
JNLIPMCO Investment Grade Credit Bond Fund	Sabine Pass Liquefaction, LLC	9/15/2037	5.90	Fixed Income	1,000,000	1,061,510	0.085%
JNLIPMCO Investment Grade Credit Bond Fund	Ares Capital Corporation	7/15/2029	5.95	Fixed Income	2,000,000	2,084,938	0.167%
JNLIPMCO Investment Grade Credit Bond Fund	Ayres Limited Partnership	4/15/2034	6.10	Fixed Income	100,000	106,294	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	Las Vegas Sands Corp.	8/15/2029	6.00	Fixed Income	4,325,000	4,589,610	0.368%
JNLIPMCO Investment Grade Credit Bond Fund	Colviti Corporation	2/21/2031	8.45	Fixed Income	1,293,500	1,300,406	0.104%
JNLIPMCO Investment Grade Credit Bond Fund	Las Vegas Sands Corp.	8/15/2034	6.20	Fixed Income	1,100,000	1,178,183	0.095%
JNLIPMCO Investment Grade Credit Bond Fund	Eni S.P.A.	5/15/2054	5.95	Fixed Income	700,000	735,043	0.058%
JNLIPMCO Investment Grade Credit Bond Fund	OneMain Finance Corporation	5/1/2031	7.50	Fixed Income	100,000	105,656	0.008%
JNLIPMCO Investment Grade Credit Bond Fund	Phillips Edison Grocery Center Operating Partnership I, L.P.	7/15/2034	5.75	Fixed Income	200,000	212,824	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Chemiere Energy Partners, L.P.	8/15/2034	5.75	Fixed Income	3,200,000	3,407,492	0.273%
JNLIPMCO Investment Grade Credit Bond Fund	Modena Buyer LLC	4/3/2031	9.83	Fixed Income	300,000	286,645	0.023%
JNLIPMCO Investment Grade Credit Bond Fund	Timinas CLO 2017 Ltd	1/25/2033	6.53	Fixed Income	1,000,000	1,014,851	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	Blackstone Secured Lending Fund	11/15/2027	5.88	Fixed Income	1,000,000	1,036,399	0.083%
JNLIPMCO Investment Grade Credit Bond Fund	Encore Capital Group, Inc.	5/15/2030	8.50	Fixed Income	300,000	325,344	0.026%
JNLIPMCO Investment Grade Credit Bond Fund	Black Hills Corporation	11/15/2035	6.00	Fixed Income	325,000	353,596	0.028%
JNLIPMCO Investment Grade Credit Bond Fund	Ford Motor Credit Company LLC	8/17/2027	5.85	Fixed Income	500,000	500,000	0.042%
JNLIPMCO Investment Grade Credit Bond Fund	Morgan Stanley Direct Lending Fund	5/17/2029	6.15	Fixed Income	700,000	724,427	0.058%
JNLIPMCO Investment Grade Credit Bond Fund	Intesa Sanpaolo SPA	6/20/2033	6.63	Fixed Income	300,000	333,767	0.027%
JNLIPMCO Investment Grade Credit Bond Fund	The AES Corporation	11/15/2055	7.60	Fixed Income	1,025,000	1,107,058	0.089%
JNLIPMCO Investment Grade Credit Bond Fund	Constellation Brands, Inc.	1/15/2029	4.10	Fixed Income	1,200,000	1,234,394	0.098%
JNLIPMCO Investment Grade Credit Bond Fund	Eversource Energy	7/15/2034	5.95	Fixed Income	1,200,000	1,304,670	0.105%
JNLIPMCO Investment Grade Credit Bond Fund	Treasury, United States Department of	5/15/2054	4.63	Fixed Income	5,700,000	6,182,719	0.496%
JNLIPMCO Investment Grade Credit Bond Fund	P&G Annuities & Life, Inc.	6/4/2029	6.50	Fixed Income	300,000	315,597	0.025%
JNLIPMCO Investment Grade Credit Bond Fund	Romania Government of	5/30/2032	5.25	Fixed Income	1,000,000	1,134,260	0.091%
JNLIPMCO Investment Grade Credit Bond Fund	Setanta Aircraft Leasing Designated Activity Co	11/6/2028	7.08	Fixed Income	1,000,000	1,004,657	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	CI Financial Corp.	5/30/2029	7.50	Fixed Income	1,200,000	1,282,997	0.103%
JNLIPMCO Investment Grade Credit Bond Fund	Thames Water Utilities Finance PLC	7/3/2034	4.38	Fixed Income	600,000	592,497	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Thames Water Utilities Finance PLC	4/30/2031	7.13	Fixed Income	900,000	962,059	0.077%
JNLIPMCO Investment Grade Credit Bond Fund	FS KKR Capital Corp.	8/15/2029	6.88	Fixed Income	800,000	848,735	0.068%
JNLIPMCO Investment Grade Credit Bond Fund	Carnival Corporation	8/9/2027	8.00	Fixed Income	267,170	267,646	0.021%
JNLIPMCO Investment Grade Credit Bond Fund	Becton, Dickinson and Company	6/7/2029	5.08	Fixed Income	200,000	209,823	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Citigroup Inc.	11/1/2035	6.53	Fixed Income	2,400,000	2,544,544	0.204%
JNLIPMCO Investment Grade Credit Bond Fund	Unum Group	6/15/2054	6.00	Fixed Income	200,000	211,959	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Nextera Energy Capital Holdings, Inc.	6/15/2054	6.75	Fixed Income	900,000	989,686	0.079%
JNLIPMCO Investment Grade Credit Bond Fund	Pinnacle West Capital Corporation	6/10/2026	5.94	Fixed Income	300,000	301,523	0.024%
JNLIPMCO Investment Grade Credit Bond Fund	Al Lease Corporation	6/25/2026	5.30	Fixed Income	1,500,000	1,545,842	0.124%
JNLIPMCO Investment Grade Credit Bond Fund	Brookfield Financial, Inc.	1/15/2035	4.68	Fixed Income	1,400,000	1,491,015	0.120%
JNLIPMCO Investment Grade Credit Bond Fund	ENL Finance International N.V.	6/26/2029	5.13	Fixed Income	2,200,000	2,281,641	0.183%
JNLIPMCO Investment Grade Credit Bond Fund	Aviation Capital Group LLC	7/15/2029	5.38	Fixed Income	400,000	413,821	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	Thames Water Utilities Finance PLC	1/18/2031	4.38	Fixed Income	1,000,000	837,056	0.067%
JNLIPMCO Investment Grade Credit Bond Fund	ARPEX CREDIT CLO 2018-1 LTD	6/15/2031	5.48	Fixed Income	946,833	960,128	0.078%
JNLIPMCO Investment Grade Credit Bond Fund	Verdette Static CLO 2024-1 Ltd	7/20/2032	6.42	Fixed Income	2,000,000	2,031,048	0.163%
JNLIPMCO Investment Grade Credit Bond Fund	HA Sustainable Infrastructure Capital, Inc.	7/1/2034	6.38	Fixed Income	1,000,000	1,038,288	0.083%
JNLIPMCO Investment Grade Credit Bond Fund	Edison International	6/15/2029	5.45	Fixed Income	1,500,000	1,577,718	0.127%
JNLIPMCO Investment Grade Credit Bond Fund	Choice Hotels International, Inc.	8/1/2034	4.85	Fixed Income	400,000	418,294	0.034%
JNLIPMCO Investment Grade Credit Bond Fund	Essent Group Ltd.	7/1/2029	6.25	Fixed Income	500,000	526,269	0.042%
JNLIPMCO Investment Grade Credit Bond Fund	Anchorage Capital CLO 2018-10, Ltd.	10/15/2031	6.40	Fixed Income	800,000	811,378	0.065%
JNLIPMCO Investment Grade Credit Bond Fund	Mizuho Financial Group, Inc.	7/10/2035	5.59	Fixed Income	1,100,000	1,175,750	0.094%
JNLIPMCO Investment Grade Credit Bond Fund	Nomura Holdings, Inc.	7/9/2034	5.78	Fixed Income	200,000	213,127	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Sumitomo Mitsui Financial Group, Inc.	7/9/2031	5.42	Fixed Income	2,900,000	3,077,103	0.247%
JNLIPMCO Investment Grade Credit Bond Fund	Sumitomo Mitsui Financial Group, Inc.	7/9/2034	5.56	Fixed Income	1,000,000	1,073,391	0.086%
JNLIPMCO Investment Grade Credit Bond Fund	IPALCO Enterprises, Inc.	4/1/2034	5.75	Fixed Income	200,000	215,783	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	SW Finance I PLC	4/16/2040	7.10	Fixed Income	1,000,000	1,095,658	0.090%
JNLIPMCO Investment Grade Credit Bond Fund	Saudi Arabian Oil Company	7/17/2054	5.75	Fixed Income	400,000	410,050	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	Electricite de France	4/22/2064	6.00	Fixed Income	995,000	1,031,702	0.083%
JNLIPMCO Investment Grade Credit Bond Fund	SPP - distribucia, a.s.	6/9/2031	1.00	Fixed Income	300,000	269,795	0.022%
JNLIPMCO Investment Grade Credit Bond Fund	EP Infrastructure, a.s.	3/2/2031	1.82	Fixed Income	300,000	280,137	0.023%
JNLIPMCO Investment Grade Credit Bond Fund	Yorkshire Water Finance PLC	10/27/2032	1.75	Fixed Income	700,000	701,671	0.056%
JNLIPMCO Investment Grade Credit Bond Fund	Anglian Water Services Financing PLC	6/20/2039	6.00	Fixed Income	100,000	136,138	0.011%
JNLIPMCO Investment Grade Credit Bond Fund	Newmark Group, Inc.	11/2/2029	7.50	Fixed Income	700,000	767,815	0.062%
JNLIPMCO Investment Grade Credit Bond Fund	TSAT 2022-1 Ltd	7/20/2037	6.44	Fixed Income	1,000,000	1,013,145	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	JPMorgan Chase & Co.	7/22/2035	5.29	Fixed Income	100,000	109,444	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	GreenSaf Pipelines Bidco S.a.r.l.	2/23/2036	5.85	Fixed Income	1,500,000	1,564,692	0.126%
JNLIPMCO Investment Grade Credit Bond Fund	Prologis, L.P.	1/31/2035	5.00	Fixed Income	1,600,000	1,654,172	0.133%
JNLIPMCO Investment Grade Credit Bond Fund	Avolon 1LB Borrower 1 (US) LLC	6/22/2028	6.96	Fixed Income	963,963	966,987	0.078%
JNLIPMCO Investment Grade Credit Bond Fund	United Airlines Pass Through Certificates, Series 2016-2	2/15/2037	5.45	Fixed Income	800,000	859,868	0.069%
JNLIPMCO Investment Grade Credit Bond Fund	Wells Fargo & Company	1/1/2200	6.85	Fixed Income	1,000,000	1,047,011	0.084%
JNLIPMCO Investment Grade Credit Bond Fund	UnitedHealth Group Incorporated	7/15/2054	5.63	Fixed Income	1,000,000	1,083,614	0.087%
JNLIPMCO Investment Grade Credit Bond Fund	UnitedHealth Group Incorporated	7/15/2054	5.75	Fixed Income	1,400,000	1,526,858	0.123%
JNLIPMCO Investment Grade Credit Bond Fund	UnitedHealth Group Incorporated	9/15/2034	5.15	Fixed Income	500,000	526,789	0.042%
JNLIPMCO Investment Grade Credit Bond Fund	Citigroup Inc.	1/1/2200	7.00	Fixed Income	1,000,000	1,083,062	0.087%
JNLIPMCO Investment Grade Credit Bond Fund	UnitedHealth Group Incorporated	7/15/2044	5.50	Fixed Income	500,000	534,790	0.043%
JNLIPMCO Investment Grade Credit Bond Fund	Whisper Pipeline LLC	9/30/2031	5.70	Fixed Income	600,000	624,691	0.050%
JNLIPMCO Investment Grade Credit Bond Fund	Apolla Debt Solutions BDC	7/29/2031	6.70	Fixed Income	600,000	624,427	0.050%
JNLIPMCO Investment Grade Credit Bond Fund	EPH Financing International, a.s.	11/30/2029	5.88	Fixed Income	700,000	827,448	0.066%
JNLIPMCO Investment Grade Credit Bond Fund	Ocean Trails CLO 8	7/15/2034	6.44	Fixed Income	1,000,000	1,010,167	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	National Grid Electricity Transmission PLC	4/17/2040	2.00	Fixed Income	1,400,000	1,192,892	0.096%
JNLIPMCO Investment Grade Credit Bond Fund	Kindler Morgan, Inc.	8/1/2054	5.95	Fixed Income	1,000,000	1,047,201	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Investment Grade Credit Bond Fund	BNP Paribas	1/1/2200	7.38	Fixed Income	800,000	838,426	0.067%
JNLIPMCO Investment Grade Credit Bond Fund	Sempira	10/1/2054	6.25	Fixed Income	2,000,000	2,015,267	0.162%
JNLIPMCO Investment Grade Credit Bond Fund	Credit Agricole SA	9/11/2028	4.63	Fixed Income	500,000	503,838	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	ADNOC Murban RSC Ltd.	9/11/2029	4.25	Fixed Income	1,500,000	1,496,357	0.120%
JNLIPMCO Investment Grade Credit Bond Fund	Stryker Corporation	9/11/2029	4.25	Fixed Income	900,000	904,363	0.073%
JNLIPMCO Investment Grade Credit Bond Fund	The Southern Company	3/15/2035	4.85	Fixed Income	700,000	708,037	0.057%
JNLIPMCO Investment Grade Credit Bond Fund	Santander UK Group Holdings PLC	9/11/2030	4.86	Fixed Income	200,000	202,031	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Interstate Power and Light Company	9/30/2034	4.50	Fixed Income	700,000	712,510	0.057%
JNLIPMCO Investment Grade Credit Bond Fund	Deutsche Bank Aktiengesellschaft	9/11/2035	5.40	Fixed Income	500,000	505,416	0.041%
JNLIPMCO Investment Grade Credit Bond Fund	Golub Capital Private Credit Fund	9/12/2029	5.80	Fixed Income	500,000	499,735	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	Woodside Finance Limited	9/12/2034	5.10	Fixed Income	500,000	497,379	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	UBS Group AG	1/1/2200	6.85	Fixed Income	600,000	611,384	0.049%
JNLIPMCO Investment Grade Credit Bond Fund	Newmont Corporation	11/15/2041	5.75	Fixed Income	100,000	108,575	0.009%
JNLIPMCO Investment Grade Credit Bond Fund	PG&E Corporation	3/15/2055	7.38	Fixed Income	700,000	737,895	0.059%
JNLIPMCO Investment Grade Credit Bond Fund	Saith Street Lending Partners	1/15/2030	5.75	Fixed Income	700,000	698,753	0.056%
JNLIPMCO Investment Grade Credit Bond Fund	Stryker Corporation	9/11/2034	4.63	Fixed Income	500,000	503,535	0.040%
JNLIPMCO Investment Grade Credit Bond Fund	ERP Operating Limited Partnership	9/15/2034	4.65	Fixed Income	600,000	597,833	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	ONEOK, Inc.	10/15/2031	4.75	Fixed Income	4,700,000	4,720,167	0.379%
JNLIPMCO Investment Grade Credit Bond Fund	Wynn Resorts Finance, LLC	3/15/2033	6.25	Fixed Income	600,000	609,241	0.049%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc.	11/1/2053	6.00	Fixed Income	400,001	410,797	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	Royal Caribbean Cruises Ltd.	9/30/2031	5.63	Fixed Income	400,000	405,479	0.033%
JNLIPMCO Investment Grade Credit Bond Fund	Labcorp Holdings Inc.	10/1/2034	4.80	Fixed Income	600,000	593,856	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Goldman Sachs Group, Inc. The	1/1/2200	6.13	Fixed Income	1,000,000	1,006,346	0.081%
JNLIPMCO Investment Grade Credit Bond Fund	New Mountain Finance Corporation	10/15/2027	6.20	Fixed Income	1,000,000	1,097,709	0.088%
JNLIPMCO Investment Grade Credit Bond Fund	T-Mobile USA, Inc.	1/15/2035	4.70	Fixed Income	2,300,000	2,294,081	0.184%
JNLIPMCO Investment Grade Credit Bond Fund	First American Financial Corporation	9/30/2034	5.45	Fixed Income	400,000	398,022	0.032%
JNLIPMCO Investment Grade Credit Bond Fund	Parlux Financial Holdings Limited	3/22/2054	6.25	Fixed Income	200,000	214,388	0.017%
JNLIPMCO Investment Grade Credit Bond Fund	Oracle Corporation	9/27/2029	4.20	Fixed Income	2,100,000	2,093,372	0.168%
JNLIPMCO Investment Grade Credit Bond Fund	Ares Strategic Income Fund	2/15/2030	5.60	Fixed Income	600,000	593,727	0.048%
JNLIPMCO Investment Grade Credit Bond Fund	Banco Santander, S.A.	10/18/2031	4.88	Fixed Income	2,700,000	3,395,875	0.273%
JNLIPMCO Investment Grade Credit Bond Fund	Parlux Financial Holdings Limited	12/7/2033	6.00	Fixed Income	100,000	107,320	0.009%
Total Non Derivatives						1,245,912,987	
Derivatives							
JNLIPMCO Investment Grade Credit Bond Fund	Bought AUD / Sold USD			Derivative		10.745	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought BRL / Sold USD			Derivative		42.278	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Bought CAD / Sold USD			Derivative		1.788	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought CAD / Sold USD			Derivative		(28.434)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought CNY / Sold USD			Derivative		8.297	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought CNY / Sold USD			Derivative		3.981	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought CNY / Sold USD			Derivative		6.531	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought CNY / Sold USD			Derivative		4.029	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		(239)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		(360)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		(12)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		(39)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		(63)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		(25)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought DKK / Sold USD			Derivative		6.000	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought EUR / Sold USD			Derivative		(93.111)	-0.007%
JNLIPMCO Investment Grade Credit Bond Fund	Bought GBP / Sold USD			Derivative		55.769	0.004%
JNLIPMCO Investment Grade Credit Bond Fund	Bought GBP / Sold USD			Derivative		(17.405)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought GYR / Sold USD			Derivative		700	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		436	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		448	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		893	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		848	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		863	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		908	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		797	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		901	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought INR / Sold USD			Derivative		500	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		6.491	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		1.078	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		1.293	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		6.10	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		529	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		23.976	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		4.577	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		9.538	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		7.569	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		23.579	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		22.777	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		6.280	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		543	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		26.898	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		13.216	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		2.473	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		915	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		1.938	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		644	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		7.126	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought TRY / Sold USD			Derivative		(205)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CNY			Derivative		(67.875)	-0.005%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CNY			Derivative		(8.197)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CNY			Derivative		(3.914)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CNY			Derivative		(6.420)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CNY			Derivative		(3.950)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold AUD			Derivative		(38.198)	-0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		739	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold EUR			Derivative		25.854	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold GBP			Derivative		(169.191)	-0.014%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CAD			Derivative		82.128	0.007%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		(1.101)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		(8.87)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold PEN			Derivative		(6.634)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold MXN			Derivative		(5.179)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold MXN			Derivative		(3.991)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold MXN			Derivative		(5.568)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold MXN			Derivative		27	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		350	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		60	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold CAD			Derivative		28.378	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold EUR			Derivative		5.160	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		36	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold EUR			Derivative		90.046	0.007%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		56	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold GBP			Derivative		17.239	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold AUD			Derivative		(10.826)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		24	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Bought USD / Sold DKK			Derivative		3	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc. OPTION			Derivative	-600,000	(11.791)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Federal National Mortgage Association, Inc. OPTION			Derivative	-600,000	0	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	10,800,000	20.075	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,200,000	(8.858)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-500,000	25.854	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-500,000	(1)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,000,000	0	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,000,000	(8.016)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(85)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(5)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-700,000	(925)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-700,000	(84)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,536)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(40)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,974)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(201)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-400,000	(28.434)	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-400,000	(101)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-400,000	(1,428)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-400,000	(107)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(3,221)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(173)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-500,000	(1,105)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-500,000	(465)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,336)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(12)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,645)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(744)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-500,000	(1,865)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-500,000	(60)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,427)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(1,932)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,495)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-800,000	(2,495)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,500,000	(5,652)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-1,500,000	(3,752)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	416	80.881	0.006%
JNLIPMCO Investment Grade Credit Bond Fund	Euro BOBL Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-5	(1.061)	0.000%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Investment Grade Credit Bond Fund	Euro BOBL Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-5	724	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Euro BOBL FUTURE - PHYSICALLY DELIVERED			Derivative	10	14,243	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Euro Bund Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-5	628	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Euro Bund Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-5	1,547	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Euro Bund FUTURE - PHYSICALLY DELIVERED			Derivative	4	(8,938)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	146,700,000	29,149	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	132,700,000	34,628	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,200,000	(54,762)	-0.004%
JNLIPMCO Investment Grade Credit Bond Fund	6M Australian Bank Bill Short Term Rate EXCHANGE CLEARED IRS			Derivative	5,900,000	196,249	0.016%
JNLIPMCO Investment Grade Credit Bond Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	225,800,000	65,862	0.005%
JNLIPMCO Investment Grade Credit Bond Fund	6M Australian Bank Bill Short Term Rate EXCHANGE CLEARED IRS			Derivative	7,800,000	231,116	0.019%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	15,000,000	(757,451)	-0.061%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,200,000	(41,796)	-0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	1,000,000	1,912	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	28,600,000	37,719	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	6M Australian Bank Bill Short Term Rate EXCHANGE CLEARED IRS			Derivative	7,400,000	142,560	0.011%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	100,000	(6,925)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	36,700,000	(144,417)	-0.012%
JNLIPMCO Investment Grade Credit Bond Fund	BRABZOR EXCHANGE CLEARED IRS			Derivative	60,600,000	(17,846)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	900,000	(40,480)	-0.003%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(32,292)	-0.003%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(22,222)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(30,286)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(24,527)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(17,130)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	15,700,000	144,349	0.012%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(21,426)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(14,647)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(16,401)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	12,849,000	(75,964)	-0.006%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(20,109)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	6,100,000	(38,563)	-0.003%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,300,000	(26,340)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(16,884)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(19,179)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	300,000	(17,311)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	900,000	(22,487)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	(22,148)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	700,000	(9,162)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,400,000	(23,567)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,500,000	(26,607)	-0.002%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	900,000	(7,219)	-0.001%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	8,300,000	40,497	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	450,000	2,436	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	400,000	2,564	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	900,000	2,908	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	5,734	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	800,000	4,581	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	1,800,000	15,150	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	6M EURBOR EXCHANGE CLEARED IRS			Derivative	1,000,000	(4,184)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	MCDX.NA.24 CREDIT DEFAULT SWAP INDEX			Derivative	-150,000	698	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-100,000	698	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Rolls-Royce Group PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-2,500,000	46,160	0.004%
JNLIPMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-500,000	1,091	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-5,500,000	5,855	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Presidencia da Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-400,000	1,129	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Ford Motor Company EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,500,000	3,863	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Alibaba Group Holding Limited CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-300,000	569	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Presidencia da Republica CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-500,000	941	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Alibaba Group Holding Limited CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-200,000	379	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	PT Pertamina (Persero) CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-400,000	811	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Rolls-Royce Group PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-800,000	14,771	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	British Telecommunications Public Limited Company EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-700,000	2,072	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	MetLife, Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-500,000	316	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Prudential Financial, Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-800,000	447	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Tesco PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-800,000	1,494	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	South Africa, Parliament of CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-800,000	1,713	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	South Africa, Parliament of CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,000,000	2,142	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-350,000	2,344	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Mundys S.p.A. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,400,000	27,901	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Tesco PLC EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,700,000	44,731	0.004%
JNLIPMCO Investment Grade Credit Bond Fund	General Electric Company EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,000,000	12,291	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-2,100,000	12,725	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Verizon Communications Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,400,000	5,928	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	General Motors Company EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-320,000	7,223	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	American International Group, Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,000,000	6,816	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-800,000	6,901	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	Hess Corporation EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,800,000	43,100	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,200,000	22,396	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	Boeing Company, The EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-500,000	3,636	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	Banco do Brasil SA CREDIT DEFAULT SWAP SINGLE NAME			Derivative	-1,000,000	1,171	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	CDX.NA.IG.40 EXCHANGE CLEARED CDS - INDEX			Derivative	-400,000	5,659	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	MetLife, Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-800,000	25,362	0.002%
JNLIPMCO Investment Grade Credit Bond Fund	General Motors Company EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-1,500,000	63,821	0.005%
JNLIPMCO Investment Grade Credit Bond Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-500,000	11,114	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	CDX.NA.IG.41 EXCHANGE CLEARED CDS - INDEX			Derivative	-1,200,000	15,983	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	The AES Corporation EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-300,000	18,597	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	EADS Finance EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-300,000	6,492	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	CDX.NA.IG.42 EXCHANGE CLEARED CDS - INDEX			Derivative	-12,300,000	36,518	0.003%
JNLIPMCO Investment Grade Credit Bond Fund	Glencore Finance (Europe) Limited EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-600,000	10,522	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	EADS Finance EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-900,000	7,108	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	CDX.NA.IG.43 EXCHANGE CLEARED CDS - INDEX			Derivative	-9,800,000	(327)	0.000%
JNLIPMCO Investment Grade Credit Bond Fund	AT&T Inc. EXCHANGE CLEARED CDS - SINGLE NAME			Derivative	-2,600,000	13,841	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	146	8,350	0.001%
JNLIPMCO Investment Grade Credit Bond Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-87	319,497	0.010%
JNLIPMCO Investment Grade Credit Bond Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	96	(43,180)	-0.003%
JNLIPMCO Investment Grade Credit Bond Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	225	(125,161)	-0.010%
Total Derivatives						119,169	
Total All Investments						1,246,023,136	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLIPMCO Real Return Fund	Cash			Cash Equivalent	6,531,301	6,531,301	0.409%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust 2007-AMC4	5/25/2037	5.24	Fixed Income	1,200,000	1,086,351	0.068%
JNLIPMCO Real Return Fund	Treasury, United States Department of	10/15/2025	0.13	Fixed Income	4,500,000	5,351,684	0.333%
JNLIPMCO Real Return Fund	Bank of America Corporation	1/1/2200	5.88	Fixed Income	1,160,000	1,177,512	0.073%
JNLIPMCO Real Return Fund	Mountain View CLO 2017-1 Ltd.	10/16/2029	6.64	Fixed Income	166,235	167,592	0.010%
JNLIPMCO Real Return Fund	Community Health Systems, Inc.	3/15/2023	5.63	Fixed Income	200,000	197,204	0.012%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/15/2054	4.00	Fixed Income	8,000,000	7,685,000	0.478%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2031	0.13	Fixed Income	16,850,000	18,720,556	1.163%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2051	0.13	Fixed Income	11,070,000	8,440,363	0.525%
JNLIPMCO Real Return Fund	Octagon Investment Partners XVI, Ltd.	2/15/2031	6.38	Fixed Income	583,048	598,531	0.374%
JNLIPMCO Real Return Fund	Armada Euro Cio II Designated Activity Company	7/15/2031	4.40	Fixed Income	2,034,992	2,286,881	0.142%
JNLIPMCO Real Return Fund	Adagio V CLO Designated Activity Company	10/15/2031	4.40	Fixed Income	958,118	1,073,370	0.067%
JNLIPMCO Real Return Fund	LCM XV LP	7/22/2030	6.54	Fixed Income	445,187	451,428	0.028%
JNLIPMCO Real Return Fund	K4R CLO 9 Ltd.	11/15/2030	6.51	Fixed Income	186,618	199,175	0.012%
JNLIPMCO Real Return Fund	MidOcean Credit CLO VIII	2/20/2031	6.44	Fixed Income	494,451	494,571	0.031%
JNLIPMCO Real Return Fund	Harvest CLO XXI Designated Activity Company	7/15/2031	4.44	Fixed Income	577,382	646,551	0.040%
JNLIPMCO Real Return Fund	Oak Hill European Credit Partners VII Designated Activity Company	10/20/2031	4.43	Fixed Income	1,405,067	1,571,206	0.098%
JNLIPMCO Real Return Fund	CBAM 2019-10, Ltd.	4/20/2032	6.66	Fixed Income	751,151	762,315	0.047%
JNLIPMCO Real Return Fund	Government National Mortgage Association	10/15/2054	3.50	Fixed Income	51,000,000	47,939,097	2.979%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2026	0.13	Fixed Income	17,400,000	20,291,220	1.261%
JNLIPMCO Real Return Fund	CIFC Funding Ltd 2015-1	4/18/2031	6.54	Fixed Income	1,225,160	1,242,907	0.077%
JNLIPMCO Real Return Fund	LoanCore 2021-CRE5 Issuer Ltd.	7/15/2036	6.51	Fixed Income	1,521,075	1,520,554	0.094%
JNLIPMCO Real Return Fund	Apidos CLO XXVII	7/17/2030	6.48	Fixed Income	435,338	441,328	0.027%
JNLIPMCO Real Return Fund	AMMC CLO XII, Limited	11/11/2030	6.31	Fixed Income	178,931	178,559	0.011%
JNLIPMCO Real Return Fund	Dryden S2 Euro Cio 2017 B.V. In Liquidate	5/15/2034	4.40	Fixed Income	357,739	399,673	0.025%
JNLIPMCO Real Return Fund	Romark CLO Ltd.	10/23/2030	6.57	Fixed Income	389,652	390,952	0.024%
JNLIPMCO Real Return Fund	MP CLO VII, Ltd.	10/18/2028	6.43	Fixed Income	163,022	165,255	0.010%
JNLIPMCO Real Return Fund	Saxon Asset Securities Trust 2004-3	11/25/2037	5.45	Fixed Income	2,000,000	1,596,460	0.099%
JNLIPMCO Real Return Fund	Palmer Square Loan Funding 2020-3, Ltd.	7/20/2029	6.34	Fixed Income	497,537	504,384	0.031%
JNLIPMCO Real Return Fund	Carlyle Global Market Strategies CLO 2013-1, Ltd	8/14/2030	6.53	Fixed Income	259,948	262,271	0.016%
JNLIPMCO Real Return Fund	122 Funding CLO 2015-3(6), Ltd.	10/20/2039	6.58	Fixed Income	425,645	432,765	0.027%
JNLIPMCO Real Return Fund	Apidos CLO XXVII	7/18/2029	6.44	Fixed Income	256,012	259,491	0.016%
JNLIPMCO Real Return Fund	Carlyle US CLO 2017-1, Ltd.	4/21/2031	6.54	Fixed Income	666,467	675,381	0.042%
JNLIPMCO Real Return Fund	Cresline Denali CLO XV, Ltd.	4/22/2030	6.57	Fixed Income	776,719	787,461	0.049%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2023	0.13	Fixed Income	44,150,000	44,233,884	2.747%
JNLIPMCO Real Return Fund	Avdon Holdings Funding Limited	11/18/2027	2.53	Fixed Income	89,000	83,691	0.005%
JNLIPMCO Real Return Fund	Voya CLO 2012-4, Ltd.	10/15/2030	6.56	Fixed Income	221,787	225,069	0.014%
JNLIPMCO Real Return Fund	Venture XXVIII CLO, Limited	7/22/2030	6.53	Fixed Income	752,462	762,458	0.047%
JNLIPMCO Real Return Fund	Saranac CLO VI Limited	8/13/2031	6.77	Fixed Income	714,127	717,384	0.045%
JNLIPMCO Real Return Fund	Cresline Denali CLO XIV Ltd	10/23/2031	6.68	Fixed Income	487,074	493,449	0.031%
JNLIPMCO Real Return Fund	Sound Point CLO IX Ltd	7/20/2032	6.75	Fixed Income	1,200,000	1,217,001	0.076%
JNLIPMCO Real Return Fund	Wind River 2013-3 CLO Ltd.	7/15/2031	6.64	Fixed Income	1,397,228	1,418,679	0.088%
JNLIPMCO Real Return Fund	OZLM XXVI Ltd.	7/20/2032	6.70	Fixed Income	680,000	698,026	0.038%
JNLIPMCO Real Return Fund	Vibrant CLO XI Ltd	7/20/2032	6.66	Fixed Income	1,500,000	1,520,977	0.095%
JNLIPMCO Real Return Fund	Palmer Square Loan Funding Ltd	10/15/2029	6.36	Fixed Income	847,909	860,052	0.053%
JNLIPMCO Real Return Fund	Black Diamond CLO 2019-1 Designated Activity Company	5/15/2032	4.52	Fixed Income	341,217	381,878	0.024%
JNLIPMCO Real Return Fund	Treasury, United States Department of	10/15/2026	0.13	Fixed Income	22,800,000	25,833,266	1.592%
JNLIPMCO Real Return Fund	Venture 38 CLO 2023-Ltd	7/30/2032	6.68	Fixed Income	1,500,000	1,518,715	0.094%
JNLIPMCO Real Return Fund	OSD CLO 2021-23 Ltd/LLC	4/17/2031	6.42	Fixed Income	809,263	820,765	0.051%
JNLIPMCO Real Return Fund	Toro European CLO 7 Designated Activity Company	2/15/2034	4.35	Fixed Income	1,800,000	2,007,766	0.125%
JNLIPMCO Real Return Fund	Layne CLO 5 Ltd.	7/26/2032	6.66	Fixed Income	500,000	509,050	0.031%
JNLIPMCO Real Return Fund	Gallatin CLO VII 2017-1 Ltd.	7/15/2031	6.55	Fixed Income	822,292	834,748	0.052%
JNLIPMCO Real Return Fund	OZLM VIII, Ltd.	10/17/2029	6.53	Fixed Income	242,482	245,839	0.015%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2032	0.13	Fixed Income	29,300,000	30,060,451	1.868%
JNLIPMCO Real Return Fund	After Realty Collateralized Loan Obligation Ltd	8/15/2037	6.53	Fixed Income	1,189,042	1,189,661	0.074%
JNLIPMCO Real Return Fund	TRTX 2022-FLS Issuer, Ltd.	2/17/2039	6.73	Fixed Income	294,706	293,595	0.018%
JNLIPMCO Real Return Fund	LoanCore 2021-CRE7 Issuer Ltd.	1/21/2037	6.89	Fixed Income	1,486,704	1,486,996	0.092%
JNLIPMCO Real Return Fund	Symphony Static CLO I Ltd	10/25/2029	6.38	Fixed Income	227,028	229,829	0.014%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2052	0.13	Fixed Income	10,800,000	7,244,102	0.450%
JNLIPMCO Real Return Fund	Residential Asset Securitization Trust 2006-A10	1/15/2030	6.77	Fixed Income	189,368	189,368	0.012%
JNLIPMCO Real Return Fund	Alternative Loan Trust 2007-1T1	3/25/2037	6.00	Fixed Income	2,197,480	824,446	0.051%
JNLIPMCO Real Return Fund	VMC Finance 2022-FLS LLC	2/18/2039	7.25	Fixed Income	470,324	470,526	0.029%
JNLIPMCO Real Return Fund	Gouvernement De France	7/25/2031	0.10	Fixed Income	2,000,000	2,562,992	0.159%
JNLIPMCO Real Return Fund	Voya CLO 2013-1, Ltd.	10/15/2030	6.59	Fixed Income	398,681	393,755	0.024%
JNLIPMCO Real Return Fund	Morgan Stanley ABS Capital I Inc. Trust 2006-HE8	10/25/2036	5.19	Fixed Income	1,184,210	490,366	0.030%
JNLIPMCO Real Return Fund	Palmer Square European Loan Funding 2022-2 Designated Activity Company	10/15/2031	4.74	Fixed Income	609,716	685,832	0.043%
JNLIPMCO Real Return Fund	CVC Cordatus Euro Cio II Designated Activity Company	8/15/2032	4.32	Fixed Income	453,622	507,070	0.032%
JNLIPMCO Real Return Fund	BDS 2022-FL11 LLC	4/21/2034	6.76	Fixed Income	1,517,571	1,517,571	0.094%
JNLIPMCO Real Return Fund	Octagon Investment Partners 18-R Ltd.	4/16/2031	6.51	Fixed Income	945,644	959,768	0.060%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2027	0.13	Fixed Income	9,700,000	10,405,318	0.647%
JNLIPMCO Real Return Fund	Ares European CLO VI Designated Activity Company	4/15/2030	4.30	Fixed Income	265,726	298,243	0.019%
JNLIPMCO Real Return Fund	Carlyle Euro CLO 2017-2 Designated Activity Company	10/15/2030	6.60	Fixed Income	810,940	833,946	0.052%
JNLIPMCO Real Return Fund	Cedar Funding V CLO, Ltd.	7/17/2031	6.65	Fixed Income	557,821	565,718	0.035%
JNLIPMCO Real Return Fund	Carlyle Global Market Strategies Euro CLO 2014-2 Designated Activity Company	11/15/2031	4.29	Fixed Income	1,107,158	1,235,440	0.077%
JNLIPMCO Real Return Fund	Voya CLO 2019-1 Limited	4/15/2031	6.62	Fixed Income	330,410	335,151	0.021%
JNLIPMCO Real Return Fund	MFI 2022-FL9 LLC	5/22/2037	7.13	Fixed Income	1,492,298	1,492,298	0.093%
JNLIPMCO Real Return Fund	Contego CLO IV Designated Activity Company	1/23/2030	4.34	Fixed Income	497,672	555,409	0.035%
JNLIPMCO Real Return Fund	Dryden 64 CLO, Ltd.	4/18/2031	6.51	Fixed Income	510,279	517,265	0.032%
JNLIPMCO Real Return Fund	Gouvernement De France	7/25/2038	0.10	Fixed Income	100,000	114,987	0.007%
JNLIPMCO Real Return Fund	M360 2021-CRE3 Ltd.	11/15/2038	6.53	Fixed Income	279,078	228,574	0.014%
JNLIPMCO Real Return Fund	Bainbridge CLO Ltd 2016-II	1/20/2039	6.61	Fixed Income	689,366	688,448	0.043%
JNLIPMCO Real Return Fund	BlueMountain CLO XXI Ltd	7/15/2031	6.64	Fixed Income	821,905	834,302	0.052%
JNLIPMCO Real Return Fund	CIFC Funding 2018-III Ltd	7/18/2031	6.64	Fixed Income	583,834	592,874	0.037%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2032	0.63	Fixed Income	149,700,000	151,847,028	9.437%
JNLIPMCO Real Return Fund	BlueMountain EUR CLO 2016-1 DAC	10/15/2030	4.48	Fixed Income	386,698	407,668	0.026%
JNLIPMCO Real Return Fund	Toro European CLO 5 Designated Activity Company	10/15/2030	4.65	Fixed Income	590,312	663,678	0.041%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/15/2054	4.50	Fixed Income	8,618,500	8,473,063	0.527%
JNLIPMCO Real Return Fund	Blackrock European CLO IV Designated Activity Company	7/15/2030	4.53	Fixed Income	574,566	645,556	0.040%
JNLIPMCO Real Return Fund	CIFC European Funding CLO II Designated Activity Company	10/15/2030	4.74	Fixed Income	4,000,000	4,185,137	0.258%
JNLIPMCO Real Return Fund	Toro European CLO 5 Designated Activity Company	10/15/2030	4.68	Fixed Income	277,794	312,343	0.019%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.50	Fixed Income	606,936	599,106	0.037%
JNLIPMCO Real Return Fund	Fidelity Grand Harbour CLO 2019-1 Designated Activity Company	3/15/2032	4.68	Fixed Income	699,801	780,729	0.049%
JNLIPMCO Real Return Fund	Dryden 44 Euro CLO 2015 B.V.	4/17/2034	4.82	Fixed Income	500,000	559,050	0.034%
JNLIPMCO Real Return Fund	Tralene CLO VII Ltd	4/25/2034	6.87	Fixed Income	1,400,000	1,418,673	0.088%
JNLIPMCO Real Return Fund	Bastille Euro CLO 2020-3 Designated Activity Company	1/15/2034	4.84	Fixed Income	500,000	562,475	0.035%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/15/2054	5.40	Fixed Income	17,100,000	17,302,396	1.075%
JNLIPMCO Real Return Fund	Government National Mortgage Association	10/20/2072	6.25	Fixed Income	2,262,890	2,264,639	0.141%
JNLIPMCO Real Return Fund	Treasury, United States Department of	10/15/2027	1.63	Fixed Income	20,500,000	22,073,487	1.372%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2028	0.75	Fixed Income	38,520,000	47,288,742	2.939%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2042	1.90	Fixed Income	22,150,000	24,525,308	1.524%
JNLIPMCO Real Return Fund	Wabtu Mortgage Pass-Through Certificates Series 2007-04H Trust	5/25/2047	5.98	Fixed Income	145,688	125,186	0.008%
JNLIPMCO Real Return Fund	Lloyds Banking Group PLC	1/1/2200	4.95	Fixed Income	600,000	666,661	0.041%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2047	0.88	Fixed Income	16,142,000	16,902,768	1.050%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2048	1.00	Fixed Income	7,200,000	7,553,879	0.469%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	12/15/2054	4.50	Fixed Income	47,381,500	46,574,531	2.846%
JNLIPMCO Real Return Fund	Cabinet Office, Government of Japan	3/10/2039	0.10	Fixed Income	1,501,000,000	11,845,137	0.736%
JNLIPMCO Real Return Fund	RASC Series 2006-EMX1 Trust	6/25/2036	5.43	Fixed Income	2,023,805	1,961,198	0.122%
JNLIPMCO Real Return Fund	SLM Student Loan Trust 2004-1	10/25/2064	6.17	Fixed Income	1,292,529	1,288,342	0.080%
JNLIPMCO Real Return Fund	CIT Mortgage Loan Trust 2007-AR4	10/26/2037	6.47	Fixed Income	1,600,477	1,596,459	0.099%
JNLIPMCO Real Return Fund	Government National Mortgage Association	4/20/2067	6.52	Fixed Income	1,096,164	1,119,119	0.070%
JNLIPMCO Real Return Fund	Credit-Based Asset Servicing and Securitization LLC	7/25/2037	5.19	Fixed Income	2,000,140	1,325,909	0.082%
JNLIPMCO Real Return Fund	ACE Securities Corp. Home Equity Loan Trust, Series 2007-ASAP1	3/25/2037	5.37	Fixed Income	329,825	129,089	0.008%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust 2007-AR4	3/25/2037	4.71	Fixed Income	813,266	696,919	0.043%
JNLIPMCO Real Return Fund	Long Beach Mortgage Loan Trust 2006-7	8/25/2046	5.21	Fixed Income	378,905	150,505	0.009%
JNLIPMCO Real Return Fund	Soundview Home Loan Trust 2007-OPT1	6/25/2037	5.17	Fixed Income	1,340,482	933,065	0.058%
JNLIPMCO Real Return Fund	Securitized Asset Backed Receivables LLC Trust 2006-HE2	7/25/2036	5.27	Fixed Income	358,263	139,179	0.009%
JNLIPMCO Real Return Fund	CWABS Asset-Backed Certificates Trust 2007-8	2/25/2036	5.16	Fixed Income	3,254,993	3,069,927	0.191%
JNLIPMCO Real Return Fund	Greenpoint M.F.T.S 2006-ARA	9/25/2046	5.33	Fixed Income	216,700	200,113	0.012%
JNLIPMCO Real Return Fund	Saxon Asset Securities Trust 2007-3	9/25/2047	5.28	Fixed Income	296,566	281,261	0.017%
JNLIPMCO Real Return Fund	Chase Mortgage Finance Trust Series 2007-A1	2/25/2037	6.72	Fixed Income	7,224	7,046	0.000%
JNLIPMCO Real Return Fund	Wells Fargo & Company			Equity	800	641,100	0.040%
JNLIPMCO Real Return Fund	Wabtu Mortgage Pass-Through Certificates, Series 2006-AR9 Trust	8/25/2046	6.12	Fixed Income	694,566	661,460	0.041%
JNLIPMCO Real Return Fund	Credit-Based Asset Servicing and Securitization LLC	7/25/2037	5.09	Fixed Income	68,224	45,205	0.003%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	7/25/2037	5.45	Fixed Income	20,915		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Real Return Fund	Structured Asset Securities Corporation	2/25/2034	7.25	Fixed Income	48,016	46,533	0.003%
JNLIPMCO Real Return Fund	Bear Stearns ARM Trust 2004-1	1/25/2035	5.13	Fixed Income	23,731	23,288	0.003%
JNLIPMCO Real Return Fund	Federal Home Loan Mortgage Corporation	9/1/2036	7.25	Fixed Income	16,867	17,447	0.001%
JNLIPMCO Real Return Fund	Bear Stearns ARM Trust 2004-1	2/25/2034	5.50	Fixed Income	34,199	32,425	0.002%
JNLIPMCO Real Return Fund	Federal Home Loan Mortgage Corporation	7/1/2036	7.54	Fixed Income	49,934	51,683	0.003%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust Inc.	8/25/2035	6.25	Fixed Income	20,038	20,303	0.001%
JNLIPMCO Real Return Fund	Bear Stearns ARM Trust 2004-1	5/25/2033	6.64	Fixed Income	6,35	5,638	0.000%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust Inc.	9/25/2035	5.50	Fixed Income	3,995	4,021	0.000%
JNLIPMCO Real Return Fund	Federal Home Loan Mortgage Corporation	10/25/2044	6.32	Fixed Income	88,535	80,831	0.005%
JNLIPMCO Real Return Fund	U.S. Small Business Administration	12/1/2027	5.29	Fixed Income	54,602	56,127	0.003%
JNLIPMCO Real Return Fund	IndyMac MBS, Inc.	8/25/2033	6.50	Fixed Income	6,881	6,682	0.000%
JNLIPMCO Real Return Fund	Federal Home Loan Mortgage Corporation	10/1/2036	6.48	Fixed Income	14,009	14,487	0.001%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.52	Fixed Income	10,863	11,196	0.001%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	9/1/2036	6.32	Fixed Income	24,172	24,995	0.002%
JNLIPMCO Real Return Fund	Eversource Energy	10/1/2024	2.90	Fixed Income	100,000	101,818	0.006%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2029	0.88	Fixed Income	10,805,000	13,169,182	0.818%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2026	2.00	Fixed Income	15,168,000	24,090,713	1.497%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2028	1.75	Fixed Income	9,685,000	14,713,239	0.914%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2028	3.63	Fixed Income	20,613,000	43,626,071	2.711%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2029	2.50	Fixed Income	11,697,000	17,966,148	1.117%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2029	3.88	Fixed Income	7,353,000	15,780,155	0.981%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2041	2.13	Fixed Income	9,680,000	14,577,733	0.909%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2042	0.75	Fixed Income	25,460,000	29,565,912	1.817%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2026	0.63	Fixed Income	21,860,000	28,415,066	1.766%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2026	0.13	Fixed Income	37,930,000	48,525,825	3.016%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2027	0.38	Fixed Income	17,510,000	22,169,865	1.378%
JNLIPMCO Real Return Fund	Canada, Government of	12/1/2026	4.25	Fixed Income	3,800,000	5,674,628	0.346%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2027	2.38	Fixed Income	260,000	414,222	0.026%
JNLIPMCO Real Return Fund	C-Bass Mortgage Loan Asset Backed Certificates Series 2002-CB2	8/25/2034	6.02	Fixed Income	203,077	195,229	0.012%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2027	0.38	Fixed Income	33,200,000	41,536,507	2.581%
JNLIPMCO Real Return Fund	Mwise LLC	8/21/2027	3.90	Fixed Income	289,000	1,086,698	0.046%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2029	0.50	Fixed Income	118,304,000	146,193,434	9.085%
JNLIPMCO Real Return Fund	Sound Point CLO IV-R, Ltd.	4/18/2031	6.69	Fixed Income	237,711	241,128	0.015%
JNLIPMCO Real Return Fund	Atlas Senior Loan Fund Ltd	1/16/2030	6.70	Fixed Income	129,612	131,605	0.008%
JNLIPMCO Real Return Fund	Morgan Stanley ABS Capital Trust I Inc.	7/25/2034	5.94	Fixed Income	266,534	272,381	0.017%
JNLIPMCO Real Return Fund	Residential Asset Mortgage Products, Inc.	2/29/2037	2.77	Fixed Income	34,647	299,490	0.019%
JNLIPMCO Real Return Fund	Nomura Home Equity Loan, Inc., Home Equity Loan Trust, Series 2005-FM1	5/25/2035	5.73	Fixed Income	1,946,976	1,894,222	0.011%
JNLIPMCO Real Return Fund	GSR Mortgage Loan Trust 2005-AR1	1/25/2035	6.58	Fixed Income	15,824	15,538	0.001%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust Inc.	1/25/2035	5.66	Fixed Income	3,422,000	3,076,218	0.019%
JNLIPMCO Real Return Fund	J.P. Morgan Mortgage Trust 2005-A1	8/25/2035	5.57	Fixed Income	36,339	36,339	0.000%
JNLIPMCO Real Return Fund	J.P. Morgan Mortgage Trust 2005-A1	8/25/2035	6.96	Fixed Income	30,192	30,164	0.002%
JNLIPMCO Real Return Fund	Morgan Stanley ABS Capital Trust I Inc.	1/25/2035	5.63	Fixed Income	866,171	841,841	0.052%
JNLIPMCO Real Return Fund	J.P. Morgan Mortgage Trust 2005-A1	9/25/2035	5.71	Fixed Income	3,772	3,648	0.000%
JNLIPMCO Real Return Fund	MASTR Asset Backed Securities Trust 2006-AM1	8/25/2035	5.72	Fixed Income	44,691	44,691	0.003%
JNLIPMCO Real Return Fund	Bear Stearns Arm Trust 2006-6	3/25/2035	4.86	Fixed Income	59,088	55,129	0.003%
JNLIPMCO Real Return Fund	Residential Asset Securities Corporation	12/25/2035	5.60	Fixed Income	20,981	20,969	0.001%
JNLIPMCO Real Return Fund	IndyMac MBS, Inc.	3/25/2035	4.79	Fixed Income	8,095	7,995	0.000%
JNLIPMCO Real Return Fund	Bank of America Mortgage Securities, Inc.	8/25/2035	6.63	Fixed Income	11,679	10,664	0.001%
JNLIPMCO Real Return Fund	WaMu Mortgage Pass-Through Certificates Series 2003-AR9 Trust	12/25/2035	4.85	Fixed Income	26,256	24,586	0.002%
JNLIPMCO Real Return Fund	Mortgageit Trust 2004-2	12/25/2034	5.97	Fixed Income	110,781	106,750	0.007%
JNLIPMCO Real Return Fund	IndyMac MBS, Inc.	1/25/2035	5.33	Fixed Income	15,824	17,157	0.001%
JNLIPMCO Real Return Fund	J.P. Morgan Mortgage Trust, Series 2008-R2	7/27/2037	4.23	Fixed Income	141,533	130,158	0.008%
JNLIPMCO Real Return Fund	Lehman XS Trust, Series 2007-15N	8/25/2047	4.57	Fixed Income	331,402	310,808	0.019%
JNLIPMCO Real Return Fund	First Franklin Mortgage Loan Trust 2006-FF10	7/25/2036	5.28	Fixed Income	1,179,113	1,144,763	0.071%
JNLIPMCO Real Return Fund	CSMC Series 2015-3R	9/29/2036	5.61	Fixed Income	345,181	338,226	0.021%
JNLIPMCO Real Return Fund	Alternative Loan Trust 2006-HY11	6/25/2036	5.98	Fixed Income	251,363	233,071	0.014%
JNLIPMCO Real Return Fund	BCAP LLC Trust 2011-RRS	1/26/2037	5.48	Fixed Income	146,231	140,839	0.009%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust 2006-AMC1	9/25/2036	5.26	Fixed Income	1,448,445	1,411,219	0.088%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2049	1.00	Fixed Income	2,640,000	2,696,250	0.168%
JNLIPMCO Real Return Fund	Residential Asset Securities Corporation	4/25/2036	5.46	Fixed Income	195,178	193,693	0.012%
JNLIPMCO Real Return Fund	CSMC Series 2015-12R	2/29/2037	3.51	Fixed Income	1,949,559	1,726,370	0.107%
JNLIPMCO Real Return Fund	Grifonos Finance No.1 PLC	8/28/2039	3.68	Fixed Income	290,847	316,807	0.020%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2040	2.13	Fixed Income	9,500,000	14,456,533	0.898%
JNLIPMCO Real Return Fund	Government National Mortgage Association	8/20/2068	5.46	Fixed Income	1,495,244	1,506,252	0.094%
JNLIPMCO Real Return Fund	Treasury, United States Department of	9/15/2043	0.63	Fixed Income	6,340,000	6,967,903	0.433%
JNLIPMCO Real Return Fund	Federal Home Loan Mortgage Corporation	2/15/2042	5.91	Fixed Income	972,279	960,373	0.060%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2044	1.38	Fixed Income	23,850,000	29,403,330	1.827%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2045	0.75	Fixed Income	22,734,000	24,289,061	1.509%
JNLIPMCO Real Return Fund	Federal Home Loan Mortgage Corporation	7/15/2044	5.57	Fixed Income	656,604	652,103	0.041%
JNLIPMCO Real Return Fund	Thornburg Mortgage Securities Trust	4/25/2045	5.59	Fixed Income	39,635	39,118	0.002%
JNLIPMCO Real Return Fund	Euroasil-UK 2007-3BL PLC	6/13/2045	6.03	Fixed Income	314,775	420,348	0.026%
JNLIPMCO Real Return Fund	IndyMac MBS, Inc.	7/25/2045	5.61	Fixed Income	67,695	54,147	0.003%
JNLIPMCO Real Return Fund	Eurocell UK 2007-3BL PLC	6/13/2045	6.08	Fixed Income	198,216	144,580	0.009%
JNLIPMCO Real Return Fund	CWABS Asset-Backed Certificates Trust 2007-12	6/25/2037	5.71	Fixed Income	63,837	61,436	0.004%
JNLIPMCO Real Return Fund	GS Mortgage Securities Corp.	3/25/2046	6.72	Fixed Income	220,359	122,639	0.008%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust Inc.	8/25/2034	5.50	Fixed Income	4,493	4,421	0.000%
JNLIPMCO Real Return Fund	Securitized Asset Backed Receivables LLC Trust 2006-HE1	2/25/2036	5.29	Fixed Income	2,821,814	812,365	0.050%
JNLIPMCO Real Return Fund	CHL Mortgage Pass-Through Trust 2007-1	3/25/2037	6.00	Fixed Income	702,000	339,362	0.021%
JNLIPMCO Real Return Fund	Cabinet Office, Government of Japan	3/10/2029	0.10	Fixed Income	1,596,000,000	12,569,961	0.781%
JNLIPMCO Real Return Fund	Alternative Loan Trust 2007-4CB	4/25/2037	6.00	Fixed Income	216,398	188,148	0.012%
JNLIPMCO Real Return Fund	New Century Home Equity Loan Trust	2/25/2035	5.73	Fixed Income	188,767	188,678	0.012%
JNLIPMCO Real Return Fund	Alternative Loan Trust 2005-43	7/25/2035	5.00	Fixed Income	67,497	36,833	0.002%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2029	0.25	Fixed Income	40,947,000	47,804,950	2.971%
JNLIPMCO Real Return Fund	Home Equity Asset Trust	2/25/2036	5.42	Fixed Income	907,211	879,557	0.055%
JNLIPMCO Real Return Fund	J.P. Morgan Mortgage Acquisition Trust 2006-Ch2	10/25/2036	5.18	Fixed Income	13,713	12,995	0.001%
JNLIPMCO Real Return Fund	RALI Series 2007-4RB Trust	9/25/2037	4.98	Fixed Income	438,742	397,644	0.024%
JNLIPMCO Real Return Fund	HarborView Mortgage Loan Trust 2007-5	9/19/2037	5.46	Fixed Income	14,506	12,833	0.001%
JNLIPMCO Real Return Fund	New Residential Mortgage Loan Trust 2019-RPL3	7/25/2059	2.75	Fixed Income	1,197,098	1,148,125	0.071%
JNLIPMCO Real Return Fund	Towd Point Mortgage Trust 2019-HV3	7/25/2027	5.97	Fixed Income	396,411	406,114	0.025%
JNLIPMCO Real Return Fund	Mill City Mortgage Loan Trust 2019-GS2	9/25/2034	2.75	Fixed Income	200,923	202,126	0.012%
JNLIPMCO Real Return Fund	Morgan Stanley ABS Capital Trust I Inc.	9/25/2035	5.64	Fixed Income	1,168,342	1,099,444	0.068%
JNLIPMCO Real Return Fund	First Franklin Mortgage Loan Trust 2006-FF17	12/25/2036	5.09	Fixed Income	4,743,023	4,267,016	0.265%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2030	0.13	Fixed Income	19,190,000	21,897,835	1.361%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2040	0.25	Fixed Income	12,700,000	13,010,817	0.813%
JNLIPMCO Real Return Fund	Segretariato Generale Della Presidenza Della Repubblica	5/15/2030	0.40	Fixed Income	1,700,000	2,201,884	0.137%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2025	0.13	Fixed Income	9,360,000	11,199,725	0.696%
JNLIPMCO Real Return Fund	Wind River 2014-1 CLO Ltd.	7/18/2031	6.59	Fixed Income	224,923	228,114	0.014%
JNLIPMCO Real Return Fund	KSR CLO 11 Ltd	1/15/2033	6.74	Fixed Income	477,898	486,029	0.030%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2030	0.13	Fixed Income	15,400,000	17,575,235	1.092%
JNLIPMCO Real Return Fund	CBAM 2018-5 Ltd	4/17/2031	6.57	Fixed Income	459,155	465,723	0.029%
JNLIPMCO Real Return Fund	Nissan Motor Co. Ltd.	9/17/2027	4.35	Fixed Income	300,000	293,035	0.018%
JNLIPMCO Real Return Fund	Gouvernement De France	3/1/2026	7.18	Fixed Income	10,600,000	13,638,299	0.860%
JNLIPMCO Real Return Fund	Segretariato Generale Della Presidenza Della Repubblica	5/26/2025	1.40	Fixed Income	38,300,000	42,759,927	2.675%
JNLIPMCO Real Return Fund	Citigroup Mortgage Loan Trust 2007-AMC3	3/25/2037	5.15	Fixed Income	969,569	850,338	0.053%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2033	1.13	Fixed Income	22,100,000	22,575,150	1.403%
JNLIPMCO Real Return Fund	Treasury, United States Department of	2/15/2053	1.50	Fixed Income	5,800,000	5,563,110	0.346%
JNLIPMCO Real Return Fund	Credit Suisse Group AG	3/10/2029	7.75	Fixed Income	100,000	132,374	0.008%
JNLIPMCO Real Return Fund	Credit Suisse Group AG	1/16/2026	4.66	Fixed Income	100,000	112,647	0.007%
JNLIPMCO Real Return Fund	Credit Suisse Group AG	9/30/2027	7.00	Fixed Income	100,000	138,400	0.009%
JNLIPMCO Real Return Fund	Credit Suisse Group AG	6/24/2027	1.00	Fixed Income	100,000	107,860	0.007%
JNLIPMCO Real Return Fund	Credit Suisse Group AG	3/10/2026	2.13	Fixed Income	240,000	299,841	0.019%
JNLIPMCO Real Return Fund	Treasury, United States Department of	4/15/2028	1.25	Fixed Income	5,900,000	6,164,683	0.383%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	6/1/2053	5.00	Fixed Income	368,703	368,061	0.023%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2033	1.38	Fixed Income	52,000,000	53,246,043	3.309%
JNLIPMCO Real Return Fund	LCM Loan Income Fund I Ltd.	4/21/2031	6.57	Fixed Income	219,838	223,038	0.014%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/1/2052	4.50	Fixed Income	328,028	323,796	0.020%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.50	Fixed Income	19,000,000	19,598,947	1.218%
JNLIPMCO Real Return Fund	Man GLG Euro CLO V Designated Activity Company	12/15/2031	4.17	Fixed Income	320,987	357,328	0.022%
JNLIPMCO Real Return Fund	QCS US CLO 2012-2 Ltd	7/21/2031	7.13	Fixed Income	1,565,983	1,528,813	0.095%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2028	0.50	Fixed Income	48,702,000	(60,236,161)	-3.744%
JNLIPMCO Real Return Fund	Federal National Mortgage Association, Inc.	11/15/2054	6.00	Fixed Income	39,800,000	40,684,615	2.528%
JNLIPMCO Real Return Fund	Neuberger Berman Loan Advisers NBLA CLO 53 Ltd	10/24/2032	6.87	Fixed Income	1,200,000	1,219,408	0.076%
JNLIPMCO Real Return Fund	Elmwood CLO 24 Ltd	12/12/2033	6.39	Fixed Income	1,760,000	1,780,759	0.111%
JNLIPMCO Real Return Fund	Palmer Square European Loan Funding 2023-3 Designated Activity Company	5/15/2033	5.04	Fixed Income	802,521	901,461	0.056%
JNLIPMCO Real Return Fund	Hayfin Emerald CLO XII Designated Activity Company	10/25/2037	5.42	Fixed Income	3,300,000	3,712,398	0.231%
JNLIPMCO Real Return Fund	Anchorage Capital Europe CLO 1 Designated Activity Company	1/15/2031	4.47	Fixed Income	195,220	2,225,937	0.138%
JNLIPMCO Real Return Fund	Capital Four US CLO 1 Ltd	12/1/2037	7.18				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIPMCO Real Return Fund	Henley CLO VII DAC	4/25/2034	4.53	Fixed Income	1,200,000	1,340,856	0.083%
JNLIPMCO Real Return Fund	AG Trust 2024 ALP	8/15/2029	7.11	Fixed Income	800,000	893,461	0.056%
JNLIPMCO Real Return Fund	Treasury, United States Department of	1/15/2034	1.75	Fixed Income	-1,100,000	(1,143,360)	-0.071%
JNLIPMCO Real Return Fund	Tikehav CLO IV B.V.	10/15/2031	4.58	Fixed Income	768,655	863,274	0.054%
JNLIPMCO Real Return Fund	St.Paul's CLO X Designated Activity Company	4/23/2035	4.49	Fixed Income	600,000	669,926	0.042%
JNLIPMCO Real Return Fund	Ginnie Mae 3	8/20/2054	3.50	Bond Income	99,500	89,867	0.006%
JNLIPMCO Real Return Fund	Arbour CLO VI Designated Activity Company	11/15/2037		Fixed Income	1,000,000	1,111,739	0.069%
JNLIPMCO Real Return Fund	Treasury, United States Department of	7/15/2032	0.63	Fixed Income	-50,400,000	(51,150,227)	-3.179%
JNLIPMCO Real Return Fund	Sandstone Peak Ltd	10/15/2034	5.87	Fixed Income	600,000	600,498	0.037%
JNLIPMCO Real Return Fund	Bain Capital Credit CLO 2021-2 Ltd	7/16/2034		Fixed Income	600,000	500,106	0.037%
Total Non Derivatives						1,605,318,734	
Derivatives							
JNLIPMCO Real Return Fund	Bought AUD / Sold USD			Derivative		4,983	0.000%
JNLIPMCO Real Return Fund	Bought CAD / Sold USD			Derivative		(20,575)	-0.001%
JNLIPMCO Real Return Fund	Bought EUR / Sold USD			Derivative		(389,544)	-0.024%
JNLIPMCO Real Return Fund	Bought JPY / Sold USD			Derivative		(18,463)	-0.001%
JNLIPMCO Real Return Fund	Bought JPY / Sold USD			Derivative		(5,601)	0.000%
JNLIPMCO Real Return Fund	Bought JPY / Sold USD			Derivative		(89,799)	-0.006%
JNLIPMCO Real Return Fund	Bought MXN / Sold USD			Derivative		2,104	0.000%
JNLIPMCO Real Return Fund	Bought USD / Sold AUD			Derivative		(17,713)	-0.001%
JNLIPMCO Real Return Fund	Bought USD / Sold EUR			Derivative		121,285	0.008%
JNLIPMCO Real Return Fund	Bought USD / Sold JPY			Derivative		(51,957)	-0.003%
JNLIPMCO Real Return Fund	Bought USD / Sold GBP			Derivative		(3,045)	0.000%
JNLIPMCO Real Return Fund	Bought USD / Sold JPY			Derivative		(90)	0.000%
JNLIPMCO Real Return Fund	Bought USD / Sold CAD			Derivative		30,853	0.002%
JNLIPMCO Real Return Fund	Bought USD / Sold EUR			Derivative		(7,120)	0.000%
JNLIPMCO Real Return Fund	Bought USD / Sold PEN			Derivative		(18,566)	-0.001%
JNLIPMCO Real Return Fund	Bought USD / Sold PEN			Derivative		(8,564)	-0.001%
JNLIPMCO Real Return Fund	Bought USD / Sold PEN			Derivative		(3,783)	0.000%
JNLIPMCO Real Return Fund	Bought USD / Sold PEN			Derivative		(9,840)	-0.001%
JNLIPMCO Real Return Fund	Bought USD / Sold EUR			Derivative		(48,252)	-0.003%
JNLIPMCO Real Return Fund	Bought USD / Sold GBP			Derivative		(1,568)	0.000%
JNLIPMCO Real Return Fund	Bought USD / Sold CAD			Derivative		20,534	0.001%
JNLIPMCO Real Return Fund	Bought USD / Sold EUR			Derivative		376,720	0.023%
JNLIPMCO Real Return Fund	Bought USD / Sold JPY			Derivative		78,245	0.005%
JNLIPMCO Real Return Fund	Bought USD / Sold AUD			Derivative		(192,616)	-0.012%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-10,100,000	(208,932)	-0.013%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-10,100,000	(11,562)	-0.001%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-21,700,000	(408,954)	-0.025%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-21,700,000	(30,904)	-0.002%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-16,000,000	(18,289)	-0.001%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-16,000,000	(346,780)	-0.022%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-19,300,000	(16,963)	-0.001%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-19,300,000	(492,616)	-0.031%
JNLIPMCO Real Return Fund	Interest Rate Swap SWAPTION INTEREST RATE			Derivative	-34,500,000	(6,527)	-0.000%
JNLIPMCO Real Return Fund	Italy Short Term Government BTP Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-205	(186,124)	-0.012%
JNLIPMCO Real Return Fund	Euro Schatz Future, Nov. 2024 OPTION BOOKED AS A FUTURE			Derivative	-333	4,401	0.000%
JNLIPMCO Real Return Fund	Euro Schatz FUTURE - PHYSICALLY DELIVERED			Derivative	-491	(254,937)	-0.016%
JNLIPMCO Real Return Fund	3M EURIBOR FUTURE - CASH SETTLED			Derivative	-473	(457,081)	-0.028%
JNLIPMCO Real Return Fund	3M EURIBOR FUTURE - CASH SETTLED			Derivative	473	242,195	0.015%
JNLIPMCO Real Return Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-1,241	(172,149)	-0.011%
JNLIPMCO Real Return Fund	Italy Government BTP Bond FUTURE - PHYSICALLY DELIVERED			Derivative	79	368,000	0.023%
JNLIPMCO Real Return Fund	Japan 10 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	3	4,765	0.000%
JNLIPMCO Real Return Fund	Euro OAT FUTURE - PHYSICALLY DELIVERED			Derivative	-289	(213,627)	-0.013%
JNLIPMCO Real Return Fund	Euro BOBL FUTURE - PHYSICALLY DELIVERED			Derivative	301	431,748	0.027%
JNLIPMCO Real Return Fund	Euro Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-264	(510,258)	-0.032%
JNLIPMCO Real Return Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	60,000,000	3,918	0.000%
JNLIPMCO Real Return Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	792,690,000	48,244	0.003%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,500,000	(90,246)	-0.006%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	5,800,000	(217,194)	-0.013%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	2,800,000	(105,020)	-0.007%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	3,200,000	(91,426)	-0.006%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	10,000	48	0.000%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	4,600,000	1,929,754	0.120%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	13,300,000	5,727,704	0.356%
JNLIPMCO Real Return Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	31,400,000	(337,361)	-0.021%
JNLIPMCO Real Return Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	21,700,000	1,394,143	0.087%
JNLIPMCO Real Return Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	1,400,000,000	13,065	0.001%
JNLIPMCO Real Return Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	79,780,000	(70,820)	-0.004%
JNLIPMCO Real Return Fund	Bank of Japan Overnight Call Rate TONAR EXCHANGE CLEARED IRS			Derivative	1,021,000,000	90,327	0.006%
JNLIPMCO Real Return Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	50,860,000	(2,368,517)	-0.147%
JNLIPMCO Real Return Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	10,490,000	2,647,908	0.165%
JNLIPMCO Real Return Fund	U.S. SOFR EXCHANGE CLEARED IRS			Derivative	7,700,000	(496,356)	-0.031%
JNLIPMCO Real Return Fund	ESTR Volume Weighted Trimmed Mean Rate EXCHANGE CLEARED IRS			Derivative	257,300,000	(422,240)	-0.026%
JNLIPMCO Real Return Fund	Sterling Overnight Index Average Rate EXCHANGE CLEARED IRS			Derivative	53,100,000	(183,845)	-0.011%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	149,525,000	1,383,300	0.087%
JNLIPMCO Real Return Fund	6M EURIBOR EXCHANGE CLEARED IRS			Derivative	39,749,000	(233,129)	-0.014%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,100,000	1,843	0.000%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	8,500,000	(101,747)	-0.006%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,470,000	(10,236)	-0.001%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	7,800,000	(108,258)	-0.007%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	11,220,000	(2,217,840)	-0.138%
JNLIPMCO Real Return Fund	France CPI Excluding Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	410,000	(34,002)	-0.002%
JNLIPMCO Real Return Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,400,000	(4,801)	0.000%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	860,000	10	0.000%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	3,700,000	575,026	0.036%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	4,500,000	669,258	0.042%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,700,000	26,153	0.002%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	570,000	(6,386)	0.000%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,400,000	151,425	0.009%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	8,700,000	889,267	0.055%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	6,500,000	519,006	0.032%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	900,000	73,770	0.005%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	800,000	52,094	0.003%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,900,000	108,355	0.007%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	14,500,000	(2,301,656)	-0.143%
JNLIPMCO Real Return Fund	France CPI Excluding Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	500,000	(87,983)	-0.005%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	800,000	131,534	0.008%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	3,000,000	232,037	0.014%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,700,000	238,344	0.015%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	900,000	128,432	0.008%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	80,000	19,982	0.001%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	300,000	7,811	0.000%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	5,500,000	(42,080)	-0.003%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,300,000	199,392	0.012%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	16,800,000	1,837,103	0.114%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	6,100,000	(811,371)	-0.050%
JNLIPMCO Real Return Fund	U.K. Retail Price Index EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	5,800,000	(19,197)	-0.001%
JNLIPMCO Real Return Fund	Eurostat Eurozone HICP Ex Tobacco EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,000,000	186,633	0.012%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	10,040,000	(976,172)	-0.061%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	8,700,000	(798,116)	-0.050%
JNLIPMCO Real Return Fund	HICP EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	1,000,000	53,241	0.003%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	4,850,000	398,493	0.025%
JNLIPMCO Real Return Fund	U.S. CPURISA EXCHANGE CLEARED INFLATION INDEXED SWAP			Derivative	2,200,000	(454,207)	-0.028%
JNLIPMCO Real Return Fund	Treasury, United States Department of TOTAL RETURN SWAP			Derivative	60,000,000	464,518	0.029%
JNLIPMCO Real Return Fund	Treasury, United States Department of TOTAL RETURN SWAP			Derivative	25,000,000	36,081	0.002%
JNLIPMCO Real Return Fund	Treasury, United States Department of TOTAL RETURN SWAP			Derivative	20,000,000	21,451	0.001%
JNLIPMCO Real Return Fund	Treasury, United States Department of TOTAL RETURN SWAP			Derivative	50,000,000	(61,530)	-0.004%
JNLIPMCO Real Return Fund	Treasury, United States Department of TOTAL RETURN SWAP			Derivative	50,000,000	68,878	0.004%
JNLIPMCO Real Return Fund	Treasury, United States Department of TOTAL RETURN SWAP			Derivative	25,000,000	56,893	0.004%
JNLIPMCO Real Return Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-738	(413,008)	-0.026%
JNLIPMCO Real Return Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-392	(75,775)	-0.005%
JNLIPMCO Real Return Fund	Euro Bux 30 Year Bond FUTURE - PHYSICALLY DELIVERED			Derivative	10	14,448	0.001%
JNLIPMCO Real Return Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-216	1,29,620	0.008%
JNLIPMCO Real Return Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	476	(22,168)	-0.001%
JNLIPMCO Real Return Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-138	117,949	0.007%
JNLIPMCO Real Return Fund	Australia 10 Year Bond FUTURE - CASH SETTLED			Derivative	225	(124,072)	-0.008%
Total Derivatives						3,767,377	
Total All Investments						1,609,086,111	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLPPM America Floating Rate Income Fund	Cash			Cash Equivalent	18,546,819	18,546,819	1.610%
JNLPPM America Floating Rate Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	16,509,759	16,585,635	1.440%
JNLPPM America Floating Rate Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	6,322,795	6,342,937	0.551%
JNLPPM America Floating Rate Income Fund	Chobani, LLC	10/20/2027	8.61	Fixed Income	977,099	979,032	0.085%
JNLPPM America Floating Rate Income Fund	CNT Holdings I Corp	10/16/2027	8.75	Fixed Income	1,036,376	1,054,847	0.092%
JNLPPM America Floating Rate Income Fund	Aruba Investments Holdings, LLC	10/26/2027	9.35	Fixed Income	641,126	639,126	0.055%
JNLPPM America Floating Rate Income Fund	Freedom Group Inc.			Equity	56,543	0	0.000%
JNLPPM America Floating Rate Income Fund	Anastasia Parent, LLC	8/3/2025	9.35	Fixed Income	824,167	588,945	0.051%
JNLPPM America Floating Rate Income Fund	OneMain Finance Corporation	9/15/2030	4.00	Fixed Income	980,000	874,200	0.076%
JNLPPM America Floating Rate Income Fund	Alice Franco S.A.	7/13/2024	9.38	Fixed Income	985,000	815,438	0.071%
JNLPPM America Floating Rate Income Fund	WOOF Holdings, Inc.	12/16/2027	9.35	Fixed Income	977,865	651,319	0.057%
JNLPPM America Floating Rate Income Fund	Asurion LLC	12/23/2026	9.21	Fixed Income	697,821	697,185	0.061%
JNLPPM America Floating Rate Income Fund	Asurion LLC	12/23/2026	9.21	Fixed Income	2,780,711	2,778,175	0.241%
JNLPPM America Floating Rate Income Fund	Hicorp Energy I LP	2/1/2029	5.75	Fixed Income	2,885,000	2,856,378	0.246%
JNLPPM America Floating Rate Income Fund	Marb Bondco PLC	1/29/2031	3.95	Fixed Income	1,062,000	948,645	0.082%
JNLPPM America Floating Rate Income Fund	Pike Corporation	1/15/2028	8.36	Fixed Income	1,000,000	1,003,871	0.087%
JNLPPM America Floating Rate Income Fund	Clear Channel Outdoor Holdings, Inc.	4/15/2028	7.75	Fixed Income	1,614,000	1,501,589	0.130%
JNLPPM America Floating Rate Income Fund	UFC Holdings, LLC	4/29/2026	8.29	Fixed Income	415,229	445,014	0.039%
JNLPPM America Floating Rate Income Fund	Gloves Buyer, Inc.	12/29/2027	9.36	Fixed Income	1,469,615	1,463,575	0.127%
JNLPPM America Floating Rate Income Fund	PennyMac Financial Services, Inc.	2/15/2029	4.25	Fixed Income	3,000,000	2,879,977	0.250%
JNLPPM America Floating Rate Income Fund	CP Atlas Buyer, Inc.	11/23/2027	9.10	Fixed Income	3,636,571	3,585,554	0.311%
JNLPPM America Floating Rate Income Fund	CMG Media Corporation	12/1/2026	8.93	Fixed Income	2,726,013	2,393,917	0.209%
JNLPPM America Floating Rate Income Fund	CMG Media Corporation	12/1/2026	8.93	Fixed Income	1,539,853	1,352,260	0.117%
JNLPPM America Floating Rate Income Fund	AixPartners, LLP	2/4/2028	7.86	Fixed Income	979,745	980,438	0.085%
JNLPPM America Floating Rate Income Fund	Asurion LLC	2/25/2028	10.61	Fixed Income	3,500,000	3,272,863	0.284%
JNLPPM America Floating Rate Income Fund	Asurion LLC	2/5/2028	10.61	Fixed Income	340,000	317,935	0.028%
JNLPPM America Floating Rate Income Fund	Asurion LLC	2/5/2028	8.61	Fixed Income	4,101,593	4,041,624	0.351%
JNLPPM America Floating Rate Income Fund	PeSmart, Inc.	12/31/2024	9.10	Fixed Income	4,969,270	4,921,672	0.427%
JNLPPM America Floating Rate Income Fund	amWinSys Group, Inc.	2/16/2028	7.61	Fixed Income	947,029	945,335	0.082%
JNLPPM America Floating Rate Income Fund	Pearson Corp.	2/22/2028	9.10	Fixed Income	2,556,230	2,455,135	0.213%
JNLPPM America Floating Rate Income Fund	TriconBraun Holdings, Inc.	1/28/2028	8.61	Fixed Income	735,489	720,863	0.063%
JNLPPM America Floating Rate Income Fund	American Trailer World Corp.	2/1/2028	9.10	Fixed Income	1,046,380	943,303	0.082%
JNLPPM America Floating Rate Income Fund	American Trailer World Corp.	2/1/2028	9.10	Fixed Income	695,575	618,040	0.054%
JNLPPM America Floating Rate Income Fund	Spin Holdco Inc.	2/26/2028	9.26	Fixed Income	5,222,943	4,586,338	0.398%
JNLPPM America Floating Rate Income Fund	Spin Holdco Inc.	2/26/2028	9.26	Fixed Income	2,483,701	2,488,784	0.215%
JNLPPM America Floating Rate Income Fund	WIN Waste Innovations Holdings, Inc.	12/31/2049	9.26	Fixed Income	380,000	361,087	0.031%
JNLPPM America Floating Rate Income Fund	DG Investment Intermediate Holdings 2, Inc.	12/31/2049		Fixed Income	495,938	483,814	0.042%
JNLPPM America Floating Rate Income Fund	Franchise Group Intermediate Holdco, LLC	9/10/2000	10.39	Fixed Income	810,000	600,948	0.052%
JNLPPM America Floating Rate Income Fund	Constant Contact Inc.	12/31/2024	9.57	Fixed Income	983,742	970,874	0.084%
JNLPPM America Floating Rate Income Fund	Klockner-Pentaplast of America, Inc.	2/4/2026	9.72	Fixed Income	2,371,023	2,239,730	0.194%
JNLPPM America Floating Rate Income Fund	Klockner-Pentaplast of America, Inc.	2/4/2026	9.72	Fixed Income	977,215	923,103	0.080%
JNLPPM America Floating Rate Income Fund	Indiv, Inc.			Equity	1,110	5,287	0.000%
JNLPPM America Floating Rate Income Fund	NCR Voyis Corporation	4/15/2029	5.13	Fixed Income	773,023	773,123	0.067%
JNLPPM America Floating Rate Income Fund	New Fortress Energy Inc.	9/30/2026	6.50	Fixed Income	729,000	613,938	0.053%
JNLPPM America Floating Rate Income Fund	Hudson River Trading LLC	3/1/2028	8.36	Fixed Income	4,893,824	4,887,369	0.424%
JNLPPM America Floating Rate Income Fund	LCPR Loan Financing LLC	9/25/2028	8.96	Fixed Income	500,000	460,242	0.040%
JNLPPM America Floating Rate Income Fund	First Brands Group, LLC	12/2/2027	10.25	Fixed Income	221,508	221,403	0.019%
JNLPPM America Floating Rate Income Fund	American Airlines, Inc.	3/10/2028	10.29	Fixed Income	3,118,421	3,066,176	0.284%
JNLPPM America Floating Rate Income Fund	American Airlines, Inc.	3/10/2028	10.29	Fixed Income	1,500,000	1,571,072	0.136%
JNLPPM America Floating Rate Income Fund	Triton Water Holdings, Inc.	3/16/2028	8.85	Fixed Income	6,111,570	6,099,835	0.530%
JNLPPM America Floating Rate Income Fund	Triton Water Holdings, Inc.	3/16/2028	8.95	Fixed Income	1,453,694	1,450,903	0.127%
JNLPPM America Floating Rate Income Fund	Energy Transfer LP	1/1/2020	6.75	Fixed Income	5,000,000	5,109,454	0.444%
JNLPPM America Floating Rate Income Fund	DG Investment Intermediate Holdings 2, Inc.	12/31/2024	9.11	Fixed Income	128,673	128,142	0.011%
JNLPPM America Floating Rate Income Fund	Consolidated Communications, Inc.	9/15/2027	8.86	Fixed Income	1,000,000	971,115	0.084%
JNLPPM America Floating Rate Income Fund	Piney Bowes Inc.	3/12/2028	9.36	Fixed Income	2,339,367	2,340,932	0.203%
JNLPPM America Floating Rate Income Fund	Piney Bowes Inc.	1/2/2028	9.36	Fixed Income	178,154	178,273	0.015%
JNLPPM America Floating Rate Income Fund	BW Gas & Convenience Holdings, LLC	3/1/2028	8.86	Fixed Income	494,898	494,089	0.043%
JNLPPM America Floating Rate Income Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2026	4.38	Fixed Income	621,000	624,190	0.054%
JNLPPM America Floating Rate Income Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	4.63	Fixed Income	856,000	845,338	0.073%
JNLPPM America Floating Rate Income Fund	Rhaz, Inc.	8/30/2026	9.11	Fixed Income	310,381	287,884	0.025%
JNLPPM America Floating Rate Income Fund	RealPage, Inc.	2/18/2028	8.36	Fixed Income	1,233,776	1,197,036	0.104%
JNLPPM America Floating Rate Income Fund	J&J Ventures Gaming, LLC	4/7/2028	9.36	Fixed Income	5,476,146	5,459,492	0.474%
JNLPPM America Floating Rate Income Fund	J&J Ventures Gaming, LLC	4/7/2028	9.36	Fixed Income	1,465,995	1,461,537	0.127%
JNLPPM America Floating Rate Income Fund	CNS Acquisition Corp.	4/16/2027	11.61	Fixed Income	484,759	295,854	0.026%
JNLPPM America Floating Rate Income Fund	Tory Burch LLC	4/14/2028	8.61	Fixed Income	475,102	475,467	0.041%
JNLPPM America Floating Rate Income Fund	MajorDrive Holdings IV, LLC	6/1/2029	6.38	Fixed Income	1,350,000	1,343,621	0.117%
JNLPPM America Floating Rate Income Fund	AI, NGPI, Holdings, LLC	4/16/2028	8.56	Fixed Income	2,456,600	3,004,251	0.261%
JNLPPM America Floating Rate Income Fund	Allied Universal Holdco LLC	5/4/2028	9.10	Fixed Income	4,074,359	4,024,172	0.428%
JNLPPM America Floating Rate Income Fund	Allied Universal Holdco LLC	5/4/2028	9.10	Fixed Income	2,443,325	2,418,969	0.210%
JNLPPM America Floating Rate Income Fund	TKC Holdings, Inc.	5/3/2028	9.96	Fixed Income	3,344,892	3,341,385	0.290%
JNLPPM America Floating Rate Income Fund	ACProducts, Inc.	5/1/2028	9.85	Fixed Income	1,682,902	1,403,242	0.122%
JNLPPM America Floating Rate Income Fund	Conar Holdings, LLC	9/1/2028	9.15	Fixed Income	2,260,547	2,098,729	0.184%
JNLPPM America Floating Rate Income Fund	MajorDrive Holdings IV LLC	5/12/2028	9.60	Fixed Income	3,647,037	3,654,026	0.317%
JNLPPM America Floating Rate Income Fund	CWGS Group, LLC	5/25/2028	7.47	Fixed Income	920,598	880,412	0.076%
JNLPPM America Floating Rate Income Fund	Polaris Newco LLC	6/3/2028	9.51	Fixed Income	3,527,848	3,523,707	0.306%
JNLPPM America Floating Rate Income Fund	OneMain Finance Corporation	1/15/2027	9.50	Fixed Income	2,865,000	2,845,714	0.247%
JNLPPM America Floating Rate Income Fund	CoreLogic, Inc.	4/14/2028	8.86	Fixed Income	1,515,485	1,498,519	0.130%
JNLPPM America Floating Rate Income Fund	CWGS Group, LLC	5/25/2028	7.86	Fixed Income	56,617	54,098	0.005%
JNLPPM America Floating Rate Income Fund	Madison IQO LLC	6/15/2028	7.89	Fixed Income	1,068,058	1,082,766	0.094%
JNLPPM America Floating Rate Income Fund	Academy, Ltd.	1/15/2027	9.07	Fixed Income	164,660	165,401	0.014%
JNLPPM America Floating Rate Income Fund	ADMI Corp.	12/23/2027	9.11	Fixed Income	3,129,576	3,057,055	0.265%
JNLPPM America Floating Rate Income Fund	Lonza Group AG	4/29/2028	9.36	Fixed Income	2,444,309	2,281,853	0.198%
JNLPPM America Floating Rate Income Fund	Performance Food Group, Inc.	8/1/2029	4.25	Fixed Income	1,460,000	1,398,107	0.121%
JNLPPM America Floating Rate Income Fund	Univision Communications, Inc.	3/15/2026	8.61	Fixed Income	104,042	103,956	0.009%
JNLPPM America Floating Rate Income Fund	Radgas LLC	8/30/2028	10.33	Fixed Income	4,180,235	3,913,185	0.340%
JNLPPM America Floating Rate Income Fund	Carnival Corporation	8/1/2028	4.00	Fixed Income	2,342,000	2,275,980	0.198%
JNLPPM America Floating Rate Income Fund	Employbridge Holding Company	7/16/2028	10.43	Fixed Income	4,984,857	3,999,228	0.295%
JNLPPM America Floating Rate Income Fund	First Student Bidco Inc.	7/12/2028	8.80	Fixed Income	1,127,669	1,128,362	0.098%
JNLPPM America Floating Rate Income Fund	First Student Bidco Inc.	7/13/2028	8.80	Fixed Income	3,687,751	3,680,120	0.320%
JNLPPM America Floating Rate Income Fund	Osborne Utilities Services, Inc.	6/18/2028	8.61	Fixed Income	977,330	967,780	0.084%
JNLPPM America Floating Rate Income Fund	AI Aqua Merger Sub, Inc.	6/1/2028	8.70	Fixed Income	4,655,140	4,676,604	0.406%
JNLPPM America Floating Rate Income Fund	AI Aqua Merger Sub, Inc.	6/1/2028	8.70	Fixed Income	2,642,063	2,652,270	0.230%
JNLPPM America Floating Rate Income Fund	Group Solarx Inc.	12/30/2024	10.35	Fixed Income	226,401	209,500	0.018%
JNLPPM America Floating Rate Income Fund	Group Solarx Inc.	12/30/2024	10.35	Fixed Income	510,573	470,140	0.041%
JNLPPM America Floating Rate Income Fund	Group Solarx Inc.	12/30/2024	10.11	Fixed Income	177,186	163,245	0.014%
JNLPPM America Floating Rate Income Fund	Group Solarx Inc.	12/30/2024	10.11	Fixed Income	399,579	367,936	0.032%
JNLPPM America Floating Rate Income Fund	Group Solarx Inc.	12/30/2024	10.11	Fixed Income	123,350	113,745	0.010%
JNLPPM America Floating Rate Income Fund	Group Solarx Inc.	12/30/2024	10.11	Fixed Income	278,181	256,152	0.022%
JNLPPM America Floating Rate Income Fund	Upstream Rehabilitation, Inc.	10/10/2026	9.76	Fixed Income	822,546	724,225	0.063%
JNLPPM America Floating Rate Income Fund	DirectTV Financing, LLC	7/22/2027	10.36	Fixed Income	2,471,660	2,470,490	0.214%
JNLPPM America Floating Rate Income Fund	Asurion LLC	1/15/2029	10.63	Fixed Income	1,400,000	1,391,463	0.121%
JNLPPM America Floating Rate Income Fund	Asurion LLC	1/15/2029	10.61	Fixed Income	3,265,000	3,011,876	0.262%
JNLPPM America Floating Rate Income Fund	Hilton Grand Vacations Borrower LLC	5/20/2028	7.75	Fixed Income	911,713	905,635	0.079%
JNLPPM America Floating Rate Income Fund	Sweetwater Borrower, LLC	12/31/2024	9.61	Fixed Income	3,506,821	3,503,334	0.304%
JNLPPM America Floating Rate Income Fund	Sweetwater Borrower, LLC	12/31/2024	9.61	Fixed Income	806,246	804,366	0.070%
JNLPPM America Floating Rate Income Fund	Hunter Holdco S Limited	9/5/2028	9.68	Fixed Income	2,176,333	2,160,550	0.188%
JNLPPM America Floating Rate Income Fund	MPH Acquisition Holdings LLC	8/1/2028	9.57	Fixed Income	2,984,615	2,265,403	0.197%
JNLPPM America Floating Rate Income Fund	EAB Global, Inc.	12/31/2024	8.50	Fixed Income	524,666	522,423	0.045%
JNLPPM America Floating Rate Income Fund	Herschend Entertainment Company, LLC	8/18/2028	8.25	Fixed Income	977,330	971,543	0.085%
JNLPPM America Floating Rate Income Fund	AP Core Holdings II, LLC	7/21/2027	10.33	Fixed Income	275,000	250,624	0.022%
JNLPPM America Floating Rate Income Fund	Esdec Solar Group B.V.	8/23/2028	10.60	Fixed Income	448,868	422,059	0.037%
JNLPPM America Floating Rate Income Fund	Icahn Enterprises L.P.	2/1/2029	4.38	Fixed Income	2,820,000	2,484,979	0.216%
JNLPPM America Floating Rate Income Fund	Sotheby's	1/15/2027	10.06	Fixed Income	445,737	449,399	0.039%
JNLPPM America Floating Rate Income Fund	GECON Performance Solutions, LLC	7/21/2028	9.95	Fixed Income	5,540,167	5,540,291	0.482%
JNLPPM America Floating Rate Income Fund	AP Core Holdings II, LLC	7/21/2027	10.86	Fixed Income	944,434	862,269	0.075%
JNLPPM America Floating Rate Income Fund	Red Planet Borrower, LLC	12/31/2049		Fixed Income	255,000	247,511	0.021%
JNLPPM America Floating Rate Income Fund	Superannuation and Investments US LLC	12/31/2049		Fixed Income	1,908,100	1,908,623	0.166%
JNLPPM America Floating Rate Income Fund	Superannuation and Investments US LLC	12/31/2049		Fixed Income	295,000	294,926	0.026%
JNLPPM America Floating Rate Income Fund	GIP II Blue Holding, LP	9/22/2028	9.00	Fixed Income	977,473	979,974	0.085%
JNLPPM America Floating Rate Income Fund	Red Planet Borrower, LLC	9/23/2028	8.85	Fixed Income	350,249	340,044	0.030%
JNLPPM America Floating Rate Income Fund	W.R. Grace & Co.-Conn.	8/11/2028	8.50	Fixed Income	202,399	202,746	0.018%
JNLPPM America Floating Rate Income Fund	CHG Healthcare Services Inc.	12/22/2028	9.11	Fixed Income	415,714	415,704	0.036%
JNLPPM America Floating Rate Income Fund	Rivian Holdings LLC	10/15/2026	11.36	Fixed Income	2,085,000	2,212,032	0.192%
JNLPPM America Floating Rate Income Fund	U.S. Anesthesia Partners, Inc.	9/22/2028	9.57	Fixed Income	126,242	124,438	0.011%
JNLPPM America Floating Rate Income Fund	Matress Firm Inc.	9/21/2028	9.85	Fixed Income	732,888	732,436	0.064%
JNLPPM America Floating Rate Income Fund	ConnectWise, LLC	9/23/2028	9.10	Fixed Income	1,131,271	1,129,713	0.098%
JNLPPM America Floating Rate Income Fund	Pretium PKG Holdings, Inc.	9/22/2029	12.07	Fixed Income	2,000,000	808,704	0.070%
JNLPPM America Floating Rate Income Fund	Iliad Holding	10/15/2028	7.00	Fixed Income	1,276,000	1,340,028	0.116%
JNLPPM America Floating Rate Income Fund	New Arcin U.S. Holding Corp.	9/22/2028	8.85	Fixed Income	1,201,892	1,200,371</	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Floating Rate Income Fund	Walker & Dunlop, Inc.	10/14/2028	7.60	Fixed Income	256,083	256,455	0.022%
JNLPPM America Floating Rate Income Fund	Dynn Restaurant Group LP	11/22/2028	9.13	Fixed Income	267,252	268,010	0.029%
JNLPPM America Floating Rate Income Fund	Groupe Solmix Inc.	12/30/2024	10.35	Fixed Income	123,026	113,346	0.010%
JNLPPM America Floating Rate Income Fund	Groupe Solmix Inc.	12/30/2024	10.35	Fixed Income	277,486	255,511	0.022%
JNLPPM America Floating Rate Income Fund	Ascend Learning, LLC	11/18/2028	8.85	Fixed Income	821,665	817,692	0.071%
JNLPPM America Floating Rate Income Fund	LSCS Holdings, Inc.	11/23/2028	9.86	Fixed Income	2,988,642	2,989,445	0.260%
JNLPPM America Floating Rate Income Fund	Pelican Products, Inc.	11/16/2028	9.85	Fixed Income	5,804,002	5,314,220	0.461%
JNLPPM America Floating Rate Income Fund	Knight Health Holdings LLC	12/15/2028	10.61	Fixed Income	72	1,197	0.000%
JNLPPM America Floating Rate Income Fund	Vistafit Malta Finance P.L.C.	2/1/2030	6.38	Fixed Income	1,099,000	954,266	0.083%
JNLPPM America Floating Rate Income Fund	Naked Juice LLC	12/5/2030	11.43	Fixed Income	3,522,667	2,137,862	0.186%
JNLPPM America Floating Rate Income Fund	Naked Juice LLC	1/25/2030	11.43	Fixed Income	1,500,000	1,010,331	0.079%
JNLPPM America Floating Rate Income Fund	Vaco Holdings, LLC	1/7/2029	10.48	Fixed Income	1,593,090	1,560,676	0.136%
JNLPPM America Floating Rate Income Fund	Feritta Entertainment, LLC	1/13/2029	8.85	Fixed Income	4,892,708	4,894,836	0.425%
JNLPPM America Floating Rate Income Fund	Hunter Holdco 3 Limited	8/5/2028	9.68	Fixed Income	1,915,064	1,901,177	0.165%
JNLPPM America Floating Rate Income Fund	Naked Juice LLC	12/20/2029	8.68	Fixed Income	3,930,034	3,207,540	0.278%
JNLPPM America Floating Rate Income Fund	Naked Juice LLC	12/20/2029	8.68	Fixed Income	676,826	552,399	0.048%
JNLPPM America Floating Rate Income Fund	Univision Communications Inc.	5/6/2028	8.61	Fixed Income	2,039,238	1,984,257	0.172%
JNLPPM America Floating Rate Income Fund	KCU Medical, Inc.	12/16/2028	7.98	Fixed Income	455,330	454,861	0.039%
JNLPPM America Floating Rate Income Fund	RelaDyne Inc.	1/25/2029	9.50	Fixed Income	718,084	717,820	0.062%
JNLPPM America Floating Rate Income Fund	19th Holdings Goff, LLC	1/27/2029	8.51	Fixed Income	519,304	509,037	0.044%
JNLPPM America Floating Rate Income Fund	Novaee LLC	1/19/2029	9.82	Fixed Income	322,980	314,715	0.027%
JNLPPM America Floating Rate Income Fund	Athenahealth Group, Inc.	1/27/2029	8.50	Fixed Income	4,264,012	4,233,886	0.368%
JNLPPM America Floating Rate Income Fund	Athenahealth Group, Inc.	1/27/2029	8.50	Fixed Income	1,877,607	1,884,342	0.162%
JNLPPM America Floating Rate Income Fund	WH Borrower, LLC	2/9/2027	10.79	Fixed Income	698,219	710,919	0.062%
JNLPPM America Floating Rate Income Fund	Accelerated Health Systems, LLC	2/1/2029	9.73	Fixed Income	4,955,223	3,788,467	0.329%
JNLPPM America Floating Rate Income Fund	Accelerated Health Systems, LLC	2/1/2029	9.73	Fixed Income	958,921	733,133	0.064%
JNLPPM America Floating Rate Income Fund	Macy's Retail Holdings	3/15/2032	6.13	Fixed Income	2,000,000	1,944,773	0.169%
JNLPPM America Floating Rate Income Fund	Academy, Ltd.	11/5/2027	9.07	Fixed Income	1,380	1,377	0.000%
JNLPPM America Floating Rate Income Fund	Ascend Learning, LLC	11/18/2028	8.85	Fixed Income	795,849	792,001	0.069%
JNLPPM America Floating Rate Income Fund	Solis IV BV	2/9/2029	8.57	Fixed Income	3,163,559	3,157,533	0.274%
JNLPPM America Floating Rate Income Fund	Solis IV BV	2/9/2029	8.57	Fixed Income	2,601,184	2,596,228	0.225%
JNLPPM America Floating Rate Income Fund	Olaplex, Inc.	2/17/2029	8.89	Fixed Income	4,913,922	4,665,300	0.405%
JNLPPM America Floating Rate Income Fund	Embecka Corp	1/27/2029	8.25	Fixed Income	466,571	454,229	0.039%
JNLPPM America Floating Rate Income Fund	ViaSat, Inc.	2/23/2029	9.75	Fixed Income	5,102,752	4,662,229	0.405%
JNLPPM America Floating Rate Income Fund	Hexion Holdings Corporation	3/2/2029	9.77	Fixed Income	1,530,785	1,534,285	0.133%
JNLPPM America Floating Rate Income Fund	Owens & Minor, Inc.	3/23/2029	9.00	Fixed Income	1,771,301	1,775,310	0.154%
JNLPPM America Floating Rate Income Fund	Cyclusdate Acquisition Holdings Inc	3/30/2029	8.42	Fixed Income	3,471,145	3,452,237	0.300%
JNLPPM America Floating Rate Income Fund	PMHC II, Inc.	2/3/2029	9.70	Fixed Income	4,264,616	4,252,075	0.369%
JNLPPM America Floating Rate Income Fund	Galaxy US Opco Inc.	4/19/2029	10.00	Fixed Income	399,566	340,896	0.030%
JNLPPM America Floating Rate Income Fund	Galaxy US Opco Inc.	4/19/2029	10.00	Fixed Income	829,794	707,540	0.061%
JNLPPM America Floating Rate Income Fund	St. George Warehousing & Trucking Co. of, CA, Inc.	3/24/2028	11.48	Fixed Income	4,482,556	1,973,664	0.171%
JNLPPM America Floating Rate Income Fund	St. George Warehousing & Trucking Co. of, CA, Inc.	3/24/2028	11.48	Fixed Income	977,444	430,367	0.037%
JNLPPM America Floating Rate Income Fund	Oscar AcquisitionCo, LLC	4/29/2029	9.58	Fixed Income	1,050,065	1,036,463	0.090%
JNLPPM America Floating Rate Income Fund	Spa Holdings 3 Oy	3/18/2028	9.30	Fixed Income	285,828	285,199	0.024%
JNLPPM America Floating Rate Income Fund	Solis IV BV	2/9/2029	8.57	Fixed Income	1,161,619	1,159,407	0.101%
JNLPPM America Floating Rate Income Fund	Solis IV BV	2/9/2029	8.57	Fixed Income	955,122	953,303	0.083%
JNLPPM America Floating Rate Income Fund	Ascend Resources - Utica, LLC	11/1/2026	7.00	Fixed Income	2,240,000	2,306,117	0.200%
JNLPPM America Floating Rate Income Fund	East and Crew Payroll, LLC	12/30/2028	9.00	Fixed Income	848,107	849,420	0.074%
JNLPPM America Floating Rate Income Fund	Eagle Parent Corp.	3/17/2029	9.58	Fixed Income	585,556	554,121	0.048%
JNLPPM America Floating Rate Income Fund	RVR Dealership Holdings, LLC	2/8/2028	9.10	Fixed Income	594,828	527,717	0.046%
JNLPPM America Floating Rate Income Fund	AI Group North America Corporation	10/13/2028	7.36	Fixed Income	761,793	763,966	0.066%
JNLPPM America Floating Rate Income Fund	Discovery Purchaser Corporation	12/31/2049	245,000	Fixed Income	245,000	243,708	0.021%
JNLPPM America Floating Rate Income Fund	Cardenas Markets, Inc.	7/20/2029	12.18	Fixed Income	631,940	622,662	0.054%
JNLPPM America Floating Rate Income Fund	Archkey Solutions LLC	6/30/2028	10.61	Fixed Income	341,657	342,109	0.030%
JNLPPM America Floating Rate Income Fund	888 Acquisitions Limited	7/1/2028	10.58	Fixed Income	3,782,723	3,687,678	0.320%
JNLPPM America Floating Rate Income Fund	Owens & Minor, Inc.	3/23/2029	9.10	Fixed Income	1,050,225	1,049,166	0.091%
JNLPPM America Floating Rate Income Fund	Discovery Purchaser Corporation	9/4/2029	9.69	Fixed Income	1,071,699	1,091,483	0.095%
JNLPPM America Floating Rate Income Fund	Covetrus, Inc.	9/21/2029	10.33	Fixed Income	5,602,623	5,299,503	0.460%
JNLPPM America Floating Rate Income Fund	Patagonia Holdco LLC	8/1/2029	10.85	Fixed Income	374,528	352,136	0.031%
JNLPPM America Floating Rate Income Fund	DSH Network Corporation	11/15/2027	11.75	Fixed Income	850,000	929,181	0.081%
JNLPPM America Floating Rate Income Fund	Aruba Investments Holdings, LLC	3/18/2027	9.35	Fixed Income	339,825	338,799	0.029%
JNLPPM America Floating Rate Income Fund	GVC Holdings (Gibraltar) Limited	10/18/2029	8.01	Fixed Income	4,376,637	4,556,991	0.396%
JNLPPM America Floating Rate Income Fund	GVC Holdings (Gibraltar) Limited	10/18/2029	8.01	Fixed Income	985,039	1,025,733	0.089%
JNLPPM America Floating Rate Income Fund	Delek US Holdings, Inc.	11/10/2029	8.85	Fixed Income	704,497	702,216	0.061%
JNLPPM America Floating Rate Income Fund	OG Investment Intermediate Holdings 2, Inc.	3/31/2028	8.31	Fixed Income	521,727	520,891	0.045%
JNLPPM America Floating Rate Income Fund	Neptune Bidco US Inc	4/11/2029	10.40	Fixed Income	3,181,207	3,105,368	0.270%
JNLPPM America Floating Rate Income Fund	Neptune Bidco US Inc	4/11/2029	10.40	Fixed Income	2,172,958	2,087,102	0.181%
JNLPPM America Floating Rate Income Fund	8th Avenue Food & Provisions, Inc.	9/19/2025	9.11	Fixed Income	1,953,368	1,888,324	0.164%
JNLPPM America Floating Rate Income Fund	Altice Financing SA	10/31/2027	10.30	Fixed Income	7,064,581	6,659,193	0.579%
JNLPPM America Floating Rate Income Fund	Altice Financing SA	10/31/2027	10.30	Fixed Income	1,406,568	1,306,097	0.113%
JNLPPM America Floating Rate Income Fund	Trineco Materials Operating S.C.A.	5/3/2028	7.82	Fixed Income	3,395,011	2,700,265	0.234%
JNLPPM America Floating Rate Income Fund	Trineco Materials Operating S.C.A.	5/3/2028	7.82	Fixed Income	725,148	576,758	0.050%
JNLPPM America Floating Rate Income Fund	CSC Holdings, LLC	7/1/2028	9.60	Fixed Income	1,491,203	1,442,956	0.124%
JNLPPM America Floating Rate Income Fund	Caesars Entertainment Inc.	2/15/2030	7.00	Fixed Income	165,000	173,880	0.015%
JNLPPM America Floating Rate Income Fund	Eastern Power, LLC	10/2/2025	10.50	Fixed Income	157,399	157,444	0.014%
JNLPPM America Floating Rate Income Fund	AFGlobal Corporation	3/2/2026	Equity	39,183	392	0.000%	
JNLPPM America Floating Rate Income Fund	Paragon Offshore Ltd.	7/1/2026	Equity	1,842	0	0.000%	
JNLPPM America Floating Rate Income Fund	Traverse Midstream Partners LLC	2/16/2028	8.75	Fixed Income	4,316,995	4,384,658	0.381%
JNLPPM America Floating Rate Income Fund	Traverse Midstream Partners LLC	2/16/2028	8.75	Fixed Income	1,326,922	1,347,720	0.117%
JNLPPM America Floating Rate Income Fund	Sigma Holdco B.V.	5/15/2026	7.88	Fixed Income	570,000	583,164	0.051%
JNLPPM America Floating Rate Income Fund	MPT Operating Partnership, L.P.	10/15/2027	6.80	Fixed Income	480,000	440,569	0.038%
JNLPPM America Floating Rate Income Fund	Nalgasoline LLC	10/31/2025	12.02	Fixed Income	479,609	482,260	0.042%
JNLPPM America Floating Rate Income Fund	CommScope, Inc.	2/7/2026	8.61	Fixed Income	729,468	705,773	0.061%
JNLPPM America Floating Rate Income Fund	Liberty Media Corporation	2/1/2030	8.25	Fixed Income	1,500,000	797,845	0.069%
JNLPPM America Floating Rate Income Fund	Clear Channel Outdoor Holdings, Inc.	Equity	112,487	Fixed Income	179,879	179,879	0.016%
JNLPPM America Floating Rate Income Fund	Eia Australia Holdings & Pty Ltd	3/8/2026	9.25	Fixed Income	2,743,229	2,707,128	0.235%
JNLPPM America Floating Rate Income Fund	CCO Holdings, LLC	6/1/2029	5.38	Fixed Income	1,408,000	1,381,432	0.120%
JNLPPM America Floating Rate Income Fund	PCI Gaming Authority	5/15/2026	6.96	Fixed Income	1,144,713	1,113,977	0.010%
JNLPPM America Floating Rate Income Fund	Vistra Operations Company LLC	12/11/2025	7.25	Fixed Income	1,042,125	1,042,146	0.090%
JNLPPM America Floating Rate Income Fund	Regis 170Co Corporation	7/25/2028	6.58	Fixed Income	885,943	886,338	0.076%
JNLPPM America Floating Rate Income Fund	DCert Buyer, Inc.	7/31/2026	9.25	Fixed Income	4,263,247	4,131,750	0.359%
JNLPPM America Floating Rate Income Fund	DCert Buyer, Inc.	7/31/2026	9.25	Fixed Income	2,300,586	2,229,626	0.194%
JNLPPM America Floating Rate Income Fund	Virgin Media Bristol LLC	10/3/2027	7.71	Fixed Income	1,000,000	959,043	0.083%
JNLPPM America Floating Rate Income Fund	LCPR Senior Secured Financing Designated Activity Company	10/15/2027	6.75	Fixed Income	1,564,000	1,478,106	0.128%
JNLPPM America Floating Rate Income Fund	LCPR Senior Secured Financing Designated Activity Company	10/15/2027	6.75	Fixed Income	500,000	472,550	0.041%
JNLPPM America Floating Rate Income Fund	Charter Communications Operating, LLC	2/1/2027	7.08	Fixed Income	711,405	727,071	0.063%
JNLPPM America Floating Rate Income Fund	Travis Union, LLC	11/3/2026	7.10	Fixed Income	977,102	976,405	0.085%
JNLPPM America Floating Rate Income Fund	Teleast Canada	11/22/2028	8.07	Fixed Income	3,000,000	3,499,100	0.296%
JNLPPM America Floating Rate Income Fund	CMG Media Corporation	12/15/2027	8.88	Fixed Income	1,132,000	701,547	0.061%
JNLPPM America Floating Rate Income Fund	Coral-US Co-Borrower, LLC	1/22/2028	7.46	Fixed Income	1,500,000	1,485,703	0.129%
JNLPPM America Floating Rate Income Fund	Cushman & Wakefield U.S. Borrower, LLC	8/15/2025	8.11	Fixed Income	12,815	12,810	0.001%
JNLPPM America Floating Rate Income Fund	United IP Holdings, LLC	12/30/2026	9.51	Fixed Income	976,944	985,145	0.079%
JNLPPM America Floating Rate Income Fund	Zavo Group Holdings, Inc.	2/20/2027	8.36	Fixed Income	2,910,000	2,654,215	0.230%
JNLPPM America Floating Rate Income Fund	Constellis Holdings, Inc.	Equity	20,682	Fixed Income	1,096	0.000%	
JNLPPM America Floating Rate Income Fund	DaVita Inc.	6/1/2030	4.63	Fixed Income	750,000	725,377	0.063%
JNLPPM America Floating Rate Income Fund	Citgo Petroleum Corporation	6/15/2025	7.00	Fixed Income	120,000	122,480	0.010%
JNLPPM America Floating Rate Income Fund	Univision Communications Inc.	6/1/2027	6.63	Fixed Income	260,000	266,533	0.023%
JNLPPM America Floating Rate Income Fund	CCO Holdings, LLC	2/1/2031	4.25	Fixed Income	2,500,000	2,225,631	0.193%
JNLPPM America Floating Rate Income Fund	DaVita Inc.	2/15/2031	3.75	Fixed Income	1,625,000	1,471,895	0.128%
JNLPPM America Floating Rate Income Fund	Virgin Media Bristol LLC	12/31/2049	Fixed Income	4,500,000	4,300,020	0.373%	
JNLPPM America Floating Rate Income Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	1,500,000	1,528,523	0.133%
JNLPPM America Floating Rate Income Fund	PM General Purchaser LLC	10/1/2028	9.50	Fixed Income	2,309,000	2,423,392	0.210%
JNLPPM America Floating Rate Income Fund	Windstream Services, LLC	8/24/2027	11.60	Fixed Income	976,654	975,327	0.085%
JNLPPM America Floating Rate Income Fund	Gainwell Acquisition Corp.	8/17/2027	9.43	Fixed Income	5,320,865	5,053,873	0.439%
JNLPPM America Floating Rate Income Fund	Gainwell Acquisition Corp.	8/17/2027	9.43	Fixed Income	2,886,588	2,751,240	0.236%
JNLPPM America Floating Rate Income Fund	WH Borrower, LLC	2/15/2027	10.79	Fixed Income	481,663	492,360	0.043%
JNLPPM America Floating Rate Income Fund	iHeartMedia, Inc.	Equity	47,837	Fixed Income	88,498	0.008%	
JNLPPM America Floating Rate Income Fund	Alliant Holdings Intermediate, LLC	4/15/2028	6.75	Fixed Income	365,000	382,224	0.033%
JNLPPM America Floating Rate Income Fund	Caesars Entertainment Inc.	1/25/2030	8.00	Fixed Income	8,224,868	8,218,872	0.714%
JNLPPM America Floating Rate Income Fund	Caesars Entertainment Inc.	1/25/2030	8.00	Fixed Income	2,764,125	2,762,110	0.240%
JNLPPM America Floating Rate Income Fund	Cushman & Wakefield LLC	1/31/2030	8.25	Fixed Income	523,601	523,066	0.045%
JNLPPM America Floating Rate Income Fund	Altice France S.A.	8/31/2028	10.80	Fixed Income	3,003,037	2,313,815	0.201%
JNLPPM America Floating Rate Income Fund	Altice France S.A.	8/31/2028	10.80	Fixed Income	3,983,106	2,999,605	0.260%
JNLPPM America Floating Rate Income Fund	Asurion LLC	8/19/2028	9.60	Fixed Income	1,438,890	1,416,394	0.123%
JNLPPM America Floating Rate Income Fund	Sedgwick Claims Management Services, Inc.	2/16/2028	8.25	Fixed Income	4,726,736	4,736,277	0.415%
JNLPPM America Floating Rate Income Fund	Sedgwick Claims Management Services, Inc.	2/16/2028	8.25	Fixed Income	551,997	557,685	0.048%
JNLPPM America Floating Rate Income Fund	NEOS US Finance LLC	2/9/2030	9.50	Fixed Income	5,391,325	5,391,325	0.468%
JNLPPM America Floating Rate Income Fund	Rand Parent, LLC	2/9/2030	9.07	Fixed Income	3,122,669	3,125,374	0.271%
JNLPPM America Floating Rate Income Fund	Rand Parent, LLC	2/9/2030	9.07	Fixed Income	470,785	471,158	0.041%
JNLPPM America Floating Rate Income Fund	INEOS Quattro Holdings UK Ltd	3/1/2030</					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Floating Rate Income Fund	Univision Communications Inc.	8/15/2028	8.00	Fixed Income	170,000	175,599	0.015%
JNLPPM America Floating Rate Income Fund	Brand Industrial Services, Inc.	8/10/2030	10.38	Fixed Income	125,000	125,000	0.012%
JNLPPM America Floating Rate Income Fund	Arsenal AIC Parent LLC	10/1/2030	8.00	Fixed Income	20,000	22,267	0.002%
JNLPPM America Floating Rate Income Fund	First Brands Group, LLC	3/30/2027	10.51	Fixed Income	5,286,252	5,318,757	0.462%
JNLPPM America Floating Rate Income Fund	FinCo I LLC	6/27/2028	8.26	Fixed Income	227,700	231,227	0.020%
JNLPPM America Floating Rate Income Fund	Open Text Corporation	1/31/2030	7.50	Fixed Income	3,971,081	3,984,730	0.346%
JNLPPM America Floating Rate Income Fund	Open Text Corporation	1/31/2030	7.50	Fixed Income	825,654	829,489	0.072%
JNLPPM America Floating Rate Income Fund	Chemours Company (The)	8/10/2028	8.75	Fixed Income	1,469,092	1,468,052	0.127%
JNLPPM America Floating Rate Income Fund	First Brands Group, LLC	3/30/2028	14.01	Fixed Income	2,558,140	2,479,182	0.215%
JNLPPM America Floating Rate Income Fund	Tenneco, Inc.	11/17/2028	10.23	Fixed Income	6,730,993	6,463,929	0.561%
JNLPPM America Floating Rate Income Fund	Generation Bridge Northeast, LLC	8/30/2029	8.75	Fixed Income	312,941	312,014	0.027%
JNLPPM America Floating Rate Income Fund	Tenneco, Inc.	11/17/2028	10.43	Fixed Income	19,007	18,031	0.002%
JNLPPM America Floating Rate Income Fund	NorthRiver Midstream Finance LP	8/10/2030	7.83	Fixed Income	4,043,160	4,122,058	0.358%
JNLPPM America Floating Rate Income Fund	LSF12 Badger Bidco LLC	7/25/2030	11.25	Fixed Income	4,427,170	4,240,349	0.368%
JNLPPM America Floating Rate Income Fund	Macquarie Airfinance Holdings Limited	3/30/2029	8.13	Fixed Income	1,100,000	1,164,843	0.101%
JNLPPM America Floating Rate Income Fund	Cigco Petroleum Corporation	1/15/2029	8.38	Fixed Income	400,000	423,253	0.037%
JNLPPM America Floating Rate Income Fund	Virgin Media Bristol LLC	3/6/2031	8.66	Fixed Income	820,000	815,512	0.071%
JNLPPM America Floating Rate Income Fund	CPM Holdings, Inc.	8/18/2028	9.70	Fixed Income	158,800	151,576	0.013%
JNLPPM America Floating Rate Income Fund	Star Parent, Inc.	9/19/2030	9.08	Fixed Income	4,975,000	4,834,375	0.420%
JNLPPM America Floating Rate Income Fund	NCR Atleos LLC	9/22/2030	10.10	Fixed Income	752,020	771,714	0.067%
JNLPPM America Floating Rate Income Fund	Fugue Finance B.V.	1/31/2028	9.06	Fixed Income	320,935	324,951	0.028%
JNLPPM America Floating Rate Income Fund	Pretium Packaging, LLC	10/1/2028	10.25	Fixed Income	876,831	906,296	0.079%
JNLPPM America Floating Rate Income Fund	DXP Enterprises, Inc.	10/6/2030	10.16	Fixed Income	227,700	231,810	0.020%
JNLPPM America Floating Rate Income Fund	Heritage-Crystal Clean, Inc.	10/5/2030	9.46	Fixed Income	4,204,230	4,220,678	0.366%
JNLPPM America Floating Rate Income Fund	Century DE Buyer LLC	9/27/2030	9.26	Fixed Income	500,980	506,922	0.044%
JNLPPM America Floating Rate Income Fund	North Fortress Energy Inc	10/26/2030	10.25	Fixed Income	1,463,938	1,346,076	0.117%
JNLPPM America Floating Rate Income Fund	GIP II Sertson I, L.P.	10/5/2028	8.75	Fixed Income	444,748	444,135	0.039%
JNLPPM America Floating Rate Income Fund	B/S Wholesale Club, Inc.	2/3/2029	6.96	Fixed Income	226,667	228,469	0.020%
JNLPPM America Floating Rate Income Fund	Bombardier Recreational Products, Inc.	12/13/2029	8.00	Fixed Income	545,329	543,983	0.047%
JNLPPM America Floating Rate Income Fund	Smyrna Ready Mix Concrete, LLC	11/15/2031	8.88	Fixed Income	1,000,000	1,112,446	0.097%
JNLPPM America Floating Rate Income Fund	Smyrna Ready Mix Concrete, LLC	11/15/2031	8.88	Fixed Income	330,000	367,107	0.032%
JNLPPM America Floating Rate Income Fund	Owl Rock CLO XIV, L.P.	10/22/2035	7.68	Fixed Income	2,083,000	2,133,520	0.185%
JNLPPM America Floating Rate Income Fund	EG Global Finance PLC	11/30/2028	12.00	Fixed Income	575,000	664,461	0.058%
JNLPPM America Floating Rate Income Fund	ClubCorp Holdings, Inc.	10/1/2028	10.60	Fixed Income	569,039	569,502	0.049%
JNLPPM America Floating Rate Income Fund	ViaSat, Inc.	9/30/2030	9.73	Fixed Income	3,168,000	2,895,219	0.251%
JNLPPM America Floating Rate Income Fund	Domtar Corporation	11/30/2030	10.88	Fixed Income	4,586,171	4,372,404	0.380%
JNLPPM America Floating Rate Income Fund	Pretium Packaging, LLC	10/1/2028	9.85	Fixed Income	3,244,967	2,640,626	0.229%
JNLPPM America Floating Rate Income Fund	Ciena Corporation	10/24/2030	6.96	Fixed Income	133,318	133,668	0.012%
JNLPPM America Floating Rate Income Fund	Calpine Construction Finance Company, L.P.	7/20/2030	7.25	Fixed Income	1,524,391	1,514,102	0.131%
JNLPPM America Floating Rate Income Fund	Calpine Construction Finance Company, L.P.	7/20/2030	7.25	Fixed Income	275,000	273,144	0.024%
JNLPPM America Floating Rate Income Fund	INEOS Quattro Holdings UK Ltd	3/9/2029	9.60	Fixed Income	2,985,000	2,983,912	0.259%
JNLPPM America Floating Rate Income Fund	Hertz Corporation, (The)	6/30/2028	8.71	Fixed Income	273,050	243,947	0.021%
JNLPPM America Floating Rate Income Fund	Smyrna Ready Mix Concrete, LLC	4/2/2029	8.35	Fixed Income	1,914,512	1,926,510	0.167%
JNLPPM America Floating Rate Income Fund	Smyrna Ready Mix Concrete, LLC	4/2/2029	8.35	Fixed Income	218,903	218,243	0.019%
JNLPPM America Floating Rate Income Fund	American Airlines, Inc.	5/29/2029	7.21	Fixed Income	1,000,000	997,016	0.087%
JNLPPM America Floating Rate Income Fund	American Airlines, Inc.	5/29/2029	7.21	Fixed Income	405,000	403,792	0.035%
JNLPPM America Floating Rate Income Fund	TransDigm, Inc.	2/28/2031	7.84	Fixed Income	10,810,854	10,767,803	0.935%
JNLPPM America Floating Rate Income Fund	EG Group Limited	3/7/2028	11.07	Fixed Income	4,267,750	4,280,129	0.370%
JNLPPM America Floating Rate Income Fund	EG Group Limited	2/7/2028	11.07	Fixed Income	1,142,759	1,140,719	0.099%
JNLPPM America Floating Rate Income Fund	Flutter Financing B.V.	11/18/2030	7.33	Fixed Income	1,407,365	1,407,117	0.122%
JNLPPM America Floating Rate Income Fund	Flutter Financing B.V.	11/18/2030	7.33	Fixed Income	669,441	669,323	0.058%
JNLPPM America Floating Rate Income Fund	NEOS Enterprises Holdings US Firco LLC	6/23/2030	8.75	Fixed Income	1,219,454	1,219,401	0.107%
JNLPPM America Floating Rate Income Fund	Amneal Pharmaceuticals LLC	5/4/2028	10.75	Fixed Income	4,245,547	4,291,006	0.373%
JNLPPM America Floating Rate Income Fund	BIP PipeCo Holdings LLC	12/5/2030	7.82	Fixed Income	1,112,213	1,132,078	0.098%
JNLPPM America Floating Rate Income Fund	Northeast Grocery, Inc.	12/5/2028	12.60	Fixed Income	318,906	324,039	0.028%
JNLPPM America Floating Rate Income Fund	Avis Budget Car Rental, LLC	3/16/2029	8.35	Fixed Income	180,037	179,965	0.016%
JNLPPM America Floating Rate Income Fund	Chobani, LLC	10/25/2027	9.09	Fixed Income	1,956,218	1,961,086	0.170%
JNLPPM America Floating Rate Income Fund	Chobani, LLC	10/25/2027	9.09	Fixed Income	208,425	208,944	0.018%
JNLPPM America Floating Rate Income Fund	Acros Golf LLC	11/24/2028	9.11	Fixed Income	345,971	346,775	0.030%
JNLPPM America Floating Rate Income Fund	Catalent Pharma Solutions Inc.	2/22/2028	7.92	Fixed Income	2,992,500	2,997,767	0.260%
JNLPPM America Floating Rate Income Fund	Conard Air Corporation	9/20/2030	9.26	Fixed Income	738,467	744,851	0.065%
JNLPPM America Floating Rate Income Fund	ADM Corp.	12/23/2027	11.00	Fixed Income	681,907	681,467	0.059%
JNLPPM America Floating Rate Income Fund	Iron Mountain, Inc.	1/31/2031	7.25	Fixed Income	992,500	985,245	0.086%
JNLPPM America Floating Rate Income Fund	Arthur US Firco Inc.	11/8/2030	10.58	Fixed Income	477,600	449,552	0.039%
JNLPPM America Floating Rate Income Fund	Direct TV Financing, LLC	9/22/2029	10.81	Fixed Income	3,031,627	3,342,028	0.291%
JNLPPM America Floating Rate Income Fund	Hilton Grand Vacations Borrower LLC	10/1/2031	7.50	Fixed Income	1,658,333	1,644,149	0.143%
JNLPPM America Floating Rate Income Fund	Hilton Grand Vacations Borrower LLC	10/1/2031	7.50	Fixed Income	477,600	473,515	0.041%
JNLPPM America Floating Rate Income Fund	WH Borrower, LLC	2/15/2027	10.79	Fixed Income	331,943	339,320	0.029%
JNLPPM America Floating Rate Income Fund	Chatter NEX US, Inc.	10/1/2027	8.17	Fixed Income	681,417	681,103	0.059%
JNLPPM America Floating Rate Income Fund	SBA Senior Finance II LLC	1/20/2031	7.25	Fixed Income	353,225	353,373	0.031%
JNLPPM America Floating Rate Income Fund	BCPE Empire Holdings, Inc.	12/25/2028	9.25	Fixed Income	1,320,508	1,320,674	0.115%
JNLPPM America Floating Rate Income Fund	WEC US Holdings Ltd	1/20/2031	8.00	Fixed Income	1,655,000	1,654,373	0.144%
JNLPPM America Floating Rate Income Fund	Westlab Loyalty LP	2/1/2031	9.08	Fixed Income	2,498,429	2,498,429	0.218%
JNLPPM America Floating Rate Income Fund	Helios Software Holdings, Inc.	7/15/2030	9.08	Fixed Income	4,400,222	4,375,106	0.380%
JNLPPM America Floating Rate Income Fund	Helios Software Holdings, Inc.	7/15/2030	9.08	Fixed Income	242,852	241,466	0.021%
JNLPPM America Floating Rate Income Fund	Dave & Buster's, Inc.	6/29/2029	8.53	Fixed Income	397,005	395,276	0.034%
JNLPPM America Floating Rate Income Fund	UKG Inc.	1/30/2031	8.55	Fixed Income	2,291,963	2,291,185	0.202%
JNLPPM America Floating Rate Income Fund	UKG Inc.	1/30/2031	8.55	Fixed Income	3,399,556	3,466,773	0.301%
JNLPPM America Floating Rate Income Fund	Belron Finance US LLC	4/18/2029	7.63	Fixed Income	123,750	125,665	0.011%
JNLPPM America Floating Rate Income Fund	Autokinon US Holdings, Inc.	4/6/2028	9.36	Fixed Income	4,618,453	4,616,000	0.401%
JNLPPM America Floating Rate Income Fund	Carnell U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	622,229	621,115	0.054%
JNLPPM America Floating Rate Income Fund	Applied Systems, Inc.	2/7/2031	8.29	Fixed Income	903,498	903,026	0.078%
JNLPPM America Floating Rate Income Fund	AssuredPartners, Inc.	12/31/2049		Fixed Income	1,018,000	1,016,799	0.088%
JNLPPM America Floating Rate Income Fund	Chamberlain Group Inc	11/3/2028	8.75	Fixed Income	663,334	661,590	0.057%
JNLPPM America Floating Rate Income Fund	Jane Street Group, LLC	12/6/2028	7.86	Fixed Income	4,913,422	4,908,838	0.426%
JNLPPM America Floating Rate Income Fund	Jane Street Group, LLC	12/6/2028	7.86	Fixed Income	432,758	432,758	0.038%
JNLPPM America Floating Rate Income Fund	Citadel Securities LP	7/29/2030	7.50	Fixed Income	2,794,780	2,792,787	0.242%
JNLPPM America Floating Rate Income Fund	Touchdown Acquirer Inc.	2/7/2031	9.10	Fixed Income	74,551	75,160	0.007%
JNLPPM America Floating Rate Income Fund	Cassars Entertainment Inc.	12/4/2031	8.00	Fixed Income	1,159,175	1,157,971	0.101%
JNLPPM America Floating Rate Income Fund	Cine & Mann LP	2/5/2031	9.58	Fixed Income	233,825	234,126	0.020%
JNLPPM America Floating Rate Income Fund	Renaissance Holding Corp.	4/8/2030	9.50	Fixed Income	965,268	964,528	0.084%
JNLPPM America Floating Rate Income Fund	Fiesta Purchaser, Inc.	1/31/2031	9.25	Fixed Income	332,254	332,519	0.029%
JNLPPM America Floating Rate Income Fund	Primary Products Finance LLC	4/2/2029	8.97	Fixed Income	5,890,376	6,011,663	0.522%
JNLPPM America Floating Rate Income Fund	Primary Products Finance LLC	4/2/2029	8.97	Fixed Income	659,487	659,487	0.058%
JNLPPM America Floating Rate Income Fund	Wood Mackenzie Limited	2/1/2031	8.60	Fixed Income	493,763	500,526	0.043%
JNLPPM America Floating Rate Income Fund	Carnell U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	12,329	12,306	0.001%
JNLPPM America Floating Rate Income Fund	Covanta Holding Corporation	11/30/2028	6.85	Fixed Income	20,160	20,230	0.002%
JNLPPM America Floating Rate Income Fund	Covanta Holding Corporation	11/30/2028	7.05	Fixed Income	368,011	369,294	0.032%
JNLPPM America Floating Rate Income Fund	Carnell U.S. Acquisition LLC	1/31/2031	8.00	Fixed Income	145,042	144,782	0.013%
JNLPPM America Floating Rate Income Fund	Fitness International, LLC	1/30/2029	10.51	Fixed Income	313,425	318,019	0.028%
JNLPPM America Floating Rate Income Fund	Ensemble RCM, LLC	8/1/2029	8.25	Fixed Income	2,320,170	2,354,990	0.204%
JNLPPM America Floating Rate Income Fund	Ensemble RCM, LLC	8/1/2029	8.25	Fixed Income	1,396,000	1,416,855	0.123%
JNLPPM America Floating Rate Income Fund	NGL Energy Partners LP	1/25/2031	9.00	Fixed Income	4,604,860	4,577,179	0.397%
JNLPPM America Floating Rate Income Fund	Adient US LLC	1/31/2031	8.03	Fixed Income	5,107,305	5,109,812	0.444%
JNLPPM America Floating Rate Income Fund	OMNIA Partners LLC	7/25/2030	8.53	Fixed Income	883,050	898,798	0.078%
JNLPPM America Floating Rate Income Fund	Consolidated Energy Finance, S.A.	11/7/2030	9.56	Fixed Income	739,038	739,348	0.064%
JNLPPM America Floating Rate Income Fund	Recess Services, LLC	2/7/2031	9.83	Fixed Income	663,488	663,088	0.057%
JNLPPM America Floating Rate Income Fund	Recess Holdings, Inc.	2/14/2030	9.75	Fixed Income	339,148	346,343	0.030%
JNLPPM America Floating Rate Income Fund	GenesisCO Service Holdings II LLC	9/30/2027	9.11	Fixed Income	1,530,810	1,530,879	0.133%
JNLPPM America Floating Rate Income Fund	Amer Sports Corporation	12/1/2031	8.60	Fixed Income	831,000	842,402	0.072%
JNLPPM America Floating Rate Income Fund	United Airlines, Inc.	2/15/2031	8.03	Fixed Income	2,886,765	2,932,108	0.258%
JNLPPM America Floating Rate Income Fund	United Airlines, Inc.	2/15/2031	8.03	Fixed Income	758,100	770,008	0.067%
JNLPPM America Floating Rate Income Fund	Crocs, Inc.	2/20/2029	7.58	Fixed Income	939,850	942,989	0.082%
JNLPPM America Floating Rate Income Fund	Phoenix Guarantor Inc	2/13/2031	8.50	Fixed Income	4,256,615	4,244,036	0.368%
JNLPPM America Floating Rate Income Fund	Phoenix Guarantor Inc	2/13/2031	8.50	Fixed Income	472,825	471,228	0.041%
JNLPPM America Floating Rate Income Fund	AssuredPartners, Inc.	2/15/2027	8.75	Fixed Income	2,967,090	2,964,277	0.257%
JNLPPM America Floating Rate Income Fund	AssuredPartners, Inc.	2/15/2027	8.75	Fixed Income	1,089,525	1,088,492	0.095%
JNLPPM America Floating Rate Income Fund	Medallion Midland Acquisition, LLC	10/18/2028	8.31	Fixed Income	2,645,970	2,652,705	0.230%
JNLPPM America Floating Rate Income Fund	Foundation Building Materials Holding Company LLC	1/25/2031	9.25	Fixed Income	6,317,663	6,144,098	0.533%
JNLPPM America Floating Rate Income Fund	Foundation Building Materials Holding Company LLC	1/25/2031	9.25	Fixed Income	1,125,011	1,094,103	0.095%
JNLPPM America Floating Rate Income Fund	Cleveland-Cliffs Inc.	3/15/2032	7.00	Fixed Income	2,028,000	2,056,847	0.179%
JNLPPM America Floating Rate Income Fund	Clear Channel Outdoor Holdings, Inc.	12/31/2049		Fixed Income	20,778	1,770	0.000%
JNLPPM America Floating Rate Income Fund	Frito Bata Holdings, Inc.	3/31/2028	9.34	Fixed Income	965,000	969,296	0.084%
JNLPPM America Floating Rate Income Fund	Dayforce, Inc.	2/16/2031	7.75	Fixed Income	314,213	313,491	0.027%
JNLPPM America Floating Rate Income Fund	Sophia, L.P.	10/7/2029	8.85	Fixed Income	1,612,647	1,616,299	0.140%
JNLPPM America Floating Rate Income Fund	Whitewater DBR HoldCo, LLC	2/16/2031	8.08	Fixed Income	3,083,000	3,076,878	0.267%
JNLPPM America Floating Rate Income Fund	Eagle Parent Corp.	3/17/2029	8.75	Fixed Income	55,791	57,783	0.005%
JNLPPM America Floating Rate Income Fund	Vestas Corporation	2/18/2031	7.37	Fixed Income	349,125	349,366	0.030%
JNLPPM America Floating Rate Income Fund	Securus Technologies Holdings, Inc.	11/1/2025	14.50	Fixed Income	424,497	108,409	0.009%
JNLPPM America Floating Rate Income Fund	Prairie ECI Acquirer LP	2/22/2029	10.00	Fixed Income	253,725	253,158	0.022%
JNLPPM America Floating Rate Income Fund	Adversor Group, Inc.	8/16/2028	9.56	Fixed Income	5,028,153	4,97	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Floating Rate Income Fund	Clear Channel Outdoor Holdings, Inc.	8/20/2028	9.36	Fixed Income	4,888,222	4,867,637	0.423%
JNLPPM America Floating Rate Income Fund	Applwin Corporation	10/25/2028	7.75	Fixed Income	2,068,447	2,067,403	0.180%
JNLPPM America Floating Rate Income Fund	Connect Finco Sarl	9/11/2029	9.75	Fixed Income	4,061,022	3,801,156	0.330%
JNLPPM America Floating Rate Income Fund	Connect Finco Sarl	9/11/2029	9.75	Fixed Income	113,133	105,894	0.009%
JNLPPM America Floating Rate Income Fund	Visira Zero Operating Company, LLC	3/20/2031	8.00	Fixed Income	3,887,963	3,897,531	0.338%
JNLPPM America Floating Rate Income Fund	IAW Incorporated	7/22/2029	7.75	Fixed Income	844,696	844,001	0.008%
JNLPPM America Floating Rate Income Fund	Particde Investments S.a.r.l.	3/19/2031	9.25	Fixed Income	118,405	118,285	0.010%
JNLPPM America Floating Rate Income Fund	Kodiak Building Partners Inc.	3/12/2028	9.08	Fixed Income	169,150	169,402	0.015%
JNLPPM America Floating Rate Income Fund	Genesys Cloud Services Holdings II LLC	12/1/2027	8.75	Fixed Income	500,916	501,573	0.044%
JNLPPM America Floating Rate Income Fund	Roadway Partners, LLC	1/31/2029	10.38	Fixed Income	3,797,537	3,753,561	0.326%
JNLPPM America Floating Rate Income Fund	Chromalloy Corporation	3/21/2031	9.08	Fixed Income	399,225	299,886	0.026%
JNLPPM America Floating Rate Income Fund	Radiology Partners Inc.	1/31/2029	10.38	Fixed Income	38,958	38,508	0.003%
JNLPPM America Floating Rate Income Fund	Aventiv Technologies, LLC	7/31/2025	13.10	Fixed Income	180,141	180,653	0.016%
JNLPPM America Floating Rate Income Fund	Aventiv Technologies, LLC	7/31/2025	13.10	Fixed Income	26,361	26,436	0.002%
JNLPPM America Floating Rate Income Fund	Avantor Funding, Inc.	11/8/2027	7.35	Fixed Income	288,228	290,749	0.025%
JNLPPM America Floating Rate Income Fund	TK Elevator US Newco Inc	4/11/2030	8.59	Fixed Income	190,834	193,982	0.017%
JNLPPM America Floating Rate Income Fund	Titan Acquisition Limited	2/1/2029	10.33	Fixed Income	5,541,830	5,705,513	0.495%
JNLPPM America Floating Rate Income Fund	TK Elevator US Newco Inc	4/11/2030	8.59	Fixed Income	109,620	111,428	0.010%
JNLPPM America Floating Rate Income Fund	Avent Corporation	8/29/2029	7.32	Fixed Income	440,558	448,716	0.039%
JNLPPM America Floating Rate Income Fund	VS Buyer, LLC	4/4/2031	8.35	Fixed Income	454,120	455,512	0.040%
JNLPPM America Floating Rate Income Fund	Epic Y-Grade Services, LP	6/29/2029	11.07	Fixed Income	720,000	736,477	0.064%
JNLPPM America Floating Rate Income Fund	MED ParentCo LP	4/5/2031	9.25	Fixed Income	1,087,005	1,087,794	0.094%
JNLPPM America Floating Rate Income Fund	Brand Industrial Services Inc.	4/1/2029	8.75	Fixed Income	220,000	220,749	0.019%
JNLPPM America Floating Rate Income Fund	Medline Borrower, LP	10/23/2028	8.00	Fixed Income	4,256,021	4,256,494	0.370%
JNLPPM America Floating Rate Income Fund	Medline Borrower, LP	10/23/2028	8.00	Fixed Income	2,234,808	2,235,056	0.194%
JNLPPM America Floating Rate Income Fund	Adventure Sales & Marketing, Inc.	10/28/2027	9.83	Fixed Income	546,820	544,465	0.047%
JNLPPM America Floating Rate Income Fund	Geo Group, Inc. (The)	4/4/2029	8.75	Fixed Income	373,751	379,461	0.033%
JNLPPM America Floating Rate Income Fund	Crocs, Inc.	2/20/2029	7.50	Fixed Income	140,977	141,447	0.012%
JNLPPM America Floating Rate Income Fund	Par Petroleum, LLC	2/28/2030	9.06	Fixed Income	336,109	343,373	0.030%
JNLPPM America Floating Rate Income Fund	Fiesta Purchaser, Inc.	1/31/2031	9.25	Fixed Income	273,233	271,451	0.024%
JNLPPM America Floating Rate Income Fund	Kansen Corporation	3/27/2031	8.63	Fixed Income	340,000	341,969	0.030%
JNLPPM America Floating Rate Income Fund	Ende Luxembourg Finance Company I S.A.r.l.	4/22/2031	9.78	Fixed Income	550,000	556,658	0.049%
JNLPPM America Floating Rate Income Fund	Vantage Drilling International			Equity	498	14,442	0.001%
JNLPPM America Floating Rate Income Fund	Quikrete Holdings, Inc.	3/18/2031	7.75	Fixed Income	3,382,391	3,383,082	0.294%
JNLPPM America Floating Rate Income Fund	Carnival Corporation	10/18/2028	8.00	Fixed Income	3,444,495	3,447,392	0.299%
JNLPPM America Floating Rate Income Fund	Carlport Corporation	10/18/2028	8.00	Fixed Income	760,109	760,508	0.067%
JNLPPM America Floating Rate Income Fund	LifePoint Health, Inc.	11/16/2028	10.05	Fixed Income	5,969,604	6,094,712	0.529%
JNLPPM America Floating Rate Income Fund	Koppers Inc.	4/10/2030	8.10	Fixed Income	415,916	418,360	0.036%
JNLPPM America Floating Rate Income Fund	SupplyOne, Inc.	3/27/2031	9.50	Fixed Income	169,150	169,475	0.015%
JNLPPM America Floating Rate Income Fund	LC Atlat US Bidco LLC	41/40/2031	8.75	Fixed Income	220,000	220,749	0.019%
JNLPPM America Floating Rate Income Fund	Fitness International, LLC	1/30/2029	10.50	Fixed Income	788	785	0.000%
JNLPPM America Floating Rate Income Fund	Foundation Building Materials Holding Company LLC	1/25/2031	9.25	Fixed Income	15,874	15,437	0.001%
JNLPPM America Floating Rate Income Fund	Foundation Building Materials Holding Company LLC	1/25/2031	9.25	Fixed Income	8,827	2,749	0.000%
JNLPPM America Floating Rate Income Fund	Brook Holdings II, Inc.	5/1/2030	11.33	Fixed Income	220,000	221,461	0.019%
JNLPPM America Floating Rate Income Fund	Alterra Mountain Company	5/31/2030	8.75	Fixed Income	430,658	431,654	0.037%
JNLPPM America Floating Rate Income Fund	Particde Investments S.a.r.l.	3/19/2031	9.25	Fixed Income	50,745	50,821	0.004%
JNLPPM America Floating Rate Income Fund	Freedom Mortgage Corporation	5/15/2031	9.13	Fixed Income	2,000,000	2,125,625	0.185%
JNLPPM America Floating Rate Income Fund	Rocket Software, Inc.	11/28/2028	11.00	Fixed Income	4,874,816	4,977,245	0.432%
JNLPPM America Floating Rate Income Fund	Genesee & Wyoming Inc. (New)	3/27/2031	7.33	Fixed Income	610,000	608,587	0.053%
JNLPPM America Floating Rate Income Fund	Colviti Corporation	2/21/2031	8.45	Fixed Income	3,655,630	3,675,146	0.319%
JNLPPM America Floating Rate Income Fund	Colviti Corporation	2/21/2031	8.45	Fixed Income	1,383,050	1,390,434	0.121%
JNLPPM America Floating Rate Income Fund	Colviti Corporation	2/21/2031	7.63	Fixed Income	230,000	239,461	0.020%
JNLPPM America Floating Rate Income Fund	Modena Buyer LLC	4/3/2031	9.83	Fixed Income	1,685,000	1,609,955	0.140%
JNLPPM America Floating Rate Income Fund	Trust Insurance Holdings LLC	3/8/2032	10.08	Fixed Income	1,140,000	1,157,396	0.100%
JNLPPM America Floating Rate Income Fund	Trust Insurance Holdings LLC	3/21/2031	8.58	Fixed Income	1,335,000	1,331,954	0.116%
JNLPPM America Floating Rate Income Fund	Delta TopCo, Inc.	12/24/2029	8.20	Fixed Income	4,387,431	4,384,361	0.381%
JNLPPM America Floating Rate Income Fund	Janus International Group, LLC	9/22/2030	7.75	Fixed Income	177,156	176,881	0.015%
JNLPPM America Floating Rate Income Fund	Organo & Co	5/14/2031	7.46	Fixed Income	706,565	705,673	0.061%
JNLPPM America Floating Rate Income Fund	Kohler Energy Co LLC	1/30/2031	10.08	Fixed Income	3,758,697	3,792,562	0.329%
JNLPPM America Floating Rate Income Fund	Berlin Packaging LLC	5/9/2031	8.81	Fixed Income	1,312,855	1,319,624	0.115%
JNLPPM America Floating Rate Income Fund	SS&C Technologies Inc.	5/9/2031	7.25	Fixed Income	2,056,460	2,056,500	0.179%
JNLPPM America Floating Rate Income Fund	SS&C Technologies Inc.	5/9/2031	7.25	Fixed Income	1,045,578	1,045,599	0.091%
JNLPPM America Floating Rate Income Fund	Waterbridge Midstream Operating LLC	5/7/2029	9.60	Fixed Income	2,886,934	2,915,015	0.253%
JNLPPM America Floating Rate Income Fund	Nouyon Finance B.V.	4/3/2028	8.63	Fixed Income	452,606	457,173	0.040%
JNLPPM America Floating Rate Income Fund	Nouyon Finance B.V.	4/3/2028	8.63	Fixed Income	117,486	118,971	0.010%
JNLPPM America Floating Rate Income Fund	Whatabrands LLC	8/3/2028	8.00	Fixed Income	1,131,344	1,129,411	0.098%
JNLPPM America Floating Rate Income Fund	Johnstone Supply LLC	5/15/2031	6.17	Fixed Income	435,000	436,172	0.038%
JNLPPM America Floating Rate Income Fund	API Group DE, Inc.	1/3/2029	7.25	Fixed Income	700,000	699,370	0.061%
JNLPPM America Floating Rate Income Fund	LUEDH Corp.	6/12/2030	9.83	Fixed Income	1,772,148	1,776,128	0.154%
JNLPPM America Floating Rate Income Fund	Davita, Inc.	4/25/2031	7.25	Fixed Income	2,000,000	1,998,460	0.174%
JNLPPM America Floating Rate Income Fund	Amer Sports Company	1/21/2031	8.60	Fixed Income	399,000	403,881	0.035%
JNLPPM America Floating Rate Income Fund	Aventiv Technologies, LLC	7/31/2025	10.69	Fixed Income	5,994,771	5,112,167	0.444%
JNLPPM America Floating Rate Income Fund	Aventiv Technologies, LLC	7/31/2025	10.69	Fixed Income	1,009,642	860,983	0.075%
JNLPPM America Floating Rate Income Fund	Compress Public Limited Company	5/17/2028	8.25	Fixed Income	1,614,247	1,612,581	0.140%
JNLPPM America Floating Rate Income Fund	CPI Haldco B LLC	5/10/2031	7.25	Fixed Income	540,000	537,305	0.047%
JNLPPM America Floating Rate Income Fund	Solina Bidco	2/28/2029	8.70	Fixed Income	209,475	211,222	0.018%
JNLPPM America Floating Rate Income Fund	Central Parent Inc.	7/6/2029	8.58	Fixed Income	6,189,447	6,120,671	0.531%
JNLPPM America Floating Rate Income Fund	Epicor Software Corporation	12/31/2049		Fixed Income	446,623	446,775	0.039%
JNLPPM America Floating Rate Income Fund	Asplundh Tree Expert, LLC	5/9/2031	7.00	Fixed Income	448,425	448,695	0.039%
JNLPPM America Floating Rate Income Fund	Packaging Coordinators Midco, Inc.	11/30/2027	8.58	Fixed Income	982,278	981,576	0.085%
JNLPPM America Floating Rate Income Fund	BCP Renaissance Parent LLC	10/31/2028	8.60	Fixed Income	5,673,177	5,672,344	0.492%
JNLPPM America Floating Rate Income Fund	BCP Renaissance Parent LLC	10/31/2028	8.60	Fixed Income	1,464,935	1,464,177	0.127%
JNLPPM America Floating Rate Income Fund	Lorca Holdco Limited	4/17/2031	8.83	Fixed Income	218,900	219,131	0.019%
JNLPPM America Floating Rate Income Fund	Carnival Corporation	8/9/2027	8.00	Fixed Income	1,143,489	1,145,514	0.099%
JNLPPM America Floating Rate Income Fund	Carnival Corporation	8/9/2027	8.00	Fixed Income	309,917	310,466	0.027%
JNLPPM America Floating Rate Income Fund	Assemark Financial Holdings, Inc.	12/31/2049		Fixed Income	3,018,861	2,982,500	0.259%
JNLPPM America Floating Rate Income Fund	Aramark Services, Inc.	6/24/2030	7.25	Fixed Income	650,583	651,682	0.057%
JNLPPM America Floating Rate Income Fund	McAfee, LLC	3/1/2029	8.45	Fixed Income	4,112,610	4,115,805	0.357%
JNLPPM America Floating Rate Income Fund	McAfee, LLC	3/1/2029	8.45	Fixed Income	1,765,896	1,765,924	0.153%
JNLPPM America Floating Rate Income Fund	ECL Entertainment, LLC	8/31/2030	8.25	Fixed Income	218,351	218,688	0.019%
JNLPPM America Floating Rate Income Fund	Grant Thornton Advisors LLC	5/30/2031	8.50	Fixed Income	2,420,882	2,424,138	0.210%
JNLPPM America Floating Rate Income Fund	Sotera Health Holdings, LLC	5/30/2031	8.50	Fixed Income	375,000	373,678	0.032%
JNLPPM America Floating Rate Income Fund	Maximus, Inc.	5/21/2031	7.25	Fixed Income	194,513	195,034	0.017%
JNLPPM America Floating Rate Income Fund	Epicor Software Corporation	5/23/2031	8.50	Fixed Income	3,808,597	3,808,120	0.331%
JNLPPM America Floating Rate Income Fund	Epicor Software Corporation	5/23/2031	8.50	Fixed Income	798,000	798,451	0.069%
JNLPPM America Floating Rate Income Fund	Nouyon Finance B.V.	4/3/2028	8.82	Fixed Income	1,980,038	2,025,453	0.176%
JNLPPM America Floating Rate Income Fund	Nouyon Finance B.V.	4/3/2028	8.82	Fixed Income	658,362	673,463	0.058%
JNLPPM America Floating Rate Income Fund	Resideo Funding Inc.	2/14/2028	7.25	Fixed Income	92,452	92,567	0.008%
JNLPPM America Floating Rate Income Fund	Compress Public Limited Company	5/17/2028	8.25	Fixed Income	1,340,371	1,338,988	0.116%
JNLPPM America Floating Rate Income Fund	Mitchell International, Inc.	6/5/2031	8.50	Fixed Income	845,000	832,025	0.072%
JNLPPM America Floating Rate Income Fund	Flexera Software LLC	3/9/2028	8.46	Fixed Income	711,314	713,036	0.062%
JNLPPM America Floating Rate Income Fund	Project Alpha Intermediate Holding, Inc.	10/30/2030	8.00	Fixed Income	960,175	976,634	0.085%
JNLPPM America Floating Rate Income Fund	Goodnight Water Solutions, LLC	5/22/2029	10.45	Fixed Income	171,675	170,486	0.008%
JNLPPM America Floating Rate Income Fund	Staples, Inc.	8/22/2029	10.69	Fixed Income	5,200,679	4,751,107	0.413%
JNLPPM America Floating Rate Income Fund	Staples, Inc.	8/22/2029	10.69	Fixed Income	1,480,000	1,352,061	0.117%
JNLPPM America Floating Rate Income Fund	Broadstreet Partners, Inc.	5/10/2031	8.50	Fixed Income	750,777	747,665	0.065%
JNLPPM America Floating Rate Income Fund	Assemark Financial Holdings, Inc.	7/25/2031	7.95	Fixed Income	725,000	716,215	0.062%
JNLPPM America Floating Rate Income Fund	Gray Television, Inc.	5/22/2029	10.45	Fixed Income	3,963,041	3,830,883	0.333%
JNLPPM America Floating Rate Income Fund	Learning Care Group (US) No. 2 Inc.	8/11/2028	9.11	Fixed Income	59,167	60,160	0.005%
JNLPPM America Floating Rate Income Fund	Learning Care Group (US) No. 2 Inc.	8/11/2028	9.26	Fixed Income	177,500	181,200	0.016%
JNLPPM America Floating Rate Income Fund	Learning Care Group (US) No. 2 Inc.	8/11/2028	9.37	Fixed Income	16,181	16,256	0.001%
JNLPPM America Floating Rate Income Fund	Learning Care Group (US) No. 2 Inc.	8/11/2028	9.29	Fixed Income	98,611	100,976	0.009%
JNLPPM America Floating Rate Income Fund	Bleriot US Bidco Inc.	10/31/2028	8.58	Fixed Income	269,325	269,440	0.023%
JNLPPM America Floating Rate Income Fund	Resideo Funding Inc.	5/21/2031	7.30	Fixed Income	235,000	238,717	0.021%
JNLPPM America Floating Rate Income Fund	Harbor Freight Tools USA, Inc.	8/5/2031	7.75	Fixed Income	3,384,062	3,340,144	0.290%
JNLPPM America Floating Rate Income Fund	Prodotpoint, Inc.	8/31/2028	8.25	Fixed Income	977,500	976,990	0.085%
JNLPPM America Floating Rate Income Fund	Go Daddy Operating Company, LLC	5/21/2031	7.00	Fixed Income	979,688	977,006	0.085%
JNLPPM America Floating Rate Income Fund	White Cap Buyer LLC	10/19/2029	8.50	Fixed Income	337,468	334,929	0.029%
JNLPPM America Floating Rate Income Fund	TTF Holdings, LLC	6/20/2031	9.00	Fixed Income	345,000	345,082	0.030%
JNLPPM America Floating Rate Income Fund	Ion Trading Technologies S.a.r.l.	6/30/2027	9.02	Fixed Income	348,577	352,050	0.031%
JNLPPM America Floating Rate Income Fund	BrightView Landscapes, LLC	4/20/2029	7.75	Fixed Income	2,469,264	2,491,803	0.216%
JNLPPM America Floating Rate Income Fund	LSM Acquisition LLC	6/6/2031	8.97	Fixed Income	1,065,945	1,049,807	0.091%
JNLPPM America Floating Rate Income Fund	Tempo Acquisition LLC	9/31/2028	7.50	Fixed Income	235,920	236,261	0.020%
JNLPPM America Floating Rate Income Fund	VPH Parent LLC	6/13/2031	8.00	Fixed Income	510,000	510,108	0.044%
JNLPPM America Floating Rate Income Fund	Frontier Communications Corp.	6/20/2031	8.83	Fixed Income	4,142,011	4,252,140	0.369%
JNLPPM America Floating Rate Income Fund	Frontier Communications Corp.	6/20/2031	8.83	Fixed Income	1,050,000	1,077,918	0.094%
JNLPPM America Floating Rate Income Fund	Apro, LLC	6/26/2031	8.00	Fixed Income	925,000	929,168	0.081%
JNLPPM America Floating Rate Income Fund	Olympus Water US Holding Corporation	6/6/2031	8.85	Fixed Income	1,863,642	1,862,663	0.162%
JNLPPM America Floating Rate Income Fund	1011778 B.C. Unlimited Liability Company	9/23/2030	7.00	Fixed Income	3,168,616	3,134,318	0.272%
JNLPPM America Floating Rate Income Fund	1011778 B.C. Unlimited Liability Company	9/23/2030	7.00	Fixed Income	800,980	792,260	0.069%
JNLPPM America Floating							

Issuer Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUPPM America Floating Rate Income Fund	Anticlines International AB	11/16/2028	8.73	Fixed Income	654,962	659,228	0.057%
JNLUPPM America Floating Rate Income Fund	Verity Group Corporation	3/2/2027	7.20	Fixed Income	1,466,192	1,474,904	0.128%
JNLUPPM America Floating Rate Income Fund	Amynta Agency Borrower Inc.	2/28/2028	9.00	Fixed Income	579,602	588,229	0.051%
JNLUPPM America Floating Rate Income Fund	Neon Maple US Debt Mergerbusi Inc	12/31/2049		Fixed Income	3,547,298	3,507,391	0.305%
JNLUPPM America Floating Rate Income Fund	Neon Maple US Debt Mergerbusi Inc	12/31/2049		Fixed Income	1,045,000	1,045,000	0.090%
JNLUPPM America Floating Rate Income Fund	Employbridge Holding Company	7/16/2028	10.43	Fixed Income	12,881	8,783	0.001%
JNLUPPM America Floating Rate Income Fund	City Football Group Limited	7/21/2030	7.97	Fixed Income	1,055,964	1,050,093	0.091%
JNLUPPM America Floating Rate Income Fund	AAL Delaware Holdco, Inc.	7/23/2031	8.75	Fixed Income	235,000	235,863	0.020%
JNLUPPM America Floating Rate Income Fund	De Vinc Purchaser Corp.	12/10/2026	402.11	Fixed Income	1.75	0.03%	0.000%
JNLUPPM America Floating Rate Income Fund	GP Pilot Acquisition Partners LP	10/4/2030	7.82	Fixed Income	3,821,940	3,880,944	0.337%
JNLUPPM America Floating Rate Income Fund	LSF11 AS Holdco LLC	10/15/2028	8.86	Fixed Income	4,962,027	4,949,895	0.430%
JNLUPPM America Floating Rate Income Fund	Moneygram International, Inc.	12/31/2049		Fixed Income	3,302,513	3,302,513	0.287%
JNLUPPM America Floating Rate Income Fund	Homesense USA Holding Corp	10/21/2030	7.21	Fixed Income	1,921,200	1,947,784	0.169%
JNLUPPM America Floating Rate Income Fund	Project Boost Purchaser, LLC	7/2/2032	10.53	Fixed Income	145,000	147,836	0.013%
JNLUPPM America Floating Rate Income Fund	Amazon	12/31/2049		Fixed Income	1,159,421	1,155,073	0.100%
JNLUPPM America Floating Rate Income Fund	Amazon	12/31/2049		Fixed Income	1,535,000	1,524,244	0.133%
JNLUPPM America Floating Rate Income Fund	Clarisc Global LP	5/6/2030	7.75	Fixed Income	3,278,348	3,275,523	0.284%
JNLUPPM America Floating Rate Income Fund	Clarisc Global LP	5/6/2030	7.75	Fixed Income	648,375	647,833	0.056%
JNLUPPM America Floating Rate Income Fund	NGP XI Midstream Holdings LLC	7/25/2031	9.28	Fixed Income	245,000	244,752	0.021%
JNLUPPM America Floating Rate Income Fund	Cloud Software Group, Inc.	3/30/2029	9.33	Fixed Income	7,500	7,465	0.001%
JNLUPPM America Floating Rate Income Fund	CHG Healthcare Services Inc.	9/29/2028	9.86	Fixed Income	347,875	347,784	0.030%
JNLUPPM America Floating Rate Income Fund	Aretex Group, Inc.	8/9/2030	9.25	Fixed Income	3,150,771	3,083,709	0.269%
JNLUPPM America Floating Rate Income Fund	Aretex Group, Inc.	8/9/2030	9.25	Fixed Income	959,590	939,558	0.082%
JNLUPPM America Floating Rate Income Fund	Bariff Merger Sub Inc	7/3/2031	9.01	Fixed Income	6,081,582	6,144,749	0.534%
JNLUPPM America Floating Rate Income Fund	Piano Holdco, Inc.	12/31/2049		Fixed Income	265,000	265,000	0.023%
JNLUPPM America Floating Rate Income Fund	HighTower Holdings LLC	4/21/2028	8.75	Fixed Income	705,546	712,330	0.062%
JNLUPPM America Floating Rate Income Fund	HUB International Limited	6/19/2030	8.26	Fixed Income	3,844,891	3,852,623	0.335%
JNLUPPM America Floating Rate Income Fund	WH Borrower, LLC	2/15/2027	10.79	Fixed Income	264,115	269,469	0.023%
JNLUPPM America Floating Rate Income Fund	NEXUS Buyer LLC	7/18/2031	9.25	Fixed Income	1,539,840	1,517,102	0.132%
JNLUPPM America Floating Rate Income Fund	Surgent Center Holdings, Inc.	12/9/2030	7.67	Fixed Income	1,789,351	1,792,658	0.156%
JNLUPPM America Floating Rate Income Fund	Insulet Corporation	7/31/2031	7.75	Fixed Income	1,315,000	1,319,792	0.115%
JNLUPPM America Floating Rate Income Fund	CQP Holdco LP	12/31/2030	7.58	Fixed Income	5,460,475	5,451,859	0.473%
JNLUPPM America Floating Rate Income Fund	CQP Holdco LP	12/31/2030	7.58	Fixed Income	1,660,936	1,658,315	0.144%
JNLUPPM America Floating Rate Income Fund	Jones Deed,auriers Insurance Management Inc.	9/15/2030		Fixed Income	458,505	458,500	0.040%
JNLUPPM America Floating Rate Income Fund	Wilsoncat LLC	7/25/2031	9.49	Fixed Income	4,000,000	3,954,304	0.343%
JNLUPPM America Floating Rate Income Fund	ABG Intermediate Holdings 2 LLC	12/21/2028	8.00	Fixed Income	5,133,044	5,136,283	0.446%
JNLUPPM America Floating Rate Income Fund	ABG Intermediate Holdings 2 LLC	12/21/2028	8.00	Fixed Income	2,198,731	2,200,297	0.191%
JNLUPPM America Floating Rate Income Fund	Roper Industrial Products Investment Company LLC	12/22/2029	8.54	Fixed Income	5,584,708	5,584,708	0.484%
JNLUPPM America Floating Rate Income Fund	Roper Industrial Products Investment Company LLC	11/22/2029	8.58	Fixed Income	684,627	685,755	0.060%
JNLUPPM America Floating Rate Income Fund	Moneygram International, Inc.	6/1/2030	9.68	Fixed Income	498,750	474,469	0.041%
JNLUPPM America Floating Rate Income Fund	Enrill Borrower LP	6/18/2031		Fixed Income	275,000	276,110	0.024%
JNLUPPM America Floating Rate Income Fund	Franklin Finance Corporation	11/15/2031	7.13	Fixed Income	2,700,000	2,041,438	0.177%
JNLUPPM America Floating Rate Income Fund	Pretzel Parent Inc.	12/31/2049		Fixed Income	215,000	215,269	0.019%
JNLUPPM America Floating Rate Income Fund	Wand NewCo 3, Inc.	1/30/2031	8.50	Fixed Income	640,000	636,056	0.055%
JNLUPPM America Floating Rate Income Fund	Light and Wonder International, Inc.	4/19/2029	7.33	Fixed Income	3,622,114	3,625,959	0.315%
JNLUPPM America Floating Rate Income Fund	Boost Netco Borrower, LLC	1/31/2031		Fixed Income	2,365,000	2,364,000	0.205%
JNLUPPM America Floating Rate Income Fund	Lightning Power LLC	8/8/2031	8.35	Fixed Income	2,925,447	2,951,140	0.256%
JNLUPPM America Floating Rate Income Fund	Lightning Power LLC	8/8/2031	8.35	Fixed Income	770,000	778,497	0.068%
JNLUPPM America Floating Rate Income Fund	Varsity Brands, Inc.	7/30/2031	8.82	Fixed Income	880,000	878,329	0.076%
JNLUPPM America Floating Rate Income Fund	LSF11 Trimly Bidco, Inc.	6/14/2030	8.42	Fixed Income	822,215	823,155	0.072%
JNLUPPM America Floating Rate Income Fund	LSF11 Trimly Bidco, Inc.	6/14/2030	8.42	Fixed Income	107,342	107,543	0.009%
JNLUPPM America Floating Rate Income Fund	Del Monte Foods, Inc.	8/31/2028	13.31	Fixed Income	528,479	510,511	0.044%
JNLUPPM America Floating Rate Income Fund	Del Monte Foods, Inc.	8/31/2028	15.50	Fixed Income	63,092	68,469	0.006%
JNLUPPM America Floating Rate Income Fund	Clifford Corporation	12/4/2029	6.85	Fixed Income	917,671	919,171	0.080%
JNLUPPM America Floating Rate Income Fund	Arsenal A/C Parent LLC	8/19/2030	8.56	Fixed Income	4,313,566	4,305,909	0.374%
JNLUPPM America Floating Rate Income Fund	Arsenal A/C Parent LLC	8/19/2030	8.56	Fixed Income	450,464	449,665	0.039%
JNLUPPM America Floating Rate Income Fund	Parexel International Corporation	11/15/2028	8.25	Fixed Income	1,619,730	1,619,776	0.141%
JNLUPPM America Floating Rate Income Fund	Del Monte Foods, Inc.	2/15/2029	7.42	Fixed Income	1,126,402	1,126,874	0.098%
JNLUPPM America Floating Rate Income Fund	Greystar Real Estate Partners, LLC	8/21/2030	7.67	Fixed Income	2,000,000	1,998,409	0.174%
JNLUPPM America Floating Rate Income Fund	Greystar Real Estate Partners, LLC	8/21/2030	7.67	Fixed Income	267,878	267,765	0.023%
JNLUPPM America Floating Rate Income Fund	M2S Group Holdings Inc.	8/21/2031	9.85	Fixed Income	535,000	511,064	0.044%
JNLUPPM America Floating Rate Income Fund	Scientific Games Holdings LP	4/4/2029	8.32	Fixed Income	4,429,077	4,429,077	0.385%
JNLUPPM America Floating Rate Income Fund	Touchdown Acquirers LP	2/21/2031	9.56	Fixed Income	520,449	519,433	0.045%
JNLUPPM America Floating Rate Income Fund	Charlotte Buyer, Inc.	2/11/2028	9.85	Fixed Income	2,904,852	2,904,951	0.255%
JNLUPPM America Floating Rate Income Fund	Charlotte Buyer, Inc.	2/11/2028	9.91	Fixed Income	985,000	997,269	0.087%
JNLUPPM America Floating Rate Income Fund	Upfield 8.V.	3/3/2028	9.77	Fixed Income	3,094,230	3,120,496	0.271%
JNLUPPM America Floating Rate Income Fund	Upfield 8.V.	1/9/2028	7.95	Fixed Income	480,332	487,886	0.042%
JNLUPPM America Floating Rate Income Fund	Restaurant Brands International Limited Partnership	9/15/2029	5.63	Fixed Income	2,220,000	2,257,981	0.196%
JNLUPPM America Floating Rate Income Fund	Harbor Freight Tools USA, Inc.	6/5/2031	7.24	Fixed Income	452,092	447,727	0.039%
JNLUPPM America Floating Rate Income Fund	Ahead HD Holdings, LLC	12/4/2031	8.80	Fixed Income	6,534,393	6,539,632	0.568%
JNLUPPM America Floating Rate Income Fund	Ahead HD Holdings, LLC	12/4/2031		Fixed Income	353,913	353,913	0.031%
JNLUPPM America Floating Rate Income Fund	Avient Corporation	11/7/2031	6.25	Fixed Income	513,000	527,033	0.046%
JNLUPPM America Floating Rate Income Fund	TransDigm, Inc.	11/5/2033	6.00	Fixed Income	1,121,000	1,139,119	0.099%
JNLUPPM America Floating Rate Income Fund	Primary Products Finance LLC	4/2/2029	8.97	Fixed Income	120,311	122,997	0.011%
JNLUPPM America Floating Rate Income Fund	City Football Group Limited	7/21/2030	7.97	Fixed Income	480,332	487,886	0.042%
JNLUPPM America Floating Rate Income Fund	PG&E Corporation	3/15/2055	7.38	Fixed Income	1,267,000	1,335,771	0.116%
JNLUPPM America Floating Rate Income Fund	Azuria Water Solutions, Inc.	3/31/2028	8.83	Fixed Income	2,166,686	2,182,376	0.189%
JNLUPPM America Floating Rate Income Fund	Focus Financial Partners Inc.	12/31/2049		Fixed Income	1,146,828	1,143,032	0.099%
JNLUPPM America Floating Rate Income Fund	Focus Financial Partners Inc.	12/31/2049		Fixed Income	121,172	122,172	0.011%
JNLUPPM America Floating Rate Income Fund	IVC Acquisition Ltd	11/16/2028	10.08	Fixed Income	776,105	777,300	0.067%
JNLUPPM America Floating Rate Income Fund	Harbournvest Partners, LLC	4/22/2030	7.60	Fixed Income	902,162	898,083	0.078%
JNLUPPM America Floating Rate Income Fund	Fleet Mido I Limited	4/19/2030	7.58	Fixed Income	342,813	343,327	0.030%
JNLUPPM America Floating Rate Income Fund	MKS Instruments, Inc.	8/1/2029	7.17	Fixed Income	663,668	664,668	0.058%
JNLUPPM America Floating Rate Income Fund	Alliant Holdings Intermediate, LLC	10/1/2031	6.50	Fixed Income	1,431,000	1,450,821	0.126%
JNLUPPM America Floating Rate Income Fund	Compress NV	9/15/2032	7.38	Fixed Income	1,130,000	1,141,295	0.099%
JNLUPPM America Floating Rate Income Fund	Rockpoint Gas Storage Partners LP	12/31/2049		Fixed Income	590,000	587,050	0.051%
JNLUPPM America Floating Rate Income Fund	Alliant Holdings Intermediate, LLC	12/31/2031		Fixed Income	2,981,542	2,974,818	0.259%
JNLUPPM America Floating Rate Income Fund	Jazz Financing Lux S.a.r.l.	5/5/2028	7.50	Fixed Income	4,859,877	4,854,323	0.425%
JNLUPPM America Floating Rate Income Fund	Jazz Financing Lux S.a.r.l.	5/5/2028	7.50	Fixed Income	1,286,020	1,284,550	0.112%
JNLUPPM America Floating Rate Income Fund	Chart Industries, Inc.	3/15/2030	7.84	Fixed Income	665,393	665,758	0.058%
JNLUPPM America Floating Rate Income Fund	TTM Technologies, Inc.	5/23/2030	7.45	Fixed Income	868,943	870,543	0.076%
JNLUPPM America Floating Rate Income Fund	AMC Entertainment Holdings, Inc.	14/2/2029	11.92	Fixed Income	2,200,000	2,198,502	0.191%
JNLUPPM America Floating Rate Income Fund	HUB International Limited	6/19/2030	8.23	Fixed Income	2,529,301	2,532,767	0.220%
JNLUPPM America Floating Rate Income Fund	HUB International Limited	6/19/2030	8.23	Fixed Income	9,051	9,039	0.001%
JNLUPPM America Floating Rate Income Fund	High A Home, Inc.	12/31/2049	8.85	Fixed Income	855,000	862,714	0.075%
JNLUPPM America Floating Rate Income Fund	Alpha Generation LLC	12/31/2049		Fixed Income	1,839,200	1,838,869	0.160%
JNLUPPM America Floating Rate Income Fund	Madison Safety & Flow	12/31/2049		Fixed Income	2,791,857	2,788,367	0.242%
JNLUPPM America Floating Rate Income Fund	Madison Safety & Flow	12/31/2049		Fixed Income	155,000	154,806	0.013%
JNLUPPM America Floating Rate Income Fund	BCPPE Pasquid Buyer Inc.	12/31/2049		Fixed Income	2,803,000	2,789,574	0.242%
JNLUPPM America Floating Rate Income Fund	Wyan Specialty Group, LLC	8/1/2031	7.35	Fixed Income	2,477,788	2,478,518	0.215%
JNLUPPM America Floating Rate Income Fund	Dragon Buyer Inc.	12/31/2049		Fixed Income	355,000	353,314	0.031%
JNLUPPM America Floating Rate Income Fund	Cerdia Finanz GmbH	10/9/2031	9.38	Fixed Income	2,945,000	3,004,195	0.261%
JNLUPPM America Floating Rate Income Fund	TransDigm, Inc.	9/5/2032	7.32	Fixed Income	498,000	493,540	0.043%
JNLUPPM America Floating Rate Income Fund	PG Investment Intermediate Holdings 2 Inc	12/31/2049		Fixed Income	39,863	39,863	0.003%
JNLUPPM America Floating Rate Income Fund	Raising Canoe's Restaurants, LLC	9/10/2031	7.01	Fixed Income	110,000	110,060	0.010%
JNLUPPM America Floating Rate Income Fund	Service Logic Acquisition, Inc.	10/29/2027	8.46	Fixed Income	952,380	955,513	0.083%
JNLUPPM America Floating Rate Income Fund	Crown Subsea Communications Holding, Inc.	1/30/2031	9.25	Fixed Income	1,132,163	1,138,706	0.099%
JNLUPPM America Floating Rate Income Fund	Crown Subsea Communications Holding, Inc.	1/20/2031	9.25	Fixed Income	2,261,358	2,264,358	0.197%
JNLUPPM America Floating Rate Income Fund	Windstream Services LLC	12/31/2049		Fixed Income	500,000	500,000	0.043%
JNLUPPM America Floating Rate Income Fund	Thunder Generation Funding LLC	12/31/2049		Fixed Income	3,064,000	3,060,170	0.266%
JNLUPPM America Floating Rate Income Fund	Dave & Buster's	12/31/2049		Fixed Income	425,000	420,750	0.037%
JNLUPPM America Floating Rate Income Fund	Greenland US Holdings LLC	12/31/2049		Fixed Income	202,000	202,218	0.018%
JNLUPPM America Floating Rate Income Fund	EchoStar Corporation	9/27/2029	10.75	Fixed Income	1,207,941	1,172,754	0.102%
Total Non Derivatives						1,151,783,395	
Derivatives							
Total Derivatives						0	
Total All Investments						1,151,783,395	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLPPM America High Yield Bond Fund	Cash			Cash Equivalent	5,529,880	5,529,880	0.399%
JNLPPM America High Yield Bond Fund	United Natural Foods, Inc.	10/15/2028	6.75	Fixed Income	7,114,000	7,006,778	0.506%
JNLPPM America High Yield Bond Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	57,054,364	57,222,114	4.131%
JNLPPM America High Yield Bond Fund	Cable One, Inc.	11/15/2030	4.00	Fixed Income	8,937,000	7,248,361	0.523%
JNLPPM America High Yield Bond Fund	Frontier Communications Parent, Inc.	5/1/2029	6.75	Fixed Income	3,098,000	3,207,437	0.232%
JNLPPM America High Yield Bond Fund	Intelligent Packaging Hldco Issuer Ltd Partnership	11/15/2030	9.00	Fixed Income	1,263,000	1,290,868	0.093%
JNLPPM America High Yield Bond Fund	OneMain Finance Corporation	9/15/2030	4.00	Fixed Income	4,844,000	4,321,045	0.312%
JNLPPM America High Yield Bond Fund	Ascort Resources - Utica, LLC	12/31/2028	8.25	Fixed Income	894,000	927,732	0.067%
JNLPPM America High Yield Bond Fund	EQM Midstream Partners, LP	11/15/2029	4.50	Fixed Income	4,075,000	4,019,136	0.290%
JNLPPM America High Yield Bond Fund	Hilcorp Energy I, L.P.	2/1/2029	5.75	Fixed Income	1,498,000	1,473,726	0.108%
JNLPPM America High Yield Bond Fund	Marb Bondco PLC	1/29/2031	3.95	Fixed Income	15,448,000	13,800,181	0.996%
JNLPPM America High Yield Bond Fund	PeSmart, LLC	2/15/2029	7.75	Fixed Income	4,471,000	4,454,568	0.322%
JNLPPM America High Yield Bond Fund	Clear Channel Outdoor Holdings, Inc.	4/15/2028	7.75	Fixed Income	1,423,000	1,323,891	0.096%
JNLPPM America High Yield Bond Fund	PennyMac Financial Services, Inc.	2/15/2029	4.25	Fixed Income	6,305,000	6,052,152	0.437%
JNLPPM America High Yield Bond Fund	PeSmart, Inc.	12/31/2024	9.10	Fixed Income	2,067,762	2,047,956	0.148%
JNLPPM America High Yield Bond Fund	Energear Israel Finance Ltd	3/30/2026	4.88	Fixed Income	14,511,000	13,859,948	1.001%
JNLPPM America High Yield Bond Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	3,185,000	3,217,204	0.232%
JNLPPM America High Yield Bond Fund	NCR Voyix Corporation	4/15/2029	5.13	Fixed Income	1,170,000	1,172,156	0.085%
JNLPPM America High Yield Bond Fund	Aerotec Escrow Issuer Inc	4/1/2029	7.50	Fixed Income	5,002,000	4,940,204	0.357%
JNLPPM America High Yield Bond Fund	Energy Transfer LP	1/1/2200	6.75	Fixed Income	7,603,000	7,769,436	0.561%
JNLPPM America High Yield Bond Fund	Organo & Co.	4/30/2031	5.13	Fixed Income	4,701,000	4,525,555	0.327%
JNLPPM America High Yield Bond Fund	Pitney Bowes Inc.	3/1/2028	9.36	Fixed Income	3,559,045	3,561,425	0.257%
JNLPPM America High Yield Bond Fund	Telecel Canada	12/6/2026	5.63	Fixed Income	7,160,000	3,545,655	0.256%
JNLPPM America High Yield Bond Fund	NOVA Chemicals Corporation	5/15/2029	4.25	Fixed Income	8,036,000	7,600,709	0.549%
JNLPPM America High Yield Bond Fund	TKC Holdings, Inc.	5/15/2029	10.50	Fixed Income	4,252,000	4,441,944	0.321%
JNLPPM America High Yield Bond Fund	Allied Universal Holdco LLC	8/1/2028	4.63	Fixed Income	3,610,000	3,441,120	0.248%
JNLPPM America High Yield Bond Fund	Vistra Operations Company LLC	5/1/2029	4.38	Fixed Income	1,018,000	1,004,190	0.073%
JNLPPM America High Yield Bond Fund	CCO Holdings, LLC	5/1/2032	4.50	Fixed Income	2,199,000	1,941,791	0.140%
JNLPPM America High Yield Bond Fund	Majordine Holdings IV, LLC	6/1/2029	6.38	Fixed Income	11,677,000	11,621,826	0.839%
JNLPPM America High Yield Bond Fund	Clear Channel Outdoor Holdings, Inc.	6/1/2029	7.50	Fixed Income	4,121,000	3,648,544	0.265%
JNLPPM America High Yield Bond Fund	Antero Midstream Partners LP	6/15/2030	5.38	Fixed Income	3,015,000	2,024,270	0.146%
JNLPPM America High Yield Bond Fund	Bip-V Chinook	6/15/2031	5.50	Fixed Income	13,691,000	13,642,626	0.985%
JNLPPM America High Yield Bond Fund	Energy Transfer LP	1/1/2200	6.50	Fixed Income	1,017,000	1,042,508	0.075%
JNLPPM America High Yield Bond Fund	Inoka Merger Corporation	5/15/2029	4.75	Fixed Income	5,912,000	5,875,618	0.424%
JNLPPM America High Yield Bond Fund	OneMain Finance Corporation	11/15/2027	3.98	Fixed Income	3,576,000	3,443,730	0.249%
JNLPPM America High Yield Bond Fund	ITT Holdings LLC	8/1/2029	6.50	Fixed Income	3,878,000	3,720,555	0.269%
JNLPPM America High Yield Bond Fund	Mercer International Inc.	2/1/2029	5.13	Fixed Income	5,272,000	4,538,972	0.328%
JNLPPM America High Yield Bond Fund	Sunoco LP	5/15/2029	4.50	Fixed Income	2,213,000	2,163,273	0.156%
JNLPPM America High Yield Bond Fund	Jaguar Land Rover Automotive PLC	7/15/2027	5.38	Fixed Income	3,015,000	3,008,047	0.217%
JNLPPM America High Yield Bond Fund	Performance Food Group, Inc.	8/1/2029	4.25	Fixed Income	5,084,000	4,868,475	0.352%
JNLPPM America High Yield Bond Fund	Carnival Corporation	8/1/2028	4.00	Fixed Income	28,998,000	28,180,559	2.035%
JNLPPM America High Yield Bond Fund	Builders FirstSource, Inc.	2/1/2032	4.25	Fixed Income	8,090,000	7,531,985	0.544%
JNLPPM America High Yield Bond Fund	DIRECTV Financing, LLC	8/15/2027	5.88	Fixed Income	7,602,000	6,986,007	0.502%
JNLPPM America High Yield Bond Fund	Air Canada	8/15/2026	3.88	Fixed Income	5,625,000	5,506,860	0.398%
JNLPPM America High Yield Bond Fund	Acurelle, LLC	8/1/2029	6.00	Fixed Income	6,085,000	5,930,066	0.428%
JNLPPM America High Yield Bond Fund	Venture Global Calcasieu Pass, LLC	8/15/2031	4.13	Fixed Income	1,063,000	994,084	0.072%
JNLPPM America High Yield Bond Fund	CCO Holdings, LLC	5/1/2034	4.25	Fixed Income	1,215,000	1,009,547	0.072%
JNLPPM America High Yield Bond Fund	Altice Financing S.A.	8/15/2029	5.75	Fixed Income	12,154,000	9,984,853	0.714%
JNLPPM America High Yield Bond Fund	A + H Real Estate & Business Management Corporation	8/15/2029	5.63	Fixed Income	4,632,000	4,518,693	0.326%
JNLPPM America High Yield Bond Fund	Southwestern Energy Company	3/15/2030	5.38	Fixed Income	5,583,000	4,578,895	0.331%
JNLPPM America High Yield Bond Fund	FMC Resources (August 2006) Pty Ltd	4/1/2031	4.38	Fixed Income	5,849,000	5,589,000	0.403%
JNLPPM America High Yield Bond Fund	Icahn Enterprises L.P.	2/1/2029	4.38	Fixed Income	1,263,000	1,112,954	0.080%
JNLPPM America High Yield Bond Fund	Grifols Escrow Issuer S.A.	10/15/2028	4.75	Fixed Income	5,256,000	5,046,003	0.364%
JNLPPM America High Yield Bond Fund	Mozart Debt Merger Sub Inc.	4/1/2029	3.88	Fixed Income	7,007,000	6,769,373	0.489%
JNLPPM America High Yield Bond Fund	LSF11 AS Holdco LLC	10/15/2029	6.63	Fixed Income	7,615,000	7,640,337	0.552%
JNLPPM America High Yield Bond Fund	Seagate HDD Cayman	11/15/2031	4.13	Fixed Income	1,080,000	1,007,809	0.073%
JNLPPM America High Yield Bond Fund	Ilad Holding	10/15/2028	7.00	Fixed Income	3,475,000	3,349,371	0.263%
JNLPPM America High Yield Bond Fund	Albion Financing 2 S a r l	4/15/2027	8.75	Fixed Income	6,967,000	7,332,489	0.529%
JNLPPM America High Yield Bond Fund	Gray Television, Inc.	11/15/2031	6.38	Fixed Income	4,750,000	3,062,468	0.221%
JNLPPM America High Yield Bond Fund	Allen Media LLC	2/10/2027	10.38	Fixed Income	3,941,152	3,197,140	0.231%
JNLPPM America High Yield Bond Fund	Open Text Corporation	12/1/2029	3.88	Fixed Income	5,732,000	5,405,703	0.390%
JNLPPM America High Yield Bond Fund	Helios Software Holdings, Inc.	5/1/2028	4.63	Fixed Income	1,058,000	996,093	0.072%
JNLPPM America High Yield Bond Fund	Dana Incorporated	2/15/2032	4.50	Fixed Income	3,840,000	3,426,527	0.247%
JNLPPM America High Yield Bond Fund	Nabors Industries, Inc.	5/15/2027	7.38	Fixed Income	5,557,000	3,075,078	0.217%
JNLPPM America High Yield Bond Fund	HUB International Limited	12/1/2029	5.63	Fixed Income	3,060,000	3,068,777	0.221%
JNLPPM America High Yield Bond Fund	Open Text Corporation	12/1/2031	4.13	Fixed Income	2,281,000	2,127,274	0.154%
JNLPPM America High Yield Bond Fund	Great Outdoors Group, LLC	2/26/2028	9.12	Fixed Income	4,510,903	4,507,303	0.329%
JNLPPM America High Yield Bond Fund	UBS Group AG	1/1/2200	4.88	Fixed Income	5,602,000	5,411,120	0.392%
JNLPPM America High Yield Bond Fund	PennyMac Financial Services, Inc.	9/15/2031	5.75	Fixed Income	4,580,000	4,500,502	0.329%
JNLPPM America High Yield Bond Fund	CCO Holdings, LLC	2/1/2032	4.75	Fixed Income	6,111,000	5,422,093	0.391%
JNLPPM America High Yield Bond Fund	VistaJet Malta Finance P.L.C.	2/1/2030	6.38	Fixed Income	2,821,000	2,451,715	0.177%
JNLPPM America High Yield Bond Fund	Jacobs Entertainment, Inc.	2/15/2029	6.75	Fixed Income	8,207,000	8,100,000	0.587%
JNLPPM America High Yield Bond Fund	Intelsat Jackson Holdings S.A.	3/15/2030	6.50	Fixed Income	13,679,000	13,183,333	0.952%
JNLPPM America High Yield Bond Fund	Jaguar Land Rover Automotive PLC	10/15/2025	7.75	Fixed Income	3,441,000	3,566,270	0.257%
JNLPPM America High Yield Bond Fund	Rocket Software, Inc.	2/15/2029	6.50	Fixed Income	1,262,000	1,210,840	0.087%
JNLPPM America High Yield Bond Fund	Macy's Retail Holdings	3/15/2032	6.13	Fixed Income	5,653,000	5,496,899	0.397%
JNLPPM America High Yield Bond Fund	Charter Communications Operating, LLC	4/1/2053	5.25	Fixed Income	8,045,000	6,770,423	0.489%
JNLPPM America High Yield Bond Fund	Owens & Minor, Inc.	4/1/2030	6.63	Fixed Income	7,154,000	7,190,588	0.519%
JNLPPM America High Yield Bond Fund	VistaJet Malta Finance P.L.C.	5/1/2027	7.88	Fixed Income	5,062,000	5,112,922	0.369%
JNLPPM America High Yield Bond Fund	Frontier Communications Holdings, LLC	8/15/2030	6.75	Fixed Income	6,156,000	6,149,028	0.442%
JNLPPM America High Yield Bond Fund	TKC Holdings, Inc.	5/15/2029	5.88	Fixed Income	3,150,000	3,101,458	0.230%
JNLPPM America High Yield Bond Fund	EQM Midstream Partners, LP	6/1/2027	7.50	Fixed Income	1,957,000	2,063,768	0.149%
JNLPPM America High Yield Bond Fund	Kinetik Holdings LP	6/15/2030	5.88	Fixed Income	5,491,000	5,624,323	0.406%
JNLPPM America High Yield Bond Fund	Ascort Resources - Utica, LLC	11/1/2026	7.00	Fixed Income	9,648,000	9,932,777	0.717%
JNLPPM America High Yield Bond Fund	Enlirgis Escrow Corporation	5/15/2030	5.38	Fixed Income	5,290,000	5,521,121	0.471%
JNLPPM America High Yield Bond Fund	Enlirgis Escrow Corporation	4/15/2029	4.75	Fixed Income	2,663,000	2,682,340	0.194%
JNLPPM America High Yield Bond Fund	Chemiere Energy Partners, L.P.	10/1/2032	3.25	Fixed Income	4,191,000	3,772,225	0.272%
JNLPPM America High Yield Bond Fund	Deutsche Bank Aktiengesellschaft	12/1/2032	4.88	Fixed Income	4,530,000	4,536,044	0.328%
JNLPPM America High Yield Bond Fund	Achraf Capital, Inc.	10/1/2032	5.88	Fixed Income	1,750,000	1,682,150	0.123%
JNLPPM America High Yield Bond Fund	Trineco Materials Operating S.C.A.	4/1/2029	5.13	Fixed Income	7,550,000	3,603,042	0.260%
JNLPPM America High Yield Bond Fund	888 Acquisitions Limited	7/1/2028	10.58	Fixed Income	2,011,445	1,960,905	0.142%
JNLPPM America High Yield Bond Fund	Hilcorp Energy L.L.P.	11/1/2028	6.25	Fixed Income	6,710,000	6,877,495	0.497%
JNLPPM America High Yield Bond Fund	Cloud Software Group, Inc.	3/31/2029	6.50	Fixed Income	3,640,000	3,623,126	0.262%
JNLPPM America High Yield Bond Fund	Enerflex Ltd.	10/15/2027	9.00	Fixed Income	6,349,000	6,847,228	0.494%
JNLPPM America High Yield Bond Fund	Toronto-Dominion Bank, The	10/31/2082	6.13	Fixed Income	3,217,000	3,497,203	0.252%
JNLPPM America High Yield Bond Fund	Odeon Finco PLC	11/1/2027	12.75	Fixed Income	4,195,000	4,628,027	0.334%
JNLPPM America High Yield Bond Fund	Ford Motor Credit Company LLC	11/4/2027	7.25	Fixed Income	1,640,000	1,739,785	0.126%
JNLPPM America High Yield Bond Fund	Neptune BidCo US Inc.	4/15/2029	9.29	Fixed Income	4,368,000	4,463,698	0.322%
JNLPPM America High Yield Bond Fund	Transocean Titan Financing Ltd.	2/1/2028	8.38	Fixed Income	932,000	973,096	0.070%
JNLPPM America High Yield Bond Fund	Transocean Inc.	2/15/2030	8.75	Fixed Income	1,312,400	1,383,265	0.100%
JNLPPM America High Yield Bond Fund	Tenet Healthcare Corporation	6/1/2029	4.25	Fixed Income	7,128,000	6,980,182	0.504%
JNLPPM America High Yield Bond Fund	Tenet Healthcare Corporation	11/15/2030	4.38	Fixed Income	2,480,000	2,403,645	0.174%
JNLPPM America High Yield Bond Fund	PRA Group, Inc.	2/1/2028	8.38	Fixed Income	7,677,000	8,072,583	0.583%
JNLPPM America High Yield Bond Fund	EchoStar Corporation		Equity	3,928	97,493	0.007%	
JNLPPM America High Yield Bond Fund	MPX LP		Equity	87,200	3,876,912	0.280%	
JNLPPM America High Yield Bond Fund	Prarie Proident Resources Inc.		Equity	224,333	4,487	0.000%	
JNLPPM America High Yield Bond Fund	New Cote LLC		Equity	29	0	0.000%	
JNLPPM America High Yield Bond Fund	Spirit Capital Corporation	11/15/2028	6.88	Fixed Income	1,130,000	1,263,052	0.091%
JNLPPM America High Yield Bond Fund	Washington Mutual Bank, FA	1/1/2200	6.88	Fixed Income	1,500,000	17	0.000%
JNLPPM America High Yield Bond Fund	QVC, Inc.	2/15/2025	4.45	Fixed Income	4,996,000	4,996,645	0.360%
JNLPPM America High Yield Bond Fund	Transocean Poseidon Limited	2/1/2027	6.88	Fixed Income	2,154,600	2,178,576	0.157%
JNLPPM America High Yield Bond Fund	ViaSat, Inc.	9/15/2025	5.63	Fixed Income	7,665,000	7,565,231	0.546%
JNLPPM America High Yield Bond Fund	Sigma Holdco B.V.	5/15/2026	7.88	Fixed Income	5,806,000	5,940,089	0.429%
JNLPPM America High Yield Bond Fund	OneMain Finance Corporation	3/15/2026	7.13	Fixed Income	1,286,000	1,317,860	0.095%
JNLPPM America High Yield Bond Fund	American Axle & Manufacturing, Inc.	3/15/2026	6.25	Fixed Income	646,000	647,632	0.047%
JNLPPM America High Yield Bond Fund	Teva Pharmaceutical Finance Netherlands III B.V.	10/1/2026	3.15	Fixed Income	4,811,000	4,701,162	0.339%
JNLPPM America High Yield Bond Fund	EQM Midstream Partners, LP	12/1/2026	4.13	Fixed Income	4,823,000	4,823,069	0.348%
JNLPPM America High Yield Bond Fund	Antero Midstream Partners LP	3/1/2027	5.75	Fixed Income	2,902,000	2,920,624	0.211%
JNLPPM America High Yield Bond Fund	Bombardier Inc.	4/15/2027	7.88	Fixed Income	822,000	854,156	0.062%
JNLPPM America High Yield Bond Fund	Clarins Global LP	5/15/2027	8.50	Fixed Income	4,322,000	4,480,389	0.323%
JNLPPM America High Yield Bond Fund	Liberty Media Corporation	2/1/2030	8.25	Fixed Income	4,487,000	2,918,517	0.211%
JNLPPM America High Yield Bond Fund	Clear Channel Outdoor Holdings, Inc.		Equity	335,394	5,336,130	0.389%	
JNLPPM America High Yield Bond Fund	KQVA Inc.	5/15/2027	5.00	Fixed Income	5,096,000	4,148,009	0.299%
JNLPPM America High Yield Bond Fund	CCO Holdings, LLC	6/1/2029	5.38	Fixed Income	5,950,000	5,838,279	0.422%
JNLPPM America High Yield Bond Fund	Vistra Operations Company LLC	7/31/2027	5.00	Fixed Income	2,859,000	2,864,779	0.207%
JNLPPM America High Yield Bond Fund	LABL Escrow Issuer LLC	7/15/2026	6.88	Fixed Income	3,495,000	3,543,018	0.254%
JNLPPM America High Yield Bond Fund	Nexstar Escrow Inc.	7/15/2027	5.63	Fixed Income	1,004,000	1,006,519	0.073%
JNLPPM America High Yield Bond Fund	Alice France Holding S.A.	2/1/2027	8.1				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America High Yield Bond Fund	Delta Air Lines, Inc.	5/1/2025	7.00	Fixed Income	2,788,000	2,899,412	0.209%
JNLPPM America High Yield Bond Fund	Market Group Inc.	11/1/2030	6.00	Fixed Income	4,268,000	4,337,238	0.31%
JNLPPM America High Yield Bond Fund	DaVita Inc.	6/1/2030	4.63	Fixed Income	8,526,000	8,246,086	0.595%
JNLPPM America High Yield Bond Fund	Buckeye Partners, L.P.	10/15/2044	5.60	Fixed Income	4,710,000	4,156,519	0.300%
JNLPPM America High Yield Bond Fund	Citgo Petroleum Corporation	6/15/2025	7.00	Fixed Income	9,923,000	10,128,100	0.731%
JNLPPM America High Yield Bond Fund	Dana Incorporated	6/15/2028	5.63	Fixed Income	1,877,000	1,917,876	0.142%
JNLPPM America High Yield Bond Fund	CCO Holdings, LLC	2/1/2031	4.25	Fixed Income	6,263,000	5,575,652	0.403%
JNLPPM America High Yield Bond Fund	DaVita Inc.	2/15/2031	3.75	Fixed Income	2,283,000	2,067,900	0.149%
JNLPPM America High Yield Bond Fund	Southwestern Energy Company	9/15/2028	8.38	Fixed Income	2,762,000	2,852,145	0.206%
JNLPPM America High Yield Bond Fund	Intelligent Packaging Limited Purchaser Inc.	9/15/2028	6.00	Fixed Income	6,574,000	6,551,287	0.473%
JNLPPM America High Yield Bond Fund	Nexstar Media Group, Inc.	1/1/2028	4.75	Fixed Income	1,042,000	1,014,683	0.073%
JNLPPM America High Yield Bond Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	4,174,000	4,253,295	0.307%
JNLPPM America High Yield Bond Fund	PM General Purchaser LLC	10/1/2028	9.50	Fixed Income	9,183,000	9,637,942	0.696%
JNLPPM America High Yield Bond Fund	PennyMac Financial Services, Inc.	10/15/2025	5.38	Fixed Income	7,885,000	8,174,626	0.590%
JNLPPM America High Yield Bond Fund	HeartMedia, Inc.			Equity	140,821	260,518	0.019%
JNLPPM America High Yield Bond Fund	Vistra Corp.	1/1/2200	8.00	Fixed Income	4,328,000	4,685,808	0.338%
JNLPPM America High Yield Bond Fund	Macy's Retail Holdings, LLC	1/15/2034	4.50	Fixed Income	1,179,000	1,003,876	0.072%
JNLPPM America High Yield Bond Fund	Rand Parent LLC	2/15/2030	8.50	Fixed Income	4,399,000	4,529,208	0.327%
JNLPPM America High Yield Bond Fund	TransDigm Inc.	8/15/2028	6.75	Fixed Income	3,298,000	3,408,937	0.247%
JNLPPM America High Yield Bond Fund	Pilgrim's Pride Corporation	4/15/2031	4.25	Fixed Income	11,833,000	11,442,377	0.826%
JNLPPM America High Yield Bond Fund	Pilgrim's Pride Corporation	3/1/2032	3.50	Fixed Income	1,115,000	993,200	0.072%
JNLPPM America High Yield Bond Fund	Frontier Communications Holdings, LLC	3/15/2031	8.63	Fixed Income	2,570,000	2,782,406	0.201%
JNLPPM America High Yield Bond Fund	Cloud Software Group, Inc.	9/30/2029	9.00	Fixed Income	3,260,000	3,318,725	0.240%
JNLPPM America High Yield Bond Fund	Macquarie Airfinance Holdings Limited	5/1/2028	8.38	Fixed Income	4,969,000	5,400,160	0.390%
JNLPPM America High Yield Bond Fund	Bayerle Energy Corp.	4/30/2030	8.50	Fixed Income	3,358,000	3,601,779	0.260%
JNLPPM America High Yield Bond Fund	Benteler International Aktiengesellschaft	5/15/2028	10.50	Fixed Income	5,971,000	6,550,589	0.473%
JNLPPM America High Yield Bond Fund	XPO, Inc.	9/1/2028	6.25	Fixed Income	3,365,000	3,513,203	0.254%
JNLPPM America High Yield Bond Fund	First Quantum Minerals Ltd	6/1/2031	8.63	Fixed Income	3,215,000	3,312,846	0.239%
JNLPPM America High Yield Bond Fund	Venture Global LNG, Inc.	8/1/2028	8.13	Fixed Income	3,483,000	3,725,359	0.269%
JNLPPM America High Yield Bond Fund	Corebridge Financial, Inc.	12/15/2025	6.88	Fixed Income	3,720,000	3,926,262	0.283%
JNLPPM America High Yield Bond Fund	MonysGram International, Inc.	8/1/2030	9.00	Fixed Income	3,852,962	4,045,962	0.294%
JNLPPM America High Yield Bond Fund	Tenet Healthcare Corporation	6/13/2031	6.13	Fixed Income	3,224,000	3,336,650	0.241%
JNLPPM America High Yield Bond Fund	Albion Financing 1 S.a.r.l.	10/15/2026	6.13	Fixed Income	5,044,000	5,206,568	0.376%
JNLPPM America High Yield Bond Fund	Resorts World Las Vegas LLC	7/27/2030	8.45	Fixed Income	5,593,000	5,991,020	0.433%
JNLPPM America High Yield Bond Fund	Cody Inc.	7/15/2030	6.63	Fixed Income	3,160,000	3,327,499	0.240%
JNLPPM America High Yield Bond Fund	Freedom Mortgage Corporation	5/1/2026	7.63	Fixed Income	2,861,000	2,981,073	0.218%
JNLPPM America High Yield Bond Fund	Freedom Mortgage Corporation	1/15/2027	6.63	Fixed Income	1,455,000	1,478,495	0.107%
JNLPPM America High Yield Bond Fund	Lifepoint Health, Inc.	8/15/2030	9.88	Fixed Income	6,185,000	6,891,559	0.498%
JNLPPM America High Yield Bond Fund	Central Parent Inc.	6/15/2029	6.00	Fixed Income	3,314,000	3,526,304	0.255%
JNLPPM America High Yield Bond Fund	First Brands Group, LLC	3/10/2027	7.88	Fixed Income	3,408,420	3,444,849	0.249%
JNLPPM America High Yield Bond Fund	Greystar Real Estate Partners, LLC	9/1/2030	7.75	Fixed Income	3,640,000	3,892,916	0.281%
JNLPPM America High Yield Bond Fund	Clear Channel Outdoor Holdings, Inc.	9/15/2028	9.00	Fixed Income	4,385,000	4,679,272	0.338%
JNLPPM America High Yield Bond Fund	Tenneco Inc.	11/1/2028	8.00	Fixed Income	10,475,000	9,785,801	0.707%
JNLPPM America High Yield Bond Fund	Premier Resources Operating, LLC	11/15/2032	7.00	Fixed Income	3,388,000	3,572,972	0.258%
JNLPPM America High Yield Bond Fund	Macquarie Airfinance Holdings Limited	3/30/2029	8.13	Fixed Income	7,465,000	7,904,983	0.571%
JNLPPM America High Yield Bond Fund	Citgo Petroleum Corporation	1/15/2029	8.38	Fixed Income	5,292,000	5,599,480	0.404%
JNLPPM America High Yield Bond Fund	Freedom Mortgage Corporation	10/1/2030	12.25	Fixed Income	2,962,000	3,499,543	0.253%
JNLPPM America High Yield Bond Fund	BIS USA Lux S.A.	11/15/2033	7.25	Fixed Income	2,870,000	2,819,453	0.207%
JNLPPM America High Yield Bond Fund	ViaSat, Inc.	5/30/2031	7.50	Fixed Income	3,366,000	4,543,751	0.329%
JNLPPM America High Yield Bond Fund	J&J Ventures Gaming, LLC	4/26/2028	9.61	Fixed Income	2,038,558	2,027,752	0.146%
JNLPPM America High Yield Bond Fund	Transocean Aquila Ltd	9/30/2028	8.00	Fixed Income	984,000	1,006,334	0.073%
JNLPPM America High Yield Bond Fund	Mineral Resources Limited	10/1/2028	9.25	Fixed Income	6,198,000	6,889,286	0.496%
JNLPPM America High Yield Bond Fund	Venture Global LNG, Inc.	2/1/2029	9.50	Fixed Income	6,598,000	7,521,944	0.543%
JNLPPM America High Yield Bond Fund	Venture Global LNG, Inc.	2/1/2032	9.88	Fixed Income	2,750,000	3,101,000	0.224%
JNLPPM America High Yield Bond Fund	Aetrex Escrow Issuer 2 Inc	8/15/2030	10.00	Fixed Income	3,668,000	3,954,852	0.286%
JNLPPM America High Yield Bond Fund	Bombardier Inc.	11/15/2030	8.75	Fixed Income	2,804,000	3,284,768	0.237%
JNLPPM America High Yield Bond Fund	Smyrna Ready Mix Concrete, LLC	11/15/2031	8.88	Fixed Income	6,787,000	7,550,286	0.545%
JNLPPM America High Yield Bond Fund	Owl Rock CLO XIV, LLC	10/22/2035	7.68	Fixed Income	3,080,000	3,154,701	0.228%
JNLPPM America High Yield Bond Fund	EG Global Finance PLC	11/30/2028	12.00	Fixed Income	7,450,000	8,609,017	0.622%
JNLPPM America High Yield Bond Fund	ViaSat, Inc.	5/30/2030	9.73	Fixed Income	3,415,500	3,121,408	0.225%
JNLPPM America High Yield Bond Fund	Barclays PLC	1/1/2026	7.88	Fixed Income	2,861,000	2,669,025	0.195%
JNLPPM America High Yield Bond Fund	AMS-Osram AG	3/30/2029	12.25	Fixed Income	6,320,000	6,709,188	0.484%
JNLPPM America High Yield Bond Fund	Flutter Financing B.V.	11/18/2030	7.33	Fixed Income	1,641,595	1,641,305	0.119%
JNLPPM America High Yield Bond Fund	CQP Holstica LP	12/15/2033	7.50	Fixed Income	2,470,000	2,734,573	0.197%
JNLPPM America High Yield Bond Fund	Oakman Finance Corporation	3/15/2030	7.88	Fixed Income	1,943,000	2,038,969	0.147%
JNLPPM America High Yield Bond Fund	Energy Transfer LP	5/15/2054	8.00	Fixed Income	2,104,000	2,318,813	0.167%
JNLPPM America High Yield Bond Fund	BRE RC Pitney Road PALP	1/15/2032	6.63	Fixed Income	7,436,000	7,638,136	0.551%
JNLPPM America High Yield Bond Fund	DIRECTV Financing, LLC	2/1/2030	8.88	Fixed Income	1,981,000	2,024,874	0.146%
JNLPPM America High Yield Bond Fund	Acrista, LLC	2/1/2029	8.25	Fixed Income	6,498,000	6,501,267	0.478%
JNLPPM America High Yield Bond Fund	Freedom Mortgage Corporation	2/1/2029	9.25	Fixed Income	4,167,000	4,398,738	0.318%
JNLPPM America High Yield Bond Fund	NGL Energy Operating LLC	2/15/2029	8.13	Fixed Income	3,756,000	3,890,187	0.281%
JNLPPM America High Yield Bond Fund	NGL Energy Operating LLC	2/15/2032	8.38	Fixed Income	7,207,000	7,504,744	0.542%
JNLPPM America High Yield Bond Fund	Husky Injection Molding Systems Ltd.	9/15/2029	9.00	Fixed Income	2,547,000	2,819,453	0.207%
JNLPPM America High Yield Bond Fund	Allied Universal Holdco LLC	2/15/2031	7.88	Fixed Income	3,253,000	3,357,827	0.242%
JNLPPM America High Yield Bond Fund	Siena International S.A.	2/15/2031	7.63	Fixed Income	6,427,000	6,816,067	0.492%
JNLPPM America High Yield Bond Fund	TransDigm Inc.	3/1/2029	6.38	Fixed Income	3,751,000	3,888,510	0.281%
JNLPPM America High Yield Bond Fund	TransDigm Inc.	9/1/2032	6.63	Fixed Income	4,285,000	4,485,378	0.324%
JNLPPM America High Yield Bond Fund	Ahead DB Holdings, Ltd.	5/1/2028	6.63	Fixed Income	3,855,000	3,836,784	0.277%
JNLPPM America High Yield Bond Fund	First Quantum Minerals Ltd	3/1/2029	9.38	Fixed Income	1,196,000	1,277,412	0.092%
JNLPPM America High Yield Bond Fund	Wesco Distribution, Inc.	3/15/2029	6.38	Fixed Income	2,651,000	2,747,167	0.198%
JNLPPM America High Yield Bond Fund	Wesco Distribution, Inc.	3/15/2032	6.63	Fixed Income	2,651,000	2,787,828	0.202%
JNLPPM America High Yield Bond Fund	Radiology Partners, Inc.	1/31/2029	8.50	Fixed Income	2,020,000	2,005,214	0.145%
JNLPPM America High Yield Bond Fund	United Airlines, Inc.	2/15/2031	8.03	Fixed Income	3,015,443	3,062,807	0.221%
JNLPPM America High Yield Bond Fund	Chemiere Energy Partners, L.P.	6/30/2033	5.95	Fixed Income	1,041,000	1,117,665	0.081%
JNLPPM America High Yield Bond Fund	Cleveland-Cliffs Inc.	3/15/2032	7.00	Fixed Income	3,293,000	3,339,840	0.241%
JNLPPM America High Yield Bond Fund	Adventer Group, Inc.	4/16/2029	9.25	Fixed Income	6,871,000	6,792,513	0.496%
JNLPPM America High Yield Bond Fund	Encore Capital Group, Inc.	4/1/2029	9.25	Fixed Income	6,039,000	6,780,749	0.490%
JNLPPM America High Yield Bond Fund	PUG LLC	3/12/2030	10.00	Fixed Income	2,203,771	1,998,454	0.144%
JNLPPM America High Yield Bond Fund	Macquarie Airfinance Holdings Limited	3/26/2031	6.50	Fixed Income	1,217,000	1,283,604	0.089%
JNLPPM America High Yield Bond Fund	RHP Hotel Properties, LP	4/1/2032	6.88	Fixed Income	6,522,000	6,957,105	0.502%
JNLPPM America High Yield Bond Fund	Bombardier Inc.	7/1/2031	7.25	Fixed Income	3,535,000	3,867,496	0.279%
JNLPPM America High Yield Bond Fund	AMC Networks, Inc.	1/15/2029	10.25	Fixed Income	4,100,328	4,311,383	0.311%
JNLPPM America High Yield Bond Fund	Level 3 Financing, Inc.	4/1/2030	4.50	Fixed Income	5,615,000	4,459,953	0.322%
JNLPPM America High Yield Bond Fund	Fortress Transportation And Infrastructure Investors LLC	4/1/2031	7.25	Fixed Income	6,551,000	6,850,280	0.498%
JNLPPM America High Yield Bond Fund	Connect Finco Sarl	9/11/2029	9.75	Fixed Income	3,817,433	3,573,153	0.258%
JNLPPM America High Yield Bond Fund	Genesee & Wyoming, Inc.	4/15/2032	6.25	Fixed Income	3,518,000	3,724,850	0.269%
JNLPPM America High Yield Bond Fund	Radiology Partners Inc.	1/31/2029	10.38	Fixed Income	4,622,216	4,568,759	0.330%
JNLPPM America High Yield Bond Fund	Vistra Operations Company LLC	4/15/2032	6.88	Fixed Income	6,596,000	7,159,165	0.513%
JNLPPM America High Yield Bond Fund	Radiology Partners Inc.	1/31/2029	10.38	Fixed Income	28,017	27,693	0.002%
JNLPPM America High Yield Bond Fund	Aventiv Technologies, LLC	7/31/2025	13.10	Fixed Income	151,629	152,060	0.011%
JNLPPM America High Yield Bond Fund	Titan Acquisition Limited	2/1/2029	10.33	Fixed Income	2,063,271	2,164,095	0.156%
JNLPPM America High Yield Bond Fund	Rocket Software, Inc.	11/28/2028	9.00	Fixed Income	2,624,000	2,896,148	0.209%
JNLPPM America High Yield Bond Fund	Sunoco LP	5/1/2032	7.25	Fixed Income	2,128,000	2,318,590	0.167%
JNLPPM America High Yield Bond Fund	ZF North America Capital, Inc.	4/23/2032	6.88	Fixed Income	2,644,000	2,730,412	0.197%
JNLPPM America High Yield Bond Fund	Goldman Sachs Group, Inc., The	1/1/2200	7.50	Fixed Income	6,400,000	5,081,623	0.367%
JNLPPM America High Yield Bond Fund	Jane Street Group, LLC	4/30/2031	7.13	Fixed Income	6,749,000	7,382,776	0.532%
JNLPPM America High Yield Bond Fund	Helios Software Holdings, Inc.	5/1/2029	8.75	Fixed Income	5,395,000	5,707,849	0.412%
JNLPPM America High Yield Bond Fund	Vantage Drilling International			Equity	2,101	60,929	0.004%
JNLPPM America High Yield Bond Fund	Boeing Company, The	5/1/2064	7.01	Fixed Income	5,990,000	6,766,291	0.489%
JNLPPM America High Yield Bond Fund	Rad Holding	4/15/2031	8.50	Fixed Income	3,115,000	3,453,116	0.249%
JNLPPM America High Yield Bond Fund	Freedom Mortgage Corporation	5/15/2031	9.13	Fixed Income	1,163,000	1,236,070	0.089%
JNLPPM America High Yield Bond Fund	Rocket Software, Inc.	11/28/2028	10.00	Fixed Income	3,531,166	3,532,849	0.255%
JNLPPM America High Yield Bond Fund	Colvix Corporation	2/21/2031	8.45	Fixed Income	2,721,303	2,736,395	0.198%
JNLPPM America High Yield Bond Fund	OneMain Finance Corporation	5/15/2031	7.50	Fixed Income	2,285,000	2,414,239	0.174%
JNLPPM America High Yield Bond Fund	Cloud Software Group, Inc.	6/30/2032	8.25	Fixed Income	2,757,000	2,993,112	0.214%
JNLPPM America High Yield Bond Fund	Fortress Intermediate 3 Inc.	6/1/2031	7.50	Fixed Income	2,185,000	2,367,895	0.171%
JNLPPM America High Yield Bond Fund	Lifepoint Health, Inc.	8/1/2032	10.00	Fixed Income	3,240,000	3,689,479	0.266%
JNLPPM America High Yield Bond Fund	Encore Capital Group, Inc.	5/15/2030	8.50	Fixed Income	3,407,000	3,694,736	0.267%
JNLPPM America High Yield Bond Fund	Blue Racer Midstream, LLC	7/15/2029	7.00	Fixed Income	1,568,000	1,654,168	0.119%
JNLPPM America High Yield Bond Fund	Blue Racer Midstream, LLC	7/15/2032	7.25	Fixed Income	1,979,000	2,109,013	0.152%
JNLPPM America High Yield Bond Fund	PRA Group, Inc.	1/31/2030	8.88	Fixed Income	3,284,000	3,524,579	0.254%
JNLPPM America High Yield Bond Fund	Bombardier Inc.	6/1/2032	7.00	Fixed Income	1,901,000	2,031,018	0.147%
JNLPPM America High Yield Bond Fund	Aventiv Technologies, LLC	7/31/2025	10.69	Fixed Income	5,045,959	5,493,047	0.393%
JNLPPM America High Yield Bond Fund	Staples, Inc.	9/1/2029	10.75	Fixed Income	4,435,000	4,344,478	0.314%
JNLPPM America High Yield Bond Fund	Fortress Transportation And Infrastructure Investors LLC	6/15/2032	7.00	Fixed Income	2,529,000	2,705,714	0.195%
JNLPPM America High Yield Bond Fund	Global Atlantic Financial Company	10/15/2054	7.95	Fixed Income	4,005,000	4,274,103	0.309%
JNLPPM America High Yield Bond Fund	Acrista, LLC	11/26/2030	7.50	Fixed Income	3,840,000	3,996,294	0.289%
JNLPPM America High Yield Bond Fund	Vistra Corp.	1/1/2200	8.88	Fixed Income	3,150,000	3,442,531	0.249%
JNLPPM America High Yield Bond Fund	Mercer International Inc.	10/1/2028	12.88	Fixed Income	1,197,000	1,333	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America High Yield Bond Fund	Smithfield Foods, Inc.	9/13/2031	2.63	Fixed Income	1,161,000	985,536	0.071%
JNLPPM America High Yield Bond Fund	DT Midstream, Inc.	4/15/2032	4.30	Fixed Income	1,042,000	894,912	0.072%
JNLPPM America High Yield Bond Fund	Sempra	10/1/2054	6.40	Fixed Income	4,430,000	4,463,972	0.322%
JNLPPM America High Yield Bond Fund	Ahead DB Holdings, LLC	1/24/2031	8.80	Fixed Income	3,508,208	3,511,021	0.253%
JNLPPM America High Yield Bond Fund	The Manitowoc Company, Inc.	10/1/2031	9.25	Fixed Income	4,395,000	4,512,375	0.326%
JNLPPM America High Yield Bond Fund	Avient Corporation	11/1/2031	6.25	Fixed Income	1,572,000	1,615,903	0.117%
JNLPPM America High Yield Bond Fund	TransDigm Inc.	1/15/2033	6.00	Fixed Income	1,716,000	1,743,736	0.126%
JNLPPM America High Yield Bond Fund	PG&E Corporation	3/15/2055	7.38	Fixed Income	2,554,000	2,692,627	0.194%
JNLPPM America High Yield Bond Fund	Equipmentshare.Com Inc	3/15/2033	8.00	Fixed Income	1,786,000	1,835,673	0.133%
JNLPPM America High Yield Bond Fund	Connect Finco SARL	9/15/2029	9.00	Fixed Income	6,799,000	6,562,779	0.479%
JNLPPM America High Yield Bond Fund	GSAM Finance Ltd	3/15/2030	5.88	Fixed Income	2,439,000	2,448,926	0.177%
JNLPPM America High Yield Bond Fund	Alliant Holdings Intermediate, LLC	10/1/2031	6.50	Fixed Income	3,317,000	3,362,944	0.243%
JNLPPM America High Yield Bond Fund	Cimpress NV	9/15/2032	7.38	Fixed Income	5,433,000	5,487,305	0.396%
JNLPPM America High Yield Bond Fund	AMC Entertainment Holdings, Inc.	1/4/2029	11.82	Fixed Income	3,400,000	3,397,684	0.245%
JNLPPM America High Yield Bond Fund	Aethlon United BR LP	10/1/2029	7.50	Fixed Income	4,468,000	4,529,157	0.327%
JNLPPM America High Yield Bond Fund	Alpha Generation LLC	10/15/2032	6.75	Fixed Income	1,343,000	1,363,330	0.098%
JNLPPM America High Yield Bond Fund	Goldman Sachs Group, Inc., The	1/1/2200	6.13	Fixed Income	3,576,000	3,600,840	0.260%
JNLPPM America High Yield Bond Fund	Prairie Provident Resources Inc.	10/28/2024		Equity	224,332	1,659	0.000%
JNLPPM America High Yield Bond Fund	Wayfair LLC	10/31/2029	7.25	Fixed Income	1,187,000	1,215,749	0.088%
JNLPPM America High Yield Bond Fund	Cerdia Finanz GmbH	10/3/2031	9.38	Fixed Income	6,855,000	6,992,788	0.505%
JNLPPM America High Yield Bond Fund	QVC, Inc.	4/15/2029	6.88	Fixed Income	5,302,000	4,406,196	0.318%
JNLPPM America High Yield Bond Fund	Labl, Inc.	10/1/2031	8.63	Fixed Income	6,860,000	6,813,854	0.492%
JNLPPM America High Yield Bond Fund	Venture Global LNG, Inc.	1/1/2200	9.00	Fixed Income	4,399,000	4,449,976	0.321%
Total Non Derivatives						1,385,041,289	
Derivatives							
Total Derivatives						0	
Total All Investments						1,385,041,289	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLPPM America Investment Grade Credit Fund	Cash			Cash Equivalent	310.858	310.858	0.127%
JNLPPM America Investment Grade Credit Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	9,769.629	9,769.167	3.999%
JNLPPM America Investment Grade Credit Fund	Verizon Communications Inc.	11/20/2040	2.65	Fixed Income	360.000	269.195	0.110%
JNLPPM America Investment Grade Credit Fund	Virginia Electric and Power Company	12/15/2050	2.45	Fixed Income	400.000	249.786	0.102%
JNLPPM America Investment Grade Credit Fund	BP Capital Markets America Inc.	6/4/2051	2.34	Fixed Income	370.000	255.569	0.105%
JNLPPM America Investment Grade Credit Fund	Crown Castle Inc.	4/1/2031	2.10	Fixed Income	490.000	424.283	0.174%
JNLPPM America Investment Grade Credit Fund	Charter Communications Operating, LLC	6/1/2041	3.50	Fixed Income	520.000	370.385	0.152%
JNLPPM America Investment Grade Credit Fund	Sabine Pass Liquefaction, LLC	5/15/2030	4.50	Fixed Income	800.000	811.333	0.332%
JNLPPM America Investment Grade Credit Fund	Orion Corporation	3/25/2041	3.65	Fixed Income	320.000	265.336	0.109%
JNLPPM America Investment Grade Credit Fund	STERIS Irish FinCo Unlimited Company	3/15/2051	3.75	Fixed Income	260.000	191.789	0.079%
JNLPPM America Investment Grade Credit Fund	Broadcom Inc.	4/15/2034	3.47	Fixed Income	850.000	778.950	0.319%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	6/1/2029	2.07	Fixed Income	2,340.000	2,181.190	0.893%
JNLPPM America Investment Grade Credit Fund	Indiana University Health, Inc.	11/1/2051	2.85	Fixed Income	300.000	215.779	0.088%
JNLPPM America Investment Grade Credit Fund	Rosenthal Pharma PLC	9/22/2049	3.30	Fixed Income	850.000	663.368	0.271%
JNLPPM America Investment Grade Credit Fund	América Móvil, S.A.B. De C.V.	4/22/2029	3.63	Fixed Income	620.000	610.076	0.250%
JNLPPM America Investment Grade Credit Fund	Marriott International, Inc.	12/1/2028	4.65	Fixed Income	450.000	461.345	0.189%
JNLPPM America Investment Grade Credit Fund	PECO Energy Company	9/15/2051	2.85	Fixed Income	370.000	249.407	0.102%
JNLPPM America Investment Grade Credit Fund	Hartford Financial Services Group, Inc. , The	9/15/2051	2.90	Fixed Income	320.000	217.226	0.089%
JNLPPM America Investment Grade Credit Fund	Charter Communications Operating, LLC	3/1/2042	3.50	Fixed Income	320.000	223.243	0.091%
JNLPPM America Investment Grade Credit Fund	AerCap Ireland Capital Designated Activity Company	10/29/2028	3.00	Fixed Income	440.000	421.232	0.172%
JNLPPM America Investment Grade Credit Fund	Citigroup Inc.	11/3/2032	2.52	Fixed Income	300.000	263.366	0.108%
JNLPPM America Investment Grade Credit Fund	Host Hotels & Resorts, L.P.	12/15/2031	2.90	Fixed Income	230.000	204.407	0.084%
JNLPPM America Investment Grade Credit Fund	Barclays PLC	11/24/2027	2.28	Fixed Income	760.000	730.047	0.299%
JNLPPM America Investment Grade Credit Fund	KKR Group Finance Co. X LLC	12/15/2051	3.25	Fixed Income	330.000	235.739	0.097%
JNLPPM America Investment Grade Credit Fund	BlackRock, Inc.	2/25/2032	2.10	Fixed Income	450.000	389.796	0.160%
JNLPPM America Investment Grade Credit Fund	Constellation Brands, Inc.	9/1/2031	4.00	Fixed Income	460.000	399.395	0.164%
JNLPPM America Investment Grade Credit Fund	Verizon Communications Inc.	11/1/2034	4.40	Fixed Income	1,540.000	1,531.816	0.627%
JNLPPM America Investment Grade Credit Fund	International Flavors & Fragrances Inc.	11/1/2030	2.30	Fixed Income	320.000	283.745	0.116%
JNLPPM America Investment Grade Credit Fund	Berkshire Hathaway Finance Corporation	3/15/2052	3.85	Fixed Income	270.000	228.640	0.094%
JNLPPM America Investment Grade Credit Fund	Charter Communications Operating, LLC	4/1/2053	3.25	Fixed Income	270.000	227.224	0.093%
JNLPPM America Investment Grade Credit Fund	Citigroup Inc.	3/17/2033	3.79	Fixed Income	900.000	845.484	0.346%
JNLPPM America Investment Grade Credit Fund	Keurig Dr Pepper Inc.	4/15/2029	3.95	Fixed Income	1,100.000	1,105.562	0.453%
JNLPPM America Investment Grade Credit Fund	Broadcom Inc.	5/15/2037	4.93	Fixed Income	160.000	162.844	0.067%
JNLPPM America Investment Grade Credit Fund	CSL Finance PLC	4/27/2032	4.25	Fixed Income	270.000	271.407	0.111%
JNLPPM America Investment Grade Credit Fund	Targa Resources Partners LP	10/1/2033	4.43	Fixed Income	500.000	473.023	0.194%
JNLPPM America Investment Grade Credit Fund	NXP B.V.	5/1/2027	3.15	Fixed Income	600.000	591.530	0.242%
JNLPPM America Investment Grade Credit Fund	T-Mobile USA, Inc.	11/15/2031	2.25	Fixed Income	700.000	609.753	0.250%
JNLPPM America Investment Grade Credit Fund	Comcast Corporation	11/1/2051	2.89	Fixed Income	590.000	403.549	0.165%
JNLPPM America Investment Grade Credit Fund	Citigroup Inc.	7/15/2049	6.33	Fixed Income	450.000	463.078	0.189%
JNLPPM America Investment Grade Credit Fund	Williams Companies, Inc. , The	8/15/2052	5.30	Fixed Income	380.000	371.782	0.152%
JNLPPM America Investment Grade Credit Fund	Duke Energy Corporation	8/15/2032	4.50	Fixed Income	600.000	595.903	0.244%
JNLPPM America Investment Grade Credit Fund	Low's Companies, Inc.	4/15/2053	5.63	Fixed Income	300.000	319.896	0.131%
JNLPPM America Investment Grade Credit Fund	The Philippines, Government of	10/13/2047	5.43	Fixed Income	270.000	210.968	0.087%
JNLPPM America Investment Grade Credit Fund	Comcast Corporation	10/15/2030	4.25	Fixed Income	1,080.000	1,096.250	0.449%
JNLPPM America Investment Grade Credit Fund	Bank of New York Mellon Corporation, The	10/25/2033	5.83	Fixed Income	830.000	920.196	0.377%
JNLPPM America Investment Grade Credit Fund	Royal Bank of Canada	11/1/2027	6.00	Fixed Income	1,100.000	1,187.845	0.486%
JNLPPM America Investment Grade Credit Fund	UnitedHealth Group Incorporated	2/15/2063	6.05	Fixed Income	530.000	604.534	0.248%
JNLPPM America Investment Grade Credit Fund	Canadian Pacific Kansas City Limited	12/2/2051	3.10	Fixed Income	500.000	363.225	0.149%
JNLPPM America Investment Grade Credit Fund	Elevance Health, Inc.	10/15/2052	6.10	Fixed Income	560.000	637.969	0.261%
JNLPPM America Investment Grade Credit Fund	UnitedHealth Group Incorporated	2/15/2030	5.30	Fixed Income	450.000	477.819	0.196%
JNLPPM America Investment Grade Credit Fund	Southern California Edison Company	11/1/2027	5.85	Fixed Income	240.000	257.147	0.105%
JNLPPM America Investment Grade Credit Fund	Public Service Enterprise Group Incorporated	11/15/2027	5.85	Fixed Income	620.000	663.033	0.271%
JNLPPM America Investment Grade Credit Fund	Duke Energy Florida, LLC	11/15/2052	5.95	Fixed Income	460.000	519.124	0.213%
JNLPPM America Investment Grade Credit Fund	Southern California Gas Company	11/15/2052	6.35	Fixed Income	250.000	295.255	0.121%
JNLPPM America Investment Grade Credit Fund	Var Energy ASA	11/15/2032	8.00	Fixed Income	400.000	475.580	0.195%
JNLPPM America Investment Grade Credit Fund	Pacific Gas And Electric Company	11/5/2053	6.78	Fixed Income	540.000	623.263	0.255%
JNLPPM America Investment Grade Credit Fund	The Philippines, Government of	7/17/2033	5.00	Fixed Income	230.000	239.439	0.098%
JNLPPM America Investment Grade Credit Fund	Morgan Stanley	1/19/2038	5.95	Fixed Income	310.000	329.005	0.135%
JNLPPM America Investment Grade Credit Fund	Texas Instruments Incorporated	8/16/2032	3.65	Fixed Income	550.000	522.818	0.218%
JNLPPM America Investment Grade Credit Fund	Johico Beverage System	1/1/2033	4.00	Fixed Income	160.000	164.023	0.070%
JNLPPM America Investment Grade Credit Fund	New York Life Global Funding	1/28/2033	4.55	Fixed Income	350.000	354.310	0.145%
JNLPPM America Investment Grade Credit Fund	Apple Inc.	2/23/2046	4.65	Fixed Income	500.000	499.066	0.204%
JNLPPM America Investment Grade Credit Fund	Oracle Corporation	11/15/2047	4.00	Fixed Income	410.000	343.236	0.141%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	11/15/2049	5.96	Fixed Income	500.000	440.079	0.180%
JNLPPM America Investment Grade Credit Fund	Treasury, United States Department of	11/15/2046	2.88	Fixed Income	2,550.000	2,077.254	0.850%
JNLPPM America Investment Grade Credit Fund	Florida Power & Light Company	3/1/2048	3.95	Fixed Income	700.000	601.746	0.246%
JNLPPM America Investment Grade Credit Fund	UnitedHealth Group Incorporated	6/15/2048	4.25	Fixed Income	750.000	672.528	0.275%
JNLPPM America Investment Grade Credit Fund	Bank of America Corporation	4/24/2028	3.71	Fixed Income	1,000.000	941.074	0.410%
JNLPPM America Investment Grade Credit Fund	Texas, State of	4/1/2039	5.52	Fixed Income	250.000	275.189	0.113%
JNLPPM America Investment Grade Credit Fund	Spectrum Management Holding Company, LLC	6/15/2039	6.75	Fixed Income	190.000	193.646	0.079%
JNLPPM America Investment Grade Credit Fund	Sunor Energy Inc.	6/15/2038	6.50	Fixed Income	220.000	250.526	0.103%
JNLPPM America Investment Grade Credit Fund	Antheus-Busch InBev Worldwide Inc.	1/23/2039	5.45	Fixed Income	1,890.000	1,800.461	0.738%
JNLPPM America Investment Grade Credit Fund	Sabine Pass Liquefaction, LLC	3/15/2027	5.00	Fixed Income	600.000	608.880	0.249%
JNLPPM America Investment Grade Credit Fund	Anglo American Capital PLC	3/15/2028	4.50	Fixed Income	310.000	309.732	0.127%
JNLPPM America Investment Grade Credit Fund	American Airlines, Inc.	6/15/2028	3.20	Fixed Income	228.200	218.671	0.090%
JNLPPM America Investment Grade Credit Fund	AT&T Inc.	3/1/2039	4.85	Fixed Income	870.000	855.161	0.350%
JNLPPM America Investment Grade Credit Fund	Visa Inc.	12/14/2035	4.15	Fixed Income	300.000	299.408	0.123%
JNLPPM America Investment Grade Credit Fund	AT&T Inc.	3/1/2037	5.25	Fixed Income	930.000	962.453	0.394%
JNLPPM America Investment Grade Credit Fund	Union Pacific Corporation	9/15/2037	3.60	Fixed Income	420.000	377.518	0.155%
JNLPPM America Investment Grade Credit Fund	Amazon.com, Inc.	8/22/2033	3.98	Fixed Income	860.000	812.722	0.332%
JNLPPM America Investment Grade Credit Fund	CVS Health Corporation	3/25/2038	4.78	Fixed Income	1,460.000	1,380.097	0.565%
JNLPPM America Investment Grade Credit Fund	Energy Transfer LP	6/15/2038	5.80	Fixed Income	290.000	305.537	0.125%
JNLPPM America Investment Grade Credit Fund	Goldman Sachs Group, Inc. , The	4/23/2039	4.41	Fixed Income	700.000	674.919	0.276%
JNLPPM America Investment Grade Credit Fund	Metrolink Transportation Authority	11/15/2040	6.81	Fixed Income	250.000	290.359	0.119%
JNLPPM America Investment Grade Credit Fund	New Jersey Turnpike Authority	1/1/2041	7.10	Fixed Income	260.000	260.143	0.128%
JNLPPM America Investment Grade Credit Fund	AT&T Inc.	12/15/2042	4.30	Fixed Income	300.000	271.253	0.111%
JNLPPM America Investment Grade Credit Fund	Gilead Sciences, Inc.	4/1/2044	4.80	Fixed Income	440.000	435.948	0.178%
JNLPPM America Investment Grade Credit Fund	Qualcomm Incorporated	5/20/2045	4.80	Fixed Income	515.000	513.304	0.210%
JNLPPM America Investment Grade Credit Fund	Marx, Incorporated	4/1/2033	3.98	Fixed Income	700.000	640.019	0.262%
JNLPPM America Investment Grade Credit Fund	Holcim Finance US LLC	9/22/2046	4.75	Fixed Income	270.000	245.534	0.101%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	7/23/2029	4.20	Fixed Income	1,400.000	1,406.094	0.576%
JNLPPM America Investment Grade Credit Fund	British Airways PLC	12/15/2032	3.30	Fixed Income	277.829	258.506	0.106%
JNLPPM America Investment Grade Credit Fund	Union Pacific Corporation	8/15/2059	4.95	Fixed Income	380.000	311.144	0.127%
JNLPPM America Investment Grade Credit Fund	Alcon Finance Corporation	9/23/2029	3.00	Fixed Income	200.000	289.053	0.118%
JNLPPM America Investment Grade Credit Fund	Wells Fargo & Company	10/30/2030	2.88	Fixed Income	720.000	677.032	0.277%
JNLPPM America Investment Grade Credit Fund	Ashland Capital, Inc.	5/1/2028	4.00	Fixed Income	500.000	495.131	0.203%
JNLPPM America Investment Grade Credit Fund	Boeing Company, The	3/1/2029	3.20	Fixed Income	300.000	279.471	0.114%
JNLPPM America Investment Grade Credit Fund	Oncor Electric Delivery Company LLC	9/15/2049	3.10	Fixed Income	350.000	251.351	0.103%
JNLPPM America Investment Grade Credit Fund	Energy Transfer LP	5/15/2050	5.00	Fixed Income	640.000	589.072	0.241%
JNLPPM America Investment Grade Credit Fund	American Tower Corporation	11/5/2030	2.90	Fixed Income	830.000	773.517	0.317%
JNLPPM America Investment Grade Credit Fund	Georgia Power Company	1/30/2050	3.70	Fixed Income	350.000	281.189	0.115%
JNLPPM America Investment Grade Credit Fund	Quadrant Life Insurance Company of America, The	1/22/2070	3.70	Fixed Income	250.000	184.809	0.076%
JNLPPM America Investment Grade Credit Fund	Gobierno Federal de los Estados Unidos Mexicanos	4/16/2030	3.25	Fixed Income	710.000	662.887	0.271%
JNLPPM America Investment Grade Credit Fund	Morgan Stanley	1/22/2031	2.70	Fixed Income	250.000	230.255	0.094%
JNLPPM America Investment Grade Credit Fund	Comcast Corporation	4/1/2040	3.75	Fixed Income	590.000	522.099	0.214%
JNLPPM America Investment Grade Credit Fund	Home Depot, Inc. , The	4/15/2040	3.30	Fixed Income	460.000	391.801	0.160%
JNLPPM America Investment Grade Credit Fund	Berkshire Hathaway Finance Corporation	8/15/2048	4.20	Fixed Income	290.000	267.977	0.110%
JNLPPM America Investment Grade Credit Fund	Essential Utilities, Inc.	4/15/2030	2.70	Fixed Income	470.000	436.565	0.179%
JNLPPM America Investment Grade Credit Fund	Ecoxion Mobil Corporation	3/19/2040	4.23	Fixed Income	950.000	891.863	0.365%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	4/22/2041	3.11	Fixed Income	350.000	296.336	0.117%
JNLPPM America Investment Grade Credit Fund	FedEx Corporation	5/15/2050	5.25	Fixed Income	270.000	272.113	0.111%
JNLPPM America Investment Grade Credit Fund	Boeing Company, The	5/1/2050	5.81	Fixed Income	400.000	395.719	0.162%
JNLPPM America Investment Grade Credit Fund	Elevance Health, Inc.	5/15/2030	2.25	Fixed Income	570.000	515.608	0.211%
JNLPPM America Investment Grade Credit Fund	Centene Corporation	2/15/2030	3.38	Fixed Income	1,000.000	918.909	0.376%
JNLPPM America Investment Grade Credit Fund	Alcon Finance Corporation	5/27/2030	2.60	Fixed Income	487.000	448.852	0.184%
JNLPPM America Investment Grade Credit Fund	Entergy Utility Assets, LLC	3/15/2051	2.90	Fixed Income	490.000	327.922	0.134%
JNLPPM America Investment Grade Credit Fund	Five Corners Funding Trust II	5/15/2030	2.85	Fixed Income	660.000	616.263	0.252%
JNLPPM America Investment Grade Credit Fund	Northwestern University	12/1/2050	2.64	Fixed Income	300.000	207.009	0.085%
JNLPPM America Investment Grade Credit Fund	AT&T Inc.	8/1/2051	3.65	Fixed Income	1,350.000	1,047.708	0.429%
JNLPPM America Investment Grade Credit Fund	AT&T Inc.	6/1/2027	2.30	Fixed Income	510.000	490.675	0.201%
JNLPPM America Investment Grade Credit Fund	Amazon.com, Inc.	6/3/2050	2.50	Fixed Income	220.000	147.476	0.060%
JNLPPM America Investment Grade Credit Fund	Microsoft Corporation	8/1/2050	2.53	Fixed Income	1,490.000	971.311	0.398%
JNLPPM America Investment Grade Credit Fund	CoStar Group, Inc.	7/15/2030	2.80	Fixed Income	400.000	362.670	0.148%
JNLPPM America Investment Grade Credit Fund	Bristol-Myers Squibb Company	6/15/2039	4.13	Fixed Income	440.000	412.838	0.169%
JNLPPM America Investment Grade Credit Fund	Pacific Gas And Electric Company	7/1/2040	4.50	Fixed Income	510.000	464.454	0.190%
JNLPPM America Investment Grade Credit Fund	Alphabet Inc.	8/15/2040	1.90	Fixed Income	340.000	249.562	0.102%
JNLPPM America Investment Grade Credit Fund	Pioneer Natural Resources Company	8/15/2030	1.90	Fixed Income	1,080.000	948.945	0.388%
JNLPPM America Investment Grade Credit Fund	Roper Technologies, Inc.	9/15/2025	1.00	Fixed Income	280.000	271.207	0.111%
JNLPPM America Investment Grade Credit Fund	Low's Companies, Inc.	10/15/2050	3.00	Fixed Income	700.000	485.971	0.199%
JNLPPM America Investment Grade Credit Fund	Smith & Nephew PLC	10/14/2030	2.03	Fixed Income	390.000	262.343	0.107%
JNLPPM America Investment Grade Credit Fund	Oracle Corporation	3/6/2038	4.50	Fixed Income	770.000	794.263	0.325%
JNLPPM America Investment Grade Credit Fund	Deutsche Bank Akt						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Investment Grade Credit Fund	Morgan Stanley	4/20/2029	5.16	Fixed Income	2,700,000	2,837,073	1.161%
JNLPPM America Investment Grade Credit Fund	Morgan Stanley	4/21/2034	5.26	Fixed Income	1,250,000	1,250,066	0.540%
JNLPPM America Investment Grade Credit Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/4/2053	6.34	Fixed Income	450,000	460,087	0.188%
JNLPPM America Investment Grade Credit Fund	Warnermedia Holdings, Inc.	3/15/2052	5.14	Fixed Income	600,000	463,893	0.190%
JNLPPM America Investment Grade Credit Fund	Warnermedia Holdings, Inc.	3/15/2032	4.28	Fixed Income	150,000	133,872	0.055%
JNLPPM America Investment Grade Credit Fund	Northern States Power Company	5/15/2053	5.10	Fixed Income	450,000	462,000	0.188%
JNLPPM America Investment Grade Credit Fund	Meta Platforms, Inc.	5/15/2053	5.60	Fixed Income	500,000	452,549	0.226%
JNLPPM America Investment Grade Credit Fund	T-Mobile USA, Inc.	5/15/2053	5.05	Fixed Income	700,000	725,029	0.297%
JNLPPM America Investment Grade Credit Fund	ConocoPhillips Company	5/15/2053	5.30	Fixed Income	380,000	390,632	0.160%
JNLPPM America Investment Grade Credit Fund	State Street Corporation	5/18/2034	5.16	Fixed Income	1,090,000	1,154,462	0.473%
JNLPPM America Investment Grade Credit Fund	Pfizer Investment Enterprises Pte. Ltd.	5/19/2026	4.45	Fixed Income	770,000	1,387,526	0.524%
JNLPPM America Investment Grade Credit Fund	Pfizer Investment Enterprises Pte. Ltd.	5/19/2053	5.30	Fixed Income	990,000	1,043,456	0.427%
JNLPPM America Investment Grade Credit Fund	Ovintiv Canada ULC	5/15/2028	5.65	Fixed Income	600,000	631,617	0.259%
JNLPPM America Investment Grade Credit Fund	Ovintiv Canada ULC	7/15/2033	6.25	Fixed Income	400,000	429,408	0.176%
JNLPPM America Investment Grade Credit Fund	Southern California Edison Company	12/01/2051	5.88	Fixed Income	500,000	553,881	0.227%
JNLPPM America Investment Grade Credit Fund	Corebridge Financial, Inc.	4/5/2052	4.40	Fixed Income	250,000	219,292	0.090%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	6/1/2034	5.35	Fixed Income	500,000	532,184	0.218%
JNLPPM America Investment Grade Credit Fund	Merck & Co., Inc.	5/17/2053	5.00	Fixed Income	300,000	308,113	0.126%
JNLPPM America Investment Grade Credit Fund	Burlington Northern Santa Fe, LLC	4/15/2054	5.20	Fixed Income	650,000	688,315	0.282%
JNLPPM America Investment Grade Credit Fund	United Airlines Pass Through Certificates, Series 2015-1	1/15/2036	5.80	Fixed Income	1,065,646	1,132,935	0.464%
JNLPPM America Investment Grade Credit Fund	General Motors Financial Company, Inc.	6/23/2028	5.80	Fixed Income	300,000	315,717	0.129%
JNLPPM America Investment Grade Credit Fund	Deutsche Bank Aktiengesellschaft	7/13/2027	7.15	Fixed Income	940,000	993,472	0.407%
JNLPPM America Investment Grade Credit Fund	Wells Fargo & Company	7/25/2034	5.56	Fixed Income	450,000	476,950	0.195%
JNLPPM America Investment Grade Credit Fund	RTX Corporation	2/27/2053	5.38	Fixed Income	180,000	186,126	0.076%
JNLPPM America Investment Grade Credit Fund	Norfolk Southern Corporation	8/1/2054	5.35	Fixed Income	350,000	363,516	0.149%
JNLPPM America Investment Grade Credit Fund	Banco Santander, S.A.	8/8/2033	6.92	Fixed Income	300,000	335,078	0.137%
JNLPPM America Investment Grade Credit Fund	Celastree US Holdings LLC	11/15/2030	6.15	Fixed Income	640,000	706,138	0.289%
JNLPPM America Investment Grade Credit Fund	Prisma Global Funding I	8/28/2026	5.55	Fixed Income	340,000	350,363	0.143%
JNLPPM America Investment Grade Credit Fund	JBS USA Food Company	1/15/2027	2.50	Fixed Income	400,000	384,743	0.158%
JNLPPM America Investment Grade Credit Fund	McDonald's Corporation	8/14/2053	5.45	Fixed Income	450,000	472,412	0.193%
JNLPPM America Investment Grade Credit Fund	CavsaBank, S.A.	9/13/2034	6.10	Fixed Income	550,000	615,880	0.250%
JNLPPM America Investment Grade Credit Fund	Nevada Power Company	3/15/2054	6.00	Fixed Income	200,000	233,638	0.093%
JNLPPM America Investment Grade Credit Fund	T-Mobile USA, Inc.	1/15/2034	5.75	Fixed Income	1,230,000	1,335,939	0.547%
JNLPPM America Investment Grade Credit Fund	Intuit Inc.	9/15/2028	5.13	Fixed Income	760,000	793,381	0.325%
JNLPPM America Investment Grade Credit Fund	Bank of America Corporation	9/15/2029	5.82	Fixed Income	2,480,000	2,616,732	1.071%
JNLPPM America Investment Grade Credit Fund	URS Group AG	1/15/2033	5.47	Fixed Income	1,300,000	1,392,128	0.568%
JNLPPM America Investment Grade Credit Fund	JBS USA Lux S.A.	11/15/2053	7.25	Fixed Income	370,000	440,728	0.180%
JNLPPM America Investment Grade Credit Fund	Constellation Energy Generation, LLC	10/01/2053	6.50	Fixed Income	200,000	238,116	0.097%
JNLPPM America Investment Grade Credit Fund	UL Solutions Inc.	10/20/2028	6.50	Fixed Income	800,000	658,637	0.270%
JNLPPM America Investment Grade Credit Fund	Kenue Inc.	3/22/2034	5.00	Fixed Income	650,000	679,971	0.278%
JNLPPM America Investment Grade Credit Fund	JBS USA Lux S.A.	3/15/2034	6.75	Fixed Income	300,000	333,461	0.137%
JNLPPM America Investment Grade Credit Fund	American Express Company	10/30/2026	6.34	Fixed Income	560,000	586,199	0.240%
JNLPPM America Investment Grade Credit Fund	Banco Santander, S.A.	1/17/2027	6.53	Fixed Income	1,050,000	1,122,301	0.459%
JNLPPM America Investment Grade Credit Fund	GATX Corporation	5/1/2034	6.80	Fixed Income	250,000	291,852	0.120%
JNLPPM America Investment Grade Credit Fund	Ford Motor Credit Company LLC	1/17/2028	6.80	Fixed Income	410,000	443,831	0.182%
JNLPPM America Investment Grade Credit Fund	Targa Resources Corp.	3/1/2029	6.15	Fixed Income	1,000,000	1,069,140	0.438%
JNLPPM America Investment Grade Credit Fund	RTX Corporation	3/15/2034	6.10	Fixed Income	360,000	398,716	0.163%
JNLPPM America Investment Grade Credit Fund	Equitable Financial Life Global Funding	11/12/2026	1.70	Fixed Income	800,000	878,015	0.359%
JNLPPM America Investment Grade Credit Fund	Toyota Motor Credit Corporation	11/20/2026	5.40	Fixed Income	500,000	524,539	0.215%
JNLPPM America Investment Grade Credit Fund	Gobierno Federal de los Estados Unidos Mexicanos	9/27/2034	6.75	Fixed Income	580,000	628,852	0.257%
JNLPPM America Investment Grade Credit Fund	Citigroup Inc.	12/4/2026	5.49	Fixed Income	800,000	837,357	0.343%
JNLPPM America Investment Grade Credit Fund	ROP Sukuk Trust	8/6/2029	6.15	Fixed Income	700,000	733,164	0.300%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase Bank, National Association	12/28/2026	5.11	Fixed Income	500,000	519,264	0.213%
JNLPPM America Investment Grade Credit Fund	Corebridge Financial, Inc.	1/15/2034	5.75	Fixed Income	450,000	479,978	0.196%
JNLPPM America Investment Grade Credit Fund	Wells Fargo Bank, National Association	12/11/2026	5.25	Fixed Income	720,000	749,563	0.307%
JNLPPM America Investment Grade Credit Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/7/2036	6.00	Fixed Income	720,000	751,768	0.308%
JNLPPM America Investment Grade Credit Fund	Simto Bakeries USA, Inc.	1/20/2034	5.38	Fixed Income	150,000	163,290	0.067%
JNLPPM America Investment Grade Credit Fund	Southern California Edison Company	6/1/2034	5.20	Fixed Income	450,000	474,288	0.194%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	1/23/2035	5.34	Fixed Income	810,000	854,799	0.350%
JNLPPM America Investment Grade Credit Fund	JPMorgan Chase & Co.	12/3/2028	5.04	Fixed Income	2,780,000	2,853,829	1.168%
JNLPPM America Investment Grade Credit Fund	Bank of America Corporation	12/20/2035	5.47	Fixed Income	1,300,000	1,390,258	0.568%
JNLPPM America Investment Grade Credit Fund	Corporacion Nacional del Cobre de Chile	1/26/2036	6.44	Fixed Income	360,000	396,038	0.162%
JNLPPM America Investment Grade Credit Fund	Northrop Grumman Corporation	6/1/2034	4.90	Fixed Income	900,000	935,110	0.383%
JNLPPM America Investment Grade Credit Fund	Morgan Stanley Bank, National Association	11/4/2028	4.95	Fixed Income	750,000	769,241	0.315%
JNLPPM America Investment Grade Credit Fund	Bristol Myers Squibb Company	3/22/2034	5.50	Fixed Income	620,000	654,844	0.270%
JNLPPM America Investment Grade Credit Fund	Cisco Systems, Inc.	2/26/2054	5.30	Fixed Income	250,000	266,595	0.109%
JNLPPM America Investment Grade Credit Fund	AstraZeneca Finance LLC	2/26/2029	4.85	Fixed Income	480,000	497,351	0.204%
JNLPPM America Investment Grade Credit Fund	Cisco Systems, Inc.	2/26/2031	4.95	Fixed Income	250,000	262,501	0.107%
JNLPPM America Investment Grade Credit Fund	AstraZeneca Finance LLC	2/26/2034	4.85	Fixed Income	480,000	497,458	0.204%
JNLPPM America Investment Grade Credit Fund	Caterpillar Financial Services Corporation	2/27/2029	4.85	Fixed Income	720,000	747,821	0.306%
JNLPPM America Investment Grade Credit Fund	Waste Connections, Inc.	3/1/2034	5.00	Fixed Income	400,000	412,525	0.169%
JNLPPM America Investment Grade Credit Fund	Skandinaviska Enskilda Banken AB	3/5/2029	5.38	Fixed Income	660,000	685,610	0.281%
JNLPPM America Investment Grade Credit Fund	Abbvie Inc.	3/15/2034	4.90	Fixed Income	2,850,000	2,938,179	1.208%
JNLPPM America Investment Grade Credit Fund	AON North America, Inc.	3/1/2054	5.75	Fixed Income	500,000	532,075	0.218%
JNLPPM America Investment Grade Credit Fund	John Deere Capital Corporation	3/7/2031	4.90	Fixed Income	770,000	799,761	0.327%
JNLPPM America Investment Grade Credit Fund	Barclays PLC	3/12/2055	6.04	Fixed Income	190,000	207,339	0.085%
JNLPPM America Investment Grade Credit Fund	BlackRock Funding, Inc.	3/14/2054	5.25	Fixed Income	300,000	311,748	0.128%
JNLPPM America Investment Grade Credit Fund	CaixaBank, S.A.	3/15/2030	5.67	Fixed Income	790,000	822,678	0.337%
JNLPPM America Investment Grade Credit Fund	Urzard Rady Ministrow	3/18/2054	5.50	Fixed Income	340,000	347,746	0.142%
JNLPPM America Investment Grade Credit Fund	Humana Inc.	4/15/2054	5.75	Fixed Income	620,000	654,611	0.268%
JNLPPM America Investment Grade Credit Fund	Humana Inc.	4/15/2031	5.10	Fixed Income	560,000	586,895	0.245%
JNLPPM America Investment Grade Credit Fund	Tyson Foods, Inc.	5/15/2034	5.70	Fixed Income	450,000	475,443	0.195%
JNLPPM America Investment Grade Credit Fund	UnitedHealth Group Incorporated	4/15/2031	4.90	Fixed Income	800,000	852,629	0.349%
JNLPPM America Investment Grade Credit Fund	Smurfit Kappa Treasury Unlimited Company	4/3/2054	5.78	Fixed Income	400,000	439,531	0.180%
JNLPPM America Investment Grade Credit Fund	Anglo American Capital PLC	4/5/2054	6.00	Fixed Income	240,000	258,887	0.106%
JNLPPM America Investment Grade Credit Fund	Anglo American Capital PLC	4/6/2034	5.75	Fixed Income	300,000	321,725	0.132%
JNLPPM America Investment Grade Credit Fund	Dell Equipment Finance Trust 2024-1	12/22/2026	5.39	Fixed Income	385,000	392,036	0.160%
JNLPPM America Investment Grade Credit Fund	TD SYNEXX Corporation	4/12/2034	6.10	Fixed Income	170,000	184,978	0.076%
JNLPPM America Investment Grade Credit Fund	RWE Finance US, LLC	4/16/2034	5.88	Fixed Income	310,000	332,075	0.136%
JNLPPM America Investment Grade Credit Fund	Morgan Stanley	4/18/2033	5.18	Fixed Income	1,180,000	1,282,101	0.525%
JNLPPM America Investment Grade Credit Fund	Goldman Sachs Group, Inc., The	4/25/2030	5.73	Fixed Income	1,000,000	1,076,546	0.441%
JNLPPM America Investment Grade Credit Fund	Citigroup Inc.	4/30/2026	5.44	Fixed Income	1,200,000	1,251,665	0.512%
JNLPPM America Investment Grade Credit Fund	International Bank for Reconstruction and Development	4/10/2031	4.50	Fixed Income	700,000	745,409	0.305%
JNLPPM America Investment Grade Credit Fund	Shell International Finance B.V.	11/26/2051	3.00	Fixed Income	700,000	496,148	0.203%
JNLPPM America Investment Grade Credit Fund	Roche Holdings, Inc.	11/13/2030	4.59	Fixed Income	770,000	838,115	0.343%
JNLPPM America Investment Grade Credit Fund	Texas Instruments Incorporated	2/8/2027	4.60	Fixed Income	360,000	367,433	0.150%
JNLPPM America Investment Grade Credit Fund	HCA Inc.	3/15/2052	4.63	Fixed Income	750,000	652,629	0.267%
JNLPPM America Investment Grade Credit Fund	Energy Transfer LP	12/15/2030	6.40	Fixed Income	470,000	471,054	0.194%
JNLPPM America Investment Grade Credit Fund	Southern California Edison Company	2/1/2027	4.88	Fixed Income	770,000	786,892	0.322%
JNLPPM America Investment Grade Credit Fund	Apple Inc.	8/8/2052	3.95	Fixed Income	1,100,000	974,149	0.399%
JNLPPM America Investment Grade Credit Fund	Eversource Energy	3/1/2027	2.90	Fixed Income	290,000	281,276	0.115%
JNLPPM America Investment Grade Credit Fund	Piedmont Natural Gas Company, Inc.	5/15/2052	5.05	Fixed Income	250,000	245,367	0.100%
JNLPPM America Investment Grade Credit Fund	Camill, Incorporated	11/10/2031	2.13	Fixed Income	500,000	436,434	0.179%
JNLPPM America Investment Grade Credit Fund	The Cigna Group	5/15/2031	5.13	Fixed Income	606,000	644,565	0.264%
JNLPPM America Investment Grade Credit Fund	NSTAR Electric Company	8/15/2031	1.95	Fixed Income	710,000	605,793	0.248%
JNLPPM America Investment Grade Credit Fund	The Southern Company	6/15/2033	5.20	Fixed Income	410,000	431,367	0.177%
JNLPPM America Investment Grade Credit Fund	Amcor Finance (USA), Inc.	5/26/2033	5.63	Fixed Income	660,000	708,623	0.290%
JNLPPM America Investment Grade Credit Fund	American Express Company	4/23/2027	5.63	Fixed Income	900,000	939,501	0.385%
JNLPPM America Investment Grade Credit Fund	Eli Lilly and Company	2/9/2054	5.00	Fixed Income	250,000	255,092	0.104%
JNLPPM America Investment Grade Credit Fund	Boehringer Company, The	5/1/2034	6.53	Fixed Income	250,000	275,204	0.113%
JNLPPM America Investment Grade Credit Fund	Public Service Enterprise Group Incorporated	3/1/2054	5.45	Fixed Income	720,000	768,207	0.314%
JNLPPM America Investment Grade Credit Fund	Exelon Corporation	3/15/2053	5.60	Fixed Income	490,000	511,324	0.209%
JNLPPM America Investment Grade Credit Fund	Texas Instruments Incorporated	2/8/2054	5.15	Fixed Income	700,000	724,890	0.297%
JNLPPM America Investment Grade Credit Fund	CSL Finance PLC	4/3/2034	5.11	Fixed Income	750,000	797,600	0.327%
JNLPPM America Investment Grade Credit Fund	RWE Finance US, LLC	4/16/2054	6.25	Fixed Income	880,000	863,405	0.353%
JNLPPM America Investment Grade Credit Fund	BPCE	10/19/2027	2.05	Fixed Income	910,000	871,560	0.357%
JNLPPM America Investment Grade Credit Fund	MasterCard Incorporated	3/9/2028	4.88	Fixed Income	1,000,000	1,036,073	0.424%
JNLPPM America Investment Grade Credit Fund	ConocoPhillips Company	9/15/2063	5.70	Fixed Income	100,000	106,887	0.044%
JNLPPM America Investment Grade Credit Fund	TotalEnergies SE	1/4/2054	5.64	Fixed Income	700,000	748,107	0.306%
JNLPPM America Investment Grade Credit Fund	American Airlines, Inc.	6/15/2028	3.65	Fixed Income	163,000	155,204	0.064%
JNLPPM America Investment Grade Credit Fund	Amgen Inc.	8/15/2028	1.65	Fixed Income	700,000	639,126	0.262%
JNLPPM America Investment Grade Credit Fund	Arcade Limited	7/18/2028	6.50	Fixed Income	710,000	752,605	0.308%
JNLPPM America Investment Grade Credit Fund	European Bank for Reconstruction and Development	12/5/2029	4.13	Fixed Income	1,160,000	1,190,198	0.487%
JNLPPM America Investment Grade Credit Fund	Public Service Enterprise Group Incorporated	10/15/2028	5.88	Fixed Income	620,000	621,887	0.306%
JNLPPM America Investment Grade Credit Fund	HSBC Holdings PLC	3/9/2029	6.16	Fixed Income	1,030,000	1,087,722	0.445%
JNLPPM America Investment Grade Credit Fund	Texas Instruments Incorporated	2/8/2029	4.60	Fixed Income	379,000	391,318	0.160%
JNLPPM America Investment Grade Credit Fund	Cisco Systems, Inc.	2/26/2029	4.85	Fixed Income	450,000	467,828	0.192%
JNLPPM America Investment Grade Credit Fund	Canada, Government of	4/30/2029	4.63	Fixed Income	750,000	796,029	0.326%
JNLPPM America Investment Grade Credit Fund	Boeing Company, The	5/1/2029	6.30	Fixed Income	950,000	1,024,382	0.419%
JNLPPM America Investment Grade Credit Fund	Franklin BSP Capital Corporation	6/15/2029	7.20	Fixed Income	228,000	240,322	0.098%
JNLPPM America Investment Grade Credit Fund	Bank of New York Mellon Corporation, The	10/25/2029	6.32	Fixed Income	1,000,000	1,103,531	0.452%
JNLPPM America Investment Grade Credit Fund	The University of Texas System	8/15/2046	4.79	Fixed Income	230,000	232,108	0.095%
JNLPPM America Investment Grade Credit Fund	Nestle Holdings, Inc.	3/14/2030	4.95	Fixed Income	490,000	509,054	0.208%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Investment Grade Credit Fund	Duke Energy Progress, LLC	3/15/2034	5.10	Fixed Income	300,000	313,756	0.128%
JNLPPM America Investment Grade Credit Fund	American Honda Finance Corporation	1/10/2024	4.40	Fixed Income	890,000	813,432	0.319%
JNLPPM America Investment Grade Credit Fund	Duke Energy Corporation	12/15/2041	4.25	Fixed Income	340,000	313,034	0.128%
JNLPPM America Investment Grade Credit Fund	MET Tower Global Funding	1/16/2027	4.85	Fixed Income	1,080,000	1,110,897	0.455%
JNLPPM America Investment Grade Credit Fund	Bayer US Finance II LLC	6/25/2038	4.63	Fixed Income	300,000	276,025	0.113%
JNLPPM America Investment Grade Credit Fund	KW	8/7/2026	4.63	Fixed Income	700,000	715,744	0.293%
JNLPPM America Investment Grade Credit Fund	Walt Disney Company, The	11/15/2037	6.65	Fixed Income	500,000	602,911	0.247%
JNLPPM America Investment Grade Credit Fund	Mead Johnson Nutrition Company	11/1/2039	5.90	Fixed Income	200,000	222,639	0.091%
JNLPPM America Investment Grade Credit Fund	Burlington Northern Santa Fe, LLC	6/1/2041	5.40	Fixed Income	320,000	340,719	0.139%
JNLPPM America Investment Grade Credit Fund	Wipac IT Services, LLC	6/23/2026	1.50	Fixed Income	800,000	477,726	0.196%
JNLPPM America Investment Grade Credit Fund	Kaiser Foundation Hospitals	5/1/2047	4.15	Fixed Income	220,000	202,126	0.083%
JNLPPM America Investment Grade Credit Fund	Enterprise Products Operating LLC	2/15/2042	5.70	Fixed Income	650,000	690,820	0.283%
JNLPPM America Investment Grade Credit Fund	Home Depot, Inc., The	9/30/2026	4.95	Fixed Income	760,000	775,223	0.317%
JNLPPM America Investment Grade Credit Fund	University of Chicago, The	4/1/2045	2.76	Fixed Income	300,000	245,154	0.100%
JNLPPM America Investment Grade Credit Fund	Advocate Health and Hospitals Corporation	6/15/2050	3.01	Fixed Income	400,000	294,835	0.121%
JNLPPM America Investment Grade Credit Fund	Equinor ASA	11/18/2049	3.25	Fixed Income	320,000	244,703	0.100%
JNLPPM America Investment Grade Credit Fund	Nestle Holdings, Inc.	3/13/2026	5.25	Fixed Income	870,000	887,673	0.363%
JNLPPM America Investment Grade Credit Fund	Macquarie Bank Limited	12/7/2026	5.39	Fixed Income	1,090,000	1,138,576	0.466%
JNLPPM America Investment Grade Credit Fund	Consolidated Edison Company of New York, Inc.	4/15/2034	4.45	Fixed Income	680,000	552,378	0.226%
JNLPPM America Investment Grade Credit Fund	Duke Energy Progress, LLC	3/15/2043	4.10	Fixed Income	370,000	325,623	0.133%
JNLPPM America Investment Grade Credit Fund	Inter-American Development Bank	5/15/2026	4.50	Fixed Income	1,810,000	1,860,032	0.761%
JNLPPM America Investment Grade Credit Fund	Southern California, University of	10/1/2047	3.84	Fixed Income	350,000	312,910	0.128%
JNLPPM America Investment Grade Credit Fund	Serviziato Generale Della Presidenza Della Repubblica	5/6/2051	3.88	Fixed Income	250,000	186,493	0.076%
JNLPPM America Investment Grade Credit Fund	Southern California Edison Company	10/1/2043	4.65	Fixed Income	420,000	401,644	0.164%
JNLPPM America Investment Grade Credit Fund	Regal Renewal Corporation	4/15/2028	6.05	Fixed Income	600,000	640,827	0.262%
JNLPPM America Investment Grade Credit Fund	Foundry JV Holdco LLC	1/25/2030	5.90	Fixed Income	208,000	220,323	0.090%
JNLPPM America Investment Grade Credit Fund	Regal Renewal Corporation	4/15/2033	5.90	Fixed Income	400,000	439,180	0.180%
JNLPPM America Investment Grade Credit Fund	Consolidated Edison Company of New York, Inc.	5/15/2054	5.70	Fixed Income	600,000	663,025	0.271%
JNLPPM America Investment Grade Credit Fund	Coca-Cola Company, The	5/1/2054	5.30	Fixed Income	1,000,000	1,084,357	0.444%
JNLPPM America Investment Grade Credit Fund	CVS Health Corporation	6/1/2034	5.70	Fixed Income	400,000	426,365	0.175%
JNLPPM America Investment Grade Credit Fund	DLAD 2024-3 LLC	6/20/2026	5.50	Fixed Income	1,078,000	1,089,609	0.440%
JNLPPM America Investment Grade Credit Fund	CNO Financial Group, Inc.	6/15/2034	6.45	Fixed Income	366,000	384,174	0.157%
JNLPPM America Investment Grade Credit Fund	Johnson & Johnson	6/1/2031	4.90	Fixed Income	800,000	859,324	0.352%
JNLPPM America Investment Grade Credit Fund	SFS Auto Receivables Securitization Trust 2024-2	10/20/2027	5.71	Fixed Income	1,120,881	1,129,124	0.462%
JNLPPM America Investment Grade Credit Fund	Blue Owl Credit Income Corp.	9/15/2029	6.60	Fixed Income	95,000	97,867	0.040%
JNLPPM America Investment Grade Credit Fund	Goldman Sachs Bank USA	5/21/2027	5.70	Fixed Income	1,579,000	1,579,538	0.648%
JNLPPM America Investment Grade Credit Fund	MPLX LP	6/1/2034	5.50	Fixed Income	600,000	629,102	0.258%
JNLPPM America Investment Grade Credit Fund	Comcast Corporation	6/1/2029	5.10	Fixed Income	790,000	837,424	0.343%
JNLPPM America Investment Grade Credit Fund	NTAR Electric Company	6/1/2034	5.40	Fixed Income	195,000	210,147	0.086%
JNLPPM America Investment Grade Credit Fund	Comcast Corporation	6/1/2034	5.00	Fixed Income	800,000	836,148	0.340%
JNLPPM America Investment Grade Credit Fund	Verisk Analytics, Inc.	6/5/2034	5.25	Fixed Income	433,000	454,114	0.186%
JNLPPM America Investment Grade Credit Fund	Morgan Stanley Bank, National Association	5/26/2028	5.50	Fixed Income	590,000	619,467	0.254%
JNLPPM America Investment Grade Credit Fund	Florida Power & Light Company	6/15/2034	5.30	Fixed Income	590,000	636,380	0.261%
JNLPPM America Investment Grade Credit Fund	Lloyds Banking Group PLC	6/1/2030	5.72	Fixed Income	435,000	463,000	0.190%
JNLPPM America Investment Grade Credit Fund	Burlington Northern Santa Fe, LLC	3/15/2055	5.50	Fixed Income	621,000	681,351	0.279%
JNLPPM America Investment Grade Credit Fund	Duke Energy Corporation	6/15/2054	5.80	Fixed Income	550,000	590,320	0.242%
JNLPPM America Investment Grade Credit Fund	John Deere Capital Corporation	6/1/2029	4.85	Fixed Income	658,000	689,476	0.282%
JNLPPM America Investment Grade Credit Fund	General Motors Financial Company, Inc.	6/18/2031	5.60	Fixed Income	800,000	853,034	0.343%
JNLPPM America Investment Grade Credit Fund	AIG Global Funding	6/24/2029	5.20	Fixed Income	604,000	631,602	0.259%
JNLPPM America Investment Grade Credit Fund	Waste Management, Inc.	7/3/2031	4.95	Fixed Income	415,000	436,223	0.179%
JNLPPM America Investment Grade Credit Fund	Apple Inc.	5/13/2045	4.38	Fixed Income	150,000	146,611	0.060%
JNLPPM America Investment Grade Credit Fund	Apple Inc.	2/9/2045	4.00	Fixed Income	400,000	438,198	0.180%
JNLPPM America Investment Grade Credit Fund	Takeda Pharmaceutical Co Ltd	7/5/2034	5.30	Fixed Income	550,000	581,513	0.238%
JNLPPM America Investment Grade Credit Fund	Banco Santander, S.A.	7/15/2028	6.42	Fixed Income	800,000	811,901	0.332%
JNLPPM America Investment Grade Credit Fund	Broadcom Inc.	7/12/2029	5.05	Fixed Income	1,108,000	1,153,945	0.472%
JNLPPM America Investment Grade Credit Fund	Royal Bank of Canada	8/2/2030	4.54	Fixed Income	1,835,000	1,854,606	0.760%
JNLPPM America Investment Grade Credit Fund	BlackRock Funding, Inc.	1/8/2055	5.35	Fixed Income	518,000	566,948	0.232%
JNLPPM America Investment Grade Credit Fund	Prolongs, L.P.	3/15/2054	5.25	Fixed Income	420,000	428,400	0.175%
JNLPPM America Investment Grade Credit Fund	United Airlines Pass Through Certificates, Series 2016-2	2/15/2037	5.45	Fixed Income	527,000	553,263	0.226%
JNLPPM America Investment Grade Credit Fund	UnitedHealth Group Incorporated	1/15/2032	4.95	Fixed Income	780,000	814,112	0.333%
JNLPPM America Investment Grade Credit Fund	Enterprise Products Operating LLC	2/16/2055	5.55	Fixed Income	300,000	312,533	0.128%
JNLPPM America Investment Grade Credit Fund	Enterprise Products Operating LLC	2/15/2035	4.95	Fixed Income	400,000	409,395	0.168%
JNLPPM America Investment Grade Credit Fund	Virginia Electric and Power Company	8/15/2054	5.55	Fixed Income	86,000	90,959	0.037%
JNLPPM America Investment Grade Credit Fund	Entergy Utility Assets, LLC	9/15/2034	5.15	Fixed Income	417,000	433,134	0.177%
JNLPPM America Investment Grade Credit Fund	Meta Platforms, Inc.	8/15/2031	4.55	Fixed Income	538,000	566,948	0.232%
JNLPPM America Investment Grade Credit Fund	Meta Platforms, Inc.	8/15/2064	5.55	Fixed Income	402,000	429,127	0.176%
JNLPPM America Investment Grade Credit Fund	HCA Inc.	9/15/2034	5.45	Fixed Income	346,000	358,609	0.147%
JNLPPM America Investment Grade Credit Fund	Honda Auto Receivables 2024-3 Owner Trust	10/21/2027	4.57	Fixed Income	1,200,000	1,213,873	0.497%
JNLPPM America Investment Grade Credit Fund	EL Lilly and Company	8/14/2054	5.05	Fixed Income	708,000	729,785	0.298%
JNLPPM America Investment Grade Credit Fund	Cox Communications, Inc.	9/1/2054	5.95	Fixed Income	418,000	420,222	0.172%
JNLPPM America Investment Grade Credit Fund	Quest Diagnostics Incorporated	12/15/2029	4.63	Fixed Income	1,341,000	1,364,804	0.559%
JNLPPM America Investment Grade Credit Fund	Cox Communications, Inc.	9/1/2034	5.45	Fixed Income	446,000	454,283	0.186%
JNLPPM America Investment Grade Credit Fund	Intel Corporation	10/1/2041	4.90	Fixed Income	250,000	233,213	0.095%
JNLPPM America Investment Grade Credit Fund	S&P Global Inc.	9/15/2033	5.25	Fixed Income	700,000	744,131	0.305%
JNLPPM America Investment Grade Credit Fund	Treasury, United States Department of	8/15/2044	4.13	Fixed Income	300,000	299,237	0.123%
JNLPPM America Investment Grade Credit Fund	Treasury, United States Department of	12/10/2024		Cash Equivalent	4,700,000	4,658,921	1.907%
JNLPPM America Investment Grade Credit Fund	Pacific Gas And Electric Company	10/1/2054	5.90	Fixed Income	190,000	198,560	0.081%
JNLPPM America Investment Grade Credit Fund	Barclays PLC	9/10/2028	4.84	Fixed Income	327,000	330,841	0.135%
JNLPPM America Investment Grade Credit Fund	Barclays PLC	9/10/2030	4.94	Fixed Income	600,000	607,052	0.249%
JNLPPM America Investment Grade Credit Fund	Newmont Corporation	3/15/2034	5.35	Fixed Income	880,000	924,056	0.378%
JNLPPM America Investment Grade Credit Fund	Citigroup Inc.	9/19/2030	4.54	Fixed Income	1,033,000	1,005,879	0.412%
JNLPPM America Investment Grade Credit Fund	Libcof Holdings Inc.	4/1/2030	4.35	Fixed Income	790,000	783,986	0.321%
JNLPPM America Investment Grade Credit Fund	Sonoco Products Company	9/1/2029	4.60	Fixed Income	173,000	172,800	0.071%
JNLPPM America Investment Grade Credit Fund	Comision Federal De Electricidad, E.P.E.	1/24/2030	5.70	Fixed Income	266,000	266,684	0.109%
JNLPPM America Investment Grade Credit Fund	Comision Federal De Electricidad, E.P.E.	1/24/2035	6.45	Fixed Income	348,000	347,472	0.142%
JNLPPM America Investment Grade Credit Fund	Sonoco Products Company	9/1/2026	4.45	Fixed Income	173,000	173,314	0.071%
JNLPPM America Investment Grade Credit Fund	KW	8/27/2027	3.50	Fixed Income	2,200,000	2,192,982	0.898%
JNLPPM America Investment Grade Credit Fund	GM Financial Automobile Leasing Trust 2024-3	12/20/2026	4.21	Fixed Income	918,000	917,514	0.376%
JNLPPM America Investment Grade Credit Fund	Broadcom Inc.	2/15/2030	4.35	Fixed Income	1,017,000	1,015,158	0.416%
Total Non Derivatives						244,265,871	
Derivatives							
JNLPPM America Investment Grade Credit Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-6	507	0.000%
JNLPPM America Investment Grade Credit Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	24	4,651	0.002%
JNLPPM America Investment Grade Credit Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	20	(2,125)	-0.001%
JNLPPM America Investment Grade Credit Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-49	(8,261)	-0.003%
JNLPPM America Investment Grade Credit Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	14	(12,772)	-0.005%
JNLPPM America Investment Grade Credit Fund	CDX NAG 43 EXCHANGE CLEARED CDS - INDEX			Derivative	5,000,000	1,170	0.000%
Total Derivatives						(16,839)	
Total All Investments						244,268,841	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLPPM America Total Return Fund	Cash			Cash Equivalent	5,663,079	5,663,079	0.357%
JNLPPM America Total Return Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	43,309,947	43,525,768	2.742%
JNLPPM America Total Return Fund	Sequoia Mortgage Trust 2020-4	10/25/2043	2.50	Fixed Income	2,449,741	2,075,586	0.131%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2046	3.00	Fixed Income	225,295	207,243	0.013%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2045	3.50	Fixed Income	793,940	754,716	0.048%
JNLPPM America Total Return Fund	Grace Trust	12/12/2039	2.35	Fixed Income	5,550,000	4,794,239	0.302%
JNLPPM America Total Return Fund	Treasury, United States Department of	11/15/2050	1.63	Fixed Income	2,747,000	1,631,582	0.103%
JNLPPM America Total Return Fund	Government National Mortgage Association	8/20/2050	2.50	Fixed Income	4,278,770	3,786,185	0.239%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	3,480,990	2,902,834	0.183%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2035	2.00	Fixed Income	990,507	930,480	0.057%
JNLPPM America Total Return Fund	Targa Resources Partners LP	9/1/2030	5.50	Fixed Income	1,250,000	1,277,557	0.080%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	5,186,630	4,354,360	0.274%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.00	Fixed Income	5,715,052	4,764,174	0.300%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	387,312	312,984	0.019%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2048	4.00	Fixed Income	2,061,932	2,014,684	0.127%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	3/1/2048	3.50	Fixed Income	3,365,794	3,185,041	0.201%
JNLPPM America Total Return Fund	Marb Bondco PLC	1/29/2031	3.95	Fixed Income	3,470,000	3,099,924	0.195%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2047	4.00	Fixed Income	2,419,036	2,366,193	0.149%
JNLPPM America Total Return Fund	UPC Holdings, LLC	4/29/2026	8.29	Fixed Income	1,253,465	1,273,312	0.080%
JNLPPM America Total Return Fund	Pacific Gas And Electric Company	6/1/2031	3.25	Fixed Income	1,512,000	1,393,510	0.088%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.50	Fixed Income	365,337	365,876	0.023%
JNLPPM America Total Return Fund	CM Trust 2021-12	11/25/2042	2.50	Fixed Income	4,800,718	4,047,668	0.255%
JNLPPM America Total Return Fund	Resorts World Las Vegas LLC	4/6/2031	4.63	Fixed Income	2,300,000	2,050,085	0.129%
JNLPPM America Total Return Fund	First Brands Group, LLC	3/22/2027	10.25	Fixed Income	518,550	518,302	0.033%
JNLPPM America Total Return Fund	Energy Transfer LP	1/1/2200	7.13	Fixed Income	2,573,000	2,701,003	0.170%
JNLPPM America Total Return Fund	Energy Transfer LP	1/1/2200	6.75	Fixed Income	4,089,000	4,179,512	0.263%
JNLPPM America Total Return Fund	Kubota Credit Owner Trust 2020-1	8/15/2025	0.62	Fixed Income	17,837	17,810	0.001%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	2/1/2051	3.00	Fixed Income	2,315,551	2,113,148	0.133%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	4/1/2051	2.00	Fixed Income	5,021,982	4,195,790	0.264%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	5,307,222	4,439,016	0.280%
JNLPPM America Total Return Fund	DLRA 2021-1, LLC	4/1/2036	0.87	Fixed Income	444,860	440,578	0.028%
JNLPPM America Total Return Fund	Amazon.com, Inc.	5/1/2051	3.10	Fixed Income	1,840,000	1,392,717	0.088%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.00	Fixed Income	5,544,331	4,651,198	0.293%
JNLPPM America Total Return Fund	Ginnie Mae II	3/20/2051	2.50	Fixed Income	3,284,746	2,902,747	0.183%
JNLPPM America Total Return Fund	Ginnie Mae II	4/20/2051	3.00	Fixed Income	3,445,927	3,340,534	0.210%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	6/1/2029	2.07	Fixed Income	3,861,000	3,598,957	0.227%
JNLPPM America Total Return Fund	Energy Transfer LP	1/1/2200	6.50	Fixed Income	565,000	579,171	0.036%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	6,643,520	6,983,120	0.433%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2049	3.50	Fixed Income	125,099	117,961	0.007%
JNLPPM America Total Return Fund	Carnival Corporation	8/1/2028	4.00	Fixed Income	1,652,000	1,605,431	0.101%
JNLPPM America Total Return Fund	Morgan Stanley	12/10/2026	0.99	Fixed Income	1,980,000	1,904,847	0.120%
JNLPPM America Total Return Fund	DIRECTV Financing, LLC	8/15/2027	5.88	Fixed Income	1,124,000	1,110,562	0.070%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/2/2039	4.00	Fixed Income	500,000	496,504	0.031%
JNLPPM America Total Return Fund	First Investors Auto Owner Trust 2021-2	10/15/2024	0.48	Fixed Income	11,409	11,392	0.001%
JNLPPM America Total Return Fund	Targa Resources Partners LP	2/1/2031	4.88	Fixed Income	1,897,000	1,887,194	0.119%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	10/1/2050	2.00	Fixed Income	4,997,712	3,678,292	0.232%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.00	Fixed Income	4,734,205	4,033,193	0.258%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2051	2.00	Fixed Income	3,444,307	2,870,091	0.181%
JNLPPM America Total Return Fund	Ginnie Mae II	9/20/2051	2.50	Fixed Income	3,417,978	3,018,349	0.190%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2036	2.50	Fixed Income	225,091	214,370	0.014%
JNLPPM America Total Return Fund	P&G Global Funding	9/20/2028	2.00	Fixed Income	3,295,000	3,050,243	0.190%
JNLPPM America Total Return Fund	Hartford Financial Services Group, Inc., The	9/15/2051	2.90	Fixed Income	2,081,000	1,412,649	0.089%
JNLPPM America Total Return Fund	Ginnie Mae II	10/20/2051	2.50	Fixed Income	3,499,963	3,090,748	0.195%
JNLPPM America Total Return Fund	OPG Trust 2021-PORT	10/15/2036	5.69	Fixed Income	3,387,388	3,362,140	0.212%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	3,550,052	2,846,004	0.180%
JNLPPM America Total Return Fund	Ginnie Mae II	10/20/2051	2.00	Fixed Income	2,549,693	2,156,625	0.136%
JNLPPM America Total Return Fund	CCG Receivables Trust 2021-2	3/14/2029	0.54	Fixed Income	867,512	857,658	0.054%
JNLPPM America Total Return Fund	GM Financial Consumer Automobile Receivables Trust 2021-4	10/18/2027	1.25	Fixed Income	2,900,000	2,790,937	0.176%
JNLPPM America Total Return Fund	Hilton Grand Vacations Trust 2019-A	7/25/2033	2.34	Fixed Income	878,115	855,172	0.054%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	4/1/2051	2.00	Fixed Income	2,335,360	2,146,529	0.135%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2051	2.50	Fixed Income	3,391,827	2,955,479	0.186%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2051	2.00	Fixed Income	1,525,503	1,267,366	0.080%
JNLPPM America Total Return Fund	AirCap Ireland Capital Designated Activity Company	10/29/2026	2.45	Fixed Income	4,631,000	4,496,972	0.283%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2051	3.50	Fixed Income	3,523,934	3,091,914	0.195%
JNLPPM America Total Return Fund	DLMT 2021-1, LLC	7/20/2025	1.00	Fixed Income	930,914	926,444	0.058%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2047	3.00	Fixed Income	1,287,733	1,186,162	0.075%
JNLPPM America Total Return Fund	Dallas-Fort Worth International Airport Facility Improvement Corporation	11/1/2046	2.84	Fixed Income	1,855,000	1,422,953	0.090%
JNLPPM America Total Return Fund	Ginnie Mae II	3/20/2051	2.00	Fixed Income	855,033	785,034	0.049%
JNLPPM America Total Return Fund	Treasury, United States Department of	11/15/2031	1.38	Fixed Income	14,001,000	12,061,072	0.760%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	1,327,333	1,101,484	0.069%
JNLPPM America Total Return Fund	Hyundai Auto Receivables Trust 2021-C	11/15/2025	1.49	Fixed Income	1,815,000	1,752,712	0.110%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2051	2.50	Fixed Income	2,908,785	2,496,938	0.156%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	2,883,408	2,519,675	0.159%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.50	Fixed Income	3,806,735	3,334,854	0.210%
JNLPPM America Total Return Fund	Ginnie Mae II	12/20/2052	2.00	Fixed Income	4,174,320	3,543,900	0.223%
JNLPPM America Total Return Fund	Macys Retail Holdings	12/15/2030	5.98	Fixed Income	1,101,000	1,091,538	0.068%
JNLPPM America Total Return Fund	Macys Retail Holdings	3/15/2032	6.13	Fixed Income	562,000	546,481	0.034%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	1,130,636	984,830	0.062%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	1,592,952	1,321,908	0.083%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	9,370,183	7,784,612	0.490%
JNLPPM America Total Return Fund	GM Financial Consumer Automobile Receivables Trust 2022-2	4/17/2028	3.77	Fixed Income	3,443,000	3,468,425	0.215%
JNLPPM America Total Return Fund	Ginnie Mae II	4/20/2052	2.50	Fixed Income	392,486	346,719	0.022%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2037	2.50	Fixed Income	68,888	64,745	0.004%
JNLPPM America Total Return Fund	J.P. Morgan Mortgage Trust 2022-4	9/25/2043	3.00	Fixed Income	5,095,923	4,471,473	0.282%
JNLPPM America Total Return Fund	Treasury, United States Department of	11/15/2031	2.88	Fixed Income	7,015,000	6,015,000	0.381%
JNLPPM America Total Return Fund	Treasury, United States Department of	5/15/2032	3.88	Fixed Income	31,688,300	30,309,364	1.909%
JNLPPM America Total Return Fund	Ginnie Mae II	5/20/2052	3.50	Fixed Income	439,050	413,886	0.026%
JNLPPM America Total Return Fund	Pacific Gas And Electric Company	6/15/2032	5.90	Fixed Income	3,593,000	3,871,051	0.244%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/20/2052	4.00	Fixed Income	1,285,950	1,087,158	0.067%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2048	3.50	Fixed Income	426,895	404,904	0.026%
JNLPPM America Total Return Fund	Ginnie Mae II	6/20/2052	3.00	Fixed Income	1,473,804	1,347,476	0.085%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.00	Fixed Income	1,240,352	1,196,426	0.075%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2037	3.50	Fixed Income	1,543,438	1,515,139	0.096%
JNLPPM America Total Return Fund	BX Trust 2022-PSB	8/15/2039	7.55	Fixed Income	3,625,268	3,646,485	0.230%
JNLPPM America Total Return Fund	New York Life Global Funding	8/7/2030	1.20	Fixed Income	2,243,000	3,601,973	0.227%
JNLPPM America Total Return Fund	Blackstone Private Credit Fund	3/31/2027	3.25	Fixed Income	1,648,000	1,573,476	0.099%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2052	2.50	Fixed Income	2,436,933	2,425,495	0.152%
JNLPPM America Total Return Fund	Credit Suisse AG	7/9/2027	5.00	Fixed Income	1,360,000	1,405,993	0.089%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.50	Fixed Income	1,077,205	1,063,309	0.067%
JNLPPM America Total Return Fund	Chase Issuance Trust	9/15/2025	3.97	Fixed Income	4,553,000	4,546,768	0.286%
JNLPPM America Total Return Fund	Hyundai Auto Lease Securitization Trust 2022-C	12/16/2024	4.38	Fixed Income	707,150	707,150	0.045%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2052	5.00	Fixed Income	1,380,682	1,387,952	0.087%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	781,353	786,688	0.050%
JNLPPM America Total Return Fund	Lloyds Banking Group PLC	1/1/2200	7.50	Fixed Income	2,152,000	2,161,844	0.136%
JNLPPM America Total Return Fund	Ginnie Mae II	10/20/2052	4.00	Fixed Income	1,114,116	1,081,117	0.068%
JNLPPM America Total Return Fund	Ginnie Mae II	10/20/2052	5.50	Fixed Income	833,889	827,078	0.052%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	350,324	341,640	0.022%
JNLPPM America Total Return Fund	UnitedHealth Group Incorporated	2/15/2053	5.88	Fixed Income	2,979,000	3,313,386	0.209%
JNLPPM America Total Return Fund	American Express Credit Account Master Trust	10/15/2025	4.95	Fixed Income	687,000	6,748,585	0.425%
JNLPPM America Total Return Fund	Ford Motor Credit Company LLC	11/4/2027	7.35	Fixed Income	3,456,000	3,776,792	0.238%
JNLPPM America Total Return Fund	Yara International ASA	11/14/2032	7.38	Fixed Income	2,641,000	3,069,697	0.193%
JNLPPM America Total Return Fund	National Securities Clearing Corporation	11/21/2027	5.10	Fixed Income	3,115,000	3,260,508	0.205%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2052	5.00	Fixed Income	2,052,095	2,066,107	0.130%
JNLPPM America Total Return Fund	Ginnie Mae II	11/20/2052	4.50	Fixed Income	2,282,725	2,205,488	0.143%
JNLPPM America Total Return Fund	Verizon Master Trust	11/20/2024	5.23	Fixed Income	6,175,000	6,193,839	0.390%
JNLPPM America Total Return Fund	Discover Card Execution Note Trust	10/10/2025	5.03	Fixed Income	11,610,000	11,715,854	0.738%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2037	3.00	Fixed Income	614,828	590,907	0.037%
JNLPPM America Total Return Fund	Public Service Electric And Gas Company	12/15/2032	4.00	Fixed Income	4,460,000	4,786,247	0.302%
JNLPPM America Total Return Fund	Bank of Nova Scotia, The	12/6/2024	5.25	Fixed Income	2,750,000	2,796,126	0.176%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.50	Fixed Income	2,037,564	2,011,279	0.127%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.00	Fixed Income	1,173,501	1,178,946	0.074%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2037	3.50	Fixed Income	1,661,633	1,661,633	0.102%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2037	4.00	Fixed Income	1,125,005	1,120,829	0.071%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2052	5.00	Fixed Income	1,137,935	1,144,335	0.072%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	10/1/2047	3.50	Fixed Income	318,125	301,673	0.019%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2053	4.00	Fixed Income	228,690	227,847	0.014%
JNLPPM America Total Return Fund	Pacific Gas And Electric Company	11/15/2053	6.75	Fixed Income	2,169,000	2,503,319	0.158%
JNLPPM America Total Return Fund	New York Life Global Funding	1/9/2028	4.85	Fixed Income	6,254,000	6	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2046	3.50	Fixed Income	548,647	521,584	0.033%
JNLPPM America Total Return Fund	Government National Mortgage Association	11/20/2046	3.50	Fixed Income	280,210	280,210	0.017%
JNLPPM America Total Return Fund	Treasury, United States Department of	2/15/2048	3.00	Fixed Income	16,469,979	13,469,979	0.849%
JNLPPM America Total Return Fund	Government National Mortgage Association	12/20/2046	3.00	Fixed Income	756,324	697,404	0.044%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2046	3.00	Fixed Income	775,172	712,091	0.045%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2046	3.00	Fixed Income	1,387,778	1,256,474	0.078%
JNLPPM America Total Return Fund	Government National Mortgage Association	3/20/2047	3.50	Fixed Income	927,477	883,071	0.056%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	3/1/2046	4.00	Fixed Income	81,418	79,657	0.005%
JNLPPM America Total Return Fund	Government National Mortgage Association	5/20/2047	3.50	Fixed Income	1,301,974	1,239,153	0.078%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	5/1/2047	4.00	Fixed Income	276,131	270,703	0.017%
JNLPPM America Total Return Fund	Government National Mortgage Association	7/20/2047	4.00	Fixed Income	876,033	789,770	0.054%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2046	3.00	Fixed Income	375,671	345,182	0.022%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2046	3.50	Fixed Income	96,588	91,673	0.006%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	10/1/2047	3.50	Fixed Income	430,530	408,264	0.026%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	6/1/2046	4.50	Fixed Income	414,998	419,118	0.026%
JNLPPM America Total Return Fund	Government National Mortgage Association	5/20/2048	3.50	Fixed Income	256,637	244,094	0.015%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2047	3.50	Fixed Income	1,382,474	1,309,681	0.083%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2047	3.50	Fixed Income	232,092	219,871	0.014%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2046	4.50	Fixed Income	647,758	652,762	0.041%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.50	Fixed Income	1,474,476	1,403,586	0.088%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.00	Fixed Income	3,034,323	2,784,264	0.175%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.00	Fixed Income	1,035,229	949,916	0.060%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.50	Fixed Income	493,735	469,997	0.030%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2047	3.00	Fixed Income	853,116	782,811	0.049%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2047	4.00	Fixed Income	1,078,124	1,053,420	0.066%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2047	4.00	Fixed Income	734,132	717,310	0.045%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2047	4.00	Fixed Income	25,731	25,141	0.002%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2047	4.50	Fixed Income	188,956	189,471	0.012%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2047	4.00	Fixed Income	1,217,982	1,190,073	0.075%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2047	4.00	Fixed Income	756,017	737,749	0.046%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2047	4.50	Fixed Income	118,462	118,711	0.007%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2047	5.00	Fixed Income	968,919	907,423	0.057%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	852,322	831,193	0.052%
JNLPPM America Total Return Fund	Government National Mortgage Association	11/20/2048	4.00	Fixed Income	967,674	946,186	0.060%
JNLPPM America Total Return Fund	Government National Mortgage Association	12/20/2048	4.50	Fixed Income	407,680	407,680	0.026%
JNLPPM America Total Return Fund	Government National Mortgage Association	8/20/2047	3.50	Fixed Income	385,848	357,170	0.023%
JNLPPM America Total Return Fund	Government National Mortgage Association	1/20/2049	4.50	Fixed Income	124,445	124,400	0.008%
JNLPPM America Total Return Fund	Government National Mortgage Association	7/20/2048	4.00	Fixed Income	1,266,587	1,239,253	0.078%
JNLPPM America Total Return Fund	United Airlines, Inc.	10/29/2024	4.00	Fixed Income	944,733	958,375	0.060%
JNLPPM America Total Return Fund	Transocean Petroleum Limited	2/1/2027	6.88	Fixed Income	676,600	683,118	0.043%
JNLPPM America Total Return Fund	ZF North America Capital, Inc.	4/29/2025	4.75	Fixed Income	4,402,000	4,454,298	0.281%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	10/25/2026	2.71	Fixed Income	174,645	169,448	0.011%
JNLPPM America Total Return Fund	Bank 2017-BnkS	6/1/2027	3.62	Fixed Income	2,286,000	2,201,276	0.139%
JNLPPM America Total Return Fund	Pacific Gas And Electric Company	12/1/2027	3.50	Fixed Income	695,000	690,862	0.043%
JNLPPM America Total Return Fund	Mars, Incorporated	10/1/2027	3.74	Fixed Income	1,200,000	1,192,903	0.075%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	5/1/2048	3.50	Fixed Income	281,255	266,182	0.017%
JNLPPM America Total Return Fund	GLP Financing, LLC	6/1/2028	5.75	Fixed Income	343,000	359,269	0.023%
JNLPPM America Total Return Fund	American Airlines, Inc.	2/15/2028	3.20	Fixed Income	3,172,472	3,014,843	0.238%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2032	3.00	Fixed Income	767,749	749,518	0.047%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2031	2.50	Fixed Income	361,615	349,263	0.022%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2031	2.50	Fixed Income	227,362	219,598	0.014%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2031	3.00	Fixed Income	156,301	152,960	0.010%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2031	2.50	Fixed Income	354,032	341,712	0.022%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	2/1/2038	5.00	Fixed Income	102,960	105,840	0.007%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	3/1/2038	5.00	Fixed Income	111,867	115,159	0.007%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	5/1/2038	5.00	Fixed Income	84,143	88,789	0.006%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2035	5.00	Fixed Income	385,750	375,157	0.024%
JNLPPM America Total Return Fund	Treasury, United States Department of	8/15/2041	3.75	Fixed Income	10,898,000	10,555,142	0.665%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2048	4.50	Fixed Income	131,520	131,775	0.008%
JNLPPM America Total Return Fund	Government National Mortgage Association	8/20/2041	5.00	Fixed Income	192,304	187,638	0.012%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2047	3.50	Fixed Income	238,271	238,848	0.015%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	12/1/2047	3.50	Fixed Income	833,429	789,545	0.050%
JNLPPM America Total Return Fund	National Rural Utilities Cooperative Finance Corporation	4/30/2043	8.43	Fixed Income	803,000	814,407	0.051%
JNLPPM America Total Return Fund	Treasury, United States Department of	11/15/2041	3.13	Fixed Income	11,200,000	10,023,201	0.631%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2041	2.99	Fixed Income	299,720	299,599	0.019%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	3/1/2042	4.50	Fixed Income	756,634	766,973	0.048%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	4/1/2042	3.50	Fixed Income	235,645	227,414	0.014%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	5/1/2042	3.50	Fixed Income	118,412	114,222	0.007%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	6/1/2042	3.50	Fixed Income	215,853	205,853	0.013%
JNLPPM America Total Return Fund	Government National Mortgage Association	6/20/2043	3.50	Fixed Income	326,486	314,000	0.020%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2043	3.00	Fixed Income	364,522	338,917	0.021%
JNLPPM America Total Return Fund	Government National Mortgage Association	5/20/2044	4.00	Fixed Income	601,192	590,166	0.037%
JNLPPM America Total Return Fund	Treasury, United States Department of	2/15/2045	3.50	Fixed Income	120,900	116,900	0.008%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	6/1/2044	3.50	Fixed Income	144,162	138,515	0.009%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2040	4.50	Fixed Income	420,690	425,851	0.027%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	69,463	70,328	0.004%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.50	Fixed Income	1,086,905	1,087,810	0.069%
JNLPPM America Total Return Fund	Government National Mortgage Association	4/20/2045	3.50	Fixed Income	406,231	388,154	0.024%
JNLPPM America Total Return Fund	Government National Mortgage Association	6/20/2045	3.50	Fixed Income	309,131	295,374	0.019%
JNLPPM America Total Return Fund	Government National Mortgage Association	7/20/2045	3.00	Fixed Income	1,100,401	1,019,490	0.064%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	10/1/2045	4.00	Fixed Income	413,525	406,431	0.026%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2042	5.00	Fixed Income	244,793	251,793	0.016%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2042	3.50	Fixed Income	230,617	222,444	0.014%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2043	3.00	Fixed Income	246,632	229,483	0.014%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	3/1/2043	3.00	Fixed Income	361,550	335,612	0.021%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2043	3.50	Fixed Income	2,853,561	2,853,420	0.187%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2044	4.50	Fixed Income	26,796	27,012	0.002%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2044	4.00	Fixed Income	221,196	217,510	0.014%
JNLPPM America Total Return Fund	Ford Motor Credit Company LLC	11/2/2027	3.82	Fixed Income	4,056,000	3,988,069	0.250%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	7/20/2043	3.00	Fixed Income	179,431	179,824	0.011%
JNLPPM America Total Return Fund	Government National Mortgage Association	3/20/2049	3.50	Fixed Income	225,797	214,338	0.014%
JNLPPM America Total Return Fund	MWV 2019-1 LLC	3/20/2027	2.89	Fixed Income	555,162	546,404	0.034%
JNLPPM America Total Return Fund	Government National Mortgage Association	7/20/2049	4.00	Fixed Income	207,470	202,604	0.013%
JNLPPM America Total Return Fund	ICI Gaming Authority	4/15/2025	4.36	Fixed Income	215,682	218,147	0.013%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	7/23/2029	4.20	Fixed Income	4,324,000	4,342,823	0.274%
JNLPPM America Total Return Fund	Hudson Yards 2019-30HY Mortgage Trust	7/12/2029	3.23	Fixed Income	2,295,000	2,129,475	0.134%
JNLPPM America Total Return Fund	Bank of America Corporation	7/23/2029	4.27	Fixed Income	7,915,000	7,962,238	0.502%
JNLPPM America Total Return Fund	Government National Mortgage Association	12/20/2049	3.50	Fixed Income	1,211,980	1,153,507	0.073%
JNLPPM America Total Return Fund	Bank of America Corporation	7/23/2030	3.19	Fixed Income	1,658,000	1,579,659	0.100%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.50	Fixed Income	2,660,000	2,477,852	0.156%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	2/1/2033	3.00	Fixed Income	96,888	94,300	0.006%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.50	Fixed Income	617,740	617,465	0.039%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2047	4.00	Fixed Income	98,176	96,141	0.006%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	10/15/2030	2.74	Fixed Income	2,970,000	2,791,172	0.176%
JNLPPM America Total Return Fund	Government National Mortgage Association	2/20/2049	4.50	Fixed Income	671,632	671,388	0.042%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	10/1/2049	3.00	Fixed Income	297,375	270,824	0.017%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2049	5.00	Fixed Income	266,125	258,943	0.016%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.50	Fixed Income	544,687	516,457	0.033%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2046	3.50	Fixed Income	576,080	546,763	0.034%
JNLPPM America Total Return Fund	Government National Mortgage Association	12/20/2047	3.50	Fixed Income	161,385	153,699	0.010%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	6/1/2047	4.00	Fixed Income	47,229	46,146	0.003%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.00	Fixed Income	92,453	90,161	0.006%
JNLPPM America Total Return Fund	Vistra Operations Company LLC	1/30/2027	3.70	Fixed Income	2,515,000	2,478,186	0.156%
JNLPPM America Total Return Fund	Government National Mortgage Association	5/20/2049	4.50	Fixed Income	162,970	162,911	0.010%
JNLPPM America Total Return Fund	MCE Finance Limited	1/24/2029	5.38	Fixed Income	2,055,000	1,964,084	0.124%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2048	4.00	Fixed Income	370,604	361,533	0.023%
JNLPPM America Total Return Fund	COMM 2015-CCRE27 Mortgage Trust	9/12/2025	3.61	Fixed Income	1,825,000	1,805,301	0.114%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.00	Fixed Income	1,631,630	1,595,771	0.101%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	12/1/2049	3.00	Fixed Income	522,808	476,129	0.030%
JNLPPM America Total Return Fund	Avolon Holdings Funding Limited	2/15/2025	2.88	Fixed Income	388,000	385,373	0.024%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2046	3.00	Fixed Income	929,124	852,555	0.054%
JNLPPM America Total Return Fund	ICI Properties Inc.	2/15/2027	3.75	Fixed Income	1,679,000	1,644,915	0.104%
JNLPPM America Total Return Fund	ICI Properties Inc.	11/15/2030	4.13	Fixed Income	2,068,000	2,027,496	0.128%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2050	3.00	Fixed Income	1,388,101	1,268,936	0.080%
JNLPPM America Total Return Fund	Government National Mortgage Association	1/20/2050	3.50	Fixed Income	1,644,895	1,559,873	0.098%
JNLPPM America Total Return Fund	Government National Mortgage Association	2/20/2050	3.00	Fixed Income	1,456,490	1,337,108	0.084%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	3/13/2023	2.01	Fixed Income	2,805,000	2,769,762	0.148%
JNLPPM America Total Return Fund	Comcast Corporation	4/1/2040	3.75	Fixed Income	1,021,000	903,497	0.057%
JNLPPM America Total Return Fund	Morgan Stanley	4/1/2031	3.62	Fixed Income	1,108,000	1,083,690	0.068%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	6/1/2048	4.00	Fixed Income	177,106	172,905	0.011%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	3/1/2050	3.00	Fixed Income	216,677	197,788	0.012%
JNLPPM America Total Return Fund	Bank of America Corporation	4/28/2031	2.59	Fixed Income	2,772,000	2,545,748	0.160%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	3/1/2048	3.50	Fixed Income	940.074	889.589	0.056%
JNLPPM America Total Return Fund	Pacific Gas And Electric Company	7/1/2040	4.50	Fixed Income	5,083.000	5,083.000	0.368%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/5/2030	0.88	Fixed Income	7,104.000	6,054.975	0.381%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	7/1/2050	2.50	Fixed Income	1,881.889	1,642.730	0.103%
JNLPPM America Total Return Fund	Aircastle Limited	8/11/2025	5.25	Fixed Income	3,595.000	3,623.367	0.228%
JNLPPM America Total Return Fund	Pioneer Natural Resources Company	8/15/2030	1.90	Fixed Income	1,170.000	1,555.215	0.089%
JNLPPM America Total Return Fund	Ford Motor Credit Company LLC	8/17/2027	4.13	Fixed Income	632.000	619.748	0.039%
JNLPPM America Total Return Fund	Manhattan West 2020-1MW Mortgage Trust	9/10/2027	2.13	Fixed Income	3,832.588	3,556.431	0.224%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2035	2.50	Fixed Income	3,344.544	3,158.068	0.199%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2050	2.50	Fixed Income	4,039.653	3,523.751	0.222%
JNLPPM America Total Return Fund	Government National Mortgage Association	3/20/2050	3.50	Fixed Income	742.470	704.093	0.044%
JNLPPM America Total Return Fund	SkyKites IP Ltd.	10/20/2025	4.50	Fixed Income	129.583	130.185	0.008%
JNLPPM America Total Return Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	1,880.000	1,915.749	0.121%
JNLPPM America Total Return Fund	Government National Mortgage Association	9/20/2050	2.50	Fixed Income	3,695.094	3,269.704	0.206%
JNLPPM America Total Return Fund	San Diego Gas & Electric Company	10/1/2030	1.70	Fixed Income	1,428.000	1,247.204	0.078%
JNLPPM America Total Return Fund	Centene Corporation	10/15/2030	3.00	Fixed Income	3,383.000	3,074.194	0.194%
JNLPPM America Total Return Fund	Government National Mortgage Association	4/20/2050	3.00	Fixed Income	549.372	504.170	0.032%
JNLPPM America Total Return Fund	Government National Mortgage Association	3/20/2050	4.00	Fixed Income	635.945	621.028	0.039%
JNLPPM America Total Return Fund	Low's Companies, Inc.	10/15/2050	6.50	Fixed Income	1,109.000	799.915	0.049%
JNLPPM America Total Return Fund	Ginnie Mae II	8/20/2052	4.50	Fixed Income	2,480.640	2,460.358	0.155%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.50	Fixed Income	3,231.162	3,189.479	0.201%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	3,729.876	3,230.923	0.204%
JNLPPM America Total Return Fund	Synovus Bank	2/15/2028	5.63	Fixed Income	860.000	871.364	0.055%
JNLPPM America Total Return Fund	Celanese US Holdings LLC	7/15/2032	6.38	Fixed Income	2,546.000	2,757.726	0.174%
JNLPPM America Total Return Fund	Treasury, United States Department of	2/15/2033	3.50	Fixed Income	6,755.000	6,668.038	0.420%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	1/1/2053	5.00	Fixed Income	2,203.709	2,213.936	0.139%
JNLPPM America Total Return Fund	Amgen Inc.	3/2/2053	5.65	Fixed Income	2,999.000	3,117.138	0.204%
JNLPPM America Total Return Fund	PPL Electric Utilities Corporation	5/15/2033	5.00	Fixed Income	7,236.000	7,602.453	0.479%
JNLPPM America Total Return Fund	San Diego Gas & Electric Company	4/1/2053	5.35	Fixed Income	3,349.000	3,529.114	0.222%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2052	4.50	Fixed Income	1,364.179	1,346.581	0.085%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.50	Fixed Income	1,846.455	1,685.614	0.108%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	6/1/2037	6.50	Fixed Income	2,115.221	2,033.885	0.129%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2052	5.00	Fixed Income	1,332.870	1,339.889	0.084%
JNLPPM America Total Return Fund	Dell Equipment Finance Trust 2023-1	9/22/2028	5.65	Fixed Income	1,227.977	1,230.088	0.077%
JNLPPM America Total Return Fund	HPFS Equipment Trust 2023-1	2/20/2025	5.43	Fixed Income	3,263.573	3,272.096	0.206%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	2/1/2053	3,168.925	Fixed Income		3,182.913	0.204%
JNLPPM America Total Return Fund	Credit Suisse AG	19/20/25	7.95	Fixed Income	1,061.000	1,088.952	0.069%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	10/1/2037	4.00	Fixed Income	1,439.432	1,434.089	0.090%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.00	Fixed Income	1,741.947	1,680.257	0.106%
JNLPPM America Total Return Fund	Online Midstream, LLC	9/1/2038	6.50	Fixed Income	1,498.000	1,622.488	0.177%
JNLPPM America Total Return Fund	GM Financial Consumer Automobile Receivables Trust 2023-2	2/16/2028	4.47	Fixed Income	3,000.000	3,011.471	0.190%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	3/1/2037	2.00	Fixed Income	4,148.187	3,802.458	0.240%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	9/1/2052	2.50	Fixed Income	1,700.679	1,471.794	0.093%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2052	3.00	Fixed Income	5,882.708	5,305.185	0.346%
JNLPPM America Total Return Fund	Wells Fargo & Company	4/24/2034	5.39	Fixed Income	1,533.000	1,627.952	0.103%
JNLPPM America Total Return Fund	Ginnie Mae II	4/20/2053	4.00	Fixed Income	2,591.529	2,515.152	0.158%
JNLPPM America Total Return Fund	Ginnie Mae II	5/20/2052	3.00	Fixed Income	4,156.515	3,800.235	0.239%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2036	2.00	Fixed Income	3,297.724	3,028.910	0.193%
JNLPPM America Total Return Fund	Ginnie Mae II	4/20/2053	5.00	Fixed Income	3,657.163	3,682.560	0.232%
JNLPPM America Total Return Fund	Warnermedia Holdings, Inc.	3/15/2042	5.05	Fixed Income	1,334.000	2,565.088	0.162%
JNLPPM America Total Return Fund	GM Financial Automobile Leasing Trust 2023-2	7/20/2026	5.05	Fixed Income	650.000	652.988	0.041%
JNLPPM America Total Return Fund	GM Financial Automobile Leasing Trust 2023-2	10/20/2025	5.48	Fixed Income	419.392	430.348	0.028%
JNLPPM America Total Return Fund	Edison International	11/15/2028	5.25	Fixed Income	6,316.000	6,610.934	0.416%
JNLPPM America Total Return Fund	Foundry JV Holdco LLC	1/25/2034	5.88	Fixed Income	1,520.000	1,565.048	0.099%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.50	Fixed Income	2,095.618	2,068.584	0.130%
JNLPPM America Total Return Fund	Ginnie Mae II	4/20/2053	4.50	Fixed Income	7,059.291	7,001.574	0.443%
JNLPPM America Total Return Fund	XPO, Inc.	6/1/2038	6.25	Fixed Income	2,506.000	2,616.388	0.165%
JNLPPM America Total Return Fund	CVS Health Corporation	6/1/2053	5.88	Fixed Income	2,200.000	2,283.896	0.144%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	4/1/2053	4.00	Fixed Income	6,307.325	5,817.857	0.367%
JNLPPM America Total Return Fund	Northwestern Mutual Global Funding	6/12/2028	4.90	Fixed Income	3,795.000	3,530.009	0.248%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	2/1/2038	6.50	Fixed Income	1,468.734	1,468.734	0.096%
JNLPPM America Total Return Fund	Intesa Sanpaolo SPA	6/20/2054	7.78	Fixed Income	2,340.000	2,701.038	0.170%
JNLPPM America Total Return Fund	Dell Equipment Finance Trust 2023-2	2/23/2026	5.65	Fixed Income	4,495.000	4,540.442	0.286%
JNLPPM America Total Return Fund	Hyundai Capital America	6/26/2025	5.80	Fixed Income	3,770.000	3,856.209	0.243%
JNLPPM America Total Return Fund	SFS Auto Receivables Securitization Trust 2023- 1	12/20/2026	5.47	Fixed Income	4,700.000	4,695.365	0.300%
JNLPPM America Total Return Fund	SFS Auto Receivables Securitization Trust 2023- 1	6/20/2025	5.89	Fixed Income	1,818.726	1,828.438	0.115%
JNLPPM America Total Return Fund	Banque Federative du Credit Mutuel	7/13/2026	5.90	Fixed Income	4,935.000	5,134.294	0.323%
JNLPPM America Total Return Fund	Deutsche Bank Aktiensellschaft	7/13/2027	7.15	Fixed Income	5,529.000	5,843.520	0.368%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/2/2052	3.00	Fixed Income	2,978.915	2,991.868	0.189%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2052	2.00	Fixed Income	1,373.414	1,138.437	0.072%
JNLPPM America Total Return Fund	Resorts World Las Vegas LLC	7/27/2030	8.45	Fixed Income	3,810.000	4,081.135	0.257%
JNLPPM America Total Return Fund	Tesla Auto Lease Trust 2023-A	1/21/2025	5.86	Fixed Income	4,028.635	4,040.027	0.255%
JNLPPM America Total Return Fund	Comcast Corporation	5/15/2053	5.36	Fixed Income	1,360.000	1,407.763	0.089%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	2/1/2053	5.50	Fixed Income	2,997.166	2,906.814	0.182%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	8/1/2053	4.50	Fixed Income	7,966.819	7,861.555	0.495%
JNLPPM America Total Return Fund	GS Mortgage Securities Corp II	9/11/2026	4.47	Fixed Income	3,622.000	3,614.209	0.228%
JNLPPM America Total Return Fund	First Brands Group, LLC	3/30/2027	7.00	Fixed Income	2,143.496	2,160.366	0.140%
JNLPPM America Total Return Fund	World Omni Auto Receivables Trust 2023-C	12/15/2026	5.57	Fixed Income	4,123.276	4,139.951	0.261%
JNLPPM America Total Return Fund	GM Financial Automobile Leasing Trust 2023-3	11/20/2026	5.38	Fixed Income	4,366.000	4,406.328	0.278%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	6/1/2052	2.00	Fixed Income	1,038.298	860.656	0.054%
JNLPPM America Total Return Fund	Celanese US Holdings LLC	11/15/2028	6.35	Fixed Income	2,002.000	2,162.841	0.138%
JNLPPM America Total Return Fund	Celanese US Holdings LLC	11/15/2030	6.55	Fixed Income	4,993.000	4,608.125	0.347%
JNLPPM America Total Return Fund	Treasury, United States Department of	8/15/2033	3.88	Fixed Income	16,073.000	16,285.650	1.026%
JNLPPM America Total Return Fund	Ginnie Mae II	6/20/2053	4.50	Fixed Income	1,125.697	1,115.438	0.070%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	7/1/2038	4.50	Fixed Income	3,585.828	3,608.279	0.227%
JNLPPM America Total Return Fund	URS AG	9/11/2025	5.80	Fixed Income	1,544.000	1,646.628	0.103%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.00	Fixed Income	3,510.361	2,948.169	0.186%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	6/1/2038	4.50	Fixed Income	423.368	426.151	0.027%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.00	Fixed Income	2,582.986	2,171.173	0.137%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	1/1/2037	6.50	Fixed Income	1,881.427	1,591.746	0.102%
JNLPPM America Total Return Fund	AmeriCredit Automobile Receivables Trust 2023-2	4/19/2027	6.19	Fixed Income	2,897.378	2,922.014	0.184%
JNLPPM America Total Return Fund	Vistra Operations Company LLC	10/15/2033	6.95	Fixed Income	2,162.000	2,508.454	0.158%
JNLPPM America Total Return Fund	Hyundai Capital America	9/21/2028	6.10	Fixed Income	4,550.000	4,810.301	0.303%
JNLPPM America Total Return Fund	BIS USA Loe S.A.	11/15/2053	7.25	Fixed Income	4,035.000	4,210.265	0.263%
JNLPPM America Total Return Fund	HPFS Equipment Trust 2023-2	7/21/2026	6.04	Fixed Income	3,080.618	3,101.331	0.195%
JNLPPM America Total Return Fund	Mineral Resources Limited	10/01/2028	9.25	Fixed Income	1,988.000	2,203.314	0.139%
JNLPPM America Total Return Fund	Treasury, United States Department of	9/30/2028	6.43	Fixed Income	8,400.000	8,726.567	0.550%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	10/1/2053	6.00	Fixed Income	3,117.112	3,202.218	0.208%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	4/1/2052	3.00	Fixed Income	4,249.781	3,825.518	0.241%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	11/1/2053	6.00	Fixed Income	9,932.098	10,203.271	0.643%
JNLPPM America Total Return Fund	Dell Equipment Finance Trust 2023-3	6/23/2025	6.10	Fixed Income	1,374.026	1,380.636	0.087%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	10/22/2027	6.07	Fixed Income	4,840.000	5,149.662	0.324%
JNLPPM America Total Return Fund	The PNC Financial Services Group, Inc.	10/20/2027	6.62	Fixed Income	4,940.000	5,307.619	0.334%
JNLPPM America Total Return Fund	Bank of New York Mellon Corporation, The	10/25/2034	6.47	Fixed Income	5,563.000	6,452.268	0.406%
JNLPPM America Total Return Fund	Venture Global LNG, Inc.	2/1/2029	9.50	Fixed Income	5,346.000	6,094.622	0.384%
JNLPPM America Total Return Fund	Berry Global, Inc.	7/1/2029	7.32	Fixed Income	3,676.653	3,747.568	0.240%
JNLPPM America Total Return Fund	Morgan Stanley	11/1/2034	6.63	Fixed Income	3,530.000	4,095.125	0.258%
JNLPPM America Total Return Fund	Treasury, United States Department of	10/31/2038	4.88	Fixed Income	15,000.000	16,039.605	1.010%
JNLPPM America Total Return Fund	Treasury, United States Department of	10/31/2030	4.88	Fixed Income	3,750.000	4,078.456	0.257%
JNLPPM America Total Return Fund	Petroleos Mexicanos	7/7/2033	10.00	Fixed Income	1,556.000	1,667.169	0.105%
JNLPPM America Total Return Fund	Hilcorp Energy I, LP	11/1/2033	8.38	Fixed Income	1,886.000	2,098.359	0.132%
JNLPPM America Total Return Fund	RTX Corporation	3/15/2034	6.10	Fixed Income	1,767.000	1,957.029	0.123%
JNLPPM America Total Return Fund	Smyrna Ready Mix Concrete, LLC	11/15/2031	8.88	Fixed Income	2,976.000	3,310.638	0.209%
JNLPPM America Total Return Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.50	Fixed Income	6,187.159	6,107.343	0.385%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	5/1/2053	3.00	Fixed Income	1,331.453	1,198.323	0.075%
JNLPPM America Total Return Fund	Treasury, United States Department of	11/15/2033	4.50	Fixed Income	3,750.000	4,024.092	0.254%
JNLPPM America Total Return Fund	Ares Capital Corporation	1/15/2027	7.00	Fixed Income	3,620.000	3,819.955	0.241%
JNLPPM America Total Return Fund	Tapscott, Inc.	11/27/2033	7.85	Fixed Income	1,346.000	1,496.985	0.094%
JNLPPM America Total Return Fund	Barclays PLC	1/1/2200	9.63	Fixed Income	5,197.000	5,875.109	0.370%
JNLPPM America Total Return Fund	Banco Santander, S.A.	1/1/2200	9.63	Fixed Income	4,021.000	4,782.873	0.301%
JNLPPM America Total Return Fund	INEOS Quattro Holdings UK Ltd	3/9/2029	9.60	Fixed Income	954.425	954.077	0.060%
JNLPPM America Total Return Fund	Intesa Sanpaolo SPA	11/28/2053	7.80	Fixed Income	1,988.000	2,437.532	0.154%
JNLPPM America Total Return Fund	Citibank Credit Card Issuance Trust	11/28/2025	5.23	Fixed Income	900.000	912.077	0.058%
JNLPPM America Total Return Fund	Flutter Financing B.V.	11/18/2030	7.33	Fixed Income	6,913.115	6,911.894	0.435%
JNLPPM America Total Return Fund	Charter Communications Operating, LLC	12/2/2030	7.33	Fixed Income	3,132.221	3,362.716	0.199%
JNLPPM America Total Return Fund	Treasury, United States Department of	12/31/2028	3.75	Fixed Income	3,150.000	3,201.508	0.202%
JNLPPM America Total Return Fund	New York Life Global Funding	1/30/2034	5.00	Fixed Income	4,628.000	4,825.345	0.304%
JNLPPM America Total Return Fund	Southern California Edison Company	6/1/2034	5.20	Fixed Income	3,955.000	4,168.573	0.263%
JNLPPM America Total Return Fund	SFS Auto Receivables Securitization Trust 2024-1	5/21/2029	4.95				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLPPM America Total Return Fund	AON North America, Inc.	3/1/2034	5.45	Fixed Income	3,845,000	4,046,947	0.255%
JNLPPM America Total Return Fund	NPL Electric Utilities Corporation	2/15/2027	4.90	Fixed Income	1,984,000	2,021,400	0.129%
JNLPPM America Total Return Fund	NRTI 2024-PARK Mortgage Trust	3/15/2029	6.74	Fixed Income	5,013,000	5,023,321	0.316%
JNLPPM America Total Return Fund	Roche Holdings, Inc.	3/8/2034	4.99	Fixed Income	7,650,000	7,995,256	0.504%
JNLPPM America Total Return Fund	BlackRock Funding, Inc.	3/14/2054	5.25	Fixed Income	2,240,000	2,327,620	0.147%
JNLPPM America Total Return Fund	Bank of New York Mellon Corporation, The	3/13/2026	5.50	Fixed Income	4,190,000	4,182,542	0.269%
JNLPPM America Total Return Fund	Humana Inc.	4/15/2031	5.38	Fixed Income	3,613,000	3,863,929	0.243%
JNLPPM America Total Return Fund	Federal National Mortgage Association, Inc.	6/1/2052	3.00	Fixed Income	4,607,594	4,147,609	0.261%
JNLPPM America Total Return Fund	Macquarie Airfinance Holdings Limited	3/26/2029	6.40	Fixed Income	729,000	759,322	0.048%
JNLPPM America Total Return Fund	Macquarie Airfinance Holdings Limited	3/26/2031	6.50	Fixed Income	1,890,000	1,993,436	0.126%
JNLPPM America Total Return Fund	Air Canada	1/14/2033	7.25	Fixed Income	2,464,317	2,671,378	0.169%
JNLPPM America Total Return Fund	Glencore Funding LLC	4/4/2034	5.63	Fixed Income	5,090,000	5,460,300	0.344%
JNLPPM America Total Return Fund	MassMutual Global Funding II	4/9/2027	6.05	Fixed Income	7,690,000	7,800,407	0.491%
JNLPPM America Total Return Fund	TotalEnergies SE	4/5/2054	5.49	Fixed Income	2,163,000	2,289,425	0.144%
JNLPPM America Total Return Fund	Anglo American Capital PLC	4/5/2054	6.00	Fixed Income	2,271,000	3,449,715	0.154%
JNLPPM America Total Return Fund	Anglo American Capital PLC	4/5/2034	5.75	Fixed Income	4,061,000	4,355,441	0.274%
JNLPPM America Total Return Fund	Vistra Zero Operating Company, LLC	3/20/2031	8.00	Fixed Income	4,102,385	4,112,481	0.259%
JNLPPM America Total Return Fund	Dell Equipment Finance Trust 2024-1	12/22/2026	5.39	Fixed Income	5,448,000	5,547,562	0.349%
JNLPPM America Total Return Fund	Vistra Operations Company LLC	4/15/2032	6.88	Fixed Income	2,645,000	2,870,998	0.181%
JNLPPM America Total Return Fund	Wells Fargo & Company	4/22/2028	6.36	Fixed Income	7,660,000	7,791,241	0.491%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	4/22/2028	6.21	Fixed Income	2,713,000	2,751,031	0.173%
JNLPPM America Total Return Fund	JPMorgan Chase & Co.	4/22/2035	5.77	Fixed Income	3,100,000	3,418,234	0.215%
JNLPPM America Total Return Fund	Sunoco LP	5/1/2032	7.25	Fixed Income	1,887,000	2,056,005	0.130%
JNLPPM America Total Return Fund	Goldman Sachs Group, Inc., The	1/1/2200	7.50	Fixed Income	6,960,000	7,622,414	0.480%
JNLPPM America Total Return Fund	Morgan Stanley	4/13/2028	6.33	Fixed Income	8,000,000	8,141,800	0.513%
JNLPPM America Total Return Fund	Morgan Stanley	4/19/2035	5.83	Fixed Income	2,446,000	2,692,299	0.170%
JNLPPM America Total Return Fund	General Motors Financial Company, Inc.	5/8/2027	6.80	Fixed Income	4,700,000	4,752,197	0.298%
JNLPPM America Total Return Fund	Treasury, United States Department of	4/30/2029	4.63	Fixed Income	6,900,000	7,338,657	0.462%
JNLPPM America Total Return Fund	GXO Logistics Inc.	5/6/2034	6.50	Fixed Income	4,646,000	5,023,352	0.316%
JNLPPM America Total Return Fund	Boeing Company, The	5/1/2064	7.01	Fixed Income	2,118,000	2,392,519	0.151%
JNLPPM America Total Return Fund	Franklin BSP Capital Corporation	5/15/2028	7.20	Fixed Income	1,453,000	1,531,528	0.096%
JNLPPM America Total Return Fund	Barclays PLC	3/12/2038	5.58	Fixed Income	3,760,000	3,804,428	0.240%
JNLPPM America Total Return Fund	Regal Renewal Corporation	4/15/2033	6.40	Fixed Income	2,603,000	2,860,184	0.180%
JNLPPM America Total Return Fund	Regal Renewal Corporation	2/15/2026	6.05	Fixed Income	2,477,000	2,534,704	0.160%
JNLPPM America Total Return Fund	Delos Aircraft Designated Activity Co	10/14/2027	7.08	Fixed Income	2,291,061	2,301,683	0.145%
JNLPPM America Total Return Fund	Freedom Mortgage Corporation	5/15/2033	9.13	Fixed Income	2,468,000	2,623,806	0.165%
JNLPPM America Total Return Fund	Hilcorp Energy I L.P.	5/15/2034	6.88	Fixed Income	1,520,000	1,557,094	0.098%
JNLPPM America Total Return Fund	Las Vegas Sands Corp.	6/1/2027	5.90	Fixed Income	1,943,000	2,038,716	0.128%
JNLPPM America Total Return Fund	Standard Chartered PLC	5/14/2028	6.41	Fixed Income	4,765,000	4,814,694	0.303%
JNLPPM America Total Return Fund	Genesee & Wyoming Inc. (New)	3/27/2031	7.33	Fixed Income	3,781,000	3,778,715	0.238%
JNLPPM America Total Return Fund	Las Vegas Sands Corp.	8/15/2034	6.20	Fixed Income	1,136,000	1,216,742	0.077%
JNLPPM America Total Return Fund	DLAD 2024-1 LLC	6/20/2026	5.50	Fixed Income	4,716,000	4,766,788	0.300%
JNLPPM America Total Return Fund	Charter Communications Operating, LLC	6/1/2029	6.10	Fixed Income	1,790,000	1,894,015	0.119%
JNLPPM America Total Return Fund	Six Flags Entertainment Corporation	3/18/2030	6.80	Fixed Income	2,618,288	2,611,126	0.164%
JNLPPM America Total Return Fund	Treasury, United States Department of	5/15/2034	4.38	Fixed Income	9,565,000	10,175,906	0.641%
JNLPPM America Total Return Fund	SFS Auto Receivables Securitization Trust 2024-2	10/20/2027	5.71	Fixed Income	3,673,261	3,700,273	0.233%
JNLPPM America Total Return Fund	Blue Racer Midstream, LLC	7/15/2029	7.00	Fixed Income	910,000	960,008	0.060%
JNLPPM America Total Return Fund	Blue Owl Credit Income Corp.	9/15/2029	6.90	Fixed Income	827,000	847,160	0.053%
JNLPPM America Total Return Fund	NatWest Markets PLC	5/17/2029	6.37	Fixed Income	7,680,000	7,769,828	0.489%
JNLPPM America Total Return Fund	SS&C Technologies Inc.	5/9/2031	7.25	Fixed Income	2,100,815	2,100,857	0.132%
JNLPPM America Total Return Fund	Blue Racer Midstream, LLC	7/15/2032	7.25	Fixed Income	607,000	646,919	0.041%
JNLPPM America Total Return Fund	Apolla Global Management, Inc.	5/1/2054	5.80	Fixed Income	3,703,000	3,703,147	0.233%
JNLPPM America Total Return Fund	Comcast Corporation	6/1/2034	5.30	Fixed Income	3,666,000	3,931,374	0.248%
JNLPPM America Total Return Fund	Citigroup Inc.	1/1/2200	7.13	Fixed Income	7,310,000	7,796,840	0.491%
JNLPPM America Total Return Fund	Compress Public Limited Company	5/17/2028	8.25	Fixed Income	1,379,854	1,378,430	0.087%
JNLPPM America Total Return Fund	RGH Global Funding	5/24/2029	6.13	Fixed Income	4,794,000	5,084,125	0.320%
JNLPPM America Total Return Fund	Morgan Stanley Bank, National Association	5/26/2038	6.09	Fixed Income	3,835,000	3,863,877	0.243%
JNLPPM America Total Return Fund	Bank of Nova Scotia, The	8/1/2029	6.42	Fixed Income	4,642,000	4,742,182	0.299%
JNLPPM America Total Return Fund	Burlington Northern Santa Fe, LLC	3/15/2055	5.50	Fixed Income	3,007,000	3,299,231	0.208%
JNLPPM America Total Return Fund	Global Atlantic Financial Company	10/15/2054	7.95	Fixed Income	4,874,000	5,201,481	0.328%
JNLPPM America Total Return Fund	Duke Energy Corporation	6/15/2054	6.13	Fixed Income	4,483,000	4,716,807	0.298%
JNLPPM America Total Return Fund	John Deere Capital Corporation	6/11/2027	5.74	Fixed Income	3,860,000	3,873,896	0.244%
JNLPPM America Total Return Fund	John Deere Capital Corporation	6/12/2034	5.05	Fixed Income	1,330,000	1,407,968	0.089%
JNLPPM America Total Return Fund	Compress Public Limited Company	5/17/2028	8.25	Fixed Income	1,145,745	1,144,563	0.072%
JNLPPM America Total Return Fund	Staples, Inc.	9/22/2029	7.09	Fixed Income	4,425,514	4,529,314	0.287%
JNLPPM America Total Return Fund	Home Depot, Inc., The	6/25/2034	4.95	Fixed Income	4,190,000	4,412,634	0.278%
JNLPPM America Total Return Fund	Daimler Trucks Finance North America LLC	9/25/2027	5.80	Fixed Income	4,454,000	4,453,668	0.281%
JNLPPM America Total Return Fund	Home Depot, Inc., The	6/25/2029	4.75	Fixed Income	2,645,000	2,765,007	0.174%
JNLPPM America Total Return Fund	Hyundai Capital America	6/24/2027	5.88	Fixed Income	4,450,000	4,460,147	0.283%
JNLPPM America Total Return Fund	Takeda Pharmaceutical Co Ltd	7/5/2034	5.30	Fixed Income	2,410,000	2,547,944	0.161%
JNLPPM America Total Return Fund	Amgen Inc.	11/15/2041	5.15	Fixed Income	1,097,000	1,120,769	0.071%
JNLPPM America Total Return Fund	1011778 B.C. Unlimited Liability Company	9/23/2030	7.00	Fixed Income	223,260	220,929	0.014%
JNLPPM America Total Return Fund	Kroger Corporation	5/15/2027	5.60	Fixed Income	4,625,000	4,736,294	0.296%
JNLPPM America Total Return Fund	Banco Santander, S.A.	7/15/2028	6.42	Fixed Income	8,000,000	8,119,072	0.511%
JNLPPM America Total Return Fund	Royal Bank of Canada	8/2/2030	4.97	Fixed Income	3,728,000	3,849,161	0.242%
JNLPPM America Total Return Fund	BlackRock Funding, Inc.	1/8/2055	5.35	Fixed Income	2,225,000	2,363,118	0.149%
JNLPPM America Total Return Fund	American Express Company	7/26/2028	6.13	Fixed Income	2,694,000	2,736,100	0.172%
JNLPPM America Total Return Fund	Concentra Health Services Inc.	6/26/2031	7.53	Fixed Income	984,000	981,734	0.062%
JNLPPM America Total Return Fund	UnitedHealth Group Incorporated	7/15/2054	5.63	Fixed Income	3,640,000	3,944,355	0.248%
JNLPPM America Total Return Fund	State Street Corporation	11/21/2034	6.12	Fixed Income	1,900,000	2,115,462	0.133%
JNLPPM America Total Return Fund	Ford Motor Credit Company LLC	5/38/2034	6.13	Fixed Income	2,460,000	2,495,169	0.157%
JNLPPM America Total Return Fund	Treasury, United States Department of	7/31/2031	4.13	Fixed Income	27,360,000	28,315,371	1.784%
JNLPPM America Total Return Fund	Honeywell International Inc.	2/1/2030	4.70	Fixed Income	5,719,000	5,921,404	0.373%
JNLPPM America Total Return Fund	Citigroup Inc.	8/6/2026	4.93	Fixed Income	2,897,000	2,962,747	0.187%
JNLPPM America Total Return Fund	Citigroup Inc.	8/6/2029	4.84	Fixed Income	2,340,000	2,412,566	0.152%
JNLPPM America Total Return Fund	Treasury, United States Department of	7/15/2027	4.38	Fixed Income	8,520,000	8,777,384	0.543%
JNLPPM America Total Return Fund	Meta Platforms, Inc.	8/15/2054	5.40	Fixed Income	3,512,000	3,714,364	0.234%
JNLPPM America Total Return Fund	Meta Platforms, Inc.	8/15/2064	5.55	Fixed Income	1,908,000	2,036,713	0.128%
JNLPPM America Total Return Fund	EL Lilly and Company	8/14/2034	4.60	Fixed Income	3,513,000	3,584,613	0.226%
JNLPPM America Total Return Fund	Entirex Midstream, LLC	9/1/2034	5.65	Fixed Income	1,744,000	1,775,307	0.112%
JNLPPM America Total Return Fund	Cox Communications, Inc.	9/1/2054	5.95	Fixed Income	2,728,000	2,742,503	0.173%
JNLPPM America Total Return Fund	Quest Diagnostics Incorporated	12/15/2034	5.00	Fixed Income	2,448,000	2,494,078	0.157%
JNLPPM America Total Return Fund	Cox Communications, Inc.	9/1/2034	5.45	Fixed Income	2,912,000	2,966,084	0.187%
JNLPPM America Total Return Fund	Western Midstream Operating, LP	11/15/2034	5.45	Fixed Income	4,968,000	5,015,330	0.316%
JNLPPM America Total Return Fund	Hyundai Auto Lease Securitization Trust 2024-C	2/16/2027	4.62	Fixed Income	12,997,000	13,171,250	0.830%
JNLPPM America Total Return Fund	Treasury, United States Department of	8/15/2044	4.13	Fixed Income	19,330,000	19,280,821	1.215%
JNLPPM America Total Return Fund	Pacific Gas And Electric Company	10/1/2054	5.90	Fixed Income	1,245,000	1,301,092	0.082%
JNLPPM America Total Return Fund	Barclays PLC	9/19/2028	4.84	Fixed Income	2,106,000	2,130,737	0.134%
JNLPPM America Total Return Fund	Ford Motor Credit Company LLC	11/5/2026	5.13	Fixed Income	4,240,000	4,272,195	0.269%
JNLPPM America Total Return Fund	Golub Capital Private Credit Fund	9/12/2029	5.80	Fixed Income	3,890,000	3,887,939	0.245%
JNLPPM America Total Return Fund	Newmont Corporation	3/15/2034	5.35	Fixed Income	2,849,000	2,991,633	0.188%
JNLPPM America Total Return Fund	PG&E Corporation	3/15/2055	7.38	Fixed Income	2,221,000	2,341,562	0.148%
JNLPPM America Total Return Fund	SBNA Auto Lease Trust 2024-C	2/22/2028	4.56	Fixed Income	6,135,000	6,153,735	0.388%
JNLPPM America Total Return Fund	Hewlett Packard Enterprise Company	10/15/2034	5.00	Fixed Income	5,180,000	5,128,028	0.323%
JNLPPM America Total Return Fund	Royal Caribbean Cruises Ltd.	9/30/2031	5.63	Fixed Income	1,480,000	1,500,274	0.095%
JNLPPM America Total Return Fund	LEX 2024-BBG Mortgage Trust	10/13/2033	4.87	Fixed Income	2,500,000	2,486,064	0.157%
JNLPPM America Total Return Fund	Sonoco Products Company	9/1/2029	4.60	Fixed Income	1,133,000	1,131,683	0.071%
JNLPPM America Total Return Fund	Universal Health Services, Inc.	10/15/2029	4.63	Fixed Income	3,510,000	3,488,858	0.220%
JNLPPM America Total Return Fund	Comision Federal De Electricidad, E.P.E.	1/24/2030	5.70	Fixed Income	1,745,000	1,749,485	0.110%
JNLPPM America Total Return Fund	Sonoco Products Company	9/1/2034	5.00	Fixed Income	1,589,000	1,575,997	0.099%
JNLPPM America Total Return Fund	Comision Federal De Electricidad, E.P.E.	1/24/2035	6.46	Fixed Income	2,356,000	2,352,427	0.148%
JNLPPM America Total Return Fund	Universal Health Services, Inc.	10/15/2034	5.05	Fixed Income	1,659,000	1,626,851	0.102%
JNLPPM America Total Return Fund	Sonoco Products Company	9/1/2026	4.45	Fixed Income	1,133,000	1,135,054	0.072%
JNLPPM America Total Return Fund	Goldman Sachs Group, Inc., The	1/1/2200	6.13	Fixed Income	4,072,000	4,100,286	0.258%
JNLPPM America Total Return Fund	MWV 2024-2 LLC	3/20/2042	4.43	Fixed Income	7,071,000	7,071,570	0.445%
JNLPPM America Total Return Fund	GM Financial Automobile Leasing Trust 2024-3	12/20/2026	4.21	Fixed Income	6,024,000	6,020,810	0.379%
JNLPPM America Total Return Fund	Treasury, United States Department of	1/28/2025		Cash Equivalent	15,790,000	15,557,473	0.980%
JNLPPM America Total Return Fund	Broadcom Inc.	2/15/2030	4.35	Fixed Income	1,664,000	1,660,986	0.105%
JNLPPM America Total Return Fund	Broadcom Inc.	2/15/2032	4.55	Fixed Income	3,064,000	3,059,974	0.193%
JNLPPM America Total Return Fund	Broadcom Inc.	10/15/2034	4.80	Fixed Income	1,978,000	1,976,297	0.124%
JNLPPM America Total Return Fund	Venture Global LNG, Inc.	1/1/2200	9.00	Fixed Income	6,625,000	6,717,040	0.423%
Total Non Derivatives						1,586,793,212	
Derivatives							
JNLPPM America Total Return Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	777	150,475	0.009%
JNLPPM America Total Return Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	600	355,032	0.022%
JNLPPM America Total Return Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	171	(5,760)	0.000%
JNLPPM America Total Return Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	11	68	0.001%
JNLPPM America Total Return Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-287	126,692	0.008%
JNLPPM America Total Return Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	434	(40,505)	-0.003%
Total Derivatives						588,362	
Total All Investments							

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLRAF10 Fundamental U.S. Small Cap Fund	National Health Investors, Inc.			Equity	3,679	312,568	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	California Resources Corporation			Equity	4,650	243,986	0.058%
JNLRAF10 Fundamental U.S. Small Cap Fund	Chord Energy Corporation			Equity	3,035	395,248	0.094%
JNLRAF10 Fundamental U.S. Small Cap Fund	PROG Holdings, Inc.			Equity	10,229	496,004	0.117%
JNLRAF10 Fundamental U.S. Small Cap Fund	Concentrix Corporation			Equity	7,714	395,343	0.094%
JNLRAF10 Fundamental U.S. Small Cap Fund	DoorDash, Inc.			Equity	5,564	794,150	0.188%
JNLRAF10 Fundamental U.S. Small Cap Fund	Airbnb, Inc.			Equity	1,039	131,756	0.031%
JNLRAF10 Fundamental U.S. Small Cap Fund	Unity Software Inc.			Equity	15,322	346,584	0.082%
JNLRAF10 Fundamental U.S. Small Cap Fund	NOV Inc.			Equity	41,884	668,887	0.159%
JNLRAF10 Fundamental U.S. Small Cap Fund	Comstock Resources, Inc.			Equity	11,254	125,257	0.030%
JNLRAF10 Fundamental U.S. Small Cap Fund	Liberty Energy Inc.			Equity	15,030	286,923	0.068%
JNLRAF10 Fundamental U.S. Small Cap Fund	Open Doors Technology Inc.			Equity	120,398	240,796	0.057%
JNLRAF10 Fundamental U.S. Small Cap Fund	Pelco Health And Wellness Company, Inc.			Equity	7,866	35,790	0.008%
JNLRAF10 Fundamental U.S. Small Cap Fund	Alpha Metallurgical Resources, Inc.			Equity	998	235,170	0.056%
JNLRAF10 Fundamental U.S. Small Cap Fund	Chesapeake Energy Corporation			Equity	1,339	110,133	0.026%
JNLRAF10 Fundamental U.S. Small Cap Fund	Bumble Inc.			Equity	12,685	80,930	0.019%
JNLRAF10 Fundamental U.S. Small Cap Fund	Travel + Leisure Co.			Equity	12,808	590,193	0.140%
JNLRAF10 Fundamental U.S. Small Cap Fund	Apa Corp.			Equity	42,927	1,049,994	0.249%
JNLRAF10 Fundamental U.S. Small Cap Fund	Coupage, Inc.			Equity	11,937	293,053	0.069%
JNLRAF10 Fundamental U.S. Small Cap Fund	Reynolds Group Holdings Limited			Equity	5,737	66,033	0.016%
JNLRAF10 Fundamental U.S. Small Cap Fund	Academy Sports & Outdoors, Inc.			Equity	10,899	637,150	0.151%
JNLRAF10 Fundamental U.S. Small Cap Fund	VIR Biotechnology, Inc.			Equity	19,754	147,957	0.035%
JNLRAF10 Fundamental U.S. Small Cap Fund	Combase Global, Inc.			Equity	4,679	833,657	0.197%
JNLRAF10 Fundamental U.S. Small Cap Fund	Eastern Bankshares, Inc.			Equity	18,049	295,823	0.070%
JNLRAF10 Fundamental U.S. Small Cap Fund	Broadstone Net Lease, Inc.			Equity	13,904	267,513	0.063%
JNLRAF10 Fundamental U.S. Small Cap Fund	Frontier Communications Parent, Inc.			Equity	29,793	1,059,545	0.251%
JNLRAF10 Fundamental U.S. Small Cap Fund	IAC Inc.			Equity	12,888	693,632	0.164%
JNLRAF10 Fundamental U.S. Small Cap Fund	SoFi Technologies, Inc.			Equity	41,921	329,499	0.078%
JNLRAF10 Fundamental U.S. Small Cap Fund	ApogeeV Corporation			Equity	3,021	394,392	0.093%
JNLRAF10 Fundamental U.S. Small Cap Fund	DT Midstream, Inc.			Equity	6,887	705,901	0.170%
JNLRAF10 Fundamental U.S. Small Cap Fund	Alight, Inc.			Equity	47,540	1,057,786	0.083%
JNLRAF10 Fundamental U.S. Small Cap Fund	Phillips Edison & Company, Inc.			Equity	9,480	358,463	0.085%
JNLRAF10 Fundamental U.S. Small Cap Fund	SolarWinds Corporation			Equity	581	7,582	0.002%
JNLRAF10 Fundamental U.S. Small Cap Fund	GDX Logistics Inc.			Equity	12,567	654,364	0.155%
JNLRAF10 Fundamental U.S. Small Cap Fund	Bath & Body Works, Inc.			Equity	20,016	640,291	0.152%
JNLRAF10 Fundamental U.S. Small Cap Fund	Victor's Secret & Co.			Equity	18,299	470,284	0.111%
JNLRAF10 Fundamental U.S. Small Cap Fund	Jackson Financial Inc.			Equity	16,074	1,466,431	0.347%
JNLRAF10 Fundamental U.S. Small Cap Fund	Lucid Group, Inc.			Equity	58,120	205,164	0.049%
JNLRAF10 Fundamental U.S. Small Cap Fund	Sylvamo Corporation			Equity	6,094	623,149	0.124%
JNLRAF10 Fundamental U.S. Small Cap Fund	Wolfspeed, Inc.			Equity	14,039	136,178	0.032%
JNLRAF10 Fundamental U.S. Small Cap Fund	Roivant Sciences Ltd.			Equity	16,018	184,848	0.044%
JNLRAF10 Fundamental U.S. Small Cap Fund	Life Time Group Holdings, Inc.			Equity	4,523	110,452	0.026%
JNLRAF10 Fundamental U.S. Small Cap Fund	Trineco Public Limited Company			Equity	2,932	14,983	0.003%
JNLRAF10 Fundamental U.S. Small Cap Fund	Informatica Inc.			Equity	2,243	56,703	0.013%
JNLRAF10 Fundamental U.S. Small Cap Fund	Cleary Energy, Inc.			Equity	10,555	323,827	0.077%
JNLRAF10 Fundamental U.S. Small Cap Fund	Cadence Bank			Equity	21,827	700,975	0.166%
JNLRAF10 Fundamental U.S. Small Cap Fund	Civitas Resources, Inc.			Equity	8,791	445,440	0.105%
JNLRAF10 Fundamental U.S. Small Cap Fund	Aurora Innovations Inc.			Equity	56,489	334,415	0.079%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hertz Global Holdings, Inc.			Equity	9,103	30,040	0.007%
JNLRAF10 Fundamental U.S. Small Cap Fund	FirstCash, Inc.			Equity	4,234	486,063	0.115%
JNLRAF10 Fundamental U.S. Small Cap Fund	Core & Main, Inc.			Equity	6,592	292,685	0.069%
JNLRAF10 Fundamental U.S. Small Cap Fund	Apoll Global Management, Inc.			Equity	5,777	721,605	0.171%
JNLRAF10 Fundamental U.S. Small Cap Fund	Federal Realty Investment Trust			Equity	5,939	682,807	0.162%
JNLRAF10 Fundamental U.S. Small Cap Fund	TPG Inc.			Equity	2,194	126,287	0.030%
JNLRAF10 Fundamental U.S. Small Cap Fund	SL Green Realty Corp.			Equity	16,713	1,467,570	0.276%
JNLRAF10 Fundamental U.S. Small Cap Fund	Elanco Animal Health Incorporated			Equity	69,917	1,027,786	0.243%
JNLRAF10 Fundamental U.S. Small Cap Fund	InvenTrust Properties Corp.			Equity	1,675	47,899	0.011%
JNLRAF10 Fundamental U.S. Small Cap Fund	Embrecta Corp.			Equity	4,023	56,724	0.013%
JNLRAF10 Fundamental U.S. Small Cap Fund	MFA Financial, Inc.			Equity	23,487	306,975	0.073%
JNLRAF10 Fundamental U.S. Small Cap Fund	Groves Corporation			Equity	7,210	310,391	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	ESAB Corporation			Equity	2,925	311,191	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	Aspen Technology, Inc.			Equity	1,402	334,826	0.079%
JNLRAF10 Fundamental U.S. Small Cap Fund	Crane Nst, Co.			Equity	703	39,438	0.009%
JNLRAF10 Fundamental U.S. Small Cap Fund	QuidelOrtho Corporation			Equity	9,495	433,149	0.102%
JNLRAF10 Fundamental U.S. Small Cap Fund	Healthcare Realty Trust Incorporated			Equity	47,743	866,535	0.205%
JNLRAF10 Fundamental U.S. Small Cap Fund	DigitalBridge Group, Inc.			Equity	33,758	477,338	0.113%
JNLRAF10 Fundamental U.S. Small Cap Fund	Robinson Markets, Inc.			Equity	37,854	881,857	0.209%
JNLRAF10 Fundamental U.S. Small Cap Fund	Permian Resources Corporation			Equity	14,328	1,426,048	0.340%
JNLRAF10 Fundamental U.S. Small Cap Fund	Coherent Corp.			Equity	13,599	1,209,087	0.286%
JNLRAF10 Fundamental U.S. Small Cap Fund	LiveRamp Holdings, Inc.			Equity	9,858	244,281	0.059%
JNLRAF10 Fundamental U.S. Small Cap Fund	RXO Inc.			Equity	17,618	493,304	0.117%
JNLRAF10 Fundamental U.S. Small Cap Fund	Two Harbors Investment Corp.			Equity	17,957	249,463	0.059%
JNLRAF10 Fundamental U.S. Small Cap Fund	U-Haul Holding Company			Equity	7,991	575,352	0.136%
JNLRAF10 Fundamental U.S. Small Cap Fund	F&G Annuities & Life, Inc.			Equity	890	39,801	0.009%
JNLRAF10 Fundamental U.S. Small Cap Fund	Paycom Software, Inc.			Equity	2,817	63,185	0.015%
JNLRAF10 Fundamental U.S. Small Cap Fund	Masstrbrand, Inc.			Equity	21,453	397,739	0.094%
JNLRAF10 Fundamental U.S. Small Cap Fund	Clarus Mortgage Trust, Inc.			Equity	6,614	50,200	0.012%
JNLRAF10 Fundamental U.S. Small Cap Fund	Enact Holdings, Inc.			Equity	3,078	111,824	0.026%
JNLRAF10 Fundamental U.S. Small Cap Fund	Mr. Cooper Group Inc.			Equity	5,924	546,074	0.129%
JNLRAF10 Fundamental U.S. Small Cap Fund	Resideo Technologies, Inc.			Equity	18,142	385,380	0.091%
JNLRAF10 Fundamental U.S. Small Cap Fund	PennyMac Financial Services, Inc.			Equity	3,620	412,571	0.098%
JNLRAF10 Fundamental U.S. Small Cap Fund	Arcosa, Inc.			Equity	5,072	480,623	0.114%
JNLRAF10 Fundamental U.S. Small Cap Fund	F.N.B. Corporation			Equity	50,506	712,640	0.169%
JNLRAF10 Fundamental U.S. Small Cap Fund	Boyd Gaming Corporation			Equity	6,229	403,685	0.096%
JNLRAF10 Fundamental U.S. Small Cap Fund	Sleekcase Inc.			Equity	19,705	287,800	0.069%
JNLRAF10 Fundamental U.S. Small Cap Fund	SLM Corporation			Equity	48,817	1,116,445	0.264%
JNLRAF10 Fundamental U.S. Small Cap Fund	Insperty, Inc.			Equity	2,285	201,080	0.048%
JNLRAF10 Fundamental U.S. Small Cap Fund	Group I Automotive, Inc.			Equity	3,117	1,193,936	0.283%
JNLRAF10 Fundamental U.S. Small Cap Fund	Mettler Toledo International Inc.			Equity	893	1,359,122	0.317%
JNLRAF10 Fundamental U.S. Small Cap Fund	Amesys, Inc.			Equity	3,123	301,401	0.071%
JNLRAF10 Fundamental U.S. Small Cap Fund	Azentia, Inc.			Equity	5,377	260,462	0.062%
JNLRAF10 Fundamental U.S. Small Cap Fund	Brady Corporation			Equity	4,711	361,004	0.085%
JNLRAF10 Fundamental U.S. Small Cap Fund	Power Integrations, Inc.			Equity	4,115	253,854	0.062%
JNLRAF10 Fundamental U.S. Small Cap Fund	Avery Dennison Corporation			Equity	5,558	1,226,984	0.291%
JNLRAF10 Fundamental U.S. Small Cap Fund	Benchmark Electronics, Inc.			Equity	6,294	280,020	0.066%
JNLRAF10 Fundamental U.S. Small Cap Fund	Abnerville Corporation			Equity	11,348	1,078,350	0.255%
JNLRAF10 Fundamental U.S. Small Cap Fund	Barnes Group Inc.			Equity	9,154	599,913	0.138%
JNLRAF10 Fundamental U.S. Small Cap Fund	Abercrombie & Fitch Co.			Equity	3,867	540,993	0.128%
JNLRAF10 Fundamental U.S. Small Cap Fund	Apogee Enterprises, Inc.			Equity	3,782	264,797	0.063%
JNLRAF10 Fundamental U.S. Small Cap Fund	VenSign, Inc.			Equity	2,720	516,691	0.122%
JNLRAF10 Fundamental U.S. Small Cap Fund	Affiliated Managers Group, Inc.			Equity	6,463	1,152,677	0.272%
JNLRAF10 Fundamental U.S. Small Cap Fund	OPKO Health, Inc.			Equity	16,972	25,288	0.006%
JNLRAF10 Fundamental U.S. Small Cap Fund	Take-Two Interactive Software, Inc.			Equity	8,333	1,280,865	0.303%
JNLRAF10 Fundamental U.S. Small Cap Fund	Autodesk, Inc.			Equity	5,548	1,528,363	0.362%
JNLRAF10 Fundamental U.S. Small Cap Fund	BOK Financial Corporation			Equity	2,816	294,610	0.070%
JNLRAF10 Fundamental U.S. Small Cap Fund	Associated Banc-Corp			Equity	26,382	686,288	0.153%
JNLRAF10 Fundamental U.S. Small Cap Fund	Alaska Air Group, Inc.			Equity	22,233	1,005,154	0.238%
JNLRAF10 Fundamental U.S. Small Cap Fund	ABM Industries Incorporated			Equity	12,243	645,941	0.153%
JNLRAF10 Fundamental U.S. Small Cap Fund	AutoZone, Inc.			Equity	419	1,319,867	0.313%
JNLRAF10 Fundamental U.S. Small Cap Fund	On Systems, Inc.			Equity	1,633	247,938	0.059%
JNLRAF10 Fundamental U.S. Small Cap Fund	AAR Corp.			Equity	3,996	261,179	0.062%
JNLRAF10 Fundamental U.S. Small Cap Fund	Astec Industries, Inc.			Equity	904	28,874	0.007%
JNLRAF10 Fundamental U.S. Small Cap Fund	Black Hills Corporation			Equity	10,219	624,585	0.148%
JNLRAF10 Fundamental U.S. Small Cap Fund	ANSYS, Inc.			Equity	2,700	860,301	0.204%
JNLRAF10 Fundamental U.S. Small Cap Fund	Brunswick Corporation			Equity	11,834	991,926	0.235%
JNLRAF10 Fundamental U.S. Small Cap Fund	American Eagle Outfitters, Inc.			Equity	25,613	573,475	0.136%
JNLRAF10 Fundamental U.S. Small Cap Fund	American Woodmark Corporation			Equity	2,795	261,193	0.062%
JNLRAF10 Fundamental U.S. Small Cap Fund	MasTec, Inc.			Equity	8,505	1,046,866	0.248%
JNLRAF10 Fundamental U.S. Small Cap Fund	Applied Industrial Technologies, Inc.			Equity	2,163	482,630	0.114%
JNLRAF10 Fundamental U.S. Small Cap Fund	Comfort Systems USA, Inc.			Equity	1,260	491,841	0.116%
JNLRAF10 Fundamental U.S. Small Cap Fund	Del Monte Fresh Produce Company			Equity	5,854	172,927	0.041%
JNLRAF10 Fundamental U.S. Small Cap Fund	Bio-Rad Laboratories, Inc.			Equity	1,972	659,792	0.156%
JNLRAF10 Fundamental U.S. Small Cap Fund	Brown-Forman Corporation			Equity	16,875	833,637	0.197%
JNLRAF10 Fundamental U.S. Small Cap Fund	AptarGroup, Inc.			Equity	4,359	698,268	0.165%
JNLRAF10 Fundamental U.S. Small Cap Fund	Maximus, Inc.			Equity	7,239	674,385	0.160%
JNLRAF10 Fundamental U.S. Small Cap Fund	Bank of Hawaii Corporation			Equity	4,727	296,714	0.072%
JNLRAF10 Fundamental U.S. Small Cap Fund	Boston Beer Company, Inc., The			Equity	736	212,807	0.050%
JNLRAF10 Fundamental U.S. Small Cap Fund	Advanced Energy Industries, Inc.			Equity	3,150	331,506	0.079%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hanover Insurance Group Inc, The			Equity	4,965	735,366	0.174%
JNLRAF10 Fundamental U.S. Small Cap Fund	Sonic Automotive, Inc.			Equity	4,412	259,292	0.061%
JNLRAF10 Fundamental U.S. Small Cap Fund	H & R Block, Inc.			Equity	8,908	570,138	0.135%
JNLRAF10 Fundamental U.S. Small Cap Fund	PriceSmart, Inc.			Equity	4,408	404,566	0.096%
JNLRAF10 Fundamental U.S. Small Cap Fund	The Buckle, Inc.			Equity	5,331	234,404	0.056%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ameris Bancorp.			Equity	6,613	413,577	0.098%
JNLRAF10 Fundamental U.S. Small Cap Fund	Marathon Associates, Inc.			Equity	1,118	314,383	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	IDEX Corporation			Equity	3,949	847,061	0.201%
JNLRAF10 Fundamental U.S. Small Cap Fund	GATX Corporation			Equity	3,452	457,217	0.108%
JNLRAF10 Fundamental U.S. Small Cap Fund	International Bancshares Corporation			Equity	4,943	295,542	0.070%
JNLRAF10 Fundamental U.S. Small Cap Fund	Cracker Barrel Old Country Store, Inc.			Equity	7,592	444,292	0.105%
JNLRAF10 Fundamental U.S. Small Cap Fund	Crown Holdings, Inc.			Equity	11,155	1,069,541	0.253%
JNLRAF10 Fundamental U.S. Small Cap Fund	Chesapeake Factory Incorporated, The			Equity	1,505	61,028	0.014%
JNLRAF10 Fundamental U.S. Small Cap Fund	The Clorox Company			Equity	7,242	1,179,794	0.279%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hilltop Holdings Inc.			Equity	8,567	275,515	0.065%
JNLRAF10 Fundamental U.S. Small Cap Fund	USANA Health Sciences, Inc.			Equity	463	17,557	0.004%
JNLRAF10 Fundamental U.S. Small Cap Fund	Cirrus Logic, Inc.			Equity	7,204	894,809	0.212%
JNLRAF10 Fundamental U.S. Small Cap Fund	Credit Acceptance Corporation			Equity	775	343,651	0.081%
JNLRAF10 Fundamental U.S. Small Cap Fund	Caci International Inc.			Equity	1,977	997,515	0.236%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLRAF10 Fundamenta U.S. Small Cap Fund	Columbia Banking System, Inc.			Equity	15,619	407,812	0.097%
JNLRAF10 Fundamenta U.S. Small Cap Fund	DECA Laboratories, Inc.			Equity	1,607	811,989	0.192%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Commercial Metals Company			Equity	16,533	908,654	0.215%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Copart, Inc.			Equity	14,128	740,307	0.175%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Community Financial System, Inc.			Equity	5,494	321,682	0.076%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Dillard's, Inc.			Equity	571	219,230	0.052%
JNLRAF10 Fundamenta U.S. Small Cap Fund	FactSet Research Systems Inc.			Equity	901	414,325	0.098%
JNLRAF10 Fundamenta U.S. Small Cap Fund	BioMarin Pharmaceutical Inc.			Equity	9,112	640,482	0.152%
JNLRAF10 Fundamenta U.S. Small Cap Fund	CoStar Group, Inc.			Equity	9,535	719,320	0.170%
JNLRAF10 Fundamenta U.S. Small Cap Fund	First Horizon Corporation			Equity	71,026	1,114,315	0.264%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Unifirst Corporation			Equity	2,000	397,300	0.094%
JNLRAF10 Fundamenta U.S. Small Cap Fund	The Interpublic Group of Companies, Inc.			Equity	40,460	1,279,750	0.303%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Horace Mann Educators Corporation			Equity	1,552	54,242	0.013%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Cullen/Frost Bankers, Inc.			Equity	4,840	541,402	0.128%
JNLRAF10 Fundamenta U.S. Small Cap Fund	C-ll Apparel Group, Ltd.			Equity	9,866	273,342	0.065%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Diodes Incorporated			Equity	5,796	371,466	0.088%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Deckers Outdoor Corporation			Equity	5,442	867,727	0.205%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Inglis Markets, Incorporated			Equity	2,036	151,886	0.036%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Amkor Technology, Inc.			Equity	14,914	456,368	0.108%
JNLRAF10 Fundamenta U.S. Small Cap Fund	CVB Financial Corp.			Equity	17,004	306,412	0.073%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Columbia Sportswear Company			Equity	5,127	426,515	0.101%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Assurant, Inc.			Equity	4,549	904,614	0.214%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Fair Isaac Corporation			Equity	415	806,561	0.191%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Habstro, Inc.			Equity	13,776	996,280	0.236%
JNLRAF10 Fundamenta U.S. Small Cap Fund	InterDigital, Inc.			Equity	2,444	346,144	0.082%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Erie Indemnity Company			Equity	809	436,714	0.103%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Heset Corporation			Equity	7,201	445,238	0.105%
JNLRAF10 Fundamenta U.S. Small Cap Fund	The Greenbrier Companies, Inc.			Equity	7,149	363,813	0.086%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Flex Ltd.			Equity	30,698	1,026,234	0.243%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Trustmark Corporation			Equity	7,662	243,805	0.058%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Lamox International Inc.			Equity	1,344	813,736	0.192%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Itron, Inc.			Equity	9,681	393,168	0.093%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Clean Harbors, Inc.			Equity	2,313	559,075	0.132%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Deluxe Corporation			Equity	1,456	28,377	0.007%
JNLRAF10 Fundamenta U.S. Small Cap Fund	White Mountains Insurance Group Ltd			Equity	235	398,607	0.094%
JNLRAF10 Fundamenta U.S. Small Cap Fund	JA3 Snack Foods Corp.			Equity	923	159,547	0.038%
JNLRAF10 Fundamenta U.S. Small Cap Fund	American Axle & Manufacturing Holdings, Inc.			Equity	9,044	55,892	0.013%
JNLRAF10 Fundamenta U.S. Small Cap Fund	PC Connection, Inc.			Equity	1,772	133,662	0.032%
JNLRAF10 Fundamenta U.S. Small Cap Fund	KCU Medical, Inc.			Equity	3,102	565,246	0.134%
JNLRAF10 Fundamenta U.S. Small Cap Fund	HNI Corporation			Equity	6,961	326,324	0.077%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Amos Energy Corporation			Equity	2,537	351,907	0.083%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Gray Television, Inc.			Equity	7,799	41,803	0.010%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Tempur Sealy International, Inc.			Equity	11,232	613,267	0.145%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Caspy's General Stores, Inc.			Equity	3,460	1,299,957	0.308%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Banner Corporation			Equity	4,858	289,342	0.069%
JNLRAF10 Fundamenta U.S. Small Cap Fund	PMC Corporation			Equity	19,910	1,324,413	0.314%
JNLRAF10 Fundamenta U.S. Small Cap Fund	NetScout Systems, Inc.			Equity	14,478	314,897	0.075%
JNLRAF10 Fundamenta U.S. Small Cap Fund	TTI Consulting, Inc.			Equity	2,354	336,676	0.127%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Equifax Inc.			Equity	3,805	1,118,137	0.265%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Compass Minerals International, Inc.			Equity	1,283	15,422	0.004%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Federated Hermes, Inc.			Equity	12,041	442,748	0.105%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Sealed Air Corporation			Equity	21,114	756,438	0.181%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Prosperity Bancshares, Inc.			Equity	11,651	846,487	0.200%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Healthcare Services Group, Inc.			Equity	6,619	73,934	0.018%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Cognex Corporation			Equity	12,448	504,144	0.119%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Guests 7, Inc.			Equity	6,135	183,688	0.044%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Hawaiian Electric Industries, Inc.			Equity	41,532	802,030	0.095%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Graco Inc.			Equity	7,658	670,152	0.159%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Curtiss-Wright Corporation			Equity	2,510	825,544	0.195%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Skchers U.S.A., Inc.			Equity	11,837	792,132	0.188%
JNLRAF10 Fundamenta U.S. Small Cap Fund	First Financial Bancorp.			Equity	9,442	258,622	0.063%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Encore Capital Group, Inc.			Equity	4,018	189,931	0.045%
JNLRAF10 Fundamenta U.S. Small Cap Fund	HEICO Corporation			Equity	2,156	563,751	0.133%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Commerce Bancshares, Inc.			Equity	8,127	462,744	0.114%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Harley-Davidson, Inc.			Equity	23,388	901,140	0.213%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Franklin Electric Co., Inc.			Equity	2,622	274,838	0.065%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Eagle Materials Inc.			Equity	2,633	758,094	0.180%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Hedra Mining Company			Equity	51,463	343,258	0.081%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Hub Group, Inc.			Equity	11,767	534,810	0.127%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Genex Corporation			Equity	30,655	910,147	0.216%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Donaldson Company, Inc.			Equity	8,811	649,371	0.154%
JNLRAF10 Fundamenta U.S. Small Cap Fund	WESCO International, Inc.			Equity	7,113	1,194,842	0.283%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Helmet, Inc.			Equity	1,416	399,494	0.096%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Helen of Troy Limited			Equity	5,191	321,063	0.076%
JNLRAF10 Fundamenta U.S. Small Cap Fund	The Andersons, Inc.			Equity	4,667	234,003	0.055%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Carpenter Technology Corporation			Equity	3,581	571,456	0.135%
JNLRAF10 Fundamenta U.S. Small Cap Fund	EQT Corporation			Equity	6,062	1,723,985	0.408%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Independent Bank Corp.			Equity	6,353	319,574	0.076%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Cal-Maine Foods, Inc.			Equity	5,626	421,050	0.100%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Fulton Financial Corporation			Equity	20,872	378,409	0.090%
JNLRAF10 Fundamenta U.S. Small Cap Fund	H.B. Fuller Company			Equity	5,182	411,347	0.097%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Granite Construction Incorporated			Equity	6,409	508,939	0.121%
JNLRAF10 Fundamenta U.S. Small Cap Fund	IDACORP, Inc.			Equity	5,247	540,913	0.128%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Chemed Corporation			Equity	902	542,075	0.128%
JNLRAF10 Fundamenta U.S. Small Cap Fund	First Citizens BancShares, Inc.			Equity	486	894,702	0.212%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Imnospex, Inc.			Equity	2,370	268,023	0.063%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Haemonetics Corporation			Equity	3,001	241,220	0.057%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Winn-Dixie Financial Corporation			Equity	5,360	581,721	0.138%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Radian Group Inc.			Equity	18,743	684,885	0.162%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Helmerich & Payne, Inc.			Equity	15,851	426,987	0.104%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Euronet Worldwide, Inc.			Equity	4,414	438,001	0.104%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Coca-Cola Consolidated, Inc.			Equity	198	260,647	0.062%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Greif, Inc.			Equity	3,809	240,838	0.057%
JNLRAF10 Fundamenta U.S. Small Cap Fund	MKS Instruments, Inc.			Equity	7,407	534,454	0.127%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Hanock Whitney Corporation			Equity	11,076	566,759	0.134%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Integra LifeSciences Holdings Corporation			Equity	9,365	170,162	0.040%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Gartner, Inc.			Equity	1,946	986,155	0.234%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Revvity, Inc.			Equity	10,246	1,399,147	0.319%
JNLRAF10 Fundamenta U.S. Small Cap Fund	CSG Systems International, Inc.			Equity	4,863	236,585	0.056%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Flowers Corporation			Equity	12,057	625,810	0.148%
JNLRAF10 Fundamenta U.S. Small Cap Fund	United Therapeutics Corporation			Equity	3,398	1,217,673	0.288%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Korn Ferry			Equity	6,847	517,985	0.122%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Jack Henry & Associates, Inc.			Equity	4,250	750,295	0.178%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Cathay General Bancorp			Equity	8,839	379,635	0.090%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Jack in the Box Inc.			Equity	4,684	217,993	0.052%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Darigold Ingredients Inc.			Equity	19,900	739,484	0.175%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Topgolf Callaway Brands Corp.			Equity	28,360	311,933	0.074%
JNLRAF10 Fundamenta U.S. Small Cap Fund	FS, Inc.			Equity	4,215	928,143	0.220%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Glacier Bancorp, Inc.			Equity	10,808	493,926	0.117%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Cabot Corporation			Equity	4,864	543,649	0.129%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Churchill Downs Incorporated			Equity	2,799	378,453	0.090%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Dycem Industries, Inc.			Equity	2,914	574,349	0.136%
JNLRAF10 Fundamenta U.S. Small Cap Fund	The Hain Celestial Group, Inc.			Equity	6,775	58,468	0.014%
JNLRAF10 Fundamenta U.S. Small Cap Fund	TTM Technologies, Inc.			Equity	16,668	804,191	0.192%
JNLRAF10 Fundamenta U.S. Small Cap Fund	RFM International Inc.			Equity	8,503	1,049,863	0.244%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Range Resources Corporation			Equity	12,676	389,914	0.092%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Neurocrine Biosciences, Inc.			Equity	2,627	302,683	0.072%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Entegris, Inc.			Equity	4,883	549,484	0.130%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Minerals Technologies Inc.			Equity	4,336	334,869	0.079%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Patrick Industries, Inc.			Equity	2,955	420,703	0.100%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Leggett & Platt, Incorporated			Equity	41,423	565,819	0.134%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Trex Company, Inc.			Equity	3,085	205,399	0.049%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Charles River Laboratories International, Inc.			Equity	2,451	482,773	0.114%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Littelfuse, Inc.			Equity	2,007	532,357	0.126%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Pool Corporation			Equity	1,812	682,762	0.162%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Olin Corporation			Equity	25,068	1,202,763	0.285%
JNLRAF10 Fundamenta U.S. Small Cap Fund	RLI Corp.			Equity	2,170	336,307	0.080%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Bruker Corporation			Equity	5,164	356,626	0.084%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Royal Caribbean Cruises Ltd.			Equity	3,858	685,378	0.162%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Dorman Products, Inc.			Equity	2,495	282,234	0.067%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Pull Power Inc.			Equity	100,177	226,400	0.054%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Ultron Motors, Inc.			Equity	1,059	849,086	0.083%
JNLRAF10 Fundamenta U.S. Small Cap Fund	La-Z-Boy Incorporated			Equity	8,799	377,741	0.089%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Forward Air Corporation			Equity	10,370	367,098	0.087%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Royal Gold, Inc.			Equity	3,140	440,542	0.104%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Silicon Laboratories Inc.			Equity	4,881	664,097	0.154%
JNLRAF10 Fundamenta U.S. Small Cap Fund	TXNM Energy, Inc.			Equity	11,058	484,009	0.115%
JNLRAF10 Fundamenta U.S. Small Cap Fund	McCormick & Company, Incorporated			Equity	16,834	1,385,438	0.328%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Lundblad System, Inc.			Equity	4,256	803,831	0.190%
JNLRAF10 Fundamenta U.S. Small Cap Fund	OGE Energy Corp.			Equity	26,380	1,082,108	0.256%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Lancaster Colony Corporation			Equity	1,443	254,791	0.060%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Pegasystems Inc.			Equity	2,501	182,798	0.043%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Plexus Corp.			Equity	3,127	427,492	0.101%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Oakbrook Corporation			Equity	9,892	691,277	0.235%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Owens & Minor, Inc.			Equity	19,826	311,070	0.074%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Upbound Group, Inc.			Equity	9,147	292,613	0.069%
JNLRAF10 Fundamenta U.S. Small Cap Fund	Exelbels, Inc.			Equity	25,750	668,213	0.158%
JNLRAF10 Fundamenta U.S. Small Cap Fund	ATI Inc.			Equity	4,748	317,689	0.075%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIRAF10 Fundamental U.S. Small Cap Fund	Pinnacle Financial Partners, Inc.			Equity	6,861	672,172	0.159%
JNLIRAF10 Fundamental U.S. Small Cap Fund	SM Energy Company			Equity	13,265	533,768	0.126%
JNLIRAF10 Fundamental U.S. Small Cap Fund	ProAssurance Corporation			Equity	1,724	25,929	0.006%
JNLIRAF10 Fundamental U.S. Small Cap Fund	EMCOR Group, Inc.			Equity	3,701	1,593,392	0.377%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Bread Financial Payments, Inc.			Equity	17,970	855,013	0.202%
JNLIRAF10 Fundamental U.S. Small Cap Fund	New Jersey Resources Corporation			Equity	10,036	478,215	0.113%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Mercury General Corporation			Equity	3,861	243,166	0.058%
JNLIRAF10 Fundamental U.S. Small Cap Fund	MGC Investment Corporation			Equity	37,708	965,325	0.229%
JNLIRAF10 Fundamental U.S. Small Cap Fund	The New York Times Company			Equity	8,668	482,548	0.114%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Flowers Foods, Inc.			Equity	24,065	555,180	0.131%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Quaker Chemical Corporation			Equity	1,096	184,665	0.044%
JNLIRAF10 Fundamental U.S. Small Cap Fund	CNO Financial Group, Inc.			Equity	18,359	644,401	0.153%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Fluor Corporation			Equity	17,674	843,227	0.200%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Murphy Oil Corporation			Equity	21,440	723,386	0.171%
JNLIRAF10 Fundamental U.S. Small Cap Fund	R.J's Wholesale Club Holdings, Inc.			Equity	5,127	422,638	0.100%
JNLIRAF10 Fundamental U.S. Small Cap Fund	National Fuel Gas Company			Equity	10,252	626,654	0.148%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Ryder System, Inc.			Equity	7,507	1,094,521	0.259%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Method Electronics, Inc.			Equity	1,069	19,961	0.005%
JNLIRAF10 Fundamental U.S. Small Cap Fund	PENN Entertainment, Inc.			Equity	29,027	547,440	0.130%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Patterson-UTI Energy, Inc.			Equity	47,209	361,149	0.086%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Pediatric Medical Group, Inc.			Equity	3,323	38,514	0.009%
JNLIRAF10 Fundamental U.S. Small Cap Fund	MOOG Inc.			Equity	2,695	544,444	0.129%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Nordson Corporation			Equity	2,332	612,453	0.145%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Nordstrom, Inc.			Equity	26,060	586,089	0.139%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Patterson Companies, Inc.			Equity	18,656	407,447	0.096%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Seaboard Corporation			Equity	63	197,631	0.047%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Reinsurance Group of America, Incorporated			Equity	3,935	857,118	0.203%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Polaris Inc.			Equity	11,278	936,781	0.222%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Oceanenergy International, Inc.			Equity	2,115	52,600	0.012%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Steven Madden, Ltd.			Equity	9,743	477,310	0.113%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Renaissance Corporation			Equity	5,874	180,805	0.045%
JNLIRAF10 Fundamental U.S. Small Cap Fund	National Beverage Corp.			Equity	9,758	422,521	0.102%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Mattel, Inc.			Equity	25,867	492,766	0.117%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Nu Skin Enterprises, Inc.			Equity	4,063	29,944	0.007%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Schleicher Corporation			Equity	5,444	174,262	0.041%
JNLIRAF10 Fundamental U.S. Small Cap Fund	MDU Resources Group, Inc.			Equity	24,519	601,127	0.142%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Brown & Brown, Inc.			Equity	7,874	815,746	0.193%
JNLIRAF10 Fundamental U.S. Small Cap Fund	NCR Voyix Corporation			Equity	24,667	334,731	0.079%
JNLIRAF10 Fundamental U.S. Small Cap Fund	MSC Industrial Direct Co., Inc.			Equity	6,195	533,142	0.126%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Pacific Premier Bancorp.			Equity	13,916	351,636	0.083%
JNLIRAF10 Fundamental U.S. Small Cap Fund	East West Bancorp., Inc.			Equity	12,092	1,000,492	0.237%
JNLIRAF10 Fundamental U.S. Small Cap Fund	MATV Holdings, Inc.			Equity	2,643	44,905	0.011%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Old National Bancorp			Equity	32,131	599,584	0.142%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Louisiana-Pacific Corporation (W VA)			Equity	9,011	860,620	0.204%
JNLIRAF10 Fundamental U.S. Small Cap Fund	IPG Photonics Corporation			Equity	4,518	335,778	0.080%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Newell Brands Inc.			Equity	89,219	685,202	0.162%
JNLIRAF10 Fundamental U.S. Small Cap Fund	RPC, Inc.			Equity	15,948	101,429	0.024%
JNLIRAF10 Fundamental U.S. Small Cap Fund	KB Home			Equity	10,288	381,578	0.090%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Telelynx Technologies Incorporated			Equity	2,725	1,192,624	0.282%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Exact Sciences Corporation			Equity	7,307	497,753	0.118%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Meritage Homes Corporation			Equity	5,279	1,082,565	0.256%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Matthews International Corporation			Equity	822	19,128	0.005%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Regal Rexnord Corporation			Equity	7,535	1,252,570	0.297%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Vector Group Ltd.			Equity	3,778	56,368	0.013%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Trinet Group, Inc.			Equity	2,677	259,589	0.061%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Newmark Group, Inc.			Equity	21,476	333,522	0.079%
JNLIRAF10 Fundamental U.S. Small Cap Fund	exp World Holdings, Inc.			Equity	9,758	137,028	0.032%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Ares Management Corporation			Equity	2,105	326,043	0.078%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Cushman & Wakefield PLC			Equity	35,654	485,964	0.115%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Selective Insurance Group, Inc.			Equity	4,162	388,315	0.092%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Midfield Corporation, The			Equity	4,325	601,127	0.142%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Insight Enterprises, Inc.			Equity	3,426	737,926	0.175%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Lincoln Electric Holdings, Inc.			Equity	3,145	606,183	0.144%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Millennium, Inc.			Equity	15,058	376,069	0.089%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Mueller Industries, Inc.			Equity	10,142	101,429	0.024%
JNLIRAF10 Fundamental U.S. Small Cap Fund	ResMed Inc.			Equity	5,325	1,299,939	0.308%
JNLIRAF10 Fundamental U.S. Small Cap Fund	MHI Homes, Inc.			Equity	3,537	606,100	0.144%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Rollins, Inc.			Equity	7,326	370,549	0.089%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Chemura Energy, Inc.			Equity	6,516	1,171,837	0.273%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Kennametal Inc.			Equity	16,104	417,577	0.099%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Align Technology, Inc.			Equity	3,952	1,005,073	0.238%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Kirby Corporation			Equity	4,596	562,688	0.133%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Scots Miracle-Gro Company, The			Equity	6,583	65,746	0.016%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Silex Financial Corp.			Equity	7,489	703,217	0.167%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Winnebago Industries, Inc.			Equity	6,532	379,575	0.090%
JNLIRAF10 Fundamental U.S. Small Cap Fund	ACI Worldwide, Inc.			Equity	10,081	513,123	0.122%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Wabash National Corporation			Equity	9,988	191,670	0.045%
JNLIRAF10 Fundamental U.S. Small Cap Fund	West Pharmaceutical Services, Inc.			Equity	1,912	573,906	0.136%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Stapan Company			Equity	2,637	203,708	0.048%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Trimble Inc.			Equity	20,930	1,299,544	0.308%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Vetra Tech, Inc.			Equity	11,882	540,355	0.133%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Vail Resorts, Inc.			Equity	2,846	496,378	0.118%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Trinity Industries, Inc.			Equity	11,399	397,141	0.094%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Avista Corporation			Equity	11,923	462,016	0.109%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Urban Outfitters, Inc.			Equity	10,957	419,763	0.099%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Valley National Bancorp			Equity	74,825	685,601	0.162%
JNLIRAF10 Fundamental U.S. Small Cap Fund	United Bankshares, Inc.			Equity	16,335	612,168	0.145%
JNLIRAF10 Fundamental U.S. Small Cap Fund	WesBanco, Inc.			Equity	4,886	147,264	0.035%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Zebra Technologies Corporation			Equity	5,975	1,472,022	0.349%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Sonoco Products Company			Equity	12,811	708,638	0.168%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Valmont Industries, Inc.			Equity	1,874	544,517	0.129%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Synaptics Incorporated			Equity	4,389	340,499	0.081%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Toro Company, The			Equity	7,635	664,985	0.157%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Southwest Gas Holdings, Inc.			Equity	9,112	472,022	0.109%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Wolverine World Wide, Inc.			Equity	6,646	115,773	0.027%
JNLIRAF10 Fundamental U.S. Small Cap Fund	UMB Financial Corporation			Equity	3,982	420,269	0.100%
JNLIRAF10 Fundamental U.S. Small Cap Fund	AMN Healthcare Services, Inc.			Equity	7,337	311,015	0.074%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Simmons First National Corporation			Equity	14,215	399,176	0.097%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Nexstar Media Group, Inc.			Equity	5,973	987,636	0.234%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Tyler Technologies, Inc.			Equity	807	471,062	0.112%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Asbury Automotive Group, Inc.			Equity	3,069	732,233	0.173%
JNLIRAF10 Fundamental U.S. Small Cap Fund	A. O. Smith Corporation			Equity	10,015	699,647	0.164%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Light & Wonder, Inc.			Equity	3,639	330,166	0.078%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Skyline Champion Corporation			Equity	2,736	259,510	0.061%
JNLIRAF10 Fundamental U.S. Small Cap Fund	ViaSat, Inc.			Equity	23,294	728,130	0.166%
JNLIRAF10 Fundamental U.S. Small Cap Fund	JetBlue Airways Corporation			Equity	144,032	944,850	0.224%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Wats Water Technologies, Inc.			Equity	1,578	126,946	0.030%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Silgan Holdings Inc.			Equity	8,522	447,405	0.106%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Simpson Manufacturing Co., Inc.			Equity	2,339	447,381	0.106%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Southwestern Energy Company			Equity	152,621	1,084,424	0.257%
JNLIRAF10 Fundamental U.S. Small Cap Fund	WAFD, Inc.			Equity	10,063	350,096	0.083%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Stewart Information Services Corporation			Equity	4,828	360,845	0.085%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Acuty Brands, Inc.			Equity	4,080	1,123,591	0.266%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Wynn Resorts, Limited			Equity	3,843	388,467	0.087%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Siaa, Inc.			Equity	898	392,658	0.093%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Watsco, Inc.			Equity	1,922	945,393	0.224%
JNLIRAF10 Fundamental U.S. Small Cap Fund	United Natural Foods, Inc.			Equity	5,314	89,381	0.021%
JNLIRAF10 Fundamental U.S. Small Cap Fund	United Community Banks, Inc.			Equity	10,966	321,523	0.076%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Stericycle, Inc.			Equity	7,883	468,663	0.111%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Woodward, Inc.			Equity	3,765	645,735	0.153%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Universal Corporation			Equity	4,049	215,042	0.051%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Teleflex Incorporated			Equity	3,283	811,952	0.192%
JNLIRAF10 Fundamental U.S. Small Cap Fund	The Timken Company			Equity	1,231	397,141	0.094%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Williams-Sonoma, Inc.			Equity	8,163	1,264,612	0.299%
JNLIRAF10 Fundamental U.S. Small Cap Fund	John Wiley & Sons, Inc.			Equity	7,338	354,059	0.084%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Webster Financial Corporation			Equity	17,887	833,713	0.197%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Semtech Corporation			Equity	11,008	607,625	0.146%
JNLIRAF10 Fundamental U.S. Small Cap Fund	United States Cellular Corporation			Equity	2,102	114,874	0.027%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Texas Capital Bancshares, Inc.			Equity	4,918	351,440	0.083%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Radius Recycling, Inc.			Equity	1,271	23,564	0.006%
JNLIRAF10 Fundamental U.S. Small Cap Fund	The Industries, Inc.			Equity	11,638	1,279,010	0.303%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Wets Markets, Inc.			Equity	2,428	167,365	0.040%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Rush Enterprises, Inc.			Equity	9,621	508,277	0.120%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Air Transport Services Group, Inc.			Equity	3,466	56,115	0.013%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Carter's, Inc.			Equity	8,476	550,770	0.130%
JNLIRAF10 Fundamental U.S. Small Cap Fund	skyWest, Inc.			Equity	7,881	670,043	0.159%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Werner Enterprises, Inc.			Equity	14,653	565,459	0.134%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Service Corporation International			Equity	8,444	666,485	0.158%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Vishay Intertechnology, Inc.			Equity	24,416	461,707	0.109%
JNLIRAF10 Fundamental U.S. Small Cap Fund	SEI Investments Company			Equity	13,979	967,207	0.229%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Sensient Technologies Corporation			Equity	4,748	380,885	0.090%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Worthington Industries, Inc.			Equity	4,368	181,054	0.043%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Teres Corporation			Equity	7,157	278,677	0.069%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Beacon Roofing Supply, Inc.			Equity	6,197	635,607	0.152%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Aniylan Pharmaceuticals, Inc.			Equity	1,982	545,109	0.129%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Dolby Laboratories, Inc.			Equity	5,926	453,517	0.107%
JNLIRAF10 Fundamental U.S. Small Cap Fund	B&G Foods, Inc.			Equity	8,680	78,728	0.019%
JNLIRAF10 Fundamental U.S. Small Cap Fund	Texas Roadhouse, Inc.			Equity	3,676	649,182	0.154%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLRAF10 Fundamental U.S. Small Cap Fund	Herbalife Nutrition Ltd.			Equity	4,837	34,778	0.008%
JNLRAF10 Fundamental U.S. Small Cap Fund	Cohen & Sizers, Inc.			Equity	1,839	13,268	0.042%
JNLRAF10 Fundamental U.S. Small Cap Fund	Gernoth Financial, Inc.			Equity	56,751	388,744	0.092%
JNLRAF10 Fundamental U.S. Small Cap Fund	MarketAxess Holdings Inc.			Equity	1,439	368,672	0.087%
JNLRAF10 Fundamental U.S. Small Cap Fund	EnerSys			Equity	4,690	478,615	0.113%
JNLRAF10 Fundamental U.S. Small Cap Fund	NewMarket Corporation			Equity	754	418,068	0.099%
JNLRAF10 Fundamental U.S. Small Cap Fund	ALLETE, Inc.			Equity	7,585	488,881	0.115%
JNLRAF10 Fundamental U.S. Small Cap Fund	Monolithic Power Systems, Inc.			Equity	597	552,673	0.131%
JNLRAF10 Fundamental U.S. Small Cap Fund	Domino's Pizza, Inc.			Equity	2,270	976,418	0.231%
JNLRAF10 Fundamental U.S. Small Cap Fund	NorthWestern Corporation			Equity	6,706	383,717	0.091%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ormat Technologies, Inc.			Equity	3,335	256,595	0.061%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ciena Corporation			Equity	19,621	1,208,457	0.286%
JNLRAF10 Fundamental U.S. Small Cap Fund	CommVault Systems, Inc.			Equity	2,422	372,625	0.088%
JNLRAF10 Fundamental U.S. Small Cap Fund	Belden Inc.			Equity	3,816	447,166	0.106%
JNLRAF10 Fundamental U.S. Small Cap Fund	Primoris Services Corporation			Equity	7,689	445,818	0.106%
JNLRAF10 Fundamental U.S. Small Cap Fund	Huntsman Corporation			Equity	10,286	248,921	0.059%
JNLRAF10 Fundamental U.S. Small Cap Fund	Western Alliance Bancorporation			Equity	9,166	792,767	0.188%
JNLRAF10 Fundamental U.S. Small Cap Fund	Morningstar, Inc.			Equity	778	248,275	0.059%
JNLRAF10 Fundamental U.S. Small Cap Fund	CineMark Holdings, Inc.			Equity	4,675	130,152	0.031%
JNLRAF10 Fundamental U.S. Small Cap Fund	Treehouse Foods, Inc.			Equity	9,490	398,390	0.094%
JNLRAF10 Fundamental U.S. Small Cap Fund	Infinera Corporation			Equity	10,626	71,726	0.017%
JNLRAF10 Fundamental U.S. Small Cap Fund	Under Armour, Inc.			Equity	61,469	547,689	0.130%
JNLRAF10 Fundamental U.S. Small Cap Fund	Central Garden & Pet Company			Equity	8,177	256,768	0.061%
JNLRAF10 Fundamental U.S. Small Cap Fund	Kennedy-Wilson Holdings, Inc.			Equity	21,169	236,458	0.056%
JNLRAF10 Fundamental U.S. Small Cap Fund	RBC Bearings Incorporated			Equity	1,070	320,337	0.076%
JNLRAF10 Fundamental U.S. Small Cap Fund	Masimo Corporation			Equity	3,441	458,789	0.109%
JNLRAF10 Fundamental U.S. Small Cap Fund	The Western Union Company			Equity	67,465	494,857	0.121%
JNLRAF10 Fundamental U.S. Small Cap Fund	CVR Energy, Inc.			Equity	7,925	182,513	0.043%
JNLRAF10 Fundamental U.S. Small Cap Fund	Dana Incorporated			Equity	30,145	318,331	0.075%
JNLRAF10 Fundamental U.S. Small Cap Fund	Chipotle Mexican Grill, Inc.			Equity	20,268	1,167,842	0.277%
JNLRAF10 Fundamental U.S. Small Cap Fund	First Solar, Inc.			Equity	4,510	1,124,874	0.269%
JNLRAF10 Fundamental U.S. Small Cap Fund	Evercore Inc.			Equity	4,354	1,103,045	0.261%
JNLRAF10 Fundamental U.S. Small Cap Fund	Home BancShares, Inc.			Equity	18,289	495,449	0.117%
JNLRAF10 Fundamental U.S. Small Cap Fund	Spirit AeroSystems Holdings, Inc.			Equity	17,070	554,946	0.131%
JNLRAF10 Fundamental U.S. Small Cap Fund	DexCom, Inc.			Equity	6,568	373,279	0.088%
JNLRAF10 Fundamental U.S. Small Cap Fund	EchoStar Corporation			Equity	16,789	236,934	0.056%
JNLRAF10 Fundamental U.S. Small Cap Fund	Crocs, Inc.			Equity	4,013	581,123	0.138%
JNLRAF10 Fundamental U.S. Small Cap Fund	Chart Industries, Inc.			Equity	1,837	228,045	0.054%
JNLRAF10 Fundamental U.S. Small Cap Fund	Armstrong World Industries, Inc.			Equity	3,247	426,753	0.101%
JNLRAF10 Fundamental U.S. Small Cap Fund	Allegiant Travel Company			Equity	3,848	211,457	0.050%
JNLRAF10 Fundamental U.S. Small Cap Fund	GameStop Corp.			Equity	25,408	582,605	0.138%
JNLRAF10 Fundamental U.S. Small Cap Fund	iRobot Corporation			Equity	1,796	15,607	0.004%
JNLRAF10 Fundamental U.S. Small Cap Fund	Kaiser Aluminum Corporation			Equity	2,878	208,713	0.049%
JNLRAF10 Fundamental U.S. Small Cap Fund	Teradata Corporation			Equity	15,333	465,234	0.110%
JNLRAF10 Fundamental U.S. Small Cap Fund	Interactive Brokers Group, Inc.			Equity	1,329	185,209	0.044%
JNLRAF10 Fundamental U.S. Small Cap Fund	Sally Beauty Holdings, Inc.			Equity	24,206	328,475	0.078%
JNLRAF10 Fundamental U.S. Small Cap Fund	Avis Budget Group, Inc.			Equity	756	66,218	0.016%
JNLRAF10 Fundamental U.S. Small Cap Fund	Super Micro Computer, Inc.			Equity	898	373,927	0.089%
JNLRAF10 Fundamental U.S. Small Cap Fund	TFS Financial Corporation			Equity	4,018	51,671	0.012%
JNLRAF10 Fundamental U.S. Small Cap Fund	Green Plains Inc.			Equity	12,745	172,567	0.041%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hanesbrands Inc.			Equity	128,320	943,152	0.223%
JNLRAF10 Fundamental U.S. Small Cap Fund	MSCI Inc.			Equity	1,476	860,495	0.204%
JNLRAF10 Fundamental U.S. Small Cap Fund	Broadridge Financial Solutions, Inc.			Equity	4,676	1,009,857	0.239%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ulta Beauty, Inc.			Equity	2,308	896,089	0.213%
JNLRAF10 Fundamental U.S. Small Cap Fund	Genpact Limited			Equity	19,781	775,613	0.184%
JNLRAF10 Fundamental U.S. Small Cap Fund	Portland General Electric Company			Equity	13,894	612,601	0.149%
JNLRAF10 Fundamental U.S. Small Cap Fund	BBK, Inc.			Equity	9,822	401,138	0.152%
JNLRAF10 Fundamental U.S. Small Cap Fund	Walker & Dunlop, Inc.			Equity	3,598	408,697	0.097%
JNLRAF10 Fundamental U.S. Small Cap Fund	First Interstate BancSystem, Inc.			Equity	13,338	409,210	0.097%
JNLRAF10 Fundamental U.S. Small Cap Fund	BankUnited, Inc.			Equity	21,229	773,585	0.183%
JNLRAF10 Fundamental U.S. Small Cap Fund	TriPointe, Inc.			Equity	16,335	236,934	0.056%
JNLRAF10 Fundamental U.S. Small Cap Fund	Post Holdings, Inc.			Equity	5,623	650,862	0.154%
JNLRAF10 Fundamental U.S. Small Cap Fund	Gudewire Software, Inc.			Equity	2,268	414,908	0.098%
JNLRAF10 Fundamental U.S. Small Cap Fund	Capitol Federal Financial			Equity	6,396	37,353	0.009%
JNLRAF10 Fundamental U.S. Small Cap Fund	Jazz Pharmaceuticals Public Limited Company			Equity	7,104	791,457	0.187%
JNLRAF10 Fundamental U.S. Small Cap Fund	Opentlane, Inc.			Equity	16,793	283,466	0.067%
JNLRAF10 Fundamental U.S. Small Cap Fund	Spirit Airlines, Inc.			Equity	9,858	23,659	0.006%
JNLRAF10 Fundamental U.S. Small Cap Fund	Matador Resources Company			Equity	7,198	355,725	0.084%
JNLRAF10 Fundamental U.S. Small Cap Fund	Primetrica, Inc.			Equity	2,707	217,761	0.052%
JNLRAF10 Fundamental U.S. Small Cap Fund	Acadia Healthcare Company, Inc.			Equity	5,810	368,412	0.087%
JNLRAF10 Fundamental U.S. Small Cap Fund	Booz Allen Hamilton Holding Corporation			Equity	6,090	991,208	0.235%
JNLRAF10 Fundamental U.S. Small Cap Fund	Signt Jewellers Limited			Equity	5,309	547,570	0.130%
JNLRAF10 Fundamental U.S. Small Cap Fund	Select Medical Holdings Corporation			Equity	12,473	124,934	0.030%
JNLRAF10 Fundamental U.S. Small Cap Fund	SSAC Technologies Holdings, Inc.			Equity	17,772	1,318,860	0.312%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hillenbrand, Inc.			Equity	7,628	212,058	0.050%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ingrion Incorporated			Equity	6,941	953,902	0.226%
JNLRAF10 Fundamental U.S. Small Cap Fund	LPL Financial Holdings Inc.			Equity	3,819	989,414	0.240%
JNLRAF10 Fundamental U.S. Small Cap Fund	Fortinet, Inc.			Equity	15,049	1,167,050	0.276%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ziff Davis, Inc.			Equity	7,682	373,806	0.089%
JNLRAF10 Fundamental U.S. Small Cap Fund	XPO, Inc.			Equity	3,905	419,827	0.099%
JNLRAF10 Fundamental U.S. Small Cap Fund	Pryson Holding Corporation			Equity	5,583	111,158	0.028%
JNLRAF10 Fundamental U.S. Small Cap Fund	Yelp, Inc.			Equity	11,609	601,138	0.096%
JNLRAF10 Fundamental U.S. Small Cap Fund	Bright Horizons Family Solutions, Inc.			Equity	2,589	362,797	0.086%
JNLRAF10 Fundamental U.S. Small Cap Fund	Telephone and Data Systems, Inc.			Equity	27,395	636,934	0.151%
JNLRAF10 Fundamental U.S. Small Cap Fund	Transcision Ltd.			Equity	149,020	633,335	0.150%
JNLRAF10 Fundamental U.S. Small Cap Fund	Graphic Packaging Holding Company			Equity	32,017	459,438	0.109%
JNLRAF10 Fundamental U.S. Small Cap Fund	Allison Systems, Inc.			Equity	13,692	1,315,390	0.311%
JNLRAF10 Fundamental U.S. Small Cap Fund	The Wendy's Company			Equity	17,933	214,186	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	Xylem Inc.			Equity	8,382	1,131,821	0.268%
JNLRAF10 Fundamental U.S. Small Cap Fund	Vision Corporation			Equity	2,295	213,911	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	Grand Canyon Education, Inc.			Equity	3,292	466,970	0.111%
JNLRAF10 Fundamental U.S. Small Cap Fund	Pilgrim's Pride Corporation			Equity	4,291	197,601	0.047%
JNLRAF10 Fundamental U.S. Small Cap Fund	Versar Analytics, Inc.			Equity	4,848	1,299,070	0.308%
JNLRAF10 Fundamental U.S. Small Cap Fund	Reology Holdings Corp.			Equity	9,949	501,761	0.120%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hyatt Hotels Corporation			Equity	2,833	431,183	0.102%
JNLRAF10 Fundamental U.S. Small Cap Fund	Generac Holdings Inc.			Equity	4,487	712,895	0.169%
JNLRAF10 Fundamental U.S. Small Cap Fund	Globus Medical, Inc.			Equity	5,964	426,665	0.101%
JNLRAF10 Fundamental U.S. Small Cap Fund	Air Lease Corporation			Equity	10,021	729,192	0.172%
JNLRAF10 Fundamental U.S. Small Cap Fund	Fortune Brands Innovations, Inc.			Equity	11,040	988,411	0.234%
JNLRAF10 Fundamental U.S. Small Cap Fund	EPAM Systems, Inc.			Equity	2,797	556,687	0.132%
JNLRAF10 Fundamental U.S. Small Cap Fund	Zurich American Corporation			Equity	9,089	556,701	0.132%
JNLRAF10 Fundamental U.S. Small Cap Fund	Marron Vacations Worldwide Corporation			Equity	9,010	393,788	0.094%
JNLRAF10 Fundamental U.S. Small Cap Fund	Acushnet Holdings Corp.			Equity	2,786	177,608	0.042%
JNLRAF10 Fundamental U.S. Small Cap Fund	Berry Global Group, Inc.			Equity	16,302	1,108,210	0.262%
JNLRAF10 Fundamental U.S. Small Cap Fund	MRC Global Inc.			Equity	4,820	61,407	0.015%
JNLRAF10 Fundamental U.S. Small Cap Fund	Liberty Latin America Ltd.			Equity	33,109	314,204	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	Valkone, Inc.			Equity	8,639	601,138	0.096%
JNLRAF10 Fundamental U.S. Small Cap Fund	ServiceNow, Inc.			Equity	1,514	1,354,106	0.321%
JNLRAF10 Fundamental U.S. Small Cap Fund	Taylor Morrison Home II Corporation			Equity	19,048	1,338,312	0.317%
JNLRAF10 Fundamental U.S. Small Cap Fund	Intele Holdings Corporation			Equity	2,402	312,260	0.074%
JNLRAF10 Fundamental U.S. Small Cap Fund	Bloomer Brands, Inc.			Equity	2,436	49,267	0.010%
JNLRAF10 Fundamental U.S. Small Cap Fund	Trade Desk, Inc. The			Equity	2,561	280,814	0.066%
JNLRAF10 Fundamental U.S. Small Cap Fund	Adient Public Limited Company			Equity	26,433	596,593	0.141%
JNLRAF10 Fundamental U.S. Small Cap Fund	Murphy USA Inc.			Equity	2,421	1,193,238	0.283%
JNLRAF10 Fundamental U.S. Small Cap Fund	Genithem Incorporated			Equity	4,460	207,613	0.049%
JNLRAF10 Fundamental U.S. Small Cap Fund	Dave & Buster's Entertainment, Inc.			Equity	1,105	37,625	0.009%
JNLRAF10 Fundamental U.S. Small Cap Fund	Ionis Pharmaceuticals, Inc.			Equity	7,606	304,696	0.072%
JNLRAF10 Fundamental U.S. Small Cap Fund	Tenet Healthcare Corporation			Equity	8,555	1,421,841	0.337%
JNLRAF10 Fundamental U.S. Small Cap Fund	Sprouts Farmers Market, Inc.			Equity	10,160	1,121,766	0.266%
JNLRAF10 Fundamental U.S. Small Cap Fund	Artisan Partners Asset Management Inc.			Equity	7,585	328,582	0.078%
JNLRAF10 Fundamental U.S. Small Cap Fund	First Hawaiian, Inc.			Equity	20,984	485,780	0.115%
JNLRAF10 Fundamental U.S. Small Cap Fund	GoDaddy, Inc.			Equity	7,162	1,122,858	0.266%
JNLRAF10 Fundamental U.S. Small Cap Fund	PTC Inc.			Equity	2,411	435,571	0.102%
JNLRAF10 Fundamental U.S. Small Cap Fund	Five Below, Inc.			Equity	2,720	240,312	0.057%
JNLRAF10 Fundamental U.S. Small Cap Fund	Hubbell Incorporated			Equity	2,373	1,016,475	0.241%
JNLRAF10 Fundamental U.S. Small Cap Fund	Gates Industrial Corporation PLC			Equity	21,117	370,603	0.088%
JNLRAF10 Fundamental U.S. Small Cap Fund	American Airlines Group Inc			Equity	39,549	399,751	0.094%
JNLRAF10 Fundamental U.S. Small Cap Fund	Lions Gate Entertainment Corp.			Equity	9,297	72,796	0.017%
JNLRAF10 Fundamental U.S. Small Cap Fund	Snap Inc.			Equity	57,895	619,477	0.147%
JNLRAF10 Fundamental U.S. Small Cap Fund	Twilio Inc.			Equity	17,162	1,119,306	0.265%
JNLRAF10 Fundamental U.S. Small Cap Fund	TRI Pointe Homes Holdings, Inc.			Equity	20,290	919,340	0.218%
JNLRAF10 Fundamental U.S. Small Cap Fund	Samitri Corporation			Equity	11,066	757,468	0.179%
JNLRAF10 Fundamental U.S. Small Cap Fund	Boise Cascade Company			Equity	6,474	912,705	0.216%
JNLRAF10 Fundamental U.S. Small Cap Fund	Palo Alto Networks, Inc.			Equity	3,483	1,190,489	0.282%
JNLRAF10 Fundamental U.S. Small Cap Fund	Matson Intermodal - Paragon, Inc.			Equity	5,348	762,732	0.181%
JNLRAF10 Fundamental U.S. Small Cap Fund	Independent Bank Group, Inc.			Equity	5,367	399,461	0.097%
JNLRAF10 Fundamental U.S. Small Cap Fund	Oxia, Inc.			Equity	5,828	433,254	0.103%
JNLRAF10 Fundamental U.S. Small Cap Fund	Lamb Weston Holdings, Inc.			Equity	6,459	418,156	0.099%
JNLRAF10 Fundamental U.S. Small Cap Fund	Sarepta Therapeutics, Inc.			Equity	3,075	384,357	0.091%
JNLRAF10 Fundamental U.S. Small Cap Fund	Nonstop Cruise Line Holdings Ltd.			Equity	7,403	151,169	0.036%
JNLRAF10 Fundamental U.S. Small Cap Fund	United Parks And Resorts Inc.			Equity	2,867	145,070	0.034%
JNLRAF10 Fundamental U.S. Small Cap Fund	Wex, Inc.			Equity	1,600	335,568	0.079%
JNLRAF10 Fundamental U.S. Small Cap Fund	Akore Inc.			Equity	2,080	176,259	0.042%
JNLRAF10 Fundamental U.S. Small Cap Fund	Coty Inc.			Equity	25,197	238,600	0.056%
JNLRAF10 Fundamental U.S. Small Cap Fund	Workday, Inc.			Equity	955	233,412	0.055%
JNLRAF10 Fundamental U.S. Small Cap Fund	Peabody Energy Corporation			Equity	33,368	885,587	0.210%
JNLRAF10 Fundamental U.S. Small Cap Fund	Premier Healthcare Solutions, Inc.			Equity	23,968	479,360	0.114%
JNLRAF10 Fundamental U.S. Small Cap Fund	TecnicPMC PLC			Equity	30,551	801,353	0.190%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Herc Holdings Inc.			Equity	2,283	363,979	0.086%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Prior & Dexter Holdings, Inc.			Equity	2,989	37,144	0.088%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Essent Group Ltd.			Equity	9,257	595,133	0.141%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Arcbest Corporation			Equity	3,410	369,815	0.088%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Science Applications International Corporation			Equity	5,926	825,314	0.195%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	GrafTech International Ltd.			Equity	4,329	51,000	0.013%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	CNX Resources Corporation			Equity	29,259	920,395	0.218%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Southstate Corporation			Equity	7,518	730,599	0.173%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sabre Corporation			Equity	128,269	470,747	0.111%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	RingCentral, Inc.			Equity	8,610	272,334	0.064%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Warner Met Coal, Inc.			Equity	8,654	552,991	0.131%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Cleveland-Cliffs Inc.			Equity	13,171	168,194	0.040%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	One Gas, Inc.			Equity	7,442	553,834	0.131%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Pentair Public Limited Company			Equity	12,344	1,207,120	0.286%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Aramark			Equity	16,881	653,901	0.161%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sensata Technologies Holding PLC			Equity	23,186	831,450	0.197%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Brighthouse Financial, Inc.			Equity	7,313	329,304	0.078%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Navient Corporation			Equity	16,557	258,124	0.061%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Burlington Stores, Inc.			Equity	2,913	767,517	0.182%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Delek US Holdings, Inc.			Equity	22,900	429,375	0.102%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Dropbox, Inc.			Equity	27,303	694,315	0.164%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	CommScope Holding Company, Inc.			Equity	19,392	118,485	0.028%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	ONOW Inc.			Equity	19,531	252,536	0.060%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Moelis & Company			Equity	6,715	460,045	0.109%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Vevea Systems Inc.			Equity	2,686	563,711	0.133%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Mine Safety Appliances Company, LLC			Equity	1,568	278,069	0.066%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	LGI Homes, Inc.			Equity	3,458	499,243	0.097%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Graham Holdings Co., Ltd.			Equity	411	337,727	0.080%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	ASGN Incorporated			Equity	6,041	563,202	0.133%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Spartanash Company			Equity	1,763	39,892	0.009%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Synovus Financial Corp.			Equity	19,444	827,898	0.206%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Antero Resources Corporation			Equity	36,390	685,274	0.253%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Century Communities, Inc.			Equity	4,843	498,732	0.118%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sage Therapeutics Inc.			Equity	17,235	124,437	0.029%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Voya Financial, Inc.			Equity	10,554	836,088	0.198%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Paycom Software, Inc.			Equity	1,513	252,938	0.062%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	ADT, Inc.			Equity	43,747	317,971	0.075%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Nvent Electric Public Limited Company			Equity	10,712	752,625	0.178%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	ITI Inc.			Equity	5,585	835,013	0.198%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Wyndham Hotels & Resorts, Inc.			Equity	6,289	499,143	0.116%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Knowles Corporation			Equity	13,956	251,627	0.060%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Arista Networks, Inc.			Equity	928	356,185	0.084%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sumitomo			Equity	33,511	605,209	0.143%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Janus Henderson Group PLC			Equity	24,279	624,802	0.149%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Arbor Realty Trust, Inc.			Equity	24,176	376,179	0.089%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Hope Bancorp, Inc.			Equity	19,476	244,619	0.058%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Archrock, Inc.			Equity	14,501	293,500	0.070%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Offit's Bargain Outlet Holdings, Inc.			Equity	4,216	499,076	0.097%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	PRA Group, Inc.			Equity	2,941	65,761	0.016%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	EastGroup Properties, Inc.			Equity	1,624	305,669	0.072%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Acadia Realty Trust			Equity	12,695	300,491	0.071%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Caleres, Inc.			Equity	1,698	56,119	0.013%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	TEGNA Inc.			Equity	40,351	641,504	0.152%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	International Game Technology PLC			Equity	15,728	335,006	0.079%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Urban Edge Properties			Equity	3,261	69,753	0.017%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sunstone Hotel Investors, Inc.			Equity	29,580	307,928	0.073%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Econopass Health Corporation			Equity	6,335	612,214	0.145%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	JELD-WEN Holding, Inc.			Equity	16,776	265,229	0.063%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	PotlatchDeltic Corporation			Equity	10,615	478,206	0.113%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Pure Storage, Inc.			Equity	8,151	409,506	0.087%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	TransUnion			Equity	9,608	1,005,968	0.238%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Uniti Group Inc.			Equity	53,669	302,693	0.072%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	LivaNova PLC			Equity	4,738	248,935	0.059%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Conduent Incorporated			Equity	4,997	20,138	0.005%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Apoll Commercial Real Estate Finance, Inc.			Equity	22,155	229,145	0.056%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Virtu Financial, Inc.			Equity	14,781	450,229	0.107%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Teladoc Health, Inc.			Equity	40,457	371,395	0.088%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Avista Coating Systems Ltd.			Equity	17,701	640,599	0.152%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Catalent, Inc.			Equity	12,563	760,941	0.180%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Spire Inc.			Equity	7,883	536,541	0.127%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	ETSY, Inc.			Equity	7,636	424,027	0.100%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Performance Food Group Company			Equity	4,733	342,712	0.081%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Zillow Group, Inc.			Equity	15,441	985,988	0.230%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Vista Outdoor Inc.			Equity	8,302	305,682	0.072%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Keysight Technologies, Inc.			Equity	2,224	263,460	0.064%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	SiteOne Landscape Supply, Inc.			Equity	2,234	337,133	0.080%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Block, Inc.			Equity	3,817	256,236	0.061%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Cable One, Inc.			Equity	729	254,997	0.060%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Red Rock Resorts, Inc.			Equity	3,231	175,896	0.042%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	GMS Inc.			Equity	4,343	393,346	0.091%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Dennys Sierra Inc.			Equity	32,690	889,873	0.211%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Adtalem Global Education Inc.			Equity	6,111	461,258	0.109%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Ardagh Group S.A.			Equity	441	0	0.000%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	The Chemours Company			Equity	30,291	615,513	0.146%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Apoll Hospitality REIT, Inc.			Equity	32,857	490,555	0.116%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Liberty Broadband Corporation			Equity	9,758	754,000	0.179%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Hilton Grand Vacations Inc.			Equity	8,033	291,759	0.069%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Advanced Drainage Systems, Inc.			Equity	1,811	284,617	0.067%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	AGNC Investment Corp.			Equity	54,218	573,626	0.136%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Bio-Techne Corporation			Equity	4,685	374,000	0.088%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Schneider National, Inc.			Equity	9,071	259,705	0.061%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	TopBuild Corp.			Equity	1,465	595,977	0.141%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Medical Properties Trust, Inc.			Equity	250,508	1,483,757	0.351%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Houlihan Lokey, Inc.			Equity	2,467	221,167	0.053%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Edgewell Personal Care Colombia S A S			Equity	8,728	318,485	0.075%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Ashland Inc.			Equity	7,215	627,489	0.149%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Laureate Education, Inc.			Equity	19,144	317,982	0.075%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	RH			Equity	913	271,992	0.064%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	PennyMac Mortgage Investment Trust			Equity	17,637	251,504	0.060%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Summit Materials, Inc.			Equity	7,447	290,656	0.069%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Wavi Solutions Inc.			Equity	38,697	349,047	0.083%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Monard Foods Limited			Equity	16,358	311,762	0.074%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	LCI Industries			Equity	4,164	501,929	0.119%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Lumentum Holdings Inc.			Equity	9,439	598,244	0.142%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Capri Holdings Limited			Equity	23,243	986,433	0.234%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Pebblebrook Hotel Trust			Equity	21,823	286,937	0.068%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	American Homes 4 Rent			Equity	16,373	628,559	0.149%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	BWXT Government Group, Inc.			Equity	4,494	488,498	0.116%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	ELME Communities			Equity	3,791	68,034	0.016%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sabra Health Care REIT, Inc.			Equity	32,615	606,965	0.144%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	COPT Defense Properties			Equity	13,427	411,202	0.097%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	OUTFRONT Media Inc.			Equity	22,321	410,260	0.097%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Gaming and Leisure Properties, Inc.			Equity	15,744	810,029	0.192%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Camden Property Trust			Equity	8,211	1,022,762	0.242%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Agree Realty Corporation			Equity	5,956	450,154	0.107%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Tanger Inc.			Equity	2,026	67,223	0.016%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	W.P. Carey Inc.			Equity	18,570	1,173,339	0.278%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Invitation Homes Inc.			Equity	36,396	1,293,514	0.308%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Cubesmart, L.P.			Equity	12,355	665,123	0.158%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Americold Realty Trust, Inc.			Equity	23,155	659,686	0.156%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Ladder Capital Corp			Equity	16,704	197,608	0.047%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Starwood Property Trust, Inc.			Equity	49,835	1,039,857	0.246%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	IRVN REIT, Inc.			Equity	13,693	663,974	0.157%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Piedmont Office Realty Trust, Inc.			Equity	9,119	92,102	0.022%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Kilroy Realty Corporation			Equity	20,992	823,903	0.195%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Brandywine Realty Trust			Equity	13,141	71,487	0.017%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	DiamondRock Asphreia Tenant, LLC			Equity	38,307	336,569	0.079%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Redwood Trust, Inc.			Equity	7,500	57,975	0.014%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	JBG Smith Properties			Equity	24,960	436,301	0.103%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Xenia Hotels & Resorts, Inc.			Equity	19,861	295,730	0.070%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Equity Lifestyle Properties, Inc.			Equity	9,989	601,690	0.148%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Bremer Property Group Inc.			Equity	29,453	820,559	0.194%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Sun Communities, Inc.			Equity	8,774	1,194,054	0.283%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Veris Residential, Inc.			Equity	2,991	53,629	0.013%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	STAG Industrial, Inc.			Equity	11,613	455,384	0.108%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Tomato Realty Trust			Equity	27,486	1,082,948	0.256%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Rexford Industrial Realty, Inc.			Equity	11,081	562,111	0.133%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Essex Property Trust, Inc.			Equity	3,155	939,888	0.223%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Rayonier Inc.			Equity	12,080	417,696	0.099%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Omega Healthcare Investors, Inc.			Equity	20,517	837,991	0.198%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Ryman Hospitality Properties, Inc.			Equity	521	56,445	0.013%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Extra Space Storage Inc.			Equity	7,036	1,267,817	0.300%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Independence Realty Trust, Inc.			Equity	20,466	422,828	0.100%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Hudson Pacific Properties, Inc.			Equity	65,087	311,116	0.074%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Retail Opportunity Investments Corp.			Equity	3,903	62,560	0.014%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	Regency Centers Corporation			Equity	14,490	1,056,640	0.250%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	The Macerich Company			Equity	40,355	736,075	0.174%
JNLIRAF10 Fundamenta U.S. Small Cap Fund	LXP Industrial Trust			Equity	33,426	340,277	0.081%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLRAFI® Fundamental U.S. Small Cap Fund	Empire State Realty Trust, Inc.			Equity	6,347	70,325	0.017%
JNLRAFI® Fundamental U.S. Small Cap Fund	First Industrial Realty Trust, Inc.			Equity	7,209	409,312	0.006%
JNLRAFI® Fundamental U.S. Small Cap Fund	EPR Properties			Equity	9,538	470,462	0.111%
JNLRAFI® Fundamental U.S. Small Cap Fund	UDR, Inc.			Equity	22,076	1,000,926	0.237%
JNLRAFI® Fundamental U.S. Small Cap Fund	Highwoods Properties, Inc.			Equity	20,074	672,680	0.159%
JNLRAFI® Fundamental U.S. Small Cap Fund	Douglas Emmett, Inc.			Equity	35,273	626,448	0.148%
JNLRAFI® Fundamental U.S. Small Cap Fund	Blackstone Mortgage Trust, Inc.			Equity	32,476	632,632	0.150%
JNLRAFI® Fundamental U.S. Small Cap Fund	Alexander & Baldwin, Inc.			Equity	8,172	158,437	0.038%
JNLRAFI® Fundamental U.S. Small Cap Fund	GEO Group, Inc., The			Equity	34,760	446,666	0.106%
JNLRAFI® Fundamental U.S. Small Cap Fund	Park Hotels & Resorts Inc.			Equity	60,403	866,783	0.205%
JNLRAFI® Fundamental U.S. Small Cap Fund	RLJ BEM Columbus Lessee, LLC			Equity	39,163	374,401	0.089%
JNLRAFI® Fundamental U.S. Small Cap Fund	RITHM Capital Corp.			Equity	66,585	755,740	0.179%
JNLRAFI® Fundamental U.S. Small Cap Fund	Lamar Advertising Company			Equity	5,489	733,330	0.174%
JNLRAFI® Fundamental U.S. Small Cap Fund	Global Net Lease, Inc.			Equity	29,665	249,779	0.059%
JNLRAFI® Fundamental U.S. Small Cap Fund	SBA Communications Corporation			Equity	2,040	491,028	0.116%
JNLRAFI® Fundamental U.S. Small Cap Fund	VICI Properties Inc.			Equity	10,094	345,162	0.082%
JNLRAFI® Fundamental U.S. Small Cap Fund	CoreCivic, Inc.			Equity	24,117	305,080	0.072%
JNLRAFI® Fundamental U.S. Small Cap Fund	Equity Commonwealth			Equity	2,829	56,297	0.013%
JNLRAFI® Fundamental U.S. Small Cap Fund	Paramount Group, Inc.			Equity	9,663	47,542	0.011%
JNLRAFI® Fundamental U.S. Small Cap Fund	Kosmos Energy Ltd.			Equity	39,812	160,442	0.038%
JNLRAFI® Fundamental U.S. Small Cap Fund	Kite Realty Naperville, LLC			Equity	19,225	510,616	0.121%
JNLRAFI® Fundamental U.S. Small Cap Fund	Element Solutions Inc.			Equity	19,944	541,679	0.128%
JNLRAFI® Fundamental U.S. Small Cap Fund	Artena Midstream Corporation			Equity	21,563	324,523	0.077%
JNLRAFI® Fundamental U.S. Small Cap Fund	Levi Strauss & Co.			Equity	8,439	183,970	0.044%
JNLRAFI® Fundamental U.S. Small Cap Fund	Tronox Holdings PLC			Equity	24,920	364,580	0.086%
JNLRAFI® Fundamental U.S. Small Cap Fund	Steris Public Limited Company			Equity	5,108	1,238,894	0.143%
JNLRAFI® Fundamental U.S. Small Cap Fund	Lyft, Inc.			Equity	39,880	599,470	0.120%
JNLRAFI® Fundamental U.S. Small Cap Fund	Tradeweb Markets Inc.			Equity	2,467	305,094	0.072%
JNLRAFI® Fundamental U.S. Small Cap Fund	Roku Inc.			Equity	6,604	493,055	0.117%
JNLRAFI® Fundamental U.S. Small Cap Fund	Pinterest, Inc.			Equity	18,682	604,736	0.143%
JNLRAFI® Fundamental U.S. Small Cap Fund	Zoom Video Communications, Inc.			Equity	10,303	716,531	0.170%
JNLRAFI® Fundamental U.S. Small Cap Fund	Clear Channel Outdoor Holdings, Inc.			Equity	31,745	501,872	0.012%
JNLRAFI® Fundamental U.S. Small Cap Fund	Novavax, Inc.			Equity	15,145	191,281	0.045%
JNLRAFI® Fundamental U.S. Small Cap Fund	Spectrum Brands Holdings, Inc.			Equity	6,302	599,572	0.142%
JNLRAFI® Fundamental U.S. Small Cap Fund	Bank OZK			Equity	14,009	602,247	0.143%
JNLRAFI® Fundamental U.S. Small Cap Fund	Avantor, Inc.			Equity	29,947	174,405	0.039%
JNLRAFI® Fundamental U.S. Small Cap Fund	Atlantic Union Bank			Equity	8,829	332,588	0.079%
JNLRAFI® Fundamental U.S. Small Cap Fund	Kontor Brands, Inc.			Equity	4,247	347,320	0.082%
JNLRAFI® Fundamental U.S. Small Cap Fund	Cousins Properties Incorporated			Equity	25,166	741,894	0.176%
JNLRAFI® Fundamental U.S. Small Cap Fund	Brightsphere Investment Group Inc.			Equity	1,329	33,721	0.008%
JNLRAFI® Fundamental U.S. Small Cap Fund	Globe Life Inc.			Equity	7,291	772,190	0.183%
JNLRAFI® Fundamental U.S. Small Cap Fund	Ubiquiti Inc.			Equity	115	25,498	0.006%
JNLRAFI® Fundamental U.S. Small Cap Fund	Clarivate PLC			Equity	45,772	324,981	0.077%
JNLRAFI® Fundamental U.S. Small Cap Fund	Envista Holdings Corporation			Equity	39,688	665,512	0.158%
JNLRAFI® Fundamental U.S. Small Cap Fund	Service Properties Trust			Equity	22,701	103,517	0.025%
JNLRAFI® Fundamental U.S. Small Cap Fund	Cerence Inc.			Equity	982	3,093	0.001%
JNLRAFI® Fundamental U.S. Small Cap Fund	Healthpeak OP, LLC			Equity	66,303	1,516,350	0.359%
JNLRAFI® Fundamental U.S. Small Cap Fund	Harsco Corporation			Equity	2,561	295,541	0.062%
JNLRAFI® Fundamental U.S. Small Cap Fund	Strategic Education, Inc.			Equity	2,386	220,824	0.052%
JNLRAFI® Fundamental U.S. Small Cap Fund	O-I Glass, Inc.			Equity	37,233	488,497	0.116%
JNLRAFI® Fundamental U.S. Small Cap Fund	Equitable Holdings, Inc.			Equity	23,149	972,952	0.230%
JNLRAFI® Fundamental U.S. Small Cap Fund	Oxton Care Health, Inc.			Equity	7,697	240,195	0.057%
JNLRAFI® Fundamental U.S. Small Cap Fund	Reynolds Consumer Products Inc.			Equity	4,167	129,594	0.031%
JNLRAFI® Fundamental U.S. Small Cap Fund	Essential Utilities, Inc.			Equity	19,422	749,107	0.177%
JNLRAFI® Fundamental U.S. Small Cap Fund	Ingersoll Rand Inc.			Equity	14,182	1,392,105	0.330%
JNLRAFI® Fundamental U.S. Small Cap Fund	Sphere Entertainment Co.			Equity	395	17,451	0.004%
JNLRAFI® Fundamental U.S. Small Cap Fund	Nabors Industries Ltd.			Equity	805	51,769	0.012%
JNLRAFI® Fundamental U.S. Small Cap Fund	UPF Industries, Inc.			Equity	7,467	979,745	0.232%
JNLRAFI® Fundamental U.S. Small Cap Fund	Arch Resources, Inc.			Equity	3,492	482,455	0.114%
JNLRAFI® Fundamental U.S. Small Cap Fund	The Carlyle Group, Inc.			Equity	20,580	886,175	0.210%
JNLRAFI® Fundamental U.S. Small Cap Fund	ChampionX Corporation			Equity	11,300	240,905	0.058%
JNLRAFI® Fundamental U.S. Small Cap Fund	Zoominfo Technologies Inc.			Equity	21,959	226,617	0.054%
JNLRAFI® Fundamental U.S. Small Cap Fund	Royalty Pharma PLC			Equity	21,818	617,231	0.146%
JNLRAFI® Fundamental U.S. Small Cap Fund	The ODF Corporation			Equity	8,455	251,536	0.060%
JNLRAFI® Fundamental U.S. Small Cap Fund	Match Group, Inc.			Equity	14,620	145,321	0.031%
JNLRAFI® Fundamental U.S. Small Cap Fund	Dun & Bradstreet Holdings, Inc.			Equity	29,098	334,918	0.079%
JNLRAFI® Fundamental U.S. Small Cap Fund	Willcoff Holdings Corporation			Equity	6,437	242,031	0.057%
JNLRAFI® Fundamental U.S. Small Cap Fund	Avient Corporation			Equity	11,365	574,867	0.136%
JNLRAFI® Fundamental U.S. Small Cap Fund	Cineplex Entertainment, Inc.			Equity	15,717	657,597	0.156%
JNLRAFI® Fundamental U.S. Small Cap Fund	Rocket Companies, Inc.			Equity	6,133	117,692	0.028%
JNLRAFI® Fundamental U.S. Small Cap Fund	Snowflake Inc.			Equity	2,975	341,709	0.081%
JNLRAFI® Fundamental U.S. Small Cap Fund	Bentley Systems, Incorporated			Equity	4,920	249,985	0.059%
JNLRAFI® Fundamental U.S. Small Cap Fund	API Group Corporation			Equity	10,821	357,309	0.085%
JNLRAFI® Fundamental U.S. Small Cap Fund	Palantir Technologies Inc.			Equity	15,539	578,051	0.137%
JNLRAFI® Fundamental U.S. Small Cap Fund	Vontier Corporation			Equity	10,234	345,295	0.082%
JNLRAFI® Fundamental U.S. Small Cap Fund	iHeartMedia, Inc.			Equity	6,016	11,130	0.003%
JNLRAFI® Fundamental U.S. Small Cap Fund	New York Mortgage Trust, Inc.			Equity	4,503	29,405	0.007%
JNLRAFI® Fundamental U.S. Small Cap Fund	PTAI Aviation Ltd.			Equity	1,273	169,182	0.040%
JNLRAFI® Fundamental U.S. Small Cap Fund	IHS Holding Limited			Equity	2,291	6,850	0.002%
JNLRAFI® Fundamental U.S. Small Cap Fund	Crane Company			Equity	2,307	365,152	0.086%
JNLRAFI® Fundamental U.S. Small Cap Fund	Vitamin Odsco Holdings, Inc.			Equity	4,826	1,241	0.000%
JNLRAFI® Fundamental U.S. Small Cap Fund	Knife River Corporation			Equity	4,690	419,239	0.099%
JNLRAFI® Fundamental U.S. Small Cap Fund	Leonardo DRS, Inc.			Equity	4,301	121,374	0.029%
JNLRAFI® Fundamental U.S. Small Cap Fund	BGC Group, Inc.			Equity	30,668	281,532	0.067%
JNLRAFI® Fundamental U.S. Small Cap Fund	Phinia Inc.			Equity	7,600	349,828	0.083%
JNLRAFI® Fundamental U.S. Small Cap Fund	Liberity Media Corporation			Equity	7,149	653,547	0.151%
JNLRAFI® Fundamental U.S. Small Cap Fund	Howard Hughes Holdings Inc.			Equity	3,820	295,783	0.070%
JNLRAFI® Fundamental U.S. Small Cap Fund	Verallto Corporation			Equity	2,589	289,839	0.069%
JNLRAFI® Fundamental U.S. Small Cap Fund	Vestas Corporation			Equity	26,194	390,907	0.093%
JNLRAFI® Fundamental U.S. Small Cap Fund	WK Kellogg Co			Equity	10,317	176,524	0.042%
JNLRAFI® Fundamental U.S. Small Cap Fund	Birkenstock Holding PLC			Equity	504	24,842	0.006%
JNLRAFI® Fundamental U.S. Small Cap Fund	SharkNinja, Inc.			Equity	2,838	308,519	0.073%
JNLRAFI® Fundamental U.S. Small Cap Fund	Worthington Steel, Inc.			Equity	1,316	44,757	0.011%
JNLRAFI® Fundamental U.S. Small Cap Fund	UWM Holdings Corporation			Equity	1,772	15,144	0.004%
JNLRAFI® Fundamental U.S. Small Cap Fund	The Cooper Companies, Inc.			Equity	10,563	1,165,521	0.276%
JNLRAFI® Fundamental U.S. Small Cap Fund	Chimera Investment Corporation			Equity	16,177	262,067	0.062%
JNLRAFI® Fundamental U.S. Small Cap Fund	New York Community Bancorp, Inc.			Equity	81,099	910,742	0.216%
JNLRAFI® Fundamental U.S. Small Cap Fund	Seagood Entertainment Group Inc.			Equity	354	9,707	0.002%
JNLRAFI® Fundamental U.S. Small Cap Fund	SITE Centers Corp.			Equity	4,868	294,514	0.070%
JNLRAFI® Fundamental U.S. Small Cap Fund	Ginkgo Bioworks Holdings, Inc.			Equity	11,025	89,854	0.021%
JNLRAFI® Fundamental U.S. Small Cap Fund	Seagood Entertainment Group Inc.	10/10/2024		Equity	354	983	0.000%
Total Non Derivatives						422,285,350	
Derivatives							
JNLRAFI® Fundamental U.S. Small Cap Fund	S&P Midcap 400 Index FUTURE - CASH SETTLED			Derivative	6	5,759	0.001%
JNLRAFI® Fundamental U.S. Small Cap Fund	Russell 2000 Index FUTURE - CASH SETTLED			Derivative	6	1,601	0.000%
Total Derivatives						7,360	
Total All Investments						422,292,710	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLRAF10 Multi-Factor U.S. Equity Fund	Cash			Cash Equivalent	1,576,293	1,576,293	0.069%
JNLRAF10 Multi-Factor U.S. Equity Fund	Mid-America Apartment Communities, Inc.			Equity	2,680	425,852	0.019%
JNLRAF10 Multi-Factor U.S. Equity Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	10,315,828	10,349,637	0.454%
JNLRAF10 Multi-Factor U.S. Equity Fund	Viatis Inc.			Equity	254,060	2,949,637	0.123%
JNLRAF10 Multi-Factor U.S. Equity Fund	PROG Holdings, Inc.			Equity	16,243	1,987,623	0.035%
JNLRAF10 Multi-Factor U.S. Equity Fund	DoorDash, Inc.			Equity	14,243	2,032,903	0.089%
JNLRAF10 Multi-Factor U.S. Equity Fund	NOV Inc.			Equity	7,267	116,054	0.005%
JNLRAF10 Multi-Factor U.S. Equity Fund	Lumen Technologies Inc.			Equity	348,783	2,476,359	0.109%
JNLRAF10 Multi-Factor U.S. Equity Fund	Cousins, Inc.			Equity	45,226	1,110,298	0.049%
JNLRAF10 Multi-Factor U.S. Equity Fund	Academy Sports & Outdoors, Inc.			Equity	13,149	769,851	0.034%
JNLRAF10 Multi-Factor U.S. Equity Fund	Coimbase Global, Inc.			Equity	7,442	1,325,941	0.058%
JNLRAF10 Multi-Factor U.S. Equity Fund	Frontier Communications Parent, Inc.			Equity	11,159	396,479	0.017%
JNLRAF10 Multi-Factor U.S. Equity Fund	Seagate Technology Holdings Public Limited Company			Equity	30,094	3,317,262	0.145%
JNLRAF10 Multi-Factor U.S. Equity Fund	Organo & Co.			Equity	56,822	1,087,025	0.048%
JNLRAF10 Multi-Factor U.S. Equity Fund	Applavin Corporation			Equity	7,911	1,032,781	0.045%
JNLRAF10 Multi-Factor U.S. Equity Fund	DT Midstream, Inc.			Equity	6,717	531,662	0.023%
JNLRAF10 Multi-Factor U.S. Equity Fund	Phillips Edison & Company, Inc.			Equity	11,512	435,298	0.019%
JNLRAF10 Multi-Factor U.S. Equity Fund	General Electric Company			Equity	106,471	20,088,113	0.881%
JNLRAF10 Multi-Factor U.S. Equity Fund	Bath & Body Works, Inc.			Equity	10,880	347,290	0.015%
JNLRAF10 Multi-Factor U.S. Equity Fund	Victoria's Secret & Co.			Equity	16,467	423,202	0.019%
JNLRAF10 Multi-Factor U.S. Equity Fund	Jackson Financial Inc.			Equity	22,005	2,007,516	0.088%
JNLRAF10 Multi-Factor U.S. Equity Fund	Sylvamo Corporation			Equity	8,176	701,310	0.031%
JNLRAF10 Multi-Factor U.S. Equity Fund	Clearyway Energy, Inc.			Equity	15,309	469,680	0.021%
JNLRAF10 Multi-Factor U.S. Equity Fund	Cadence Bank			Equity	7,786	249,931	0.011%
JNLRAF10 Multi-Factor U.S. Equity Fund	Kyndryl Holdings, Inc.			Equity	52,907	1,215,803	0.053%
JNLRAF10 Multi-Factor U.S. Equity Fund	FirstCash, Inc.			Equity	5,331	611,999	0.027%
JNLRAF10 Multi-Factor U.S. Equity Fund	Core & Main, Inc.			Equity	7,948	352,891	0.015%
JNLRAF10 Multi-Factor U.S. Equity Fund	SL Green Realty Corp.			Equity	21,321	1,489,485	0.065%
JNLRAF10 Multi-Factor U.S. Equity Fund	Constellation Energy Group, Inc.			Equity	7,476	1,943,910	0.085%
JNLRAF10 Multi-Factor U.S. Equity Fund	Elanco Animal Health Incorporated			Equity	19,840	281,450	0.012%
JNLRAF10 Multi-Factor U.S. Equity Fund	HF Sinclair Corporation			Equity	17,105	1,162,504	0.033%
JNLRAF10 Multi-Factor U.S. Equity Fund	MFA Financial, Inc.			Equity	23,709	309,877	0.014%
JNLRAF10 Multi-Factor U.S. Equity Fund	ESAB Corporation			Equity	2,654	282,359	0.012%
JNLRAF10 Multi-Factor U.S. Equity Fund	Healthcare Realty Trust Incorporated			Equity	52,226	947,802	0.042%
JNLRAF10 Multi-Factor U.S. Equity Fund	DigitalBridge Group, Inc.			Equity	44,117	623,810	0.027%
JNLRAF10 Multi-Factor U.S. Equity Fund	Robinson Markets, Inc.			Equity	27,322	639,881	0.028%
JNLRAF10 Multi-Factor U.S. Equity Fund	Coherent Corp.			Equity	6,510	578,804	0.025%
JNLRAF10 Multi-Factor U.S. Equity Fund	Covetris Financial, Inc.			Equity	50,037	1,459,079	0.064%
JNLRAF10 Multi-Factor U.S. Equity Fund	U-Haul Holding Company			Equity	8,931	643,051	0.028%
JNLRAF10 Multi-Factor U.S. Equity Fund	Masterbrand, Inc.			Equity	29,258	542,443	0.024%
JNLRAF10 Multi-Factor U.S. Equity Fund	GE HealthCare Technologies Inc.			Equity	18,050	1,693,993	0.074%
JNLRAF10 Multi-Factor U.S. Equity Fund	Mr. Cooper Group Inc.			Equity	10,847	999,876	0.044%
JNLRAF10 Multi-Factor U.S. Equity Fund	Resideo Technologies, Inc.			Equity	19,661	1,956,191	0.087%
JNLRAF10 Multi-Factor U.S. Equity Fund	PennyMac Financial Services, Inc.			Equity	5,754	655,783	0.029%
JNLRAF10 Multi-Factor U.S. Equity Fund	Arcosa, Inc.			Equity	5,221	494,742	0.022%
JNLRAF10 Multi-Factor U.S. Equity Fund	Yum! Brands, Inc.			Equity	22,384	3,127,269	0.137%
JNLRAF10 Multi-Factor U.S. Equity Fund	United Rentals, Inc.			Equity	1,624	1,315,052	0.058%
JNLRAF10 Multi-Factor U.S. Equity Fund	Steelcase Inc.			Equity	25,602	347,931	0.015%
JNLRAF10 Multi-Factor U.S. Equity Fund	SLM Corporation			Equity	55,389	1,266,746	0.056%
JNLRAF10 Multi-Factor U.S. Equity Fund	Inspire, Inc.			Equity	8,821	248,248	0.011%
JNLRAF10 Multi-Factor U.S. Equity Fund	Verizon Communications Inc.			Equity	661,798	25,230,348	1.106%
JNLRAF10 Multi-Factor U.S. Equity Fund	ONEOK, Inc.			Equity	13,872	1,264,155	0.055%
JNLRAF10 Multi-Factor U.S. Equity Fund	Group 1 Automotive, Inc.			Equity	4,458	1,707,592	0.075%
JNLRAF10 Multi-Factor U.S. Equity Fund	Mettler-Toledo International Inc.			Equity	1,870	2,804,439	0.123%
JNLRAF10 Multi-Factor U.S. Equity Fund	Valero Energy Corporation			Equity	69,614	8,049,878	0.353%
JNLRAF10 Multi-Factor U.S. Equity Fund	Ball Corporation			Equity	28,121	1,773,871	0.078%
JNLRAF10 Multi-Factor U.S. Equity Fund	Amedisys, Inc.			Equity	3,588	346,278	0.015%
JNLRAF10 Multi-Factor U.S. Equity Fund	AFLAC Incorporated			Equity	39,431	4,408,386	0.193%
JNLRAF10 Multi-Factor U.S. Equity Fund	Brady Corporation			Equity	6,020	461,313	0.020%
JNLRAF10 Multi-Factor U.S. Equity Fund	Avery Dennison Corporation			Equity	10,776	2,378,510	0.104%
JNLRAF10 Multi-Factor U.S. Equity Fund	Benchmark Electronics, Inc.			Equity	9,703	431,686	0.019%
JNLRAF10 Multi-Factor U.S. Equity Fund	Archer-Daniels-Midland Company			Equity	110,385	6,594,400	0.289%
JNLRAF10 Multi-Factor U.S. Equity Fund	Comcast Corporation			Equity	78,297	3,270,466	0.143%
JNLRAF10 Multi-Factor U.S. Equity Fund	International Business Machines Corporation			Equity	116,001	25,645,501	1.124%
JNLRAF10 Multi-Factor U.S. Equity Fund	Pinnacle West Capital Corporation			Equity	2,620	232,106	0.010%
JNLRAF10 Multi-Factor U.S. Equity Fund	Adobe Inc.			Equity	2,146	1,111,156	0.049%
JNLRAF10 Multi-Factor U.S. Equity Fund	W. R. Berkley Corporation			Equity	7,332	415,944	0.018%
JNLRAF10 Multi-Factor U.S. Equity Fund	Baxter International Inc.			Equity	27,617	1,058,922	0.046%
JNLRAF10 Multi-Factor U.S. Equity Fund	Abercrombie & Fitch Co.			Equity	40,404	5,652,520	0.248%
JNLRAF10 Multi-Factor U.S. Equity Fund	Apogee Enterprises, Inc.			Equity	4,798	335,932	0.015%
JNLRAF10 Multi-Factor U.S. Equity Fund	VenStor, Inc.			Equity	4,519	858,429	0.038%
JNLRAF10 Multi-Factor U.S. Equity Fund	Affiliated Managers Group, Inc.			Equity	9,997	1,017,447	0.043%
JNLRAF10 Multi-Factor U.S. Equity Fund	Berkshire Hathaway Inc.			Equity	94,997	43,723,319	1.916%
JNLRAF10 Multi-Factor U.S. Equity Fund	Take-Two Interactive Software, Inc.			Equity	9,675	1,487,144	0.065%
JNLRAF10 Multi-Factor U.S. Equity Fund	Autodesk, Inc.			Equity	12,112	1,959,214	0.086%
JNLRAF10 Multi-Factor U.S. Equity Fund	The AES Corporation			Equity	25,885	519,253	0.023%
JNLRAF10 Multi-Factor U.S. Equity Fund	Best Buy Co., Inc.			Equity	73,001	7,600,658	0.333%
JNLRAF10 Multi-Factor U.S. Equity Fund	CRH Public Limited Company			Equity	15,655	1,451,845	0.064%
JNLRAF10 Multi-Factor U.S. Equity Fund	Bristol-Myers Squibb Company			Equity	142,414	7,368,500	0.323%
JNLRAF10 Multi-Factor U.S. Equity Fund	Automatic Data Processing, Inc.			Equity	10,073	2,801,344	0.123%
JNLRAF10 Multi-Factor U.S. Equity Fund	Annet, Inc.			Equity	17,630	567,485	0.024%
JNLRAF10 Multi-Factor U.S. Equity Fund	C.H. Robinson Worldwide, Inc.			Equity	30,973	3,435,891	0.151%
JNLRAF10 Multi-Factor U.S. Equity Fund	American Electric Power Company, Inc.			Equity	12,582	1,290,913	0.057%
JNLRAF10 Multi-Factor U.S. Equity Fund	ASB Industries Incorporated			Equity	15,054	784,249	0.035%
JNLRAF10 Multi-Factor U.S. Equity Fund	AutoZone, Inc.			Equity	1,966	619,972	0.027%
JNLRAF10 Multi-Factor U.S. Equity Fund	Jones Lang LaSalle Incorporated			Equity	6,005	1,620,209	0.071%
JNLRAF10 Multi-Factor U.S. Equity Fund	Quanta Services, Inc.			Equity	10,555	3,146,973	0.138%
JNLRAF10 Multi-Factor U.S. Equity Fund	FirstEnergy Corp.			Equity	12,666	561,737	0.025%
JNLRAF10 Multi-Factor U.S. Equity Fund	American Express Company			Equity	12,301	3,557,501	0.148%
JNLRAF10 Multi-Factor U.S. Equity Fund	Osi Systems, Inc.			Equity	2,348	356,497	0.016%
JNLRAF10 Multi-Factor U.S. Equity Fund	AAR Corp.			Equity	6,484	423,794	0.019%
JNLRAF10 Multi-Factor U.S. Equity Fund	Arrow Electronics, Inc.			Equity	13,391	1,718,727	0.078%
JNLRAF10 Multi-Factor U.S. Equity Fund	American International Group, Inc.			Equity	143,041	10,674,921	0.469%
JNLRAF10 Multi-Factor U.S. Equity Fund	ANVS, Inc.			Equity	3,268	1,041,283	0.046%
JNLRAF10 Multi-Factor U.S. Equity Fund	Brunswick Corporation			Equity	14,927	1,251,181	0.055%
JNLRAF10 Multi-Factor U.S. Equity Fund	BorgWarner Inc.			Equity	33,190	1,204,465	0.053%
JNLRAF10 Multi-Factor U.S. Equity Fund	American Eagle Outfitters, Inc.			Equity	89,083	1,895,268	0.083%
JNLRAF10 Multi-Factor U.S. Equity Fund	Applied Materials, Inc.			Equity	64,448	13,021,718	0.571%
JNLRAF10 Multi-Factor U.S. Equity Fund	American Woodmark Corporation			Equity	3,330	311,189	0.014%
JNLRAF10 Multi-Factor U.S. Equity Fund	Alstare Corporation, The			Equity	40,440	7,705,053	0.338%
JNLRAF10 Multi-Factor U.S. Equity Fund	Boston Scientific Corporation			Equity	34,886	2,893,614	0.128%
JNLRAF10 Multi-Factor U.S. Equity Fund	Comfort Systems USA, Inc.			Equity	2,606	1,017,252	0.045%
JNLRAF10 Multi-Factor U.S. Equity Fund	Del Monte Fresh Produce Company			Equity	8,343	246,452	0.011%
JNLRAF10 Multi-Factor U.S. Equity Fund	Sempra			Equity	14,707	1,239,065	0.054%
JNLRAF10 Multi-Factor U.S. Equity Fund	Brown Forman Corporation			Equity	28,503	1,446,562	0.062%
JNLRAF10 Multi-Factor U.S. Equity Fund	AptarGroup, Inc.			Equity	8,979	1,438,346	0.063%
JNLRAF10 Multi-Factor U.S. Equity Fund	Maximus, Inc.			Equity	11,758	1,095,375	0.048%
JNLRAF10 Multi-Factor U.S. Equity Fund	Amgen Inc.			Equity	72,185	23,758,729	1.019%
JNLRAF10 Multi-Factor U.S. Equity Fund	Amazon.com, Inc.			Equity	133,087	24,786,101	1.087%
JNLRAF10 Multi-Factor U.S. Equity Fund	Robert Half Inc.			Equity	9,378	632,171	0.028%
JNLRAF10 Multi-Factor U.S. Equity Fund	Boston Beer Company, Inc., The			Equity	1,321	381,954	0.017%
JNLRAF10 Multi-Factor U.S. Equity Fund	Hanover Insurance Group Inc, The			Equity	6,296	932,501	0.041%
JNLRAF10 Multi-Factor U.S. Equity Fund	AGCO Corporation			Equity	5,509	539,111	0.024%
JNLRAF10 Multi-Factor U.S. Equity Fund	Sonic Automotive, Inc.			Equity	9,347	314,295	0.014%
JNLRAF10 Multi-Factor U.S. Equity Fund	H & R Block, Inc.			Equity	30,205	1,930,855	0.085%
JNLRAF10 Multi-Factor U.S. Equity Fund	PriceSmart, Inc.			Equity	5,403	495,887	0.022%
JNLRAF10 Multi-Factor U.S. Equity Fund	Amphenol Corporation			Equity	28,375	1,853,878	0.081%
JNLRAF10 Multi-Factor U.S. Equity Fund	Becton, Dickinson and Company			Equity	11,127	2,682,720	0.118%
JNLRAF10 Multi-Factor U.S. Equity Fund	Apple Inc.			Equity	104,205	24,279,765	1.064%
JNLRAF10 Multi-Factor U.S. Equity Fund	The Buckle, Inc.			Equity	12,252	538,720	0.024%
JNLRAF10 Multi-Factor U.S. Equity Fund	Manhattan Associates, Inc.			Equity	1,892	532,371	0.023%
JNLRAF10 Multi-Factor U.S. Equity Fund	Home Depot, Inc., The			Equity	37,728	15,287,388	0.670%
JNLRAF10 Multi-Factor U.S. Equity Fund	IDEX Corporation			Equity	7,992	1,714,284	0.075%
JNLRAF10 Multi-Factor U.S. Equity Fund	GATX Corporation			Equity	4,693	621,588	0.027%
JNLRAF10 Multi-Factor U.S. Equity Fund	Crown Holdings, Inc.			Equity	14,727	1,412,025	0.062%
JNLRAF10 Multi-Factor U.S. Equity Fund	The Clorox Company			Equity	16,201	2,539,305	0.110%
JNLRAF10 Multi-Factor U.S. Equity Fund	Hilltop Holdings Inc.			Equity	9,809	283,297	0.012%
JNLRAF10 Multi-Factor U.S. Equity Fund	M&T Bank Corporation			Equity	4,163	741,514	0.032%
JNLRAF10 Multi-Factor U.S. Equity Fund	Consolidated Edison, Inc.			Equity	8,106	844,078	0.037%
JNLRAF10 Multi-Factor U.S. Equity Fund	Eastman Chemical Company			Equity	15,230	1,716,225	0.075%
JNLRAF10 Multi-Factor U.S. Equity Fund	Idolig, Inc.			Equity	10,493	584,760	0.025%
JNLRAF10 Multi-Factor U.S. Equity Fund	Cirrus Logic, Inc.			Equity	6,922	859,782	0.038%
JNLRAF10 Multi-Factor U.S. Equity Fund	Credit Acceptance Corporation			Equity	521	231,022	0.010%
JNLRAF10 Multi-Factor U.S. Equity Fund	Cisco Systems, Inc.			Equity	288,917	15,376,163	0.674%
JNLRAF10 Multi-Factor U.S. Equity Fund	Cao International Inc.			Equity	3,722	1,877,972	0.082%
JNLRAF10 Multi-Factor U.S. Equity Fund	IDEXX Laboratories, Inc.			Equity	2,089	1,055,405	0.046%
JNLRAF10 Multi-Factor U.S. Equity Fund	Commercial Metals Company			Equity	20,448	1,123,822	0.049%
JNLRAF10 Multi-Factor U.S. Equity Fund	Target Corporation			Equity	112,632	17,554,824	0.769%
JNLRAF10 Multi-Factor U.S. Equity Fund	Cooper, Inc.			Equity	33,895	1,776,088	0.078%
JNLRAF10 Multi-Factor U.S. Equity Fund	Biogen Inc.			Equity	11,629	2,254,165	0.099%
JNLRAF10 Multi-Factor U.S. Equity Fund	Dillard's, Inc.			Equity	1,090	418,495	0.018%
JNLRAF10 Multi-Factor U.S. Equity Fund	Entergy Corporation			Equity	5,096	670,885	0.029%
JNLRAF10 Multi-Factor U.S. Equity Fund	Facile Research Systems Inc.			Equity	1,379	634,133	0.028%
JNLRAF10 Multi-Factor U.S. Equity Fund	BioMarin Pharmaceutical Inc.			Equity	5,620	395,030	0.017%
JNLRAF10 Multi-Factor U.S. Equity Fund	First Horizon Corporation			Equity	24,862	389,836	0.017%
JNLRAF10 Multi-Factor U.S. Equity Fund	Unifirst Corporation			Equity	2,602	516,887	0.023%
JNLRAF10 Multi-Factor U.S. Equity Fund	The Interpublic Group of Companies, Inc.			Equity	41,249	1,304,766	0.057%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLURAF10 Multi-Factor U.S. Equity Fund	Cullen/Frost Bankers, Inc.			Equity	2,461	275,287	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Marriot International, Inc.			Equity	4,504	3,142,068	0.056%
JNLURAF10 Multi-Factor U.S. Equity Fund	Moody's Corporation			Equity	5,062	2,402,375	0.105%
JNLURAF10 Multi-Factor U.S. Equity Fund	CMS Energy Corporation			Equity	6,719	474,563	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fifth Third Bancorp			Equity	16,149	697,798	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	C-8 Apparel Group, Ltd.			Equity	11,435	1,149,996	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Deckers Outdoor Corporation			Equity	20,422	3,256,286	0.143%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ingles Markets, Incorporated			Equity	2,473	184,486	0.008%
JNLURAF10 Multi-Factor U.S. Equity Fund	Amkor Technology, Inc.			Equity	24,904	762,062	0.033%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hormel Foods Corporation			Equity	16,451	521,497	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cummins, Inc.			Equity	6,910	2,237,389	0.098%
JNLURAF10 Multi-Factor U.S. Equity Fund	Assurant, Inc.			Equity	9,156	1,820,762	0.080%
JNLURAF10 Multi-Factor U.S. Equity Fund	NRG Energy, Inc.			Equity	17,175	1,564,643	0.069%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fair Isaac Corporation			Equity	2,209	4,293,236	0.188%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Goodyear Tire & Rubber Company			Equity	84,736	749,914	0.033%
JNLURAF10 Multi-Factor U.S. Equity Fund	InterDigital, Inc.			Equity	1,911	270,555	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fastenal Company			Equity	32,364	2,311,437	0.101%
JNLURAF10 Multi-Factor U.S. Equity Fund	World Kinect Corporation			Equity	16,488	512,447	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	Erie Indemnity Company			Equity	1,907	1,029,437	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hexcel Corporation			Equity	9,268	573,040	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	Juniper Networks, Inc.			Equity	75,376	2,938,156	0.129%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Greenbrier Companies, Inc.			Equity	11,668	593,785	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	Flex Ltd.			Equity	32,396	1,082,998	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	Intel Corporation			Equity	407,958	9,570,695	0.419%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lennox International Inc.			Equity	7,246	4,387,018	0.192%
JNLURAF10 Multi-Factor U.S. Equity Fund	D.R. Horton, Inc.			Equity	6,749	1,287,507	0.056%
JNLURAF10 Multi-Factor U.S. Equity Fund	JPMorgan Chase & Co.			Equity	66,601	14,043,487	0.615%
JNLURAF10 Multi-Factor U.S. Equity Fund	Constellation Brands, Inc.			Equity	6,186	1,594,070	0.070%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cleco Group, Inc.			Equity	2,187	528,620	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	White Mountains Insurance Group Ltd			Equity	325	551,265	0.024%
JNLURAF10 Multi-Factor U.S. Equity Fund	Campbell Soup Company			Equity	19,988	976,302	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	PC Connection, Inc.			Equity	2,802	211,355	0.009%
JNLURAF10 Multi-Factor U.S. Equity Fund	Caterpillar Inc.			Equity	12,694	4,964,877	0.218%
JNLURAF10 Multi-Factor U.S. Equity Fund	ICU Medical, Inc.			Equity	2,073	377,742	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	NVIDIA Corporation			Equity	212,100	25,759,851	1.129%
JNLURAF10 Multi-Factor U.S. Equity Fund	Garden Restaurants, Inc.			Equity	9,907	699,051	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	HNI Corporation			Equity	7,369	396,747	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Almos Energy Corporation			Equity	3,587	497,553	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tempur Sealy International, Inc.			Equity	14,906	813,868	0.036%
JNLURAF10 Multi-Factor U.S. Equity Fund	Expeditors International of Washington, Inc.			Equity	18,849	2,476,527	0.109%
JNLURAF10 Multi-Factor U.S. Equity Fund	Casey's General Stores, Inc.			Equity	8,613	3,235,990	0.142%
JNLURAF10 Multi-Factor U.S. Equity Fund	International Flavors & Fragrances Inc.			Equity	6,581	693,177	0.030%
JNLURAF10 Multi-Factor U.S. Equity Fund	General Dynamics Corporation			Equity	15,677	4,737,589	0.208%
JNLURAF10 Multi-Factor U.S. Equity Fund	NetScout Systems, Inc.			Equity	17,043	1,070,685	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	Amdocs Limited			Equity	10,749	945,471	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gilead Sciences, Inc.			Equity	214,322	17,968,756	0.787%
JNLURAF10 Multi-Factor U.S. Equity Fund	FTI Consulting, Inc.			Equity	4,708	1,071,352	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	General Mills, Inc.			Equity	50,138	4,387,241	0.193%
JNLURAF10 Multi-Factor U.S. Equity Fund	Church & Dwight Co., Inc.			Equity	15,942	1,669,446	0.073%
JNLURAF10 Multi-Factor U.S. Equity Fund	Equifax Inc.			Equity	10,689	3,141,070	0.138%
JNLURAF10 Multi-Factor U.S. Equity Fund	Federated Hermes, Inc.			Equity	15,693	577,032	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sealed Air Corporation			Equity	39,685	1,295,366	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Prosperity Bancshares, Inc.			Equity	3,733	269,037	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	McKesson Corporation			Equity	23,694	11,729,909	0.514%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dollar Tree, Inc.			Equity	11,159	784,701	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Quest 2, Inc.			Equity	12,696	255,570	0.011%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hawaiian Electric Industries, Inc.			Equity	36,861	566,814	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Danaher Corporation			Equity	15,677	4,362,752	0.191%
JNLURAF10 Multi-Factor U.S. Equity Fund	Graco Inc.			Equity	8,829	772,626	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Curis-Wright Corporation			Equity	5,817	1,913,211	0.084%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sketchers U.S.A., Inc.			Equity	6,516	639,051	0.028%
JNLURAF10 Multi-Factor U.S. Equity Fund	Encore Capital Group, Inc.			Equity	3,812	180,193	0.008%
JNLURAF10 Multi-Factor U.S. Equity Fund	HEICO Corporation			Equity	4,704	1,230,002	0.054%
JNLURAF10 Multi-Factor U.S. Equity Fund	Commerce Bancshares, Inc.			Equity	6,013	357,172	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Harley-Davidson, Inc.			Equity	13,424	1,012,227	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	Franklin Electric Co., Inc.			Equity	2,359	247,270	0.011%
JNLURAF10 Multi-Factor U.S. Equity Fund	Illinois Tool Works Inc.			Equity	10,222	2,694,213	0.118%
JNLURAF10 Multi-Factor U.S. Equity Fund	Eagle Materials Inc.			Equity	5,323	1,532,492	0.067%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hub Group, Inc.			Equity	14,001	1,326,245	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Genex Corporation			Equity	44,848	1,331,537	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Donaldson Company, Inc.			Equity	11,302	832,957	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	eBay Inc.			Equity	150,007	9,766,956	0.428%
JNLURAF10 Multi-Factor U.S. Equity Fund	WESCO International, Inc.			Equity	9,143	536,841	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Arthur J. Gallagher & Co.			Equity	9,648	2,714,658	0.119%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nelnet, Inc.			Equity	2,232	252,841	0.011%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Andersons, Inc.			Equity	5,851	293,369	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Omniscion Group Inc.			Equity	15,442	1,510,142	0.071%
JNLURAF10 Multi-Factor U.S. Equity Fund	W.W. Grainger, Inc.			Equity	4,111	4,270,548	0.187%
JNLURAF10 Multi-Factor U.S. Equity Fund	Franklin Resources, Inc.			Equity	44,791	916,424	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ecolab Inc.			Equity	5,994	1,534,164	0.067%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ultron Group			Equity	33,272	1,917,698	0.081%
JNLURAF10 Multi-Factor U.S. Equity Fund	Carpenter Technology Corporation			Equity	13,794	2,201,247	0.096%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cal-Maine Foods, Inc.			Equity	18,116	1,355,801	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fiserv, Inc.			Equity	13,655	2,453,121	0.108%
JNLURAF10 Multi-Factor U.S. Equity Fund	NexEra Energy, Inc.			Equity	48,790	4,124,219	0.181%
JNLURAF10 Multi-Factor U.S. Equity Fund	Granite Construction Incorporated			Equity	14,594	1,158,910	0.051%
JNLURAF10 Multi-Factor U.S. Equity Fund	Chemced Corporation			Equity	2,278	1,369,010	0.060%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Hershey Company			Equity	7,873	1,509,884	0.066%
JNLURAF10 Multi-Factor U.S. Equity Fund	Exxon Mobil Corporation			Equity	186,564	21,869,032	0.958%
JNLURAF10 Multi-Factor U.S. Equity Fund	First Citizens Bancshares, Inc.			Equity	478	478,974	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Innospec, Inc.			Equity	2,294	259,428	0.011%
JNLURAF10 Multi-Factor U.S. Equity Fund	Haemonetics Corporation			Equity	4,152	333,738	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Electronic Arts Inc.			Equity	23,156	3,321,497	0.146%
JNLURAF10 Multi-Factor U.S. Equity Fund	Winn-Dixie Stores, Inc.			Equity	3,008	1,296,458	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Radian Group Inc.			Equity	6,419	222,675	0.010%
JNLURAF10 Multi-Factor U.S. Equity Fund	Helmerich & Payne, Inc.			Equity	15,359	467,221	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cardinal Health, Inc.			Equity	58,093	6,420,438	0.281%
JNLURAF10 Multi-Factor U.S. Equity Fund	CSX Corporation			Equity	89,647	3,960,981	0.174%
JNLURAF10 Multi-Factor U.S. Equity Fund	Republic Services, Inc.			Equity	12,827	2,576,175	0.113%
JNLURAF10 Multi-Factor U.S. Equity Fund	Coca-Cola Consolidated, Inc.			Equity	519	683,212	0.030%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gree, Inc.			Equity	5,384	340,269	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	MKS Instruments, Inc.			Equity	3,262	354,612	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Consagra Brands, Inc.			Equity	40,147	1,305,580	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Colgate-Palmolive Company			Equity	78,193	8,117,215	0.356%
JNLURAF10 Multi-Factor U.S. Equity Fund	Jabil Inc.			Equity	12,108	1,450,902	0.064%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gartner, Inc.			Equity	5,899	2,989,377	0.131%
JNLURAF10 Multi-Factor U.S. Equity Fund	ETE Energy Company			Equity	4,123	529,434	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Coca-Cola Company, The			Equity	330,066	23,840,350	1.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Revvity, Inc.			Equity	2,564	327,551	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Huntington Bancshares Incorporated			Equity	36,272	538,821	0.024%
JNLURAF10 Multi-Factor U.S. Equity Fund	CSC Systems International, Inc.			Equity	4,896	298,190	0.010%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dover Corporation			Equity	3,070	588,642	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	United Therapeutics Corporation			Equity	10,932	3,917,482	0.172%
JNLURAF10 Multi-Factor U.S. Equity Fund	Emerson Electric Co.			Equity	18,343	2,006,174	0.088%
JNLURAF10 Multi-Factor U.S. Equity Fund	Carlisle Companies Incorporated			Equity	1,077	484,381	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gap, Inc., The			Equity	94,272	2,078,698	0.091%
JNLURAF10 Multi-Factor U.S. Equity Fund	J.B. Hunt Transport Services, Inc.			Equity	3,006	518,024	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Jack Henry & Associates, Inc.			Equity	11,932	2,106,475	0.092%
JNLURAF10 Multi-Factor U.S. Equity Fund	Jack in the Box Inc.			Equity	8,784	408,807	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	FS, Inc.			Equity	7,653	1,685,191	0.074%
JNLURAF10 Multi-Factor U.S. Equity Fund	International Paper Company			Equity	64,005	3,126,644	0.137%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cabot Corporation			Equity	8,562	956,975	0.042%
JNLURAF10 Multi-Factor U.S. Equity Fund	Comerica Incorporated			Equity	20,646	1,346,947	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cincinnati Financial Corporation			Equity	3,897	533,616	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cintas Corporation			Equity	18,164	3,739,604	0.164%
JNLURAF10 Multi-Factor U.S. Equity Fund	Corning Incorporated			Equity	137,155	6,192,548	0.271%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dycem Industries, Inc.			Equity	2,419	176,785	0.008%
JNLURAF10 Multi-Factor U.S. Equity Fund	Macy's, Inc.			Equity	70,084	1,110,154	0.049%
JNLURAF10 Multi-Factor U.S. Equity Fund	Citigroup, Inc.			Equity	419,368	26,252,437	1.150%
JNLURAF10 Multi-Factor U.S. Equity Fund	Henry Schein, Inc.			Equity	10,641	775,729	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Morgan Stanley			Equity	29,103	3,033,697	0.133%
JNLURAF10 Multi-Factor U.S. Equity Fund	Bank of America Corporation			Equity	158,705	6,297,414	0.276%
JNLURAF10 Multi-Factor U.S. Equity Fund	Roper Technologies, Inc.			Equity	2,516	1,400,003	0.061%
JNLURAF10 Multi-Factor U.S. Equity Fund	Carnival Corporation			Equity	50,986	942,221	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	TTM Technologies, Inc.			Equity	24,032	438,584	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	PPM International Inc.			Equity	21,552	2,607,192	0.114%
JNLURAF10 Multi-Factor U.S. Equity Fund	Range Resources Corporation			Equity	20,523	631,287	0.028%
JNLURAF10 Multi-Factor U.S. Equity Fund	Neurocrine Biosciences, Inc.			Equity	8,032	925,447	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	Packaging Corporation of America			Equity	7,566	1,637,648	0.072%
JNLURAF10 Multi-Factor U.S. Equity Fund	BlackRock, Inc.			Equity	3,241	3,077,362	0.135%
JNLURAF10 Multi-Factor U.S. Equity Fund	NiSource Inc.			Equity	10,583	366,701	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Masco Corporation			Equity	19,595	1,644,804	0.072%
JNLURAF10 Multi-Factor U.S. Equity Fund	Leggett & Platt, Incorporated			Equity	23,378	319,577	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	AutoNation, Inc.			Equity	11,322	1,205,132	0.053%
JNLURAF10 Multi-Factor U.S. Equity Fund	MetLife, Inc.			Equity	102,517	8,455,602	0.371%
JNLURAF10 Multi-Factor U.S. Equity Fund	Paychex, Inc.			Equity	8,639	1,159,267	0.051%
JNLURAF10 Multi-Factor U.S. Equity Fund	Pool Corporation			Equity	4,449	1,676,383	0.073%
JNLURAF10 Multi-Factor U.S. Equity Fund	Olin Corporation			Equity	29,912	1,435,178	0.063%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLURAF10 Multi-Factor U.S. Equity Fund	RLI Corp.			Equity	2,447	379,236	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nucor Corporation			Equity	15,717	2,371,381	0.104%
JNLURAF10 Multi-Factor U.S. Equity Fund	U.S. Bancorp			Equity	36,206	1,673,903	0.073%
JNLURAF10 Multi-Factor U.S. Equity Fund	Bruker Corporation			Equity	6,152	424,857	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Royal Caribbean Cruises Ltd.			Equity	10,033	1,783,458	0.078%
JNLURAF10 Multi-Factor U.S. Equity Fund	Danman Products, Inc.			Equity	4,616	522,162	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cosco Wholesale Corporation			Equity	27,460	24,343,639	1.067%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lithia Motors, Inc.			Equity	2,049	650,844	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	La-Z-Boy Incorporated			Equity	14,295	613,684	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	T. Rowe Price Group, Inc.			Equity	20,732	2,258,337	0.099%
JNLURAF10 Multi-Factor U.S. Equity Fund	Travelers Companies, Inc., The			Equity	27,577	6,456,327	0.283%
JNLURAF10 Multi-Factor U.S. Equity Fund	Schlumberger Limited			Equity	20,226	860,507	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	Incyte Corporation			Equity	7,215	476,912	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Johnson & Johnson			Equity	166,891	27,046,355	1.185%
JNLURAF10 Multi-Factor U.S. Equity Fund	Reliance, Inc.			Equity	6,824	1,973,689	0.086%
JNLURAF10 Multi-Factor U.S. Equity Fund	Royal Gold, Inc.			Equity	3,722	522,197	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	TXNM Energy, Inc.			Equity	12,204	534,169	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kohl's Corporation			Equity	62,395	1,316,535	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	McCormick & Company, Incorporated			Equity	16,594	1,365,686	0.060%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lam Research Corporation			Equity	5,581	4,575,029	0.200%
JNLURAF10 Multi-Factor U.S. Equity Fund	Landstar System, Inc.			Equity	9,592	1,811,641	0.079%
JNLURAF10 Multi-Factor U.S. Equity Fund	KLA Corporation			Equity	7,365	5,703,530	0.250%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lancaster Colony Corporation			Equity	3,386	597,366	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lockheed Martin Corporation			Equity	32,411	18,946,174	0.830%
JNLURAF10 Multi-Factor U.S. Equity Fund	KeyCorp			Equity	23,309	390,426	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	NetApp, Inc.			Equity	19,765	2,441,175	0.107%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lennar Corporation			Equity	6,170	1,156,752	0.051%
JNLURAF10 Multi-Factor U.S. Equity Fund	PulteGroup, Inc.			Equity	26,392	3,792,933	0.166%
JNLURAF10 Multi-Factor U.S. Equity Fund	Exelon Corporation			Equity	69,331	2,811,372	0.123%
JNLURAF10 Multi-Factor U.S. Equity Fund	Plexus Corp.			Equity	4,384	599,337	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	ManpowerGroup Inc.			Equity	13,418	986,493	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	Oshkosh Corporation			Equity	6,152	620,500	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	Owens & Minor, Inc.			Equity	32,526	510,333	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	Merck & Co., Inc.			Equity	184,858	21,153,976	0.927%
JNLURAF10 Multi-Factor U.S. Equity Fund	Exelixis, Inc.			Equity	36,534	548,057	0.024%
JNLURAF10 Multi-Factor U.S. Equity Fund	ATI Inc.			Equity	19,693	1,050,017	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	Pinnacle Financial Partners, Inc.			Equity	3,651	357,688	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	SM Energy Company			Equity	14,044	561,339	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	CVS Health Corporation			Equity	318,940	20,054,947	0.879%
JNLURAF10 Multi-Factor U.S. Equity Fund	CMCQR Group, Inc.			Equity	2,082	698,363	0.030%
JNLURAF10 Multi-Factor U.S. Equity Fund	McDonald's Corporation			Equity	40,737	12,404,824	0.544%
JNLURAF10 Multi-Factor U.S. Equity Fund	Public Service Enterprise Group Incorporated			Equity	11,842	1,056,425	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	Bread Financial Payments, Inc.			Equity	25,711	1,223,329	0.054%
JNLURAF10 Multi-Factor U.S. Equity Fund	Oracle Corporation			Equity	189,218	31,561,147	1.383%
JNLURAF10 Multi-Factor U.S. Equity Fund	Mercury General Corporation			Equity	6,632	417,683	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Loews Corporation			Equity	21,174	1,673,805	0.073%
JNLURAF10 Multi-Factor U.S. Equity Fund	MGIC Investment Corporation			Equity	24,386	624,282	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	United Parcel Service, Inc.			Equity	43,424	5,930,438	0.259%
JNLURAF10 Multi-Factor U.S. Equity Fund	The New York Times Company			Equity	18,417	1,025,274	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Agilent Technologies, Inc.			Equity	7,055	1,047,526	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	Qualcomm Incorporated			Equity	103,487	17,597,964	0.771%
JNLURAF10 Multi-Factor U.S. Equity Fund	Marsh & McLennan Companies, Inc.			Equity	19,872	4,453,242	0.194%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kellanova			Equity	38,542	3,110,725	0.136%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hartford Financial Services Group, Inc., The			Equity	6,724	794,243	0.035%
JNLURAF10 Multi-Factor U.S. Equity Fund	The PNC Financial Services Group, Inc.			Equity	9,511	1,758,108	0.077%
JNLURAF10 Multi-Factor U.S. Equity Fund	Powers Foods, Inc.			Equity	34,090	786,456	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	PepsiCo, Inc.			Equity	100,699	17,123,885	0.750%
JNLURAF10 Multi-Factor U.S. Equity Fund	Mohawk Industries, Inc.			Equity	4,108	660,073	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	Quest Diagnostics Incorporated			Equity	12,776	1,983,474	0.087%
JNLURAF10 Multi-Factor U.S. Equity Fund	CNO Financial Group, Inc.			Equity	24,262	851,596	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	Buay Corporation			Equity	7,683	1,069,633	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fidelity National Information Services, Inc.			Equity	12,630	1,057,763	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	Murphy Oil Corporation			Equity	21,044	710,025	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Newmont Corporation			Equity	76,681	4,098,599	0.180%
JNLURAF10 Multi-Factor U.S. Equity Fund	Altria Group, Inc.			Equity	302,460	15,719,057	0.689%
JNLURAF10 Multi-Factor U.S. Equity Fund	B3's Wholesale Club Holdings, Inc.			Equity	11,569	954,211	0.042%
JNLURAF10 Multi-Factor U.S. Equity Fund	National Fuel Gas Company			Equity	15,243	931,728	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ryder System, Inc.			Equity	9,432	1,375,186	0.060%
JNLURAF10 Multi-Factor U.S. Equity Fund	Parker Hannifin Corporation			Equity	3,046	1,024,524	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	Patterson-UTI Energy, Inc.			Equity	30,028	229,714	0.010%
JNLURAF10 Multi-Factor U.S. Equity Fund	MOOG Inc.			Equity	5,475	1,106,060	0.048%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kroger Co., The			Equity	146,876	8,415,995	0.369%
JNLURAF10 Multi-Factor U.S. Equity Fund	ConocoPhillips			Equity	23,712	2,980,438	0.129%
JNLURAF10 Multi-Factor U.S. Equity Fund	Norfolk Southern Corporation			Equity	5,331	1,324,754	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Regeneron Pharmaceuticals, Inc.			Equity	9,848	10,262,612	0.454%
JNLURAF10 Multi-Factor U.S. Equity Fund	PPL Corporation			Equity	16,882	558,457	0.024%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nordson Corporation			Equity	2,768	1,192,212	0.052%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nordstrom, Inc.			Equity	39,483	887,973	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Martin Marietta Materials, Inc.			Equity	1,439	774,542	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Patterson Companies, Inc.			Equity	25,626	559,672	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	Seaboard Corporation			Equity	92	289,464	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kimberly-Clark Corporation			Equity	28,694	4,120,013	0.181%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dominion Energy, Inc.			Equity	19,733	1,140,370	0.050%
JNLURAF10 Multi-Factor U.S. Equity Fund	Reinsurance Group of America, Incorporated			Equity	7,941	1,730,106	0.076%
JNLURAF10 Multi-Factor U.S. Equity Fund	EL Lilly and Company			Equity	60,418	53,526,723	2.340%
JNLURAF10 Multi-Factor U.S. Equity Fund	Steven Madden, Ltd.			Equity	14,964	1,733,081	0.075%
JNLURAF10 Multi-Factor U.S. Equity Fund	Goldman Sachs Group, Inc., The			Equity	17,958	8,891,185	0.390%
JNLURAF10 Multi-Factor U.S. Equity Fund	Pfizer Inc.			Equity	444,797	12,872,425	0.564%
JNLURAF10 Multi-Factor U.S. Equity Fund	Procter & Gamble Company, The			Equity	128,416	22,241,651	0.975%
JNLURAF10 Multi-Factor U.S. Equity Fund	Charles Schwab Corporation, The			Equity	14,825	1,960,126	0.084%
JNLURAF10 Multi-Factor U.S. Equity Fund	NVR, Inc.			Equity	259	2,541,256	0.111%
JNLURAF10 Multi-Factor U.S. Equity Fund	MDU Resources Group, Inc.			Equity	36,780	1,012,921	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	Old Dominion Freight Line, Inc.			Equity	2,671	530,567	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Brown & Bosc, Inc.			Equity	23,584	1,043,202	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Micron Technology, Inc.			Equity	26,328	2,730,477	0.120%
JNLURAF10 Multi-Factor U.S. Equity Fund	Akamai Technologies, Inc.			Equity	8,667	874,934	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	MSC Industrial Direct Co., Inc.			Equity	15,894	1,367,838	0.060%
JNLURAF10 Multi-Factor U.S. Equity Fund	3M Company			Equity	100,365	13,719,396	0.613%
JNLURAF10 Multi-Factor U.S. Equity Fund	East West Bancorp, Inc.			Equity	6,229	515,387	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Old National Bancorp			Equity	16,801	313,507	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Louisiana-Pacific Corporation (W VA)			Equity	14,169	1,522,601	0.067%
JNLURAF10 Multi-Factor U.S. Equity Fund	Newell Brands Inc.			Equity	43,234	1,932,037	0.084%
JNLURAF10 Multi-Factor U.S. Equity Fund	Capital One Financial Corporation			Equity	61,504	9,208,994	0.404%
JNLURAF10 Multi-Factor U.S. Equity Fund	Northern Trust Corporation			Equity	4,859	441,100	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	KB Home			Equity	7,684	658,442	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Prosource Corporation			Equity	43,771	11,107,329	0.487%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lincoln National Corporation			Equity	31,606	966,905	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	NIKE, Inc.			Equity	19,181	1,702,697	0.075%
JNLURAF10 Multi-Factor U.S. Equity Fund	Meritage Homes Corporation			Equity	7,125	1,461,124	0.064%
JNLURAF10 Multi-Factor U.S. Equity Fund	Trinet Group, Inc.			Equity	2,974	288,389	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ares Management Corporation			Equity	10,601	1,652,060	0.072%
JNLURAF10 Multi-Factor U.S. Equity Fund	Low's Companies, Inc.			Equity	32,730	8,864,921	0.388%
JNLURAF10 Multi-Factor U.S. Equity Fund	Selective Insurance Group, Inc.			Equity	3,237	302,012	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Insight Enterprises, Inc.			Equity	6,062	1,305,694	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lincoln Electric Holdings, Inc.			Equity	4,858	936,282	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	Northrop Grumman Corporation			Equity	14,802	7,816,492	0.343%
JNLURAF10 Multi-Factor U.S. Equity Fund	Millerkroll, Inc.			Equity	15,927	397,339	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ford Motor Company			Equity	685,765	7,241,678	0.317%
JNLURAF10 Multi-Factor U.S. Equity Fund	PRG Industries, Inc.			Equity	9,314	1,233,732	0.054%
JNLURAF10 Multi-Factor U.S. Equity Fund	Mueller Industries, Inc.			Equity	24,205	1,793,591	0.079%
JNLURAF10 Multi-Factor U.S. Equity Fund	Wells Fargo & Company			Equity	502,920	28,409,951	1.245%
JNLURAF10 Multi-Factor U.S. Equity Fund	ResMed Inc.			Equity	16,336	3,987,944	0.175%
JNLURAF10 Multi-Factor U.S. Equity Fund	MHI Homes, Inc.			Equity	4,903	440,178	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Rollins, Inc.			Equity	31,751	1,605,966	0.070%
JNLURAF10 Multi-Factor U.S. Equity Fund	Align Technology, Inc.			Equity	1,254	318,917	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kirby Corporation			Equity	7,728	333,989	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Scots Miracle-Gro Company, The			Equity	11,264	976,589	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sitell Financial Corp.			Equity	4,740	445,086	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Texas Instruments Incorporated			Equity	36,530	7,546,002	0.331%
JNLURAF10 Multi-Factor U.S. Equity Fund	Winn-Dixie Stores, Inc.			Equity	6,675	387,884	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Advance Auto Parts, Inc.			Equity	8,688	1,038,472	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tractor Supply Company			Equity	9,139	2,658,808	0.117%
JNLURAF10 Multi-Factor U.S. Equity Fund	West Pharmaceutical Services, Inc.			Equity	2,333	700,273	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Stepan Company			Equity	3,831	295,945	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tetra Tech, Inc.			Equity	11,883	560,402	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vail Resorts, Inc.			Equity	9,249	914,848	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	Western Digital Corporation			Equity	49,265	3,364,307	0.147%
JNLURAF10 Multi-Factor U.S. Equity Fund	Marathon Oil Corporation			Equity	68,887	1,834,461	0.080%
JNLURAF10 Multi-Factor U.S. Equity Fund	Toll Brothers, Inc.			Equity	15,226	2,352,265	0.103%
JNLURAF10 Multi-Factor U.S. Equity Fund	Trinity Industries, Inc.			Equity	22,138	1,031,288	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vertex Pharmaceuticals Incorporated			Equity	8,504	3,955,040	0.173%
JNLURAF10 Multi-Factor U.S. Equity Fund	Avista Corporation			Equity	13,773	533,704	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nasdaq, Inc.			Equity	11,943	871,958	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	Urban Outfitters, Inc.			Equity	24,133	924,535	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	Zebra Technologies Corporation			Equity	2,302	852,477	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sonoco Products Company			Equity	22,344	1,220,653	0.053%
JNLURAF10 Multi-Factor U.S. Equity Fund	DaVita Inc.			Equity	22,911	3,755,800	0.165%
JNLURAF10 Multi-Factor U.S. Equity Fund	Principal Financial Group, Inc.			Equity	4,220	362,498	0.016%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLURAF10 Multi-Factor U.S. Equity Fund	Toro Company, The			Equity	16,895	1,471,386	0.064%
JNLURAF10 Multi-Factor U.S. Equity Fund	Prudential Financial, Inc.			Equity	44,203	5,265,093	0.236%
JNLURAF10 Multi-Factor U.S. Equity Fund	Southwest Gas Holdings, Inc.			Equity	6,112	450,821	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Union Pacific Corporation			Equity	47,705	11,758,328	0.515%
JNLURAF10 Multi-Factor U.S. Equity Fund	Thermo Fisher Scientific Inc.			Equity	8,991	5,561,563	0.244%
JNLURAF10 Multi-Factor U.S. Equity Fund	Walmart Inc.			Equity	466,894	37,701,691	1.652%
JNLURAF10 Multi-Factor U.S. Equity Fund	Chevron Corporation			Equity	122,113	17,983,585	0.788%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nexstar Media Group, Inc.			Equity	6,232	1,030,461	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tyler Technologies, Inc.			Equity	2,964	1,730,146	0.076%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Southern Company			Equity	25,552	2,304,279	0.101%
JNLURAF10 Multi-Factor U.S. Equity Fund	Actuity Automotive Group, Inc.			Equity	5,721	1,384,973	0.060%
JNLURAF10 Multi-Factor U.S. Equity Fund	A. O. Smith Corporation			Equity	25,822	2,319,590	0.102%
JNLURAF10 Multi-Factor U.S. Equity Fund	Westinghouse Air Brake Technologies Corporation			Equity	4,174	758,708	0.033%
JNLURAF10 Multi-Factor U.S. Equity Fund	Light & Wonder, Inc.			Equity	3,606	327,172	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cencora, Inc.			Equity	14,118	3,177,678	0.139%
JNLURAF10 Multi-Factor U.S. Equity Fund	Centene Corporation			Equity	12,483	939,720	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	UnitedHealth Group Incorporated			Equity	21,763	12,724,391	0.558%
JNLURAF10 Multi-Factor U.S. Equity Fund	Intuitive Surgical, Inc.			Equity	8,344	4,099,157	0.180%
JNLURAF10 Multi-Factor U.S. Equity Fund	AT&T Inc.			Equity	1,119,818	24,635,995	1.080%
JNLURAF10 Multi-Factor U.S. Equity Fund	JetBlue Airways Corporation			Equity	93,028	610,264	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Sherwin-Williams Company			Equity	10,589	4,041,504	0.177%
JNLURAF10 Multi-Factor U.S. Equity Fund	Zions Bancorporation, National Association			Equity	16,479	778,138	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Silgan Holdings Inc.			Equity	19,377	954,793	0.042%
JNLURAF10 Multi-Factor U.S. Equity Fund	WAFD, Inc.			Equity	11,311	394,188	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Stewart Information Services Corporation			Equity	5,853	437,453	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Acuity Brands, Inc.			Equity	5,651	1,556,229	0.068%
JNLURAF10 Multi-Factor U.S. Equity Fund	Penske Automotive Group			Equity	9,842	1,334,018	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Universal Health Services, Inc.			Equity	9,899	2,266,970	0.099%
JNLURAF10 Multi-Factor U.S. Equity Fund	Starbucks Corporation			Equity	25,701	2,505,590	0.110%
JNLURAF10 Multi-Factor U.S. Equity Fund	Watco, Inc.			Equity	8,095	3,981,769	0.174%
JNLURAF10 Multi-Factor U.S. Equity Fund	Stericycle, Inc.			Equity	14,285	871,285	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	Woodward, Inc.			Equity	2,789	478,343	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Edison International			Equity	8,994	783,287	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	The J.M. Smucker Company			Equity	9,937	1,203,371	0.053%
JNLURAF10 Multi-Factor U.S. Equity Fund	Waste Management, Inc.			Equity	24,338	5,052,569	0.221%
JNLURAF10 Multi-Factor U.S. Equity Fund	Food Locker, Inc.			Equity	54,534	1,609,198	0.070%
JNLURAF10 Multi-Factor U.S. Equity Fund	V.F. Corporation			Equity	39,958	797,162	0.035%
JNLURAF10 Multi-Factor U.S. Equity Fund	Universal Corporation			Equity	5,283	280,580	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Waters Corporation			Equity	3,601	1,295,964	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Teleflex Incorporated			Equity	16,670	907,604	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	Williams Companies, Inc., The			Equity	29,059	1,326,543	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Timken Company			Equity	10,030	845,429	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	Williams-Sonoma, Inc.			Equity	31,641	4,901,824	0.215%
JNLURAF10 Multi-Factor U.S. Equity Fund	Alliant Energy Corporation			Equity	5,899	1,945,197	0.085%
JNLURAF10 Multi-Factor U.S. Equity Fund	John Wiley & Sons, Inc.			Equity	9,549	460,739	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Steel Dynamics, Inc.			Equity	7,290	922,477	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	Webster Financial Corporation			Equity	7,279	339,274	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	UGI Corporation			Equity	11,706	992,884	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dick's Sporting Goods, Inc.			Equity	11,841	2,483,597	0.109%
JNLURAF10 Multi-Factor U.S. Equity Fund	Thor Industries, Inc.			Equity	15,358	1,687,691	0.074%
JNLURAF10 Multi-Factor U.S. Equity Fund	Whirlpool Corporation			Equity	10,995	1,175,395	0.052%
JNLURAF10 Multi-Factor U.S. Equity Fund	United States Steel Corporation			Equity	39,517	1,394,136	0.061%
JNLURAF10 Multi-Factor U.S. Equity Fund	Weiss Markets, Inc.			Equity	3,090	212,994	0.009%
JNLURAF10 Multi-Factor U.S. Equity Fund	Rush Enterprises, Inc.			Equity	13,594	718,171	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sysco Corporation			Equity	37,339	2,914,682	0.128%
JNLURAF10 Multi-Factor U.S. Equity Fund	CME Group Inc.			Equity	11,238	2,479,885	0.109%
JNLURAF10 Multi-Factor U.S. Equity Fund	Carter's, Inc.			Equity	24,220	1,573,815	0.069%
JNLURAF10 Multi-Factor U.S. Equity Fund	SkyWest, Inc.			Equity	12,200	1,037,244	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Southern Copper Corporation			Equity	2,964	342,846	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Werner Enterprises, Inc.			Equity	25,829	996,741	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lysen Foods, Inc.			Equity	61,709	3,675,389	0.161%
JNLURAF10 Multi-Factor U.S. Equity Fund	Teralyne, Inc.			Equity	8,067	1,080,413	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	Service Corporation International			Equity	21,049	1,661,398	0.073%
JNLURAF10 Multi-Factor U.S. Equity Fund	Visay Intertechnology, Inc.			Equity	34,683	655,856	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	SEI Investments Company			Equity	16,989	1,175,405	0.052%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sensient Technologies Corporation			Equity	5,486	440,087	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nexflix, Inc.			Equity	10,038	7,119,652	0.312%
JNLURAF10 Multi-Factor U.S. Equity Fund	TJX Companies, Inc., The			Equity	16,345	7,680,651	0.337%
JNLURAF10 Multi-Factor U.S. Equity Fund	Worthington Industries, Inc.			Equity	8,281	1,943,247	0.085%
JNLURAF10 Multi-Factor U.S. Equity Fund	Terex Corporation			Equity	19,061	1,008,518	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	Anylam Pharmaceuticals, Inc.			Equity	6,292	1,730,489	0.076%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dolby Laboratories, Inc.			Equity	6,782	519,026	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Regions Financial Corporation			Equity	20,791	485,064	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Texas Roadhouse, Inc.			Equity	6,028	1,064,545	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cohen & Steers, Inc.			Equity	3,006	288,426	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gemworth Financial, Inc.			Equity	98,440	674,314	0.030%
JNLURAF10 Multi-Factor U.S. Equity Fund	MarketAxess Holdings Inc.			Equity	1,317	593,615	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	NewMarket Corporation			Equity	1,085	601,831	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	Monolithic Power Systems, Inc.			Equity	2,163	2,002,397	0.088%
JNLURAF10 Multi-Factor U.S. Equity Fund	Domino's Pizza, Inc.			Equity	6,551	2,817,847	0.123%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ormat Technologies, Inc.			Equity	4,057	2,112,146	0.094%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ameriprise Financial, Inc.			Equity	4,280	2,950,407	0.129%
JNLURAF10 Multi-Factor U.S. Equity Fund	CommVault Systems, Inc.			Equity	6,302	969,563	0.042%
JNLURAF10 Multi-Factor U.S. Equity Fund	Belden Inc.			Equity	3,611	423,199	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Primoris Services Corporation			Equity	18,464	1,073,497	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	Huntman Corporation			Equity	9,048	518,892	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Western Alliance Bancorporation			Equity	5,140	444,559	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Morningstar, Inc.			Equity	2,407	768,122	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Treehouse Foods, Inc.			Equity	15,030	630,959	0.028%
JNLURAF10 Multi-Factor U.S. Equity Fund	MasterCard Incorporated			Equity	12,517	6,980,807	0.271%
JNLURAF10 Multi-Factor U.S. Equity Fund	Discover Financial Services			Equity	19,952	2,799,066	0.123%
JNLURAF10 Multi-Factor U.S. Equity Fund	Central Garden & Pet Company			Equity	9,983	313,466	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	RBC Bearings Incorporated			Equity	1,288	385,601	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Masimo Corporation			Equity	5,260	970,126	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	AECOM			Equity	8,000	826,160	0.036%
JNLURAF10 Multi-Factor U.S. Equity Fund	Owens Corning			Equity	4,374	772,098	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Western Union Company			Equity	124,295	1,482,720	0.065%
JNLURAF10 Multi-Factor U.S. Equity Fund	CVR Energy, Inc.			Equity	19,023	399,010	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dana Incorporated			Equity	35,939	379,516	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Chipotle Mexican Grill, Inc.			Equity	81,124	4,674,365	0.205%
JNLURAF10 Multi-Factor U.S. Equity Fund	Evercore Inc.			Equity	8,066	2,043,440	0.090%
JNLURAF10 Multi-Factor U.S. Equity Fund	Spirit AeroSystems Holdings, Inc.			Equity	9,655	1,313,884	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	EchoStar Corporation			Equity	15,043	373,367	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Crocs, Inc.			Equity	3,798	549,988	0.024%
JNLURAF10 Multi-Factor U.S. Equity Fund	Armstrong World Industries, Inc.			Equity	5,913	777,146	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	GameStop Corp.			Equity	16,972	339,188	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kaiser Aluminum Corporation			Equity	4,763	445,413	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Teradata Corporation			Equity	13,394	406,374	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Interactive Brokers Group, Inc.			Equity	6,414	893,855	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Citizens Corporation			Equity	8,050	1,094,478	0.048%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sally Beauty Holdings, Inc.			Equity	40,896	654,923	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	Super Micro Computer, Inc.			Equity	7,064	2,941,450	0.129%
JNLURAF10 Multi-Factor U.S. Equity Fund	Invesco Ltd.			Equity	72,663	1,275,962	0.056%
JNLURAF10 Multi-Factor U.S. Equity Fund	Molson Coors Beverage Company			Equity	38,892	2,237,068	0.098%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hanesbrands Inc.			Equity	182,466	1,341,125	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	MSCI Inc.			Equity	1,886	1,099,406	0.048%
JNLURAF10 Multi-Factor U.S. Equity Fund	Builders FirstSource, Inc.			Equity	6,868	1,331,430	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Broadridge Financial Solutions, Inc.			Equity	15,614	3,370,210	0.148%
JNLURAF10 Multi-Factor U.S. Equity Fund	Bank of New York Mellon Corporation, The			Equity	74,059	5,321,889	0.233%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ulta Beauty, Inc.			Equity	2,339	910,152	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	Genopac Limited			Equity	36,067	1,414,187	0.062%
JNLURAF10 Multi-Factor U.S. Equity Fund	TransDigm Group Incorporated			Equity	1,959	2,795,748	0.123%
JNLURAF10 Multi-Factor U.S. Equity Fund	HBR, Inc.			Equity	6,449	320,991	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	BankUnited, Inc.			Equity	23,098	841,691	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	Marathon Petroleum Corporation			Equity	78,259	12,749,174	0.559%
JNLURAF10 Multi-Factor U.S. Equity Fund	Post Holdings, Inc.			Equity	9,374	1,085,041	0.048%
JNLURAF10 Multi-Factor U.S. Equity Fund	Guidewire Software, Inc.			Equity	3,712	1,791,073	0.080%
JNLURAF10 Multi-Factor U.S. Equity Fund	Huntington Inalls Industries, Inc.			Equity	3,907	1,032,933	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	First American Financial Corporation			Equity	10,966	723,866	0.032%
JNLURAF10 Multi-Factor U.S. Equity Fund	Booz Allen Hamilton Holding Corporation			Equity	20,063	3,265,454	0.143%
JNLURAF10 Multi-Factor U.S. Equity Fund	Signet Jewelers Limited			Equity	6,464	372,877	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Accenture Public Limited Company			Equity	19,179	6,452,913	0.282%
JNLURAF10 Multi-Factor U.S. Equity Fund	O'Reilly Automotive, Inc.			Equity	3,733	4,298,923	0.188%
JNLURAF10 Multi-Factor U.S. Equity Fund	Select Medical Holdings Corporation			Equity	25,641	894,102	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	SS&C Technologies Holdings, Inc.			Equity	9,460	702,027	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Motorola Solutions, Inc.			Equity	6,148	3,671,869	0.161%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ingredion Incorporated			Equity	11,232	1,543,614	0.068%
JNLURAF10 Multi-Factor U.S. Equity Fund	LPL Financial Holdings Inc.			Equity	4,454	1,036,134	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fortinet, Inc.			Equity	17,247	1,337,505	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	XPO, Inc.			Equity	5,103	1,498,524	0.064%
JNLURAF10 Multi-Factor U.S. Equity Fund	Targa Resources Corp.			Equity	17,062	2,525,347	0.111%
JNLURAF10 Multi-Factor U.S. Equity Fund	HCA Healthcare, Inc.			Equity	15,778	6,412,653	0.281%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ralph Lauren Corporation			Equity	4,568	889,367	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Yelp, Inc.			Equity	18,314	1,642,455	0.072%
JNLURAF10 Multi-Factor U.S. Equity Fund	Bright Horizons Family Solutions, Inc.			Equity	6,291	881,558	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Telephone and Data Systems, Inc.			Equity	32,561	757,043	0.033%
JNLURAF10 Multi-Factor U.S. Equity Fund	Graphic Packaging Holding Company			Equity	68,254	2,055,589	0.090%
JNLURAF10 Multi-Factor U.S. Equity Fund	Allison Systems, Inc.			Equity	18,249	1,753,181	0.077%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLURAF10 Multi-Factor U.S. Equity Fund	The Wendy's Company			Equity	55,434	971,204	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	PVH Corp.			Equity	10,214	1,020,676	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	General Motors Company			Equity	300,167	13,459,488	0.590%
JNLURAF10 Multi-Factor U.S. Equity Fund	Phillips 66			Equity	68,319	8,980,533	0.394%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dollar General Corporation			Equity	23,863	2,018,094	0.088%
JNLURAF10 Multi-Factor U.S. Equity Fund	LyonelBesseff Industries N.V.			Equity	46,163	4,619,832	0.202%
JNLURAF10 Multi-Factor U.S. Equity Fund	Xylem Inc.			Equity	19,267	2,604,324	0.114%
JNLURAF10 Multi-Factor U.S. Equity Fund	United Airlines Holdings, Inc.			Equity	5,792	330,492	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Visteon Corporation			Equity	4,291	408,675	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ally Financial Inc.			Equity	63,489	2,259,574	0.099%
JNLURAF10 Multi-Factor U.S. Equity Fund	Grand Canyon Education, Inc.			Equity	5,626	1,989,048	0.035%
JNLURAF10 Multi-Factor U.S. Equity Fund	Pilgrim's Pride Corporation			Equity	7,064	325,297	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Visa Inc.			Equity	23,861	6,560,582	0.288%
JNLURAF10 Multi-Factor U.S. Equity Fund	Verisk Analytics, Inc.			Equity	13,002	3,484,016	0.153%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hyatt Hotels Corporation			Equity	1,766	268,735	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Mosaic Company, The			Equity	31,269	837,384	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	Generac Holdings Inc.			Equity	8,406	1,335,545	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	LEAR Corporation			Equity	8,459	923,300	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gilead Sciences, Inc.			Equity	10,125	774,343	0.032%
JNLURAF10 Multi-Factor U.S. Equity Fund	Chubb Limited			Equity	9,615	2,782,163	0.122%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kinder Morgan, Inc.			Equity	96,417	2,129,852	0.093%
JNLURAF10 Multi-Factor U.S. Equity Fund	PBF Energy Inc.			Equity	41,147	1,273,500	0.056%
JNLURAF10 Multi-Factor U.S. Equity Fund	Zurich American Corporation			Equity	7,754	474,333	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Philip Morris International Inc.			Equity	133,298	16,362,330	0.717%
JNLURAF10 Multi-Factor U.S. Equity Fund	Acushnet Holdings Corp.			Equity	5,468	348,585	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Berry Global Group, Inc.			Equity	19,233	1,307,459	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Metis Platforms, Inc.			Equity	79,910	45,171,240	1.960%
JNLURAF10 Multi-Factor U.S. Equity Fund	Duke Energy Corporation			Equity	18,477	2,130,398	0.093%
JNLURAF10 Multi-Factor U.S. Equity Fund	Liberty Latin America Ltd.			Equity	44,112	418,623	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Valvoline Inc.			Equity	10,534	440,848	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Genesee&Co., Inc.			Equity	7,742	6,824,367	0.302%
JNLURAF10 Multi-Factor U.S. Equity Fund	Diamondback Energy, Inc.			Equity	4,209	125,635	0.005%
JNLURAF10 Multi-Factor U.S. Equity Fund	COWI Corp.			Equity	3,245	734,344	0.032%
JNLURAF10 Multi-Factor U.S. Equity Fund	Willis Towers Watson Public Limited Company			Equity	7,582	2,239,799	0.098%
JNLURAF10 Multi-Factor U.S. Equity Fund	Zoetis Inc.			Equity	7,626	1,489,968	0.065%
JNLURAF10 Multi-Factor U.S. Equity Fund	US Foods Holding Corp.			Equity	31,223	1,900,231	0.082%
JNLURAF10 Multi-Factor U.S. Equity Fund	Taylor Morrison Home II Corporation			Equity	27,144	1,907,137	0.084%
JNLURAF10 Multi-Factor U.S. Equity Fund	News Corporation			Equity	45,338	1,211,564	0.053%
JNLURAF10 Multi-Factor U.S. Equity Fund	Adient Public Limited Company			Equity	32,981	744,381	0.033%
JNLURAF10 Multi-Factor U.S. Equity Fund	Murphy USA Inc.			Equity	6,391	3,149,932	0.138%
JNLURAF10 Multi-Factor U.S. Equity Fund	KKR & Co. Inc.			Equity	16,031	2,093,328	0.092%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tenet Healthcare Corporation			Equity	38,607	6,416,483	0.281%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sprouts Farmers Market, Inc.			Equity	39,919	4,407,457	0.193%
JNLURAF10 Multi-Factor U.S. Equity Fund	Artisan Partners Asset Management Inc.			Equity	10,097	1,037,461	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	GoDaddy Inc.			Equity	14,012	2,196,801	0.096%
JNLURAF10 Multi-Factor U.S. Equity Fund	PTC Inc.			Equity	5,313	959,847	0.042%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hubbell Incorporated			Equity	1,413	605,259	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	T-Mobile US, Inc.			Equity	39,309	2,396,159	0.104%
JNLURAF10 Multi-Factor U.S. Equity Fund	Mondelez International, Inc.			Equity	69,884	5,181,200	0.227%
JNLURAF10 Multi-Factor U.S. Equity Fund	AbbVie Inc.			Equity	161,479	31,888,873	1.397%
JNLURAF10 Multi-Factor U.S. Equity Fund	TRI Pointe Homes Holdings, Inc.			Equity	31,326	1,419,381	0.062%
JNLURAF10 Multi-Factor U.S. Equity Fund	Savanna Corporation			Equity	11,708	1,601,413	0.069%
JNLURAF10 Multi-Factor U.S. Equity Fund	Boise Cascade Company			Equity	10,507	1,481,277	0.065%
JNLURAF10 Multi-Factor U.S. Equity Fund	Palo Alto Networks, Inc.			Equity	14,688	5,020,358	0.220%
JNLURAF10 Multi-Factor U.S. Equity Fund	Matson Intermodal - Paragon, Inc.			Equity	6,301	898,649	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lamb Weston Holdings, Inc.			Equity	8,580	556,469	0.024%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tapestry, Inc.			Equity	4,407	441,941	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Baker Hughes Company			Equity	94,949	3,432,406	0.150%
JNLURAF10 Multi-Factor U.S. Equity Fund	Former Charter Communications Parent, Inc.			Equity	19,663	6,372,385	0.279%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fidelity National Financial, Inc.			Equity	42,680	862,501	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	Realtyone Energy Corporation			Equity	42,699	1,394,231	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Cigna Group			Equity	6,683	2,315,259	0.101%
JNLURAF10 Multi-Factor U.S. Equity Fund	Premier Healthcare Solutions, Inc.			Equity	32,997	659,940	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	TechnipFMC PLC			Equity	39,479	1,035,534	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vistra Corp.			Equity	67,389	7,988,922	0.350%
JNLURAF10 Multi-Factor U.S. Equity Fund	Essent Group Ltd.			Equity	5,240	336,880	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Evergy, Inc.			Equity	10,633	659,352	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	Science Applications International Corporation			Equity	3,660	509,728	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	CNA Resources Corporation			Equity	40,969	1,334,363	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Southstate Corporation			Equity	3,179	308,935	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Knight-Swift Transportation Holdings Inc.			Equity	8,185	441,581	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Warrior Met Coal, Inc.			Equity	23,718	1,515,580	0.066%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cleveland Cliffs Inc.			Equity	21,107	2,698,158	0.112%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ovonc, Inc.			Equity	3,136	323,949	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Pentair Public Limited Company			Equity	4,922	481,322	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Aramark			Equity	12,271	475,256	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	Brighthouse Financial, Inc.			Equity	14,928	1,072,208	0.047%
JNLURAF10 Multi-Factor U.S. Equity Fund	Navigant Corporation			Equity	23,439	365,414	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Burlington Stores, Inc.			Equity	2,938	774,104	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	Delek US Holdings, Inc.			Equity	28,477	533,944	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Broadcom Inc.			Equity	176,684	30,477,990	1.338%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lendore Holdings, Inc.			Equity	13,968	2,276,784	0.100%
JNLURAF10 Multi-Factor U.S. Equity Fund	DNOW Inc.			Equity	27,609	356,984	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Booking Holdings Inc.			Equity	1,993	8,394,755	0.368%
JNLURAF10 Multi-Factor U.S. Equity Fund	Moltes & Company			Equity	11,771	806,431	0.035%
JNLURAF10 Multi-Factor U.S. Equity Fund	Mine Safety Appliances Company, LLC			Equity	1,934	1,242,976	0.054%
JNLURAF10 Multi-Factor U.S. Equity Fund	Graham Holdings Co., Ltd.			Equity	518	425,651	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Synovus Financial Corp.			Equity	5,925	265,736	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ameri Resources Corporation			Equity	34,074	676,220	0.030%
JNLURAF10 Multi-Factor U.S. Equity Fund	Intercontinental Exchange, Inc.			Equity	39,147	5,946,014	0.257%
JNLURAF10 Multi-Factor U.S. Equity Fund	ITT Inc.			Equity	9,854	1,473,272	0.065%
JNLURAF10 Multi-Factor U.S. Equity Fund	Wyndham Hotels & Resorts, Inc.			Equity	7,903	617,540	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	Jefferies Financial Group Inc.			Equity	15,152	932,605	0.041%
JNLURAF10 Multi-Factor U.S. Equity Fund	Knoves Corporation			Equity	18,572	1,334,363	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Arista Networks, Inc.			Equity	5,825	2,235,752	0.098%
JNLURAF10 Multi-Factor U.S. Equity Fund	S&P Global Inc.			Equity	9,800	5,062,876	0.222%
JNLURAF10 Multi-Factor U.S. Equity Fund	Janus Henderson Group PLC			Equity	22,942	873,402	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	Equity Residential			Equity	9,505	639,023	0.028%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hope Bancorp, Inc.			Equity	21,151	265,657	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Archrock, Inc.			Equity	40,640	822,554	0.036%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kraft Heinz Company, The			Equity	104,000	3,651,440	0.160%
JNLURAF10 Multi-Factor U.S. Equity Fund	Elevance Health, Inc.			Equity	9,072	471,440	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Citizens Financial Group, Inc.			Equity	24,837	1,020,056	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Independence Holdings, LLC			Equity	21,085	992,471	0.043%
JNLURAF10 Multi-Factor U.S. Equity Fund	TEGNA Inc.			Equity	57,233	910,845	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	International Game Technology PLC			Equity	16,665	354,965	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sunstone Hotel Investors, Inc.			Equity	30,803	320,658	0.014%
JNLURAF10 Multi-Factor U.S. Equity Fund	Encompass Health Corporation			Equity	23,065	2,229,002	0.098%
JNLURAF10 Multi-Factor U.S. Equity Fund	JELD-WEN Holding, Inc.			Equity	25,238	399,013	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Pure Storage, Inc.			Equity	13,997	703,209	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Iron Mountain Incorporated			Equity	22,634	2,705,782	0.119%
JNLURAF10 Multi-Factor U.S. Equity Fund	Uniti Group Inc.			Equity	92,047	519,145	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Walgreens Boots Alliance, Inc.			Equity	394,298	3,532,910	0.155%
JNLURAF10 Multi-Factor U.S. Equity Fund	Apollo Commercial Real Estate Finance, Inc.			Equity	26,790	252,898	0.011%
JNLURAF10 Multi-Factor U.S. Equity Fund	Virtu Financial, Inc.			Equity	39,208	1,194,276	0.052%
JNLURAF10 Multi-Factor U.S. Equity Fund	Eversource Energy			Equity	8,321	566,244	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	Avalla Coating Systems Ltd.			Equity	10,498	379,823	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Caesars, Inc.			Equity	8,141	493,100	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	Spirio Inc.			Equity	9,467	300,384	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vista Outdoor Inc.			Equity	13,616	533,475	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Synchrony Financial			Equity	121,987	6,084,712	0.267%
JNLURAF10 Multi-Factor U.S. Equity Fund	Block, Inc.			Equity	13,046	875,778	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hewlett Packard Enterprise Company			Equity	263,251	5,213,513	0.228%
JNLURAF10 Multi-Factor U.S. Equity Fund	GMS Inc.			Equity	5,487	587,528	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	Detshiply Sirona Inc.			Equity	25,873	704,263	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Adelphi Global Education Inc.			Equity	13,985	1,055,588	0.046%
JNLURAF10 Multi-Factor U.S. Equity Fund	The ChemoCentry Company			Equity	19,364	1,012,440	0.044%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dell Technologies Inc.			Equity	4,297	509,366	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	Monster Beverage 1990 Corporation			Equity	32,434	1,692,082	0.074%
JNLURAF10 Multi-Factor U.S. Equity Fund	Apple Hospitality REIT, Inc.			Equity	41,421	618,416	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	Liberty Broadband Corporation			Equity	6,162	630,841	0.028%
JNLURAF10 Multi-Factor U.S. Equity Fund	OXC Technology Company			Equity	29,598	614,158	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	HP, Inc.			Equity	217,570	7,863,287	0.345%
JNLURAF10 Multi-Factor U.S. Equity Fund	PayPal Holdings, Inc.			Equity	24,245	1,891,837	0.083%
JNLURAF10 Multi-Factor U.S. Equity Fund	Johnson Controls International Public Limited Company			Equity	15,667	1,221,713	0.054%
JNLURAF10 Multi-Factor U.S. Equity Fund	Advanced Drainage Systems, Inc.			Equity	9,691	894,384	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	AGNC Investment Corp.			Equity	84,816	897,353	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Alcoa Corporation			Equity	22,454	866,275	0.038%
JNLURAF10 Multi-Factor U.S. Equity Fund	Schneider National, Inc.			Equity	14,178	405,967	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tadpole Corp.			Equity	1,336	1,443,088	0.062%
JNLURAF10 Multi-Factor U.S. Equity Fund	Houlihan Lokey, Inc.			Equity	8,916	1,408,905	0.062%
JNLURAF10 Multi-Factor U.S. Equity Fund	Hilton Worldwide Holdings Inc.			Equity	5,775	1,331,138	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	Edgewell Personal Care Colombia S A S			Equity	12,800	466,796	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Laureate Education, Inc.			Equity	26,496	499,932	0.021%
JNLURAF10 Multi-Factor U.S. Equity Fund	PennyMac Mortgage Investment Trust			Equity	27,267	388,827	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Nomad Foods Limited			Equity	18,912	360,463	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Capit Holdings Limited			Equity	8,661	367,573	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Crown Castle Inc.			Equity	10,212	1,211,450	0.053%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLURAF10 Multi-Factor U.S. Equity Fund	American Homes 4 Rent			Equity	20,448	784,999	0.034%
JNLURAF10 Multi-Factor U.S. Equity Fund	BWXT Government Group, Inc.			Equity	18,701	2,032,799	0.089%
JNLURAF10 Multi-Factor U.S. Equity Fund	COPT Defense Properties			Equity	13,614	416,929	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	OUTFRONT Media Inc.			Equity	18,555	341,041	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gaming and Leisure Properties, Inc.			Equity	23,448	1,206,400	0.053%
JNLURAF10 Multi-Factor U.S. Equity Fund	Camden Property Trust			Equity	13,526	1,684,799	0.074%
JNLURAF10 Multi-Factor U.S. Equity Fund	Agree Realty Corporation			Equity	7,886	596,024	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	W.P. Carey Inc.			Equity	7,854	496,176	0.022%
JNLURAF10 Multi-Factor U.S. Equity Fund	Invitation Homes Inc.			Equity	22,591	802,884	0.035%
JNLURAF10 Multi-Factor U.S. Equity Fund	Cubesmart, L.P.			Equity	24,589	1,323,626	0.058%
JNLURAF10 Multi-Factor U.S. Equity Fund	AmeriCold Realty Trust, Inc.			Equity	25,531	727,378	0.032%
JNLURAF10 Multi-Factor U.S. Equity Fund	Laddler Capital Corp			Equity	20,982	248,217	0.011%
JNLURAF10 Multi-Factor U.S. Equity Fund	NNN REIT, Inc.			Equity	7,936	384,817	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Realty Income Corporation			Equity	20,438	1,296,178	0.057%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kimco Realty OP, LLC			Equity	15,073	549,965	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	DiamondRock AlphaBeta Tenant, LLC			Equity	50,787	444,894	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Public Storage Operating Company			Equity	5,527	2,011,109	0.088%
JNLURAF10 Multi-Factor U.S. Equity Fund	JBG Smith Properties			Equity	26,585	464,706	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Xenia Hotels & Resorts, Inc.			Equity	23,544	350,570	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	Equity Lifestyle Properties, Inc.			Equity	8,713	625,746	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	Sun Communities, Inc.			Equity	6,561	892,886	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vornado Realty Trust			Equity	39,833	1,569,420	0.069%
JNLURAF10 Multi-Factor U.S. Equity Fund	Simon Property Group, Inc.			Equity	20,860	3,525,757	0.155%
JNLURAF10 Multi-Factor U.S. Equity Fund	Essex Property Trust, Inc.			Equity	2,850	848,930	0.037%
JNLURAF10 Multi-Factor U.S. Equity Fund	American Tower Corporation			Equity	11,051	2,570,021	0.113%
JNLURAF10 Multi-Factor U.S. Equity Fund	Rayonier Inc.			Equity	15,958	531,528	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Omega Healthcare Investors, Inc.			Equity	11,454	174,318	0.008%
JNLURAF10 Multi-Factor U.S. Equity Fund	Host Hotels & Resorts, Inc.			Equity	16,970	302,066	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	CBRE Group, Inc.			Equity	7,058	878,580	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	AvalonBay Communities, Inc.			Equity	3,252	738,041	0.032%
JNLURAF10 Multi-Factor U.S. Equity Fund	Extra Space Storage Inc.			Equity	16,741	3,016,561	0.132%
JNLURAF10 Multi-Factor U.S. Equity Fund	Veritas, Inc.			Equity	9,728	623,857	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	Digital Realty Trust, Inc.			Equity	7,497	1,213,240	0.053%
JNLURAF10 Multi-Factor U.S. Equity Fund	Welltower Inc.			Equity	14,336	1,835,438	0.080%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Macerich Company			Equity	50,217	915,958	0.040%
JNLURAF10 Multi-Factor U.S. Equity Fund	LXP Industrial Trust			Equity	41,038	893,490	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	First Industrial Realty Trust, Inc.			Equity	6,516	367,177	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	UDR, Inc.			Equity	12,881	584,025	0.026%
JNLURAF10 Multi-Factor U.S. Equity Fund	BXP, Inc.			Equity	3,508	285,692	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Douglas Emmett, Inc.			Equity	30,015	453,678	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Alexander & Baldwin, Inc.			Equity	10,367	199,046	0.009%
JNLURAF10 Multi-Factor U.S. Equity Fund	GEO Group, Inc., The			Equity	63,663	818,070	0.036%
JNLURAF10 Multi-Factor U.S. Equity Fund	Park Hotels & Resorts Inc.			Equity	88,701	1,272,859	0.056%
JNLURAF10 Multi-Factor U.S. Equity Fund	RLJ BEM Columbus Lessee, LLC			Equity	49,496	463,496	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	RITHM Capital Corp.			Equity	77,917	884,358	0.039%
JNLURAF10 Multi-Factor U.S. Equity Fund	Lamar Advertising Company			Equity	11,264	1,504,870	0.066%
JNLURAF10 Multi-Factor U.S. Equity Fund	SBA Communications Corporation			Equity	1,715	412,801	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	CoxCox, Inc.			Equity	20,173	384,688	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Element Solutions Inc.			Equity	10,028	272,360	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Keurig Dr Pepper Inc.			Equity	49,370	1,861,743	0.082%
JNLURAF10 Multi-Factor U.S. Equity Fund	Fox Corporation			Equity	61,672	2,610,576	0.114%
JNLURAF10 Multi-Factor U.S. Equity Fund	Troxer Holdings PLC			Equity	19,660	197,660	0.009%
JNLURAF10 Multi-Factor U.S. Equity Fund	Steris Public Limited Company			Equity	6,102	1,479,979	0.065%
JNLURAF10 Multi-Factor U.S. Equity Fund	Dow Inc.			Equity	27,668	1,511,503	0.066%
JNLURAF10 Multi-Factor U.S. Equity Fund	Tradeweb Markets Inc.			Equity	8,820	1,090,769	0.048%
JNLURAF10 Multi-Factor U.S. Equity Fund	Uber Technologies, Inc.			Equity	46,129	3,617,376	0.159%
JNLURAF10 Multi-Factor U.S. Equity Fund	Spectrum Brands Holdings, Inc.			Equity	4,108	590,835	0.027%
JNLURAF10 Multi-Factor U.S. Equity Fund	Avantor, Inc.			Equity	30,770	796,020	0.035%
JNLURAF10 Multi-Factor U.S. Equity Fund	Kontor Brands, Inc.			Equity	13,334	1,090,455	0.048%
JNLURAF10 Multi-Factor U.S. Equity Fund	DuPont de Nemours, Inc.			Equity	54,309	4,839,475	0.212%
JNLURAF10 Multi-Factor U.S. Equity Fund	Corvea, Inc.			Equity	15,198	1,031,498	0.045%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ancor Pty Ltd			Equity	118,113	1,338,220	0.059%
JNLURAF10 Multi-Factor U.S. Equity Fund	L3Harris Technologies, Inc.			Equity	20,654	4,912,967	0.215%
JNLURAF10 Multi-Factor U.S. Equity Fund	Blackstone Inc.			Equity	16,138	2,471,212	0.108%
JNLURAF10 Multi-Factor U.S. Equity Fund	Xerox Holdings Corporation			Equity	40,045	425,678	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Service Properties Trust			Equity	39,659	180,845	0.008%
JNLURAF10 Multi-Factor U.S. Equity Fund	Gen Digital Inc.			Equity	78,834	2,162,417	0.095%
JNLURAF10 Multi-Factor U.S. Equity Fund	Parsons Corporation			Equity	6,906	716,014	0.031%
JNLURAF10 Multi-Factor U.S. Equity Fund	Paramount Global			Equity	40,454	431,327	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	Truist Financial Corporation			Equity	31,861	1,362,695	0.060%
JNLURAF10 Multi-Factor U.S. Equity Fund	Strategic Education, Inc.			Equity	4,444	411,292	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	O-I Glass, Inc.			Equity	50,469	662,153	0.029%
JNLURAF10 Multi-Factor U.S. Equity Fund	Equitable Holdings, Inc.			Equity	43,979	1,948,437	0.086%
JNLURAF10 Multi-Factor U.S. Equity Fund	Ingersoll Rand Inc.			Equity	18,392	1,905,359	0.079%
JNLURAF10 Multi-Factor U.S. Equity Fund	AON Public Limited Company			Equity	14,813	5,125,150	0.225%
JNLURAF10 Multi-Factor U.S. Equity Fund	Howmet Aerospace Inc.			Equity	34,548	3,463,437	0.152%
JNLURAF10 Multi-Factor U.S. Equity Fund	Carrier Global Corporation			Equity	17,447	1,404,309	0.062%
JNLURAF10 Multi-Factor U.S. Equity Fund	RTX Corporation			Equity	31,620	3,831,079	0.168%
JNLURAF10 Multi-Factor U.S. Equity Fund	Otis Worldwide Corporation			Equity	19,400	2,016,436	0.088%
JNLURAF10 Multi-Factor U.S. Equity Fund	UPF Industries, Inc.			Equity	9,396	1,232,849	0.054%
JNLURAF10 Multi-Factor U.S. Equity Fund	Arch Resources, Inc.			Equity	2,464	340,426	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Carlyle Group, Inc.			Equity	10,768	463,670	0.020%
JNLURAF10 Multi-Factor U.S. Equity Fund	Royalty Pharma PLC			Equity	18,645	527,467	0.023%
JNLURAF10 Multi-Factor U.S. Equity Fund	Albertsons Companies, Inc.			Equity	23,152	427,849	0.019%
JNLURAF10 Multi-Factor U.S. Equity Fund	The ODP Corporation			Equity	13,467	400,643	0.018%
JNLURAF10 Multi-Factor U.S. Equity Fund	Rocket Companies, Inc.			Equity	14,490	278,063	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	API Group Corporation			Equity	8,241	272,118	0.012%
JNLURAF10 Multi-Factor U.S. Equity Fund	Palantir Technologies Inc.			Equity	91,269	3,395,207	0.149%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vorlex Corporation			Equity	11,202	377,955	0.017%
JNLURAF10 Multi-Factor U.S. Equity Fund	Crane Company			Equity	2,339	370,217	0.016%
JNLURAF10 Multi-Factor U.S. Equity Fund	Vitamin Odoor Holdings, Inc.			Equity	6,322	316	0.000%
JNLURAF10 Multi-Factor U.S. Equity Fund	Phinia Inc.			Equity	12,437	572,475	0.025%
JNLURAF10 Multi-Factor U.S. Equity Fund	Veratilo Corporation			Equity	10,509	1,176,483	0.052%
JNLURAF10 Multi-Factor U.S. Equity Fund	Bunge Limited			Equity	19,811	1,914,535	0.084%
JNLURAF10 Multi-Factor U.S. Equity Fund	Liberty Global Ltd.			Equity	73,415	1,586,498	0.070%
JNLURAF10 Multi-Factor U.S. Equity Fund	The Cooper Companies, Inc.			Equity	12,776	1,409,704	0.062%
JNLURAF10 Multi-Factor U.S. Equity Fund	Corsey Inc.			Equity	921	288,052	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	Chimera Investment Corporation			Equity	20,562	333,104	0.015%
JNLURAF10 Multi-Factor U.S. Equity Fund	New York Community Bancorp, Inc.			Equity	26,531	297,943	0.013%
JNLURAF10 Multi-Factor U.S. Equity Fund	SITE Centers Corp.			Equity	6,709	405,895	0.018%
Total Non Derivatives						2,281,793,049	
Derivatives							
JNLURAF10 Multi-Factor U.S. Equity Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	34	66,437	0.003%
JNLURAF10 Multi-Factor U.S. Equity Fund	S&P Midcap 400 Index FUTURE - CASH SETTLED			Derivative	11	36,767	0.002%
Total Derivatives						103,204	
Total All Investments						2,281,896,253	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL S&P 500 Index Fund	Cash			Cash Equivalent	150.462	150.462	0.031%
JNL S&P 500 Index Fund	Mid-America Apartment Communities, Inc.			Equity	1,147	182.258	0.037%
JNL S&P 500 Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	2,596.319	2,601.492	0.535%
JNL S&P 500 Index Fund	Viatrix Inc.			Equity	11,245	130.557	0.027%
JNL S&P 500 Index Fund	Airbnb, Inc.			Equity	4,360	552.892	0.144%
JNL S&P 500 Index Fund	Apa Corp.			Equity	3,458	84.583	0.017%
JNL S&P 500 Index Fund	Seagate Technology Holdings Public Limited Company			Equity	1,962	216.271	0.044%
JNL S&P 500 Index Fund	General Electric Company			Equity	10,638	2,009.093	0.413%
JNL S&P 500 Index Fund	Federal Realty Investment Trust			Equity	693	79.674	0.016%
JNL S&P 500 Index Fund	Constellation Energy Group, Inc.			Equity	3,024	766.300	0.162%
JNL S&P 500 Index Fund	Warner Bros. Discovery, Inc.			Equity	22,565	186.160	0.038%
JNL S&P 500 Index Fund	Jacobs Solutions Inc.			Equity	1,215	159.044	0.033%
JNL S&P 500 Index Fund	GE HealthCare Technologies Inc.			Equity	4,221	396.141	0.081%
JNL S&P 500 Index Fund	Dayforce, Inc.			Equity	1,463	89.608	0.018%
JNL S&P 500 Index Fund	Yum! Brands, Inc.			Equity	2,773	387.416	0.080%
JNL S&P 500 Index Fund	United Rentals, Inc.			Equity	662	536.041	0.110%
JNL S&P 500 Index Fund	Verizon Communications Inc.			Equity	41,136	1,847.418	0.380%
JNL S&P 500 Index Fund	ONEOK, Inc.			Equity	5,739	522.905	0.108%
JNL S&P 500 Index Fund	Mettler-Toledo International Inc.			Equity	210	314.937	0.065%
JNL S&P 500 Index Fund	Valero Energy Corporation			Equity	3,182	429.665	0.088%
JNL S&P 500 Index Fund	FedEx Corporation			Equity	2,195	603.845	0.124%
JNL S&P 500 Index Fund	Ball Corporation			Equity	3,047	706.922	0.143%
JNL S&P 500 Index Fund	AFLAC Incorporated			Equity	4,921	550.168	0.113%
JNL S&P 500 Index Fund	Avery Dennison Corporation			Equity	815	179.919	0.037%
JNL S&P 500 Index Fund	Archer-Daniels-Midland Company			Equity	4,811	287.409	0.059%
JNL S&P 500 Index Fund	Comcast Corporation			Equity	37,901	1,583.125	0.325%
JNL S&P 500 Index Fund	International Business Machines Corporation			Equity	9,068	2,004.753	0.412%
JNL S&P 500 Index Fund	Pinnacle West Capital Corporation			Equity	1,053	93.285	0.019%
JNL S&P 500 Index Fund	Adobe Inc.			Equity	4,350	2,252.343	0.463%
JNL S&P 500 Index Fund	Ameren Corporation			Equity	2,695	235.705	0.048%
JNL S&P 500 Index Fund	W. R. Berkley Corporation			Equity	3,080	474.728	0.096%
JNL S&P 500 Index Fund	Analog Devices, Inc.			Equity	4,895	1,126.682	0.232%
JNL S&P 500 Index Fund	Albermarle Corporation			Equity	1,100	104.627	0.022%
JNL S&P 500 Index Fund	Baxter International Inc.			Equity	4,908	187.780	0.039%
JNL S&P 500 Index Fund	Boeing Company, The			Equity	5,606	899.766	0.178%
JNL S&P 500 Index Fund	VeriSign, Inc.			Equity	790	150.068	0.031%
JNL S&P 500 Index Fund	Berkshire Hathaway Inc.			Equity	17,932	8,253.382	1.697%
JNL S&P 500 Index Fund	Take-Two Interactive Software, Inc.			Equity	1,568	241.017	0.050%
JNL S&P 500 Index Fund	Autodesk, Inc.			Equity	2,125	641.620	0.132%
JNL S&P 500 Index Fund	The AES Corporation			Equity	7,159	143.610	0.030%
JNL S&P 500 Index Fund	Best Buy Co., Inc.			Equity	1,884	196.388	0.040%
JNL S&P 500 Index Fund	Bristol-Myers Squibb Company			Equity	20,101	1,040.026	0.214%
JNL S&P 500 Index Fund	Automatic Data Processing, Inc.			Equity	3,983	1,007.867	0.208%
JNL S&P 500 Index Fund	Advanced Micro Devices, Inc.			Equity	15,833	2,597.879	0.534%
JNL S&P 500 Index Fund	C.H. Robinson Worldwide, Inc.			Equity	1,092	121.201	0.025%
JNL S&P 500 Index Fund	American Electric Power Company, Inc.			Equity	5,234	537.008	0.110%
JNL S&P 500 Index Fund	AutoZone, Inc.			Equity	169	832.267	0.169%
JNL S&P 500 Index Fund	Quanta Services, Inc.			Equity	1,459	435.001	0.089%
JNL S&P 500 Index Fund	FirstEnergy Corp.			Equity	5,036	223.347	0.046%
JNL S&P 500 Index Fund	American Express Company			Equity	5,510	1,494.312	0.307%
JNL S&P 500 Index Fund	American International Group, Inc.			Equity	6,202	454.172	0.092%
JNL S&P 500 Index Fund	Homebrew International Inc.			Equity	6,428	1,328.732	0.273%
JNL S&P 500 Index Fund	ANSYS, Inc.			Equity	879	280.076	0.058%
JNL S&P 500 Index Fund	BorgWarner Inc.			Equity	2,251	81.689	0.017%
JNL S&P 500 Index Fund	Applied Materials, Inc.			Equity	6,102	1,637.009	0.337%
JNL S&P 500 Index Fund	Alstare Corporation, The			Equity	2,570	489.765	0.101%
JNL S&P 500 Index Fund	Boston Scientific Corporation			Equity	14,513	1,216.189	0.250%
JNL S&P 500 Index Fund	Sempra			Equity	6,201	522.434	0.107%
JNL S&P 500 Index Fund	Brown-Forman Corporation			Equity	1,661	82.083	0.017%
JNL S&P 500 Index Fund	Abbott Laboratories			Equity	17,014	1,599.766	0.328%
JNL S&P 500 Index Fund	Amgen Inc.			Equity	5,296	1,706.424	0.351%
JNL S&P 500 Index Fund	AMETEK, Inc.			Equity	2,272	390.125	0.080%
JNL S&P 500 Index Fund	Amazon.com, Inc.			Equity	91,547	17,057.953	3.508%
JNL S&P 500 Index Fund	Ar Products and Chemicals, Inc.			Equity	1,155	66.125	0.013%
JNL S&P 500 Index Fund	Hess Corporation			Equity	2,714	368.561	0.076%
JNL S&P 500 Index Fund	Amphenol Corporation			Equity	11,858	774.624	0.159%
JNL S&P 500 Index Fund	Becton, Dickinson and Company			Equity	7,821	680.143	0.140%
JNL S&P 500 Index Fund	Apple Inc.			Equity	149,170	34,756.610	7.147%
JNL S&P 500 Index Fund	Home Depot, Inc., The			Equity	9,729	3,942.191	0.811%
JNL S&P 500 Index Fund	IDEX Corporation			Equity	717	153.797	0.032%
JNL S&P 500 Index Fund	The Clorox Company			Equity	1,228	200.053	0.041%
JNL S&P 500 Index Fund	M&T Bank Corporation			Equity	1,685	330.123	0.068%
JNL S&P 500 Index Fund	Consolidated Edison, Inc.			Equity	3,368	350.710	0.072%
JNL S&P 500 Index Fund	Eastman Chemical Company			Equity	1,112	125.389	0.026%
JNL S&P 500 Index Fund	Hologic, Inc.			Equity	2,385	194.282	0.040%
JNL S&P 500 Index Fund	Cisco Systems, Inc.			Equity	99,527	2,103.627	0.432%
JNL S&P 500 Index Fund	Halliburton Company			Equity	8,963	260.375	0.054%
JNL S&P 500 Index Fund	IDEXX Laboratories, Inc.			Equity	789	398.619	0.082%
JNL S&P 500 Index Fund	Target Corporation			Equity	4,583	714.306	0.147%
JNL S&P 500 Index Fund	Copart, Inc.			Equity	8,573	449.725	0.092%
JNL S&P 500 Index Fund	Biogen Inc.			Equity	1,407	272.733	0.056%
JNL S&P 500 Index Fund	EOG Resources, Inc.			Equity	5,543	681.401	0.140%
JNL S&P 500 Index Fund	Entergy Corporation			Equity	2,100	276.381	0.057%
JNL S&P 500 Index Fund	FactSet Research Systems Inc.			Equity	375	172.444	0.035%
JNL S&P 500 Index Fund	CoStar Group, Inc.			Equity	3,960	298.742	0.061%
JNL S&P 500 Index Fund	The Interpublic Group of Companies, Inc.			Equity	3,598	113.805	0.023%
JNL S&P 500 Index Fund	Deere & Company			Equity	2,535	1,061.658	0.218%
JNL S&P 500 Index Fund	Marriott International, Inc.			Equity	2,293	570.040	0.117%
JNL S&P 500 Index Fund	Moody's Corporation			Equity	1,551	451.882	0.093%
JNL S&P 500 Index Fund	CMS Energy Corporation			Equity	2,888	203.979	0.042%
JNL S&P 500 Index Fund	Fifth Third Bancorp			Equity	6,664	287.951	0.059%
JNL S&P 500 Index Fund	Freight-McMorgan Inc.			Equity	14,274	712.558	0.147%
JNL S&P 500 Index Fund	Deckers Outdoor Corporation			Equity	1,530	192.000	0.039%
JNL S&P 500 Index Fund	Hormel Foods Corporation			Equity	2,831	89.743	0.018%
JNL S&P 500 Index Fund	Cummins Inc.			Equity	1,368	442.945	0.091%
JNL S&P 500 Index Fund	Assurant, Inc.			Equity	500	99.430	0.020%
JNL S&P 500 Index Fund	NRG Energy, Inc.			Equity	2,029	184.242	0.038%
JNL S&P 500 Index Fund	Fair Isaac Corporation			Equity	243	472.275	0.097%
JNL S&P 500 Index Fund	Hasbro, Inc.			Equity	1,232	89.098	0.018%
JNL S&P 500 Index Fund	Fastenal Company			Equity	5,602	400.095	0.082%
JNL S&P 500 Index Fund	Erie Indemnity Company			Equity	205	110.663	0.022%
JNL S&P 500 Index Fund	Juniper Networks, Inc.			Equity	3,193	124.463	0.026%
JNL S&P 500 Index Fund	Coterra Energy Inc.			Equity	7,400	177.230	0.036%
JNL S&P 500 Index Fund	Intel Corporation			Equity	42,024	985.883	0.203%
JNL S&P 500 Index Fund	D.R. Horton, Inc.			Equity	2,896	552.470	0.114%
JNL S&P 500 Index Fund	The Estee Lauder Companies Inc.			Equity	2,230	222.309	0.046%
JNL S&P 500 Index Fund	JPMorgan Chase & Co.			Equity	27,914	5,885.946	1.210%
JNL S&P 500 Index Fund	Constellation Brands, Inc.			Equity	1,533	395.039	0.081%
JNL S&P 500 Index Fund	Campbell Soup Company			Equity	1,818	88.937	0.018%
JNL S&P 500 Index Fund	Caterpillar Inc.			Equity	4,737	1,860.558	0.383%
JNL S&P 500 Index Fund	NVIDIA Corporation			Equity	241,354	29,312.458	6.028%
JNL S&P 500 Index Fund	Darden Restaurants, Inc.			Equity	1,095	179.722	0.037%
JNL S&P 500 Index Fund	Almos Energy Corporation			Equity	1,490	206.678	0.043%
JNL S&P 500 Index Fund	Expeditors International of Washington, Inc.			Equity	1,365	179.492	0.037%
JNL S&P 500 Index Fund	Intuit Inc.			Equity	2,735	1,698.435	0.349%
JNL S&P 500 Index Fund	PMC Corporation			Equity	1,174	78.094	0.016%
JNL S&P 500 Index Fund	International Flavors & Fragrances Inc.			Equity	2,952	268.802	0.055%
JNL S&P 500 Index Fund	General Dynamics Corporation			Equity	2,470	546.434	0.113%
JNL S&P 500 Index Fund	Gilead Sciences, Inc.			Equity	12,173	1,020.584	0.210%
JNL S&P 500 Index Fund	Walt Disney Company, The			Equity	17,793	1,711.509	0.352%
JNL S&P 500 Index Fund	General Mills, Inc.			Equity	5,559	410.532	0.084%
JNL S&P 500 Index Fund	Church & Dwight Co., Inc.			Equity	2,364	247.558	0.051%
JNL S&P 500 Index Fund	Equifax Inc.			Equity	1,234	362.623	0.075%
JNL S&P 500 Index Fund	CenterPoint Energy, Inc.			Equity	6,493	191.024	0.039%
JNL S&P 500 Index Fund	McKesson Corporation			Equity	1,288	637.727	0.131%
JNL S&P 500 Index Fund	Dollar Tree, Inc.			Equity	1,984	139.515	0.029%
JNL S&P 500 Index Fund	Danaher Corporation			Equity	6,306	1,754.897	0.361%
JNL S&P 500 Index Fund	Cognizant Technology Solutions Corporation			Equity	4,733	365.293	0.075%
JNL S&P 500 Index Fund	Salesforce, Inc.			Equity	9,507	2,605.996	0.536%
JNL S&P 500 Index Fund	Illinois Tool Works Inc.			Equity	2,630	663.189	0.138%
JNL S&P 500 Index Fund	eBay Inc.			Equity	4,687	965.171	0.063%
JNL S&P 500 Index Fund	Arthur J. Gallagher & Co.			Equity	2,160	607.759	0.125%
JNL S&P 500 Index Fund	Genuine Parts Company			Equity	1,327	186.682	0.038%
JNL S&P 500 Index Fund	Omnicom Group Inc.			Equity	1,908	188.604	0.041%
JNL S&P 500 Index Fund	W.W. Grainger, Inc.			Equity	435	451.882	0.093%
JNL S&P 500 Index Fund	Franklin Resources, Inc.			Equity	2,787	57.022	0.012%
JNL S&P 500 Index Fund	Ecobab Inc.			Equity	2,528	646.915	0.133%
JNL S&P 500 Index Fund	EQT Corporation			Equity	5,859	214.674	0.044%
JNL S&P 500 Index Fund	Humana Inc.			Equity	1,195	179.880	0.037%
JNL S&P 500 Index Fund	Fiserv, Inc.			Equity	5,649	1,014.843	0.209%
JNL S&P 500 Index Fund	NextEra Energy, Inc.			Equity	20,282	1,714.437	0.353%
JNL S&P 500 Index Fund	The Hershey Company			Equity	1,449	277.889	0.057%
JNL S&P 500 Index Fund	Exxon Mobil Corporation			Equity	43,589	5,109.515	1.051%
JNL S&P 500 Index Fund	Electronic Arts Inc.			Equity	2,372	340.240	0.070%
JNL S&P 500 Index Fund	Cardinal Health, Inc.			Equity	2,425	268.011	0.055%
JNL S&P 500 Index Fund	Molina Healthcare, Inc.			Equity	589	202.946	0.042%
JNL S&P 500 Index Fund	Cadence Design Systems, Inc.			Equity	2,650	718.230	0.148%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL S&P 500 Index Fund	CSX Corporation			Equity	18,931	853,687	0.134%
JNL S&P 500 Index Fund	Republic Services, Inc.			Equity	2,025	408,701	0.084%
JNL S&P 500 Index Fund	Conagra Brands, Inc.			Equity	4,906	159,543	0.033%
JNL S&P 500 Index Fund	Colgate-Palmolive Company			Equity	7,973	827,677	0.170%
JNL S&P 500 Index Fund	Jabil Inc.			Equity	1,173	140,561	0.029%
JNL S&P 500 Index Fund	Gierher, Inc.			Equity	763	388,658	0.080%
JNL S&P 500 Index Fund	OTE Energy Company			Equity	1,995	258,213	0.053%
JNL S&P 500 Index Fund	Coca-Cola Company, The			Equity	38,274	2,768,933	0.569%
JNL S&P 500 Index Fund	Revvity, Inc.			Equity	1,236	157,899	0.032%
JNL S&P 500 Index Fund	Huntington Bancshares Incorporated			Equity	13,988	207,792	0.043%
JNL S&P 500 Index Fund	Dowor Corporation			Equity	1,362	292,150	0.054%
JNL S&P 500 Index Fund	Emerson Electric Co.			Equity	5,517	603,394	0.124%
JNL S&P 500 Index Fund	J.B. Hunt Transport Services, Inc.			Equity	787	135,624	0.028%
JNL S&P 500 Index Fund	Jack Henry & Associates, Inc.			Equity	756	133,464	0.027%
JNL S&P 500 Index Fund	PS, Inc.			Equity	579	127,486	0.026%
JNL S&P 500 Index Fund	International Paper Company			Equity	3,503	171,122	0.035%
JNL S&P 500 Index Fund	Cincinnati Financial Corporation			Equity	1,576	215,802	0.044%
JNL S&P 500 Index Fund	Cintas Corporation			Equity	3,376	695,051	0.143%
JNL S&P 500 Index Fund	Corning Incorporated			Equity	7,674	346,491	0.071%
JNL S&P 500 Index Fund	Citigroup Inc.			Equity	18,830	1,178,758	0.242%
JNL S&P 500 Index Fund	Henry Schein, Inc.			Equity	1,277	93,093	0.019%
JNL S&P 500 Index Fund	Morgan Stanley			Equity	12,166	1,268,184	0.261%
JNL S&P 500 Index Fund	Bank of America Corporation			Equity	66,233	2,629,125	0.540%
JNL S&P 500 Index Fund	Roper Technologies, Inc.			Equity	1,048	583,149	0.120%
JNL S&P 500 Index Fund	Carnival Corporation			Equity	10,271	189,808	0.039%
JNL S&P 500 Index Fund	Packaging Corporation of America			Equity	871	188,702	0.039%
JNL S&P 500 Index Fund	Ross Stores, Inc.			Equity	3,230	486,147	0.100%
JNL S&P 500 Index Fund	BlackRock, Inc.			Equity	1,358	1,289,435	0.265%
JNL S&P 500 Index Fund	NiSource Inc.			Equity	4,426	153,361	0.032%
JNL S&P 500 Index Fund	Masco Corporation			Equity	2,152	180,639	0.037%
JNL S&P 500 Index Fund	Charles River Laboratories International, Inc.			Equity	505	89,470	0.018%
JNL S&P 500 Index Fund	Matfife, Inc.			Equity	5,812	479,574	0.099%
JNL S&P 500 Index Fund	Paychex, Inc.			Equity	3,118	418,404	0.086%
JNL S&P 500 Index Fund	XCEL Energy Inc.			Equity	5,410	356,235	0.073%
JNL S&P 500 Index Fund	Pool Corporation			Equity	392	147,706	0.030%
JNL S&P 500 Index Fund	Nucor Corporation			Equity	2,333	213,141	0.041%
JNL S&P 500 Index Fund	U.S. Bancorp			Equity	15,404	712,127	0.146%
JNL S&P 500 Index Fund	Royal Caribbean Cruises Ltd.			Equity	2,369	421,113	0.087%
JNL S&P 500 Index Fund	Cosco Wholesale Corporation			Equity	4,350	3,856,362	0.793%
JNL S&P 500 Index Fund	T. Rowe Price Group, Inc.			Equity	2,135	1,067,039	0.219%
JNL S&P 500 Index Fund	Travelers Companies, Inc., The			Equity	2,229	521,853	0.107%
JNL S&P 500 Index Fund	Schlumberger Limited			Equity	13,962	589,545	0.121%
JNL S&P 500 Index Fund	Incyte Corporation			Equity	1,968	103,645	0.021%
JNL S&P 500 Index Fund	Johnson & Johnson			Equity	23,618	3,827,533	0.787%
JNL S&P 500 Index Fund	McCormick & Company, Incorporated			Equity	2,459	202,376	0.042%
JNL S&P 500 Index Fund	Lam Research Corporation			Equity	1,268	1,037,763	0.213%
JNL S&P 500 Index Fund	Global Payments Inc.			Equity	2,484	254,411	0.052%
JNL S&P 500 Index Fund	KLA Corporation			Equity	1,309	1,013,703	0.208%
JNL S&P 500 Index Fund	Lockheed Martin Corporation			Equity	2,096	1,225,238	0.252%
JNL S&P 500 Index Fund	KeyCorp			Equity	9,380	157,115	0.032%
JNL S&P 500 Index Fund	NetApp, Inc.			Equity	2,026	250,231	0.051%
JNL S&P 500 Index Fund	Lennar Corporation			Equity	2,406	451,077	0.092%
JNL S&P 500 Index Fund	PulteGroup, Inc.			Equity	1,974	283,750	0.058%
JNL S&P 500 Index Fund	Raymond James Financial, Inc.			Equity	1,862	227,959	0.047%
JNL S&P 500 Index Fund	Exelon Corporation			Equity	9,982	404,770	0.083%
JNL S&P 500 Index Fund	Arch Capital Group Ltd.			Equity	3,716	315,746	0.065%
JNL S&P 500 Index Fund	Merck & Co., Inc.			Equity	24,844	2,840,537	0.584%
JNL S&P 500 Index Fund	On Semiconductor Corporation			Equity	4,338	314,982	0.065%
JNL S&P 500 Index Fund	Occidental Petroleum Corporation			Equity	6,647	344,049	0.071%
JNL S&P 500 Index Fund	CVS Health Corporation			Equity	12,251	170,343	0.035%
JNL S&P 500 Index Fund	McDonald's Corporation			Equity	2,038	1,146,489	0.234%
JNL S&P 500 Index Fund	Public Service Enterprise Group Incorporated			Equity	4,892	436,415	0.090%
JNL S&P 500 Index Fund	Zimmer Biomet Holdings, Inc.			Equity	2,000	216,380	0.044%
JNL S&P 500 Index Fund	Oracle Corporation			Equity	15,627	2,662,841	0.548%
JNL S&P 500 Index Fund	Loews Corporation			Equity	1,853	1,146,489	0.234%
JNL S&P 500 Index Fund	United Parcel Service, Inc.			Equity	7,200	981,648	0.202%
JNL S&P 500 Index Fund	Agilent Technologies, Inc.			Equity	2,898	430,295	0.088%
JNL S&P 500 Index Fund	Qualcomm Incorporated			Equity	10,924	1,857,626	0.382%
JNL S&P 500 Index Fund	Marsh & McLennan Companies, Inc.			Equity	4,783	1,067,039	0.219%
JNL S&P 500 Index Fund	Kellanova			Equity	2,602	210,007	0.043%
JNL S&P 500 Index Fund	Hartford Financial Services Group, Inc., The			Equity	2,919	344,676	0.071%
JNL S&P 500 Index Fund	The PNC Financial Services Group, Inc.			Equity	3,850	711,673	0.146%
JNL S&P 500 Index Fund	PepsiCo, Inc.			Equity	13,465	2,288,723	0.471%
JNL S&P 500 Index Fund	Mohawk Industries, Inc.			Equity	562	90,302	0.019%
JNL S&P 500 Index Fund	Quest Diagnostics Incorporated			Equity	1,124	174,501	0.036%
JNL S&P 500 Index Fund	PACCAR Inc			Equity	5,130	506,228	0.104%
JNL S&P 500 Index Fund	Fidelity National Information Services, Inc.			Equity	5,413	453,539	0.092%
JNL S&P 500 Index Fund	Newmont Corporation			Equity	11,410	609,865	0.125%
JNL S&P 500 Index Fund	Altria Group, Inc.			Equity	16,619	865,554	0.178%
JNL S&P 500 Index Fund	Parker-Hannifin Corporation			Equity	1,246	787,248	0.162%
JNL S&P 500 Index Fund	Kroger Co., The			Equity	6,654	381,274	0.078%
JNL S&P 500 Index Fund	ConocoPhillips			Equity	11,202	1,188,860	0.244%
JNL S&P 500 Index Fund	Norfolk Southern Corporation			Equity	2,230	564,155	0.114%
JNL S&P 500 Index Fund	Regeneron Pharmaceuticals, Inc.			Equity	1,047	1,100,648	0.226%
JNL S&P 500 Index Fund	PPL Corporation			Equity	7,197	239,930	0.049%
JNL S&P 500 Index Fund	Nordson Corporation			Equity	542	1,467,240	0.302%
JNL S&P 500 Index Fund	MGM Resorts International			Equity	2,025	79,157	0.016%
JNL S&P 500 Index Fund	Rockwell Automation, Inc.			Equity	1,111	298,259	0.061%
JNL S&P 500 Index Fund	Martin Marietta Materials, Inc.			Equity	604	325,103	0.067%
JNL S&P 500 Index Fund	Kimberly-Clark Corporation			Equity	3,828	488,298	0.099%
JNL S&P 500 Index Fund	Dominion Energy, Inc.			Equity	8,185	473,011	0.097%
JNL S&P 500 Index Fund	Eli Lilly and Company			Equity	7,740	6,857,176	1.410%
JNL S&P 500 Index Fund	Edwards Lifesciences Corporation			Equity	5,923	390,859	0.080%
JNL S&P 500 Index Fund	Goldman Sachs Group, Inc., The			Equity	3,098	4,533,598	0.915%
JNL S&P 500 Index Fund	Pfizer Inc.			Equity	55,939	1,618,875	0.333%
JNL S&P 500 Index Fund	Procter & Gamble Company, The			Equity	23,096	4,000,227	0.823%
JNL S&P 500 Index Fund	Charles Schwab Corporation, The			Equity	14,738	955,170	0.196%
JNL S&P 500 Index Fund	NVR, Inc.			Equity	30	294,254	0.061%
JNL S&P 500 Index Fund	Microchip Technology Incorporated			Equity	5,311	426,420	0.088%
JNL S&P 500 Index Fund	Old Dominion Freight Line, Inc.			Equity	1,763	350,202	0.072%
JNL S&P 500 Index Fund	Brown & Brown, Inc.			Equity	2,318	240,145	0.049%
JNL S&P 500 Index Fund	Microsoft Corporation			Equity	72,927	31,380,498	6.452%
JNL S&P 500 Index Fund	Micron Technology, Inc.			Equity	10,932	1,133,758	0.233%
JNL S&P 500 Index Fund	Akamai Technologies, Inc.			Equity	1,549	156,372	0.032%
JNL S&P 500 Index Fund	3M Company			Equity	5,350	731,345	0.150%
JNL S&P 500 Index Fund	PG&E Corporation			Equity	20,582	407,112	0.084%
JNL S&P 500 Index Fund	Everest Group, Ltd.			Equity	398	155,948	0.032%
JNL S&P 500 Index Fund	Capital One Financial Corporation			Equity	3,772	564,782	0.116%
JNL S&P 500 Index Fund	Northern Trust Corporation			Equity	2,033	184,556	0.038%
JNL S&P 500 Index Fund	Devon Energy Corporation			Equity	6,122	239,493	0.049%
JNL S&P 500 Index Fund	The Progressive Corporation			Equity	5,782	1,467,240	0.302%
JNL S&P 500 Index Fund	Teledyne Technologies Incorporated			Equity	469	205,240	0.042%
JNL S&P 500 Index Fund	NIKE, Inc.			Equity	11,782	1,045,975	0.215%
JNL S&P 500 Index Fund	Low's Companies, Inc.			Equity	5,583	1,512,156	0.311%
JNL S&P 500 Index Fund	Northrop Grumman Corporation			Equity	1,337	706,030	0.145%
JNL S&P 500 Index Fund	Ford Motor Company			Equity	38,954	411,354	0.085%
JNL S&P 500 Index Fund	PPG Industries, Inc.			Equity	2,296	304,128	0.063%
JNL S&P 500 Index Fund	Wells Fargo & Company			Equity	33,395	1,886,484	0.388%
JNL S&P 500 Index Fund	ResMed Inc.			Equity	1,443	352,265	0.072%
JNL S&P 500 Index Fund	Rollins, Inc.			Equity	2,894	146,353	0.030%
JNL S&P 500 Index Fund	Align Technology, Inc.			Equity	713	181,330	0.037%
JNL S&P 500 Index Fund	Texes Instruments Incorporated			Equity	8,988	1,856,651	0.382%
JNL S&P 500 Index Fund	Tractor Supply Company			Equity	1,049	325,186	0.067%
JNL S&P 500 Index Fund	Snap-on Incorporated			Equity	533	154,415	0.032%
JNL S&P 500 Index Fund	Legacy Vulcan Corp.			Equity	1,280	320,550	0.066%
JNL S&P 500 Index Fund	West Pharmaceutical Services, Inc.			Equity	732	219,717	0.045%
JNL S&P 500 Index Fund	LQX Corporation			Equity	2,490	99,401	0.020%
JNL S&P 500 Index Fund	Trimble Inc.			Equity	2,426	150,630	0.031%
JNL S&P 500 Index Fund	Stryker Corporation			Equity	3,347	1,211,815	0.249%
JNL S&P 500 Index Fund	Western Digital Corporation			Equity	3,195	218,187	0.045%
JNL S&P 500 Index Fund	Marathon Oil Corporation			Equity	5,742	152,808	0.031%
JNL S&P 500 Index Fund	State Street Corporation			Equity	3,035	288,508	0.059%
JNL S&P 500 Index Fund	Texton Inc.			Equity	1,758	155,763	0.032%
JNL S&P 500 Index Fund	Vertex Pharmaceuticals Incorporated			Equity	2,547	1,184,559	0.244%
JNL S&P 500 Index Fund	Nasdaq, Inc.			Equity	4,085	286,246	0.061%
JNL S&P 500 Index Fund	Zebra Technologies Corporation			Equity	488	180,716	0.037%
JNL S&P 500 Index Fund	DeVita Inc.			Equity	478	78,359	0.016%
JNL S&P 500 Index Fund	Principal Financial Group, Inc.			Equity	2,159	185,458	0.038%
JNL S&P 500 Index Fund	Prudential Financial, Inc.			Equity	3,549	429,784	0.088%
JNL S&P 500 Index Fund	Union Pacific Corporation			Equity	6,023	1,484,549	0.305%
JNL S&P 500 Index Fund	Thermo Fisher Scientific Inc.			Equity	3,737	2,313,066	0.476%
JNL S&P 500 Index Fund	Walmart Inc.			Equity	42,418	3,425,254	0.704%
JNL S&P 500 Index Fund	Chevron Corporation			Equity	16,688	2,457,677	0.505%
JNL S&P 500 Index Fund	Tyler Technologies, Inc.			Equity	430	251,000	0.052%
JNL S&P 500 Index Fund	The Southern Company			Equity	10,794	973,403	0.200%
JNL S&P 500 Index Fund	Skyworks Solutions, Inc.			Equity	1,588	156,847	0.032%
JNL S&P 500 Index Fund	A. O. Smith Corporation			Equity	1,164	104,562	0.022%
JNL S&P 500 Index Fund	Westinghouse Air Brake Technologies Corporation			Equity	1,733	315,007	0.065%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL S&P 500 Index Fund	Cencora, Inc.			Equity	1,603	360,803	0.074%
JNL S&P 500 Index Fund	Centene Corporation			Equity	8,059	980,842	0.078%
JNL S&P 500 Index Fund	UnitedHealth Group Incorporated			Equity	9,054	5,293,693	1.089%
JNL S&P 500 Index Fund	Intuitive Surgical, Inc.			Equity	3,463	1,701,268	0.350%
JNL S&P 500 Index Fund	AT&T Inc.			Equity	70,781	1,557,182	0.320%
JNL S&P 500 Index Fund	The Sherwin-Williams Company			Equity	2,293	875,169	0.180%
JNL S&P 500 Index Fund	Southwest Airlines Co.			Equity	5,891	174,550	0.036%
JNL S&P 500 Index Fund	Universal Health Services, Inc.			Equity	622	142,444	0.029%
JNL S&P 500 Index Fund	Wynn Resorts, Limited			Equity	926	88,785	0.018%
JNL S&P 500 Index Fund	Starbucks Corporation			Equity	11,182	1,090,133	0.224%
JNL S&P 500 Index Fund	Edison International			Equity	3,824	333,032	0.068%
JNL S&P 500 Index Fund	The J. M. Smucker Company			Equity	1,102	133,452	0.027%
JNL S&P 500 Index Fund	Waste Management, Inc.			Equity	3,603	747,983	0.154%
JNL S&P 500 Index Fund	Symyxys, Inc.			Equity	1,511	765,155	0.157%
JNL S&P 500 Index Fund	Waters Corporation			Equity	586	210,849	0.043%
JNL S&P 500 Index Fund	Teleflex Incorporated			Equity	455	112,531	0.023%
JNL S&P 500 Index Fund	Williams Companies, Inc., The			Equity	11,970	546,431	0.112%
JNL S&P 500 Index Fund	Alliant Energy Corporation			Equity	2,625	159,311	0.033%
JNL S&P 500 Index Fund	Steel Dynamics, Inc.			Equity	1,430	180,952	0.037%
JNL S&P 500 Index Fund	Sysco Corporation			Equity	4,755	371,175	0.076%
JNL S&P 500 Index Fund	CME Group Inc.			Equity	3,522	777,129	0.160%
JNL S&P 500 Index Fund	Tyson Foods, Inc.			Equity	2,887	171,950	0.035%
JNL S&P 500 Index Fund	Tenadyne, Inc.			Equity	1,507	201,833	0.042%
JNL S&P 500 Index Fund	Netflix, Inc.			Equity	4,211	2,986,736	0.614%
JNL S&P 500 Index Fund	TLX Companies, Inc., The			Equity	11,023	1,295,643	0.266%
JNL S&P 500 Index Fund	CarMax, Inc.			Equity	1,628	125,975	0.026%
JNL S&P 500 Index Fund	Moderna, Inc.			Equity	3,369	225,150	0.046%
JNL S&P 500 Index Fund	Las Vegas Sands Corp.			Equity	3,254	163,806	0.034%
JNL S&P 500 Index Fund	Regions Financial Corporation			Equity	9,275	218,705	0.045%
JNL S&P 500 Index Fund	MarketAxess Holdings Inc.			Equity	389	99,662	0.020%
JNL S&P 500 Index Fund	Mondolite Power Systems, Inc.			Equity	480	444,360	0.092%
JNL S&P 500 Index Fund	Dominos Pizza, Inc.			Equity	338	145,387	0.030%
JNL S&P 500 Index Fund	Ameriprise Financial, Inc.			Equity	970	455,716	0.094%
JNL S&P 500 Index Fund	Delta Air Lines, Inc.			Equity	6,547	332,522	0.068%
JNL S&P 500 Index Fund	MasterCard Incorporated			Equity	8,105	4,002,249	0.823%
JNL S&P 500 Index Fund	Discover Financial Services			Equity	2,519	955,390	0.193%
JNL S&P 500 Index Fund	Chipotle Mexican Grill, Inc.			Equity	13,400	772,108	0.159%
JNL S&P 500 Index Fund	First Solar, Inc.			Equity	1,062	264,905	0.054%
JNL S&P 500 Index Fund	Live Nation Entertainment, Inc.			Equity	1,415	154,928	0.032%
JNL S&P 500 Index Fund	Inusnet Corporation			Equity	716	160,642	0.034%
JNL S&P 500 Index Fund	DexCom, Inc.			Equity	3,956	265,210	0.055%
JNL S&P 500 Index Fund	Celanese Corporation			Equity	980	133,241	0.027%
JNL S&P 500 Index Fund	Super Micro Computer, Inc.			Equity	505	210,282	0.043%
JNL S&P 500 Index Fund	Inveco Ltd.			Equity	4,283	76,865	0.016%
JNL S&P 500 Index Fund	Molson Coors Beverage Company			Equity	1,807	103,939	0.021%
JNL S&P 500 Index Fund	MSCI Inc.			Equity	783	456,434	0.094%
JNL S&P 500 Index Fund	Lululemon Athletica Inc.			Equity	1,108	300,656	0.062%
JNL S&P 500 Index Fund	Builders FirstSource, Inc.			Equity	1,123	217,705	0.045%
JNL S&P 500 Index Fund	Broadridge Financial Solutions, Inc.			Equity	1,144	247,001	0.051%
JNL S&P 500 Index Fund	Bank of New York Mellon Corporation, The			Equity	7,199	517,320	0.106%
JNL S&P 500 Index Fund	Ulta Beauty, Inc.			Equity	458	178,217	0.037%
JNL S&P 500 Index Fund	CF Industries Holdings, Inc.			Equity	1,800	154,955	0.032%
JNL S&P 500 Index Fund	TransDigm Group Incorporated			Equity	552	787,776	0.162%
JNL S&P 500 Index Fund	Marathon Petroleum Corporation			Equity	3,284	534,996	0.110%
JNL S&P 500 Index Fund	CBOE Global Markets, Inc.			Equity	1,056	216,343	0.044%
JNL S&P 500 Index Fund	NXP Semiconductors N.V.			Equity	2,516	606,416	0.125%
JNL S&P 500 Index Fund	Huntington Ingalls Industries, Inc.			Equity	387	102,315	0.021%
JNL S&P 500 Index Fund	Tesla Inc.			Equity	27,222	7,122,092	1.465%
JNL S&P 500 Index Fund	Accenture Public Limited Company			Equity	6,146	2,172,488	0.447%
JNL S&P 500 Index Fund	Stanley Black & Decker, Inc.			Equity	1,569	172,794	0.036%
JNL S&P 500 Index Fund	O'Reilly Automotive, Inc.			Equity	569	684,026	0.138%
JNL S&P 500 Index Fund	Motorola Solutions, Inc.			Equity	1,649	743,056	0.153%
JNL S&P 500 Index Fund	Fortinet, Inc.			Equity	6,288	487,634	0.100%
JNL S&P 500 Index Fund	Targa Resources Corp.			Equity	2,090	309,341	0.064%
JNL S&P 500 Index Fund	HCA Healthcare, Inc.			Equity	1,823	710,922	0.142%
JNL S&P 500 Index Fund	Ralph Lauren Corporation			Equity	372	72,427	0.015%
JNL S&P 500 Index Fund	Expedia Group, Inc.			Equity	1,272	188,281	0.039%
JNL S&P 500 Index Fund	American Water Works Company, Inc.			Equity	1,904	278,441	0.057%
JNL S&P 500 Index Fund	General Motors Company			Equity	10,954	491,177	0.101%
JNL S&P 500 Index Fund	Aptiv PLC			Equity	2,602	187,370	0.039%
JNL S&P 500 Index Fund	Phillips 66			Equity	4,039	530,927	0.109%
JNL S&P 500 Index Fund	Dollar General Corporation			Equity	2,146	181,487	0.037%
JNL S&P 500 Index Fund	LyondellBasell Industries N.V.			Equity	2,509	240,613	0.049%
JNL S&P 500 Index Fund	Xylem Inc.			Equity	2,404	324,612	0.067%
JNL S&P 500 Index Fund	United Airlines Holdings, Inc.			Equity	3,107	177,285	0.036%
JNL S&P 500 Index Fund	Visa Inc.			Equity	16,389	4,506,156	0.927%
JNL S&P 500 Index Fund	Verisk Analytics, Inc.			Equity	1,422	381,036	0.078%
JNL S&P 500 Index Fund	Mosaic Company, The			Equity	3,425	91,722	0.019%
JNL S&P 500 Index Fund	Generac Holdings Inc.			Equity	643	102,160	0.021%
JNL S&P 500 Index Fund	Garmin Ltd.			Equity	1,504	264,749	0.054%
JNL S&P 500 Index Fund	Chubb Limited			Equity	3,686	1,066,653	0.219%
JNL S&P 500 Index Fund	EPAM Systems, Inc.			Equity	580	115,437	0.024%
JNL S&P 500 Index Fund	Kinder Morgan, Inc.			Equity	19,245	425,122	0.087%
JNL S&P 500 Index Fund	Philip Morris International Inc.			Equity	15,346	1,883,722	0.387%
JNL S&P 500 Index Fund	Meta Platforms, Inc.			Equity	21,435	12,270,251	2.523%
JNL S&P 500 Index Fund	Duke Energy Corporation			Equity	7,667	784,025	0.162%
JNL S&P 500 Index Fund	ServiceNow, Inc.			Equity	2,024	1,810,245	0.372%
JNL S&P 500 Index Fund	Diamondback Energy, Inc.			Equity	1,788	308,251	0.063%
JNL S&P 500 Index Fund	CDW Corp.			Equity	1,300	284,180	0.060%
JNL S&P 500 Index Fund	Willis Towers Watson Public Limited Company			Equity	1,020	301,318	0.062%
JNL S&P 500 Index Fund	Zoetis Inc.			Equity	4,415	862,603	0.177%
JNL S&P 500 Index Fund	News Corporation			Equity	3,666	97,992	0.020%
JNL S&P 500 Index Fund	KKR & Co. Inc.			Equity	6,591	860,653	0.177%
JNL S&P 500 Index Fund	News Corporation			Equity	1,359	38,120	0.008%
JNL S&P 500 Index Fund	GoDaddy Inc.			Equity	1,371	214,945	0.044%
JNL S&P 500 Index Fund	IQVIA Holdings Inc.			Equity	1,699	402,612	0.083%
JNL S&P 500 Index Fund	PTC Inc.			Equity	1,174	212,095	0.044%
JNL S&P 500 Index Fund	Hubbell Incorporated			Equity	532	227,862	0.047%
JNL S&P 500 Index Fund	T-Mobile US, Inc.			Equity	4,808	992,179	0.204%
JNL S&P 500 Index Fund	Mondelez International, Inc.			Equity	13,057	968,046	0.199%
JNL S&P 500 Index Fund	AbbVie Inc.			Equity	17,330	3,422,328	0.704%
JNL S&P 500 Index Fund	Palo Alto Networks, Inc.			Equity	3,190	1,090,242	0.224%
JNL S&P 500 Index Fund	Lamb Weston Holdings, Inc.			Equity	1,400	90,636	0.019%
JNL S&P 500 Index Fund	Tapestry, Inc.			Equity	2,276	106,926	0.022%
JNL S&P 500 Index Fund	Norwegian Cruise Line Holdings Ltd.			Equity	4,411	90,470	0.019%
JNL S&P 500 Index Fund	Edson Corporation Public Limited Company			Equity	3,886	1,287,976	0.265%
JNL S&P 500 Index Fund	Baker Hughes Company			Equity	10,013	361,970	0.074%
JNL S&P 500 Index Fund	Former Charter Communications Parent, Inc.			Equity	983	318,571	0.066%
JNL S&P 500 Index Fund	The Cigna Group			Equity	2,743	950,285	0.195%
JNL S&P 500 Index Fund	Vistra Corp.			Equity	3,272	387,863	0.080%
JNL S&P 500 Index Fund	Evergy, Inc.			Equity	2,180	135,182	0.028%
JNL S&P 500 Index Fund	Axon Enterprise, Inc.			Equity	699	279,320	0.057%
JNL S&P 500 Index Fund	iShares Core S&P 500 ETF			Fund	9,699	5,594,577	1.150%
JNL S&P 500 Index Fund	Qorvo, Inc.			Equity	905	93,487	0.019%
JNL S&P 500 Index Fund	Pentair Public Limited Company			Equity	1,632	159,593	0.033%
JNL S&P 500 Index Fund	Broadcom Inc.			Equity	45,670	7,878,075	1.620%
JNL S&P 500 Index Fund	Leidos Holdings, Inc.			Equity	1,331	216,953	0.045%
JNL S&P 500 Index Fund	Booking Holdings Inc.			Equity	329	1,385,787	0.285%
JNL S&P 500 Index Fund	Allison Public Limited Company			Equity	860	125,336	0.026%
JNL S&P 500 Index Fund	Intercontinental Exchange, Inc.			Equity	5,666	910,186	0.187%
JNL S&P 500 Index Fund	Paycom Software, Inc.			Equity	493	82,119	0.017%
JNL S&P 500 Index Fund	Arista Networks, Inc.			Equity	2,506	861,953	0.180%
JNL S&P 500 Index Fund	S&P Global Inc.			Equity	3,124	1,613,921	0.332%
JNL S&P 500 Index Fund	Equity Residential			Equity	3,403	255,684	0.053%
JNL S&P 500 Index Fund	Kraft Heinz Company, The			Equity	7,805	274,034	0.056%
JNL S&P 500 Index Fund	Elevance Health, Inc.			Equity	2,260	1,175,200	0.242%
JNL S&P 500 Index Fund	Citizens Financial Group, Inc.			Equity	4,456	125,361	0.026%
JNL S&P 500 Index Fund	Iron Mountain Incorporated			Equity	2,787	333,286	0.069%
JNL S&P 500 Index Fund	Walgreens Boots Alliance, Inc.			Equity	6,696	59,996	0.012%
JNL S&P 500 Index Fund	Eversource Energy			Equity	3,398	231,234	0.048%
JNL S&P 500 Index Fund	Catalent, Inc.			Equity	1,671	101,212	0.021%
JNL S&P 500 Index Fund	Alphabet Inc.			Equity	57,484	9,533,721	1.960%
JNL S&P 500 Index Fund	Keysight Technologies, Inc.			Equity	1,719	273,201	0.056%
JNL S&P 500 Index Fund	Synchrony Financial			Equity	3,679	183,509	0.038%
JNL S&P 500 Index Fund	Hewlett Packard Enterprise Company			Equity	12,404	255,398	0.053%
JNL S&P 500 Index Fund	Alphabet Inc.			Equity	47,124	7,878,662	1.620%
JNL S&P 500 Index Fund	Dell Technologies Inc.			Equity	2,822	334,520	0.069%
JNL S&P 500 Index Fund	Monster Beverage 1990 Corporation			Equity	6,902	360,077	0.074%
JNL S&P 500 Index Fund	HP, Inc.			Equity	6,103	328,899	0.068%
JNL S&P 500 Index Fund	Payfai Holdings, Inc.			Equity	10,030	782,641	0.161%
JNL S&P 500 Index Fund	Johnson Controls International Public Limited Company			Equity	6,640	517,787	0.106%
JNL S&P 500 Index Fund	Bio-Techne Corporation			Equity	1,481	118,376	0.024%
JNL S&P 500 Index Fund	Hilton Worldwide Holdings Inc.			Equity	2,443	563,112	0.116%
JNL S&P 500 Index Fund	Medtronic, Inc.			Equity	12,584	1,141,746	0.236%
JNL S&P 500 Index Fund	Fortive Corporation			Equity	3,388	267,415	0.055%
JNL S&P 500 Index Fund	Crown Castle Inc.			Equity	4,279	507,618	0.104%
JNL S&P 500 Index Fund	WEC Energy Group Inc.			Equity	3,167	304,602	0.063%
JNL S&P 500 Index Fund	Equinix, Inc.			Equity	937	831,769	0.171%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL S&P 500 Index Fund	Alexandra Real Estate Equities, Inc.			Equity	1,561	187,398	0.039%
JNL S&P 500 Index Fund	Camden Property Trust			Equity	991	123,439	0.025%
JNL S&P 500 Index Fund	ProLogis Inc.			Equity	9,140	1,154,253	0.237%
JNL S&P 500 Index Fund	Invitation Homes Inc.			Equity	5,717	253,182	0.042%
JNL S&P 500 Index Fund	Realty Income Corporation			Equity	8,586	545,158	0.112%
JNL S&P 500 Index Fund	Kimco Realty OP, LLC			Equity	6,883	159,823	0.033%
JNL S&P 500 Index Fund	Public Storage Operating Company			Equity	1,542	561,088	0.115%
JNL S&P 500 Index Fund	Simon Property Group, Inc.			Equity	3,007	508,243	0.105%
JNL S&P 500 Index Fund	Essex Property Trust, Inc.			Equity	622	185,275	0.038%
JNL S&P 500 Index Fund	American Tower Corporation			Equity	4,610	1,072,102	0.220%
JNL S&P 500 Index Fund	Host Hotels & Resorts, Inc.			Equity	6,694	119,153	0.025%
JNL S&P 500 Index Fund	OTBRE Group, Inc.			Equity	2,958	368,212	0.076%
JNL S&P 500 Index Fund	AvalonBay Communities, Inc.			Equity	1,395	316,595	0.065%
JNL S&P 500 Index Fund	Weyerhaeuser Company			Equity	7,406	250,767	0.052%
JNL S&P 500 Index Fund	Extra Space Storage Inc.			Equity	2,053	369,930	0.076%
JNL S&P 500 Index Fund	Ventus, Inc.			Equity	4,115	283,995	0.054%
JNL S&P 500 Index Fund	Digital Realty Trust, Inc.			Equity	3,020	488,727	0.101%
JNL S&P 500 Index Fund	Welltower Inc.			Equity	5,678	726,954	0.149%
JNL S&P 500 Index Fund	Regency Centers Corporation			Equity	1,529	111,464	0.023%
JNL S&P 500 Index Fund	UDR, Inc.			Equity	3,086	139,919	0.029%
JNL S&P 500 Index Fund	BXP, Inc.			Equity	1,507	122,730	0.025%
JNL S&P 500 Index Fund	SBA Communications Corporation			Equity	1,044	251,291	0.052%
JNL S&P 500 Index Fund	VICI Properties Inc.			Equity	10,239	345,489	0.071%
JNL S&P 500 Index Fund	Keurig Dr Pepper Inc.			Equity	10,220	385,398	0.079%
JNL S&P 500 Index Fund	Fox Corporation			Equity	1,123	43,572	0.009%
JNL S&P 500 Index Fund	Fox Corporation			Equity	2,233	94,523	0.019%
JNL S&P 500 Index Fund	Steris Public Limited Company			Equity	980	237,689	0.049%
JNL S&P 500 Index Fund	Dow Inc.			Equity	6,902	377,056	0.078%
JNL S&P 500 Index Fund	Emphase Energy, Inc.			Equity	1,353	152,916	0.031%
JNL S&P 500 Index Fund	Uber Technologies, Inc.			Equity	20,627	1,550,325	0.319%
JNL S&P 500 Index Fund	DuPont de Nemours, Inc.			Equity	4,186	371,232	0.076%
JNL S&P 500 Index Fund	Corvina, Inc.			Equity	6,757	397,244	0.082%
JNL S&P 500 Index Fund	Arcor Pty Ltd			Equity	13,573	153,782	0.032%
JNL S&P 500 Index Fund	CrowdStrike Holdings, Inc.			Equity	2,227	624,607	0.128%
JNL S&P 500 Index Fund	LSHarris Technologies, Inc.			Equity	1,891	449,812	0.092%
JNL S&P 500 Index Fund	Blackstone Inc.			Equity	7,003	1,072,369	0.221%
JNL S&P 500 Index Fund	Globe Life Inc.			Equity	826	87,482	0.018%
JNL S&P 500 Index Fund	Gen Digital Inc.			Equity	5,486	150,481	0.031%
JNL S&P 500 Index Fund	Healthpeak GP, LLC			Equity	6,616	151,308	0.031%
JNL S&P 500 Index Fund	Paramount Global			Equity	4,761	50,800	0.010%
JNL S&P 500 Index Fund	Trust Financial Corporation			Equity	13,044	557,892	0.115%
JNL S&P 500 Index Fund	Ingersoll Rand Inc.			Equity	3,984	391,069	0.080%
JNL S&P 500 Index Fund	Trans Technologies Public Limited Company			Equity	2,228	866,590	0.178%
JNL S&P 500 Index Fund	ACN Public Limited Company			Equity	2,104	227,963	0.045%
JNL S&P 500 Index Fund	Hovmest Aerospace Inc.			Equity	3,836	384,559	0.079%
JNL S&P 500 Index Fund	Carrier Global Corporation			Equity	8,344	671,609	0.138%
JNL S&P 500 Index Fund	RTX Corporation			Equity	13,124	1,590,104	0.327%
JNL S&P 500 Index Fund	Oris Worldwide Corporation			Equity	3,816	407,028	0.084%
JNL S&P 500 Index Fund	Match Group, Inc.			Equity	2,678	101,336	0.021%
JNL S&P 500 Index Fund	Caesars Entertainment, Inc.			Equity	1,945	81,184	0.017%
JNL S&P 500 Index Fund	Palantir Technologies Inc.			Equity	19,758	134,998	0.028%
JNL S&P 500 Index Fund	Linde Public Limited Company			Equity	4,705	2,243,626	0.461%
JNL S&P 500 Index Fund	Kenvue Inc.			Equity	18,641	431,166	0.089%
JNL S&P 500 Index Fund	Verano Corporation			Equity	2,167	242,596	0.050%
JNL S&P 500 Index Fund	Bunge Limited			Equity	1,343	129,788	0.027%
JNL S&P 500 Index Fund	The Cooper Companies, Inc.			Equity	1,896	209,205	0.043%
JNL S&P 500 Index Fund	Corpay Inc.			Equity	707	221,121	0.045%
JNL S&P 500 Index Fund	Solventum Corporation			Equity	1,288	89,799	0.018%
JNL S&P 500 Index Fund	GE Vernova Inc.			Equity	2,726	686,075	0.142%
JNL S&P 500 Index Fund	Labcorp Holdings Inc.			Equity	850	189,958	0.039%
JNL S&P 500 Index Fund	Smurfit Westrock Public Limited Company			Equity	4,726	233,559	0.048%
JNL S&P 500 Index Fund	Amazon Holdco Inc.			Equity	1,215	39,184	0.008%
JNL S&P 500 Index Fund	Te Connectivity Public Limited Company			Equity	2,976	449,246	0.092%
Total Non Derivatives							
Derivatives							
JNL S&P 500 Index Fund	S&P 500 Index FUTURE - CASH SETTLED			Derivative	6	37,067	0.008%
Total Derivatives							37,067
Total All Investments							486,292,723

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL Small Cap Index Fund	Cash			Cash Equivalent	1,091,375	1,091,375	0.042%
JNL Small Cap Index Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	9,461,072	9,495,391	0.361%
JNL Small Cap Index Fund	California Resources Corporation			Equity	133,903	7,025,890	0.267%
JNL Small Cap Index Fund	Inari Medical, Inc.			Equity	96,757	3,990,259	0.152%
JNL Small Cap Index Fund	XPEL, Inc.			Equity	43,650	1,993,101	0.072%
JNL Small Cap Index Fund	Silene Corporation			Equity	36,099	6,191,339	0.235%
JNL Small Cap Index Fund	PROG Holdings, Inc.			Equity	81,688	3,961,051	0.151%
JNL Small Cap Index Fund	Cetara, Inc.			Equity	211,454	2,476,126	0.094%
JNL Small Cap Index Fund	Stride, Inc.			Equity	81,901	6,986,974	0.269%
JNL Small Cap Index Fund	Centerspace			Equity	29,433	2,096,218	0.080%
JNL Small Cap Index Fund	AdaptHealth LLC			Equity	202,936	2,278,971	0.087%
JNL Small Cap Index Fund	Comstock Resources, Inc.			Equity	175,576	1,954,161	0.074%
JNL Small Cap Index Fund	Liberty Energy Inc.			Equity	318,196	6,074,362	0.231%
JNL Small Cap Index Fund	Lumen Technologies Inc.			Equity	1,961,148	13,924,153	0.530%
JNL Small Cap Index Fund	Dime Community Bancshares, Inc.			Equity	65,988	1,900,450	0.072%
JNL Small Cap Index Fund	Alpha Metallurgical Resources, Inc.			Equity	21,092	4,981,509	0.189%
JNL Small Cap Index Fund	CarGurus, Inc.			Equity	167,952	5,043,599	0.192%
JNL Small Cap Index Fund	SiriusPoint Ltd.			Equity	187,301	2,695,898	0.102%
JNL Small Cap Index Fund	ADMA Biologics, Inc.			Equity	448,508	8,965,675	0.341%
JNL Small Cap Index Fund	Leslie's, Inc.			Equity	349,599	1,104,733	0.042%
JNL Small Cap Index Fund	Academy Sports & Outdoors, Inc.			Equity	139,130	8,135,879	0.309%
JNL Small Cap Index Fund	MP Materials Corp.			Equity	234,952	4,146,903	0.158%
JNL Small Cap Index Fund	DigitalOcean Holdings, Inc.			Equity	121,871	4,922,370	0.187%
JNL Small Cap Index Fund	VR BioTechnology, Inc.			Equity	172,883	1,294,931	0.049%
JNL Small Cap Index Fund	Corsair Gaming, Inc.			Equity	83,562	581,592	0.022%
JNL Small Cap Index Fund	StepStone Group Inc.			Equity	120,786	4,864,268	0.261%
JNL Small Cap Index Fund	Privia Health Group Inc.			Equity	198,464	3,614,029	0.137%
JNL Small Cap Index Fund	IAC Inc.			Equity	136,418	7,342,017	0.279%
JNL Small Cap Index Fund	Trustco Bank Corp N Y			Equity	39,643	1,192,368	0.045%
JNL Small Cap Index Fund	Ongion & Co.			Equity	489,954	9,372,620	0.360%
JNL Small Cap Index Fund	Mara Holdings, Inc.			Equity	567,846	9,210,465	0.350%
JNL Small Cap Index Fund	Hayward Holdings, Inc.			Equity	272,528	4,180,580	0.159%
JNL Small Cap Index Fund	Sun Country Airlines Holdings, Inc.			Equity	77,489	868,652	0.033%
JNL Small Cap Index Fund	Sprinklr, Inc.			Equity	232,135	1,794,404	0.068%
JNL Small Cap Index Fund	Clear Secure, Inc.			Equity	177,441	5,880,100	0.226%
JNL Small Cap Index Fund	Phillips Edison & Company, Inc.			Equity	236,086	8,928,071	0.340%
JNL Small Cap Index Fund	N-Able, Inc.			Equity	139,069	1,764,001	0.067%
JNL Small Cap Index Fund	SolarWinds Corporation			Equity	105,613	1,378,250	0.052%
JNL Small Cap Index Fund	Bath & Body Works, Inc.			Equity	412,925	3,186,567	0.121%
JNL Small Cap Index Fund	Victoria's Secret & Co.			Equity	151,029	3,881,445	0.148%
JNL Small Cap Index Fund	Jackson Financial Inc.			Equity	144,821	13,212,020	0.502%
JNL Small Cap Index Fund	Essential Properties Realty Trust, Inc.			Equity	338,730	11,665,861	0.444%
JNL Small Cap Index Fund	Thryv Holdings, Inc.			Equity	66,531	1,146,528	0.044%
JNL Small Cap Index Fund	Axos Financial, Inc.			Equity	104,147	6,548,763	0.249%
JNL Small Cap Index Fund	Sylvamo Corporation			Equity	66,441	5,703,960	0.217%
JNL Small Cap Index Fund	Wolfspeed, Inc.			Equity	241,750	2,344,975	0.089%
JNL Small Cap Index Fund	Zum Ekey Water Solutions Corporation			Equity	274,563	9,887,784	0.375%
JNL Small Cap Index Fund	Franklin BSP Realty Trust, Inc.			Equity	150,052	2,016,475	0.077%
JNL Small Cap Index Fund	Hammy Biosciences Holdings Inc.			Equity	58,279	2,331,160	0.089%
JNL Small Cap Index Fund	Cleary Energy, Inc.			Equity	67,943	1,934,337	0.074%
JNL Small Cap Index Fund	Cleareway Energy, Inc.			Equity	158,659	4,867,658	0.185%
JNL Small Cap Index Fund	Hertz Global Holdings, Inc.			Equity	238,607	787,403	0.030%
JNL Small Cap Index Fund	Payoneer Global Inc.			Equity	488,412	3,677,742	0.140%
JNL Small Cap Index Fund	DoubleVerify Holdings, Inc.			Equity	272,339	4,586,189	0.174%
JNL Small Cap Index Fund	Cytek Biosciences, Inc.			Equity	205,415	1,137,999	0.043%
JNL Small Cap Index Fund	Master Car Wash, Inc.			Equity	174,460	1,435,626	0.043%
JNL Small Cap Index Fund	SL Green Realty Corp.			Equity	125,099	8,739,416	0.332%
JNL Small Cap Index Fund	Embrex Corp.			Equity	111,051	1,565,819	0.060%
JNL Small Cap Index Fund	QuidelOrtho Corporation			Equity	111,364	5,078,498	0.193%
JNL Small Cap Index Fund	Frontier, Inc.			Equity	147,637	7,085,567	0.269%
JNL Small Cap Index Fund	SPX Technologies, Inc.			Equity	88,398	14,095,945	0.536%
JNL Small Cap Index Fund	Northwest Natural Holding Company			Equity	74,429	3,038,192	0.116%
JNL Small Cap Index Fund	Ready Capital Corporation			Equity	320,667	2,526,856	0.096%
JNL Small Cap Index Fund	LiveFamp Holdings, Inc.			Equity	128,606	3,186,567	0.121%
JNL Small Cap Index Fund	Adela Inc.			Equity	210,457	2,506,543	0.095%
JNL Small Cap Index Fund	Stellar Bancorp, Inc.			Equity	92,410	2,392,495	0.091%
JNL Small Cap Index Fund	RXO Inc.			Equity	264,518	7,406,504	0.282%
JNL Small Cap Index Fund	OmnAB, Inc.			Equity	16,358	0	0.000%
JNL Small Cap Index Fund	OmnAB, Inc.			Equity	16,358	0	0.000%
JNL Small Cap Index Fund	Two Harbors Investment Corp.			Equity	198,318	2,752,654	0.105%
JNL Small Cap Index Fund	Masterbrand, Inc.			Equity	245,249	4,546,916	0.173%
JNL Small Cap Index Fund	Mr. Cooper Group Inc.			Equity	124,290	4,469,270	0.169%
JNL Small Cap Index Fund	Resideo Technologies, Inc.			Equity	282,680	5,693,175	0.217%
JNL Small Cap Index Fund	Vericor Corporation			Equity	94,710	4,001,498	0.152%
JNL Small Cap Index Fund	Acrossa, Inc.			Equity	92,885	8,801,783	0.335%
JNL Small Cap Index Fund	Tandem Diabetes Care, Inc.			Equity	126,293	4,656,086	0.176%
JNL Small Cap Index Fund	Group 1 Automotive, Inc.			Equity	25,243	9,669,079	0.368%
JNL Small Cap Index Fund	Simulations Plus, Inc.			Equity	31,911	1,021,790	0.039%
JNL Small Cap Index Fund	Matson Corporation			Equity	39,029	4,365,784	0.166%
JNL Small Cap Index Fund	Brady Corporation			Equity	84,717	6,491,894	0.247%
JNL Small Cap Index Fund	Benchmark Electronics, Inc.			Equity	69,668	1,099,529	0.018%
JNL Small Cap Index Fund	REX American Resources Corporation			Equity	29,821	1,380,414	0.052%
JNL Small Cap Index Fund	Barnes Group Inc.			Equity	85,159	3,441,275	0.131%
JNL Small Cap Index Fund	Apogee Enterprises, Inc.			Equity	40,827	2,858,502	0.109%
JNL Small Cap Index Fund	BandFirst Corporation			Equity	37,481	3,962,117	0.151%
JNL Small Cap Index Fund	Alamo Group Inc.			Equity	20,033	3,608,544	0.137%
JNL Small Cap Index Fund	National HealthCare Corporation			Equity	23,883	3,018,334	0.115%
JNL Small Cap Index Fund	Alaska Air Group, Inc.			Equity	243,224	10,996,157	0.418%
JNL Small Cap Index Fund	Helix Energy Solutions Group, Inc.			Equity	276,584	3,086,584	0.117%
JNL Small Cap Index Fund	Albany International Corp.			Equity	58,827	5,243,259	0.199%
JNL Small Cap Index Fund	Mercury Systems, Inc.			Equity	97,539	3,608,943	0.137%
JNL Small Cap Index Fund	ABM Industries Incorporated			Equity	120,929	6,380,214	0.243%
JNL Small Cap Index Fund	Balchem Corporation			Equity	62,592	11,016,192	0.419%
JNL Small Cap Index Fund	Oel Systems, Inc.			Equity	30,562	4,640,228	0.176%
JNL Small Cap Index Fund	AAR Corp.			Equity	67,729	4,426,767	0.168%
JNL Small Cap Index Fund	Astec Industries, Inc.			Equity	43,989	1,405,009	0.053%
JNL Small Cap Index Fund	American Eagle Outfitters, Inc.			Equity	344,682	7,117,430	0.269%
JNL Small Cap Index Fund	American Woodmark Corporation			Equity	30,130	2,815,649	0.107%
JNL Small Cap Index Fund	AZZ Inc.			Equity	56,090	4,633,595	0.176%
JNL Small Cap Index Fund	Del Monte Fresh Produce Company			Equity	63,845	1,885,981	0.072%
JNL Small Cap Index Fund	Robert Half Inc.			Equity	197,266	13,907,701	0.506%
JNL Small Cap Index Fund	Bank of Hawaii Corporation			Equity	76,559	4,805,608	0.183%
JNL Small Cap Index Fund	Advanced Energy Industries, Inc.			Equity	71,513	7,526,028	0.286%
JNL Small Cap Index Fund	Sonic Automotive, Inc.			Equity	28,212	1,658,963	0.063%
JNL Small Cap Index Fund	ProSmart, Inc.			Equity	46,572	4,457,938	0.170%
JNL Small Cap Index Fund	Badger Meter, Inc.			Equity	56,722	12,388,652	0.471%
JNL Small Cap Index Fund	The Buckle, Inc.			Equity	57,555	2,330,693	0.090%
JNL Small Cap Index Fund	Ameris Bancorp			Equity	124,723	7,800,176	0.297%
JNL Small Cap Index Fund	Dai International Inc.			Equity	69,695	1,918,703	0.073%
JNL Small Cap Index Fund	Cracker Barrel Old Country Store, Inc.			Equity	43,015	1,950,730	0.074%
JNL Small Cap Index Fund	Cheesecake Factory Incorporated, The			Equity	90,161	3,656,029	0.139%
JNL Small Cap Index Fund	Hilltop Holdings Inc.			Equity	88,600	2,849,376	0.108%
JNL Small Cap Index Fund	USANA Health Sciences, Inc.			Equity	21,859	828,893	0.032%
JNL Small Cap Index Fund	Extreme Networks, Inc.			Equity	251,750	3,763,803	0.144%
JNL Small Cap Index Fund	Insteel Industries, Inc.			Equity	37,429	1,163,668	0.044%
JNL Small Cap Index Fund	Chesapeake Utilities Corporation			Equity	42,298	5,280,595	0.201%
JNL Small Cap Index Fund	MarneMax, Inc.			Equity	38,117	1,344,387	0.051%
JNL Small Cap Index Fund	Community Financial System, Inc.			Equity	101,342	5,933,665	0.226%
JNL Small Cap Index Fund	American States Water Company			Equity	72,144	6,008,874	0.229%
JNL Small Cap Index Fund	Unifirst Corporation			Equity	28,994	5,759,658	0.219%
JNL Small Cap Index Fund	Horace Mann Educators Corporation			Equity	78,536	2,744,833	0.104%
JNL Small Cap Index Fund	Brinker International, Inc.			Equity	85,765	6,563,672	0.250%
JNL Small Cap Index Fund	Envin Corporation			Equity	154,987	1,602,566	0.061%
JNL Small Cap Index Fund	California Water Service Group			Equity	113,260	6,140,957	0.234%
JNL Small Cap Index Fund	G-III Apparel Group, Ltd.			Equity	76,468	2,333,803	0.089%
JNL Small Cap Index Fund	Dioxes Incorporated			Equity	97,399	3,601,405	0.136%
JNL Small Cap Index Fund	Griffon Corporation			Equity	78,449	5,491,430	0.209%
JNL Small Cap Index Fund	CVB Financial Corp.			Equity	253,359	4,565,529	0.174%
JNL Small Cap Index Fund	Central Garden & Pet Company			Equity	16,706	609,268	0.023%
JNL Small Cap Index Fund	CONMED Corporation			Equity	59,482	4,280,205	0.163%
JNL Small Cap Index Fund	InterDigital, Inc.			Equity	48,642	6,888,166	0.262%
JNL Small Cap Index Fund	World Kinect Corporation			Equity	113,849	3,538,427	0.135%
JNL Small Cap Index Fund	The Greenbrier Companies, Inc.			Equity	60,085	3,057,726	0.116%
JNL Small Cap Index Fund	First Bancorp			Equity	79,744	3,334,097	0.127%
JNL Small Cap Index Fund	Trustmark Corporation			Equity	117,926	1,752,405	0.043%
JNL Small Cap Index Fund	Piper Sandler Companies			Equity	30,523	8,662,733	0.329%
JNL Small Cap Index Fund	Itron, Inc.			Equity	85,522	9,134,605	0.347%
JNL Small Cap Index Fund	Deluxe Corporation			Equity	84,077	1,656,202	0.063%
JNL Small Cap Index Fund	Gillette Industries, Inc.			Equity	58,940	4,121,674	0.157%
JNL Small Cap Index Fund	J&J Snack Foods Corp.			Equity	29,969	5,182,580	0.197%
JNL Small Cap Index Fund	American Axle & Manufacturing Holdings, Inc.			Equity	224,611	1,388,096	0.053%
JNL Small Cap Index Fund	PC Connection, Inc.			Equity	23,620	1,781,657	0.068%
JNL Small Cap Index Fund	ICU Medical, Inc.			Equity	47,033	8,570,263	0.326%
JNL Small Cap Index Fund	HNI Corporation			Equity	90,905	4,894,325	0.186%
JNL Small Cap Index Fund	Perficient, Inc.			Equity	67,774	5,115,582	0.195%
JNL Small Cap Index Fund	City Holding Company			Equity	28,496	3,345,145	0.127%
JNL Small Cap Index Fund	Federal Signal Corporation			Equity	117,906	11,019,495	0.419%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Small Cap Index Fund	Hawkins, Inc.			Equity	36,694	4,677,384	0.178%
JNL Small Cap Index Fund	Banner Corporation			Equity	64,569	2,945,780	0.146%
JNL Small Cap Index Fund	NetScout Systems, Inc.			Equity	137,851	2,998,259	0.14%
JNL Small Cap Index Fund	Provident Financial Services, Inc.			Equity	251,962	4,676,415	0.178%
JNL Small Cap Index Fund	Cohn, Inc.			Equity	86,237	2,216,291	0.084%
JNL Small Cap Index Fund	Hedrick & Struggles International, Inc.			Equity	39,931	1,551,719	0.059%
JNL Small Cap Index Fund	Sealed Air Corporation			Equity	280,841	10,194,528	0.388%
JNL Small Cap Index Fund	DXP Enterprises, Inc.			Equity	24,599	1,312,603	0.050%
JNL Small Cap Index Fund	Arivion, Inc.			Equity	73,067	1,945,044	0.074%
JNL Small Cap Index Fund	Century Aluminum Company			Equity	99,441	1,613,927	0.061%
JNL Small Cap Index Fund	Healthcare Services Group, Inc.			Equity	141,914	1,588,179	0.060%
JNL Small Cap Index Fund	EZCORP, Inc.			Equity	101,186	1,134,295	0.043%
JNL Small Cap Index Fund	Heartland Express, Inc.			Equity	84,352	1,037,530	0.039%
JNL Small Cap Index Fund	Guests 7, Inc.			Equity	52,934	1,065,561	0.041%
JNL Small Cap Index Fund	First Financial Bancorp.			Equity	184,296	2,649,788	0.177%
JNL Small Cap Index Fund	Encore Capital Group, Inc.			Equity	45,832	2,166,479	0.082%
JNL Small Cap Index Fund	Ethan Allen Interiors Inc.			Equity	44,533	1,420,157	0.054%
JNL Small Cap Index Fund	Franklin Electric Co., Inc.			Equity	74,676	7,827,538	0.298%
JNL Small Cap Index Fund	Hub Group, Inc.			Equity	118,826	5,000,842	0.205%
JNL Small Cap Index Fund	Pathward Financial, Inc.			Equity	48,196	3,183,998	0.121%
JNL Small Cap Index Fund	Helen of Troy Limited			Equity	43,822	2,710,391	0.103%
JNL Small Cap Index Fund	CorVel Corporation			Equity	17,517	5,726,132	0.218%
JNL Small Cap Index Fund	The Andersons, Inc.			Equity	62,097	3,113,544	0.118%
JNL Small Cap Index Fund	Carpenter Technology Corporation			Equity	96,337	15,373,458	0.585%
JNL Small Cap Index Fund	Independent Bank Corp.			Equity	82,091	4,900,833	0.186%
JNL Small Cap Index Fund	Cal-Maine Foods, Inc.			Equity	78,411	5,868,279	0.223%
JNL Small Cap Index Fund	Fulton Financial Corporation			Equity	350,366	6,352,138	0.242%
JNL Small Cap Index Fund	H.B. Fuller Company			Equity	105,005	8,335,297	0.317%
JNL Small Cap Index Fund	Granite Construction Incorporated			Equity	84,255	6,690,690	0.254%
JNL Small Cap Index Fund	B.J's Restaurants, Inc.			Equity	44,172	1,438,240	0.055%
JNL Small Cap Index Fund	General Pacific Financial Corp.			Equity	50,057	1,508,790	0.057%
JNL Small Cap Index Fund	Innospec Inc.			Equity	49,161	5,446,527	0.207%
JNL Small Cap Index Fund	First Commonwealth Financial Corporation			Equity	196,312	3,366,751	0.128%
JNL Small Cap Index Fund	Radian Group Inc.			Equity	289,787	10,052,711	0.382%
JNL Small Cap Index Fund	Heimerich & Payne, Inc.			Equity	190,717	5,801,611	0.221%
JNL Small Cap Index Fund	CTS Corporation			Equity	98,594	3,603,065	0.138%
JNL Small Cap Index Fund	Integra LifeSciences Holdings Corporation			Equity	128,825	2,340,750	0.089%
JNL Small Cap Index Fund	ESCO Technologies Inc.			Equity	49,668	6,406,179	0.244%
JNL Small Cap Index Fund	First Bancorp.			Equity	313,653	6,640,034	0.253%
JNL Small Cap Index Fund	CSC Systems International, Inc.			Equity	54,458	2,649,788	0.101%
JNL Small Cap Index Fund	Korn Ferry			Equity	101,692	7,689,727	0.292%
JNL Small Cap Index Fund	Cathay General Bancorp			Equity	136,451	5,860,570	0.223%
JNL Small Cap Index Fund	Jack in the Box Inc.			Equity	37,037	1,723,702	0.066%
JNL Small Cap Index Fund	Topgolf Callaway Brands Corp.			Equity	273,294	3,000,768	0.114%
JNL Small Cap Index Fund	Comerica Incorporated			Equity	253,594	15,382,498	0.585%
JNL Small Cap Index Fund	Dycem Industries, Inc.			Equity	56,117	11,060,661	0.421%
JNL Small Cap Index Fund	The St. Joe Company			Equity	72,854	4,248,117	0.162%
JNL Small Cap Index Fund	The Han Celestial Group, Inc.			Equity	169,669	1,455,613	0.055%
JNL Small Cap Index Fund	TTM Technologies, Inc.			Equity	196,525	3,586,581	0.136%
JNL Small Cap Index Fund	Otter Tail Corporation			Equity	80,675	6,305,558	0.240%
JNL Small Cap Index Fund	Minerals Technologies Inc.			Equity	62,051	4,792,199	0.182%
JNL Small Cap Index Fund	Patrick Industries, Inc.			Equity	42,965	4,115,403	0.232%
JNL Small Cap Index Fund	Leggett & Platt, Incorporated			Equity	259,129	3,542,908	0.135%
JNL Small Cap Index Fund	Eagle Bancorp, Inc.			Equity	57,952	1,308,556	0.050%
JNL Small Cap Index Fund	Mesa Laboratories, Inc.			Equity	10,203	1,324,962	0.050%
JNL Small Cap Index Fund	Myriad Genetics, Inc.			Equity	175,275	4,800,762	0.183%
JNL Small Cap Index Fund	Kulicke and Soffa Industries, Inc.			Equity	102,395	4,642,910	0.177%
JNL Small Cap Index Fund	Lakeland Financial Corporation			Equity	49,395	3,216,602	0.122%
JNL Small Cap Index Fund	Dorman Products, Inc.			Equity	52,588	5,948,755	0.226%
JNL Small Cap Index Fund	WisdomTree, Inc.			Equity	231,413	2,311,616	0.088%
JNL Small Cap Index Fund	La-Z-Boy Incorporated			Equity	81,087	3,413,942	0.132%
JNL Small Cap Index Fund	Southside Bancshares, Inc.			Equity	55,312	1,849,080	0.070%
JNL Small Cap Index Fund	Powell Industries, Inc.			Equity	17,880	3,969,181	0.151%
JNL Small Cap Index Fund	Healthstream, Inc.			Equity	42,840	1,235,506	0.047%
JNL Small Cap Index Fund	Forward Air Corporation			Equity	37,117	3,193,942	0.121%
JNL Small Cap Index Fund	NBT Bancorp Inc.			Equity	91,039	4,026,655	0.153%
JNL Small Cap Index Fund	Kohl's Corporation			Equity	214,563	4,527,279	0.172%
JNL Small Cap Index Fund	Oxford Industries, Inc.			Equity	28,053	2,433,878	0.093%
JNL Small Cap Index Fund	MGE Energy, Inc.			Equity	69,882	6,090,708	0.231%
JNL Small Cap Index Fund	Aglysys, Inc.			Equity	42,837	4,667,948	0.178%
JNL Small Cap Index Fund	Plexus Corp.			Equity	52,505	7,177,959	0.273%
JNL Small Cap Index Fund	Owens & Minor, Inc.			Equity	142,692	2,238,837	0.085%
JNL Small Cap Index Fund	Upbound Group, Inc.			Equity	93,182	2,980,892	0.112%
JNL Small Cap Index Fund	Magnolia Oil & Gas Corporation			Equity	361,920	8,838,086	0.339%
JNL Small Cap Index Fund	ATI Inc.			Equity	240,101	16,065,158	0.611%
JNL Small Cap Index Fund	Merit Medical Systems, Inc.			Equity	110,878	10,958,073	0.417%
JNL Small Cap Index Fund	SM Energy Company			Equity	217,771	7,004,249	0.231%
JNL Small Cap Index Fund	ProAssurance Corporation			Equity	96,353	1,449,149	0.055%
JNL Small Cap Index Fund	Monarch Casino & Resort, Inc.			Equity	24,593	1,949,487	0.074%
JNL Small Cap Index Fund	Berkshire Hills Bancorp, Inc.			Equity	81,150	2,199,977	0.084%
JNL Small Cap Index Fund	Bread Financial Payments, Inc.			Equity	95,850	4,560,543	0.173%
JNL Small Cap Index Fund	Mercury General Corporation			Equity	51,232	3,226,591	0.123%
JNL Small Cap Index Fund	Quaker Chemical Corporation			Equity	26,622	4,485,541	0.171%
JNL Small Cap Index Fund	Pitney Bowes Inc.			Equity	297,621	2,122,038	0.081%
JNL Small Cap Index Fund	Monro, Inc.			Equity	57,812	1,668,454	0.063%
JNL Small Cap Index Fund	PEKO Entertainment, Inc.			Equity	298,582	5,442,657	0.207%
JNL Small Cap Index Fund	Inter Parfums, Inc.			Equity	34,609	4,481,173	0.170%
JNL Small Cap Index Fund	Patterson-UTI Energy, Inc.			Equity	687,596	5,260,109	0.200%
JNL Small Cap Index Fund	Pediatric Medical Group, Inc.			Equity	159,610	1,849,880	0.070%
JNL Small Cap Index Fund	McO's Inc.			Equity	54,863	11,093,423	0.421%
JNL Small Cap Index Fund	S & T Bancorp, Inc.			Equity	71,308	2,992,797	0.114%
JNL Small Cap Index Fund	National Presto Industries, Inc.			Equity	10,053	755,382	0.029%
JNL Small Cap Index Fund	Patterson Companies, Inc.			Equity	151,296	3,304,305	0.126%
JNL Small Cap Index Fund	Cosmeceutics International, Inc.			Equity	199,102	1,960,476	0.075%
JNL Small Cap Index Fund	Steven Madden, Ltd.			Equity	139,815	6,849,537	0.260%
JNL Small Cap Index Fund	Renasant Corporation			Equity	121,580	3,951,350	0.150%
JNL Small Cap Index Fund	Shenandoah Telecommunications Company			Equity	89,059	1,256,622	0.048%
JNL Small Cap Index Fund	Preferred Bank			Equity	23,905	3,918,378	0.149%
JNL Small Cap Index Fund	Harmonic, Inc.			Equity	224,414	3,269,712	0.124%
JNL Small Cap Index Fund	Neogenomics, Inc.			Equity	247,454	3,649,947	0.139%
JNL Small Cap Index Fund	National Beverage Corp.			Equity	45,029	2,113,661	0.080%
JNL Small Cap Index Fund	Heritage Financial Corporation			Equity	67,030	4,469,243	0.055%
JNL Small Cap Index Fund	Phonics, Inc.			Equity	122,729	3,027,628	0.115%
JNL Small Cap Index Fund	Scholastic Corporation			Equity	48,489	1,552,133	0.059%
JNL Small Cap Index Fund	Park National Corporation			Equity	28,100	4,720,238	0.180%
JNL Small Cap Index Fund	MCR Voyts Corporation			Equity	280,439	3,805,557	0.145%
JNL Small Cap Index Fund	Progress Software Corporation			Equity	82,392	5,954,749	0.211%
JNL Small Cap Index Fund	Pacific Premier Bancorp, Inc.			Equity	186,302	4,687,358	0.178%
JNL Small Cap Index Fund	ePlus Inc.			Equity	51,329	5,047,694	0.192%
JNL Small Cap Index Fund	MATV Holdings, Inc.			Equity	98,966	1,681,432	0.064%
JNL Small Cap Index Fund	Ligand Pharmaceuticals Incorporated			Equity	35,083	3,511,457	0.134%
JNL Small Cap Index Fund	Newell Brands Inc.			Equity	801,320	6,154,138	0.234%
JNL Small Cap Index Fund	RPC, Inc.			Equity	157,932	1,004,448	0.038%
JNL Small Cap Index Fund	Papa John's International, Inc.			Equity	62,947	3,390,955	0.129%
JNL Small Cap Index Fund	ScanSource, Inc.			Equity	44,110	2,116,603	0.081%
JNL Small Cap Index Fund	PDF Solutions, Inc.			Equity	59,758	1,893,133	0.072%
JNL Small Cap Index Fund	Myers Industries, Inc.			Equity	72,469	1,011,305	0.038%
JNL Small Cap Index Fund	Lincoln National Corporation			Equity	324,393	10,221,623	0.389%
JNL Small Cap Index Fund	Heritage Homes Corporation			Equity	70,088	14,072,946	0.547%
JNL Small Cap Index Fund	Mathews International Corporation			Equity	58,169	1,349,521	0.051%
JNL Small Cap Index Fund	Vector Group Ltd.			Equity	260,327	3,884,079	0.148%
JNL Small Cap Index Fund	Middlesex Water Company			Equity	34,679	2,262,459	0.086%
JNL Small Cap Index Fund	Inspire Medical Systems, Inc.			Equity	57,435	1,212,657	0.045%
JNL Small Cap Index Fund	exp World Holdings, Inc.			Equity	162,746	2,293,091	0.087%
JNL Small Cap Index Fund	Cushman & Wakefield PLC			Equity	440,495	6,003,947	0.228%
JNL Small Cap Index Fund	Acus Biosciences, Inc.			Equity	103,875	1,588,249	0.060%
JNL Small Cap Index Fund	Astrana Health, Inc.			Equity	71,980	4,118,161	0.159%
JNL Small Cap Index Fund	Ario Technologies, Inc.			Equity	185,075	2,241,258	0.085%
JNL Small Cap Index Fund	Sonos, Inc.			Equity	233,687	2,872,013	0.109%
JNL Small Cap Index Fund	Lindsay Corporation			Equity	21,039	2,622,301	0.100%
JNL Small Cap Index Fund	Kelly Services, Inc.			Equity	63,589	1,361,291	0.052%
JNL Small Cap Index Fund	Marten Transport, Ltd.			Equity	110,444	1,954,668	0.074%
JNL Small Cap Index Fund	Insight Enterprises, Inc.			Equity	54,059	11,643,768	0.443%
JNL Small Cap Index Fund	Millerknoll, Inc.			Equity	134,805	3,365,161	0.128%
JNL Small Cap Index Fund	Mueller Industries, Inc.			Equity	216,728	16,059,545	0.611%
JNL Small Cap Index Fund	MI Homes, Inc.			Equity	92,959	9,075,054	0.345%
JNL Small Cap Index Fund	Rogers Corporation			Equity	32,469	3,669,322	0.140%
JNL Small Cap Index Fund	Kennametal Inc.			Equity	150,417	3,900,313	0.148%
JNL Small Cap Index Fund	John B. Sanfilippo & Son, Inc.			Equity	17,361	1,637,316	0.062%
JNL Small Cap Index Fund	Standard Motor Products, Inc.			Equity	38,251	1,269,933	0.048%
JNL Small Cap Index Fund	Winn-Dixie Stores, Inc.			Equity	55,921	3,249,569	0.124%
JNL Small Cap Index Fund	Advance Auto Parts, Inc.			Equity	114,954	4,482,056	0.170%
JNL Small Cap Index Fund	ACI Worldwide, Inc.			Equity	199,282	10,143,454	0.386%
JNL Small Cap Index Fund	Wrabash National Corporation			Equity	85,182	1,634,163	0.062%
JNL Small Cap Index Fund	Cross Country Healthcare, Inc.			Equity	58,891	791,495	0.030%
JNL Small Cap Index Fund	Titan International, Inc.			Equity	96,360	783,407	0.030%
JNL Small Cap Index Fund	Stapan Company			Equity	40,828	3,153,963	0.120%
JNL Small Cap Index Fund	VestAmerica Bancorporation			Equity	51,690	2,554,520	0.097%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Small Cap Index Fund	U. S. Physical Therapy, Inc.			Equity	29,144	2,466,457	0.094%
JNL Small Cap Index Fund	UFP Technologies, Inc.			Equity	13,696	4,337,522	0.165%
JNL Small Cap Index Fund	Cavco Industries, Inc.			Equity	15,810	6,770,474	0.257%
JNL Small Cap Index Fund	WD-40 Company			Equity	26,127	6,737,631	0.256%
JNL Small Cap Index Fund	Trinity Industries, Inc.			Equity	158,984	5,539,003	0.211%
JNL Small Cap Index Fund	Omnivest, Inc.			Equity	88,742	3,869,151	0.147%
JNL Small Cap Index Fund	Avista Corporation			Equity	150,746	5,841,408	0.222%
JNL Small Cap Index Fund	Enpro Inc.			Equity	39,743	6,445,520	0.245%
JNL Small Cap Index Fund	Urban Outfitters, Inc.			Equity	109,764	4,205,059	0.160%
JNL Small Cap Index Fund	Tompkins Financial Corporation			Equity	22,649	1,308,886	0.050%
JNL Small Cap Index Fund	Toddle Roll Industries, Inc.			Equity	31,936	1,944,028	0.074%
JNL Small Cap Index Fund	Sturm, Ruger & Company, Inc.			Equity	32,576	1,357,768	0.052%
JNL Small Cap Index Fund	STAAR Surgical Company			Equity	94,920	3,526,278	0.134%
JNL Small Cap Index Fund	Brookline Bancorp, Inc.			Equity	168,112	1,696,250	0.065%
JNL Small Cap Index Fund	Wolverine World Wide, Inc.			Equity	154,484	2,691,111	0.102%
JNL Small Cap Index Fund	Standex International Corporation			Equity	22,220	4,061,372	0.154%
JNL Small Cap Index Fund	AMN Healthcare Services, Inc.			Equity	73,316	3,107,865	0.118%
JNL Small Cap Index Fund	Simmons First National Corporation			Equity	242,668	5,279,892	0.201%
JNL Small Cap Index Fund	Asbury Automotive Group, Inc.			Equity	38,571	9,202,655	0.350%
JNL Small Cap Index Fund	ViaSat, Inc.			Equity	162,341	1,938,352	0.074%
JNL Small Cap Index Fund	JetBlue Airways Corporation			Equity	575,885	3,777,806	0.144%
JNL Small Cap Index Fund	WSPFS Financial Corporation			Equity	112,292	5,725,769	0.218%
JNL Small Cap Index Fund	WAFO, Inc.			Equity	154,481	5,383,663	0.205%
JNL Small Cap Index Fund	Stewart Information Services Corporation			Equity	53,483	3,997,319	0.152%
JNL Small Cap Index Fund	United Natural Foods, Inc.			Equity	108,874	1,831,261	0.070%
JNL Small Cap Index Fund	United Community Banks, Inc.			Equity	226,021	6,630,229	0.252%
JNL Small Cap Index Fund	CEVA Inc.			Equity	46,240	1,116,698	0.042%
JNL Small Cap Index Fund	Foot Locker, Inc.			Equity	158,863	4,105,020	0.156%
JNL Small Cap Index Fund	Vicor Corporation			Equity	44,026	1,853,495	0.070%
JNL Small Cap Index Fund	World Acceptance Corporation			Equity	6,449	760,853	0.029%
JNL Small Cap Index Fund	V.F. Corporation			Equity	638,064	12,729,377	0.484%
JNL Small Cap Index Fund	Universal Corporation			Equity	47,249	2,568,384	0.095%
JNL Small Cap Index Fund	Shoe Carnival, Inc.			Equity	33,916	1,487,217	0.057%
JNL Small Cap Index Fund	SJW Group			Equity	56,921	3,307,679	0.126%
JNL Small Cap Index Fund	Unitil Corporation			Equity	31,730	1,922,203	0.073%
JNL Small Cap Index Fund	Triumph Group Inc.			Equity	150,863	1,993,625	0.076%
JNL Small Cap Index Fund	Veeco Instruments Inc.			Equity	109,500	3,627,735	0.138%
JNL Small Cap Index Fund	John Wiley & Sons, Inc.			Equity	79,637	3,842,485	0.146%
JNL Small Cap Index Fund	Safety Insurance Group, Inc.			Equity	28,785	2,354,037	0.090%
JNL Small Cap Index Fund	Semtech Corporation			Equity	144,579	4,901,477	0.251%
JNL Small Cap Index Fund	Formfactor, Inc.			Equity	146,518	6,739,828	0.256%
JNL Small Cap Index Fund	Rush Enterprises, Inc.			Equity	119,377	6,306,687	0.240%
JNL Small Cap Index Fund	SkyWest, Inc.			Equity	77,343	6,575,702	0.250%
JNL Small Cap Index Fund	Wiener Enterprises, Inc.			Equity	119,064	4,594,680	0.175%
JNL Small Cap Index Fund	Sensient Technologies Corporation			Equity	81,690	6,553,172	0.249%
JNL Small Cap Index Fund	Worthington Industries, Inc.			Equity	60,666	2,514,606	0.096%
JNL Small Cap Index Fund	Tennant Company			Equity	36,533	3,508,629	0.133%
JNL Small Cap Index Fund	Haynes International, Inc.			Equity	24,232	1,442,773	0.055%
JNL Small Cap Index Fund	B&G Foods, Inc.			Equity	153,020	1,387,891	0.053%
JNL Small Cap Index Fund	Assured Guaranty Ltd.			Equity	93,864	7,464,065	0.284%
JNL Small Cap Index Fund	Viad Corp.			Equity	41,222	1,476,984	0.056%
JNL Small Cap Index Fund	Cohen & Steers, Inc.			Equity	51,712	4,963,766	0.189%
JNL Small Cap Index Fund	Concept Therapeutics Incorporated			Equity	179,371	8,301,290	0.316%
JNL Small Cap Index Fund	Gemworth Financial, Inc.			Equity	834,275	5,714,784	0.217%
JNL Small Cap Index Fund	The Bancorp, Inc.			Equity	94,490	5,055,215	0.192%
JNL Small Cap Index Fund	Ultra Clean Holdings, Inc.			Equity	87,068	3,476,625	0.132%
JNL Small Cap Index Fund	Cinemark Holdings, Inc.			Equity	205,973	5,324,288	0.218%
JNL Small Cap Index Fund	Employers Holdings, Inc.			Equity	47,838	2,294,789	0.087%
JNL Small Cap Index Fund	Koppers Holdings Inc.			Equity	39,752	1,452,141	0.055%
JNL Small Cap Index Fund	Treehouse Foods, Inc.			Equity	90,073	3,761,265	0.144%
JNL Small Cap Index Fund	Central Garden & Pet Company			Equity	89,525	1,983,825	0.076%
JNL Small Cap Index Fund	Kennedy-Wilson Holdings, Inc.			Equity	228,791	2,555,595	0.097%
JNL Small Cap Index Fund	TechTarget, Inc.			Equity	50,121	1,225,458	0.047%
JNL Small Cap Index Fund	AeroVironment, Inc.			Equity	54,037	10,834,419	0.412%
JNL Small Cap Index Fund	LeMaitre Vascular, Inc.			Equity	38,342	1,901,588	0.073%
JNL Small Cap Index Fund	Cogent Communications Holdings, Inc.			Equity	79,762	6,065,531	0.230%
JNL Small Cap Index Fund	CVR Energy, Inc.			Equity	65,066	1,498,470	0.057%
JNL Small Cap Index Fund	Dana Incorporated			Equity	250,570	2,646,019	0.101%
JNL Small Cap Index Fund	EchoStar Corporation			Equity	228,269	4,665,637	0.175%
JNL Small Cap Index Fund	Armstrong World Industries, Inc.			Equity	84,297	11,079,155	0.421%
JNL Small Cap Index Fund	Allegiant Travel Company			Equity	27,646	1,522,189	0.058%
JNL Small Cap Index Fund	Kaiser Aluminum Corporation			Equity	30,420	2,206,058	0.084%
JNL Small Cap Index Fund	Liquidity Services, Inc.			Equity	43,929	1,903,581	0.073%
JNL Small Cap Index Fund	RadNet, Inc.			Equity	123,843	8,593,466	0.327%
JNL Small Cap Index Fund	Sally Beauty Holdings, Inc.			Equity	198,173	2,689,208	0.102%
JNL Small Cap Index Fund	Consolidated Communications Holdings, Inc.			Equity	142,658	661,933	0.025%
JNL Small Cap Index Fund	Green Plains Inc.			Equity	125,435	1,698,290	0.065%
JNL Small Cap Index Fund	Hanesbrands Inc.			Equity	678,587	4,987,614	0.190%
JNL Small Cap Index Fund	Prestige Consumer Healthcare Inc.			Equity	95,485	6,884,469	0.262%
JNL Small Cap Index Fund	Amerisafe, Inc.			Equity	36,931	1,784,875	0.068%
JNL Small Cap Index Fund	Maxlinear, Inc.			Equity	147,502	2,135,829	0.081%
JNL Small Cap Index Fund	Walker & Dunlop, Inc.			Equity	60,778	6,903,773	0.263%
JNL Small Cap Index Fund	BankUnited, Inc.			Equity	144,162	5,253,263	0.200%
JNL Small Cap Index Fund	John Bean Technologies Corporation			Equity	61,423	6,050,780	0.230%
JNL Small Cap Index Fund	SunCoke Energy, Inc.			Equity	157,981	1,371,275	0.052%
JNL Small Cap Index Fund	TripleAdvisor, Inc.			Equity	210,574	3,051,217	0.116%
JNL Small Cap Index Fund	Hanmi Financial Corporation			Equity	59,244	1,101,938	0.042%
JNL Small Cap Index Fund	Capitol Federal Financial			Equity	236,740	1,382,562	0.053%
JNL Small Cap Index Fund	Openlane, Inc.			Equity	208,579	3,526,814	0.134%
JNL Small Cap Index Fund	Superius Pharmaceuticals, Inc.			Equity	106,362	1,510,492	0.057%
JNL Small Cap Index Fund	Customers Bancorp, Inc.			Equity	56,477	2,623,357	0.100%
JNL Small Cap Index Fund	Signet Jewellers Limited			Equity	86,031	8,873,237	0.337%
JNL Small Cap Index Fund	Adidas HomeCare Corporation			Equity	34,483	4,587,273	0.174%
JNL Small Cap Index Fund	Select Medical Holdings Corporation			Equity	203,216	6,086,142	0.230%
JNL Small Cap Index Fund	Hillendbrand, Inc.			Equity	135,671	3,771,654	0.143%
JNL Small Cap Index Fund	Ziff Davis, Inc.			Equity	85,630	4,166,756	0.158%
JNL Small Cap Index Fund	MGP Processing, Inc.			Equity	27,334	2,275,556	0.087%
JNL Small Cap Index Fund	Cleanwater Paper Corporation			Equity	93,333	951,234	0.036%
JNL Small Cap Index Fund	Yelp Inc.			Equity	129,081	4,528,161	0.172%
JNL Small Cap Index Fund	Telephone and Data Systems, Inc.			Equity	188,140	4,374,255	0.166%
JNL Small Cap Index Fund	QuinStreet, Inc.			Equity	108,150	2,068,910	0.079%
JNL Small Cap Index Fund	SPS Commerce, Inc.			Equity	71,577	13,698,106	0.529%
JNL Small Cap Index Fund	Innovwood Pharmaceuticals, Inc.			Equity	269,258	1,109,343	0.042%
JNL Small Cap Index Fund	MYR Group Inc.			Equity	31,894	3,260,524	0.124%
JNL Small Cap Index Fund	Pacira Pharmaceuticals, Inc.			Equity	89,710	1,350,136	0.051%
JNL Small Cap Index Fund	EVERTEC, Inc.			Equity	123,673	4,191,278	0.159%
JNL Small Cap Index Fund	Calix, Inc.			Equity	113,070	4,385,985	0.167%
JNL Small Cap Index Fund	The Chef's Warehouse, Inc.			Equity	66,977	2,813,704	0.107%
JNL Small Cap Index Fund	Northwest Bancshares, Inc.			Equity	243,702	3,260,733	0.124%
JNL Small Cap Index Fund	Alpha and Omega Semiconductor Limited			Equity	45,796	1,699,948	0.065%
JNL Small Cap Index Fund	Prote Labs, Inc.			Equity	48,379	1,420,891	0.054%
JNL Small Cap Index Fund	United Fire Group, Inc.			Equity	42,147	882,137	0.034%
JNL Small Cap Index Fund	Virtus Investment Partners, Inc.			Equity	12,886	2,698,973	0.103%
JNL Small Cap Index Fund	Envestnet, Inc.			Equity	96,858	6,065,248	0.231%
JNL Small Cap Index Fund	Alkermes Public Limited Company			Equity	317,781	8,894,680	0.338%
JNL Small Cap Index Fund	Air Lease Corporation			Equity	197,167	8,973,490	0.341%
JNL Small Cap Index Fund	Quanex Building Products Corporation			Equity	89,869	2,493,865	0.095%
JNL Small Cap Index Fund	Green Dot Corporation			Equity	102,731	1,202,980	0.046%
JNL Small Cap Index Fund	Gogo, Inc.			Equity	112,553	898,131	0.033%
JNL Small Cap Index Fund	HCI Group, Inc.			Equity	16,178	1,732,017	0.066%
JNL Small Cap Index Fund	Ichor Holdings, Ltd.			Equity	64,783	2,060,747	0.078%
JNL Small Cap Index Fund	Axcelis Technologies, Inc.			Equity	61,726	6,471,971	0.246%
JNL Small Cap Index Fund	Fox Factory Holding Corp.			Equity	80,603	3,345,025	0.127%
JNL Small Cap Index Fund	TG Therapeutics, Inc.			Equity	256,726	6,004,821	0.228%
JNL Small Cap Index Fund	Ingevity Corporation			Equity	67,369	2,627,391	0.100%
JNL Small Cap Index Fund	Shutterstock, Inc.			Equity	46,484	1,644,139	0.063%
JNL Small Cap Index Fund	OPX Bancorp			Equity	89,956	12,863,313	0.493%
JNL Small Cap Index Fund	Integer Holdings Corporation			Equity	63,642	8,273,460	0.315%
JNL Small Cap Index Fund	Bloomin' Brands, Inc.			Equity	146,877	2,427,877	0.092%
JNL Small Cap Index Fund	Adient Public Limited Company			Equity	165,641	3,738,517	0.142%
JNL Small Cap Index Fund	Bank of California, Inc.			Equity	285,811	3,943,053	0.150%
JNL Small Cap Index Fund	Ambac Financial Group, Inc.			Equity	87,466	980,484	0.037%
JNL Small Cap Index Fund	Avanos Medical, Inc.			Equity	88,784	2,133,480	0.081%
JNL Small Cap Index Fund	Gentherm Incorporated			Equity	60,629	2,822,280	0.107%
JNL Small Cap Index Fund	Dave & Buster's Entertainment, Inc.			Equity	61,200	2,083,860	0.079%
JNL Small Cap Index Fund	Artisan Partners Asset Management Inc.			Equity	134,850	5,841,820	0.222%
JNL Small Cap Index Fund	First Hawaiian, Inc.			Equity	246,758	5,712,448	0.217%
JNL Small Cap Index Fund	Interface, Inc.			Equity	112,364	2,131,545	0.081%
JNL Small Cap Index Fund	Gales Industrial Corporation PLC			Equity	434,392	7,623,580	0.290%
JNL Small Cap Index Fund	Idenstar, Inc.			Equity	93,183	6,689,608	0.254%
JNL Small Cap Index Fund	Innoviva, Inc.			Equity	106,070	2,048,212	0.078%
JNL Small Cap Index Fund	National Bank Holdings Corporation			Equity	73,013	3,073,847	0.117%
JNL Small Cap Index Fund	TRI Pointe Homes Holdings, Inc.			Equity	180,708	8,187,879	0.311%
JNL Small Cap Index Fund	Chuy's Holdings, Inc.			Equity	32,679	1,222,679	0.046%
JNL Small Cap Index Fund	Sammina Corporation			Equity	105,390	7,213,946	0.274%
JNL Small Cap Index Fund	Boise Cascade Company			Equity	74,194	10,459,870	0.398%
JNL Small Cap Index Fund	Matson Intermodal - Parazon, Inc.			Equity	64,759	9,235,929	0.351%
JNL Small Cap Index Fund	Independent Bank Group, Inc.			Equity	69,577	4,011,810	0.153%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Small Cap Index Fund	ANI Pharmaceuticals, Inc.			Equity	31,782	1,896,114	0.072%
JNL Small Cap Index Fund	Blackline, Inc.			Equity	89,544	5,488,866	0.209%
JNL Small Cap Index Fund	Peabody Energy Corporation			Equity	242,115	6,425,732	0.244%
JNL Small Cap Index Fund	Premier Healthcare Solutions, Inc.			Equity	201,812	4,036,240	0.153%
JNL Small Cap Index Fund	NMI Holdings, Inc.			Equity	153,882	6,338,400	0.241%
JNL Small Cap Index Fund	Cactus, Inc.			Equity	126,158	1,527,908	0.268%
JNL Small Cap Index Fund	Par Pacific Holdings, Inc.			Equity	109,110	1,920,338	0.073%
JNL Small Cap Index Fund	Xencor, Inc.			Equity	118,333	2,379,677	0.090%
JNL Small Cap Index Fund	Metallus Inc.			Equity	71,980	1,067,463	0.041%
JNL Small Cap Index Fund	Arctrest Corporation			Equity	45,630	4,948,574	0.188%
JNL Small Cap Index Fund	Trupanion, Inc.			Equity	64,395	2,103,302	0.103%
JNL Small Cap Index Fund	PJT Partners Inc.			Equity	45,604	6,080,837	0.231%
JNL Small Cap Index Fund	CONSOL Energy Inc.			Equity	51,592	5,399,103	0.205%
JNL Small Cap Index Fund	Sabre Corporation			Equity	734,496	2,695,600	0.103%
JNL Small Cap Index Fund	AIO Networks, Inc.			Equity	142,404	2,098,314	0.078%
JNL Small Cap Index Fund	Warrior Met Coal, Inc.			Equity	100,899	6,447,446	0.245%
JNL Small Cap Index Fund	Dorian LPG Ltd.			Equity	69,637	2,396,906	0.091%
JNL Small Cap Index Fund	Simply Good Foods Company, The			Equity	175,705	6,109,263	0.232%
JNL Small Cap Index Fund	Seacoast Banking Corporation of Florida			Equity	163,439	4,355,649	0.166%
JNL Small Cap Index Fund	Navient Corporation			Equity	152,287	2,374,154	0.090%
JNL Small Cap Index Fund	ServisFirst Bancshares, Inc.			Equity	96,752	7,783,698	0.296%
JNL Small Cap Index Fund	DNOW Inc.			Equity	205,368	2,655,408	0.101%
JNL Small Cap Index Fund	Moe's & Company			Equity	133,872	9,171,571	0.349%
JNL Small Cap Index Fund	Phibro Animal Health Corporation			Equity	40,219	905,732	0.034%
JNL Small Cap Index Fund	LGI Homes, Inc.			Equity	40,028	4,744,119	0.180%
JNL Small Cap Index Fund	NVS Global, Inc.			Equity	29,126	2,348,778	0.089%
JNL Small Cap Index Fund	Amphastar Pharmaceuticals, Inc.			Equity	73,240	3,554,237	0.135%
JNL Small Cap Index Fund	Spartanash Company			Equity	64,980	1,470,335	0.056%
JNL Small Cap Index Fund	Installed Building Products, Inc.			Equity	44,954	11,070,822	0.421%
JNL Small Cap Index Fund	Century Communities, Inc.			Equity	52,320	5,387,914	0.205%
JNL Small Cap Index Fund	Marcus & Millichap Company			Equity	46,050	1,838,659	0.070%
JNL Small Cap Index Fund	Shares Core S&P Small Cap ETF			Fund	60,849	7,116,889	0.271%
JNL Small Cap Index Fund	Knowles Corporation			Equity	171,168	3,086,159	0.117%
JNL Small Cap Index Fund	Talos Energy Inc.			Equity	228,881	2,368,918	0.090%
JNL Small Cap Index Fund	Sturrun Inc.			Equity	431,112	7,785,883	0.296%
JNL Small Cap Index Fund	Ahor Realty Trust, Inc.			Equity	384,055	5,689,489	0.219%
JNL Small Cap Index Fund	Hope Bancorp, Inc.			Equity	232,459	2,919,685	0.111%
JNL Small Cap Index Fund	SMART Global Holdings, Inc.			Equity	100,198	2,099,148	0.080%
JNL Small Cap Index Fund	Archrock, Inc.			Equity	324,315	6,564,136	0.250%
JNL Small Cap Index Fund	PRA Group, Inc.			Equity	75,869	2,098,434	0.080%
JNL Small Cap Index Fund	Enova International, Inc.			Equity	50,990	4,272,452	0.162%
JNL Small Cap Index Fund	Dynavax Technologies Corporation			Equity	236,415	2,633,663	0.100%
JNL Small Cap Index Fund	Acadia Realty Trust			Equity	203,071	4,806,691	0.183%
JNL Small Cap Index Fund	Caleres, Inc.			Equity	67,615	5,689,489	0.219%
JNL Small Cap Index Fund	TEGNA Inc.			Equity	314,235	4,958,628	0.189%
JNL Small Cap Index Fund	Urban Edge Properties			Equity	231,965	4,961,731	0.189%
JNL Small Cap Index Fund	Shake Shack, Inc.			Equity	77,044	7,951,711	0.302%
JNL Small Cap Index Fund	Sunstone Hotel Investors, Inc.			Equity	392,431	4,085,207	0.155%
JNL Small Cap Index Fund	Regenbio Inc.			Equity	85,969	901,615	0.034%
JNL Small Cap Index Fund	Uniti Group Inc.			Equity	467,445	2,636,390	0.100%
JNL Small Cap Index Fund	Apollo Commercial Real Estate Finance, Inc.			Equity	248,408	2,344,972	0.089%
JNL Small Cap Index Fund	Virtu Financial, Inc.			Equity	158,044	1,814,020	0.138%
JNL Small Cap Index Fund	AdvanSix Inc.			Equity	50,697	1,540,175	0.059%
JNL Small Cap Index Fund	Sphere Entertainment Co.			Equity	32,227	6,711,595	0.255%
JNL Small Cap Index Fund	Golden Entertainment, Inc.			Equity	40,980	1,313,589	0.050%
JNL Small Cap Index Fund	ETSY, Inc.			Equity	211,722	11,756,823	0.447%
JNL Small Cap Index Fund	Vista Outdoor Inc.			Equity	112,558	4,410,023	0.168%
JNL Small Cap Index Fund	Cable One, Inc.			Equity	8,793	3,075,703	0.117%
JNL Small Cap Index Fund	GMS Inc.			Equity	76,545	6,932,681	0.264%
JNL Small Cap Index Fund	SolarEdge Technologies Ltd.			Equity	110,615	2,534,190	0.086%
JNL Small Cap Index Fund	Adialem Global Education Inc.			Equity	72,688	7,298,489	0.278%
JNL Small Cap Index Fund	Getty Realty Corp.			Equity	95,087	3,067,507	0.117%
JNL Small Cap Index Fund	Propetro Holding Corp.			Equity	156,388	1,197,932	0.046%
JNL Small Cap Index Fund	Apple Hospitality REIT, Inc.			Equity	424,096	6,332,444	0.241%
JNL Small Cap Index Fund	DXC Technology Company			Equity	348,750	1,840,420	0.070%
JNL Small Cap Index Fund	Cars.com Inc.			Equity	116,720	1,956,227	0.074%
JNL Small Cap Index Fund	Box, Inc.			Equity	280,419	9,178,114	0.349%
JNL Small Cap Index Fund	Alarm.Com Holdings, Inc.			Equity	95,055	5,196,657	0.199%
JNL Small Cap Index Fund	Schneider National, Inc.			Equity	89,469	9,640,123	0.361%
JNL Small Cap Index Fund	Collegium Pharmaceutical, Inc.			Equity	62,160	2,401,862	0.091%
JNL Small Cap Index Fund	Medical Properties Trust, Inc.			Equity	1,157,607	6,869,784	0.261%
JNL Small Cap Index Fund	Donnelley Financial Solutions, Inc.			Equity	51,393	3,383,201	0.129%
JNL Small Cap Index Fund	Glaucus Corporation			Equity	195,868	1,330,483	0.050%
JNL Small Cap Index Fund	FB Financial Corporation			Equity	67,976	3,190,114	0.121%
JNL Small Cap Index Fund	Energizer Holdings, Inc.			Equity	125,921	3,999,251	0.152%
JNL Small Cap Index Fund	Edgewell Personal Care Colombia S A S			Equity	94,996	3,467,258	0.132%
JNL Small Cap Index Fund	National Vision Holdings, Inc.			Equity	150,394	1,640,789	0.062%
JNL Small Cap Index Fund	CSW Industrials, Inc.			Equity	31,842	11,666,590	0.444%
JNL Small Cap Index Fund	PennyMac Mortgage Investment Trust			Equity	168,111	2,397,263	0.091%
JNL Small Cap Index Fund	Boat Barn Holdings, Inc.			Equity	58,849	9,844,261	0.374%
JNL Small Cap Index Fund	Ventrix Holdings, Inc.			Equity	105,428	2,774,865	0.106%
JNL Small Cap Index Fund	Viaxi Solutions Inc.			Equity	428,956	3,869,183	0.147%
JNL Small Cap Index Fund	LCI Industries			Equity	49,221	5,933,099	0.226%
JNL Small Cap Index Fund	Green Brick Partners, Inc.			Equity	58,767	4,908,220	0.187%
JNL Small Cap Index Fund	Pebblebrook Hotel Trust			Equity	233,240	3,089,098	0.117%
JNL Small Cap Index Fund	Summit Hotel Properties, Inc.			Equity	212,327	1,458,583	0.056%
JNL Small Cap Index Fund	Triumph Financial, Inc.			Equity	41,968	3,338,135	0.127%
JNL Small Cap Index Fund	LTC Properties, Inc.			Equity	83,490	3,063,248	0.116%
JNL Small Cap Index Fund	ELMC Communities			Equity	169,584	3,014,405	0.115%
JNL Small Cap Index Fund	OUTFRONT Media Inc.			Equity	265,261	4,884,024	0.186%
JNL Small Cap Index Fund	Saul Centers, Inc.			Equity	21,578	905,413	0.034%
JNL Small Cap Index Fund	American Assets Trust, Inc.			Equity	87,669	2,342,516	0.089%
JNL Small Cap Index Fund	KKR Real Estate Finance Trust Inc.			Equity	112,902	1,422,565	0.054%
JNL Small Cap Index Fund	Tanger Inc.			Equity	211,098	7,004,030	0.269%
JNL Small Cap Index Fund	Universal Health Realty Income Trust			Equity	23,998	1,097,909	0.042%
JNL Small Cap Index Fund	Brandywine Realty			Equity	332,936	1,811,172	0.069%
JNL Small Cap Index Fund	DiamondRock Alpharetta Tenant, LLC			Equity	386,696	3,387,894	0.129%
JNL Small Cap Index Fund	Redwood Trust, Inc.			Equity	251,567	1,944,613	0.074%
JNL Small Cap Index Fund	JBG Smith Properties			Equity	166,193	2,905,054	0.110%
JNL Small Cap Index Fund	Xenia Hotels & Resorts, Inc.			Equity	196,459	2,925,275	0.111%
JNL Small Cap Index Fund	Vers Residential, Inc.			Equity	155,821	2,793,871	0.106%
JNL Small Cap Index Fund	HA Sustainable Infrastructure Capital, Inc.			Equity	224,732	2,146,512	0.080%
JNL Small Cap Index Fund	Whitestone REIT			Equity	85,583	1,157,938	0.044%
JNL Small Cap Index Fund	CareTrust REIT, Inc.			Equity	296,604	9,239,215	0.351%
JNL Small Cap Index Fund	Hudson Pacific Properties, Inc.			Equity	270,408	1,292,550	0.049%
JNL Small Cap Index Fund	Real Opportunity Investments Corp.			Equity	245,857	3,845,400	0.149%
JNL Small Cap Index Fund	The Macerich Company			Equity	471,331	7,612,117	0.289%
JNL Small Cap Index Fund	Armada Hoffer Properties, Inc.			Equity	130,163	1,436,349	0.055%
JNL Small Cap Index Fund	LXP Industrial Trust			Equity	567,494	5,777,089	0.220%
JNL Small Cap Index Fund	Highwoods Properties, Inc.			Equity	204,622	6,856,883	0.261%
JNL Small Cap Index Fund	Douglas Emmett, Inc.			Equity	323,405	5,143,673	0.218%
JNL Small Cap Index Fund	Blackstone Mortgage Trust, Inc.			Equity	335,529	6,536,105	0.249%
JNL Small Cap Index Fund	Alexander & Baldwin, Inc.			Equity	139,913	2,718,508	0.103%
JNL Small Cap Index Fund	GEO Group, Inc., The			Equity	262,355	3,371,262	0.128%
JNL Small Cap Index Fund	NexPoint Residential Trust, Inc.			Equity	42,897	1,887,897	0.072%
JNL Small Cap Index Fund	Four Corners Property Trust, Inc.			Equity	178,662	5,298,222	0.201%
JNL Small Cap Index Fund	Global Net Lease, Inc.			Equity	378,605	3,187,854	0.121%
JNL Small Cap Index Fund	CoreCivic, Inc.			Equity	212,763	2,691,452	0.102%
JNL Small Cap Index Fund	Easterly Government Properties, Inc.			Equity	187,404	2,844,046	0.097%
JNL Small Cap Index Fund	Protagonist Therapeutics, Inc.			Equity	113,693	5,116,185	0.195%
JNL Small Cap Index Fund	Innovative Industrial Properties, Inc.			Equity	53,831	7,349,776	0.280%
JNL Small Cap Index Fund	Impinj, Inc.			Equity	43,828	9,499,639	0.361%
JNL Small Cap Index Fund	Crosshead Insurance, Inc.			Equity	46,734	1,173,246	0.159%
JNL Small Cap Index Fund	Atlantic Union Bank			Equity	173,191	6,524,105	0.248%
JNL Small Cap Index Fund	Kontor Brands, Inc.			Equity	96,638	7,903,056	0.301%
JNL Small Cap Index Fund	Krysal Biotech, Inc.			Equity	48,776	8,878,695	0.338%
JNL Small Cap Index Fund	Vm Consolidated, Inc.			Equity	317,682	3,036,015	0.368%
JNL Small Cap Index Fund	BrightSphere Investment Group Inc.			Equity	54,085	1,373,759	0.052%
JNL Small Cap Index Fund	Xerox Holdings Corporation			Equity	223,426	2,375,018	0.090%
JNL Small Cap Index Fund	BioLife Solutions, Inc.			Equity	68,345	1,711,359	0.065%
JNL Small Cap Index Fund	Ellington Financial Inc.			Equity	184,865	2,146,542	0.082%
JNL Small Cap Index Fund	Eulgent Genetics, Inc.			Equity	38,333	832,422	0.032%
JNL Small Cap Index Fund	Service Properties Trust			Equity	320,305	1,460,591	0.056%
JNL Small Cap Index Fund	Grocery Outlet Holding Corp.			Equity	189,037	3,317,599	0.126%
JNL Small Cap Index Fund	Pakmar Holdings, Inc.			Equity	50,012	4,734,636	0.180%
JNL Small Cap Index Fund	Catalyst Pharmaceuticals, Inc.			Equity	215,292	2,880,005	0.183%
JNL Small Cap Index Fund	Strategic Education, Inc.			Equity	46,875	4,338,281	0.165%
JNL Small Cap Index Fund	O-I Glass, Inc.			Equity	300,719	3,945,433	0.150%
JNL Small Cap Index Fund	Perdoo Education Corporation			Equity	119,300	2,653,232	0.101%
JNL Small Cap Index Fund	Enerpac Tool Group Corp.			Equity	104,628	4,882,867	0.187%
JNL Small Cap Index Fund	Nabors Industries Ltd.			Equity	17,727	1,142,834	0.043%
JNL Small Cap Index Fund	Arch Resources, Inc.			Equity	34,881	4,819,159	0.183%
JNL Small Cap Index Fund	Prophyty, Inc.			Equity	150,888	2,528,883	0.099%
JNL Small Cap Index Fund	Schrodinger, Inc.			Equity	107,223	1,988,987	0.076%
JNL Small Cap Index Fund	Vital Energy, Inc.			Equity	53,026	1,426,399	0.054%
JNL Small Cap Index Fund	Bristow Holdings U.S. Inc.			Equity	47,129	1,634,905	0.062%
JNL Small Cap Index Fund	The ODP Corporation			Equity	65,036	1,934,821	0.074%
JNL Small Cap Index Fund	StoneX Group Inc.			Equity	53,144	4,351,431	0.165%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL Small Cap Index Fund	TransMedics Group, Inc.			Equity	64,464	10,120,848	0.385%
JNL Small Cap Index Fund	Northern Oil and Gas Incorporated			Equity	191,470	6,860,370	0.251%
JNL Small Cap Index Fund	New York Mortgage Trust, Inc.			Equity	176,952	1,155,497	0.044%
JNL Small Cap Index Fund	Safehold Inc.			Equity	87,299	2,305,305	0.088%
JNL Small Cap Index Fund	Core Laboratories LP			Equity	91,412	1,693,864	0.064%
JNL Small Cap Index Fund	Forreia Holdings Inc.			Equity	173,036	3,460,700	0.132%
JNL Small Cap Index Fund	BGC Group, Inc.			Equity	730,106	6,702,373	0.255%
JNL Small Cap Index Fund	Phinia Inc.			Equity	84,425	3,886,083	0.148%
JNL Small Cap Index Fund	Vestis Corporation			Equity	220,908	3,300,705	0.126%
JNL Small Cap Index Fund	ARMOUR Residential REIT, Inc.			Equity	94,309	1,923,904	0.073%
JNL Small Cap Index Fund	WK Kellogg Co			Equity	127,752	2,185,837	0.083%
JNL Small Cap Index Fund	NCR Atleos Corporation			Equity	139,207	3,971,576	0.151%
JNL Small Cap Index Fund	Worthington Steel, Inc.			Equity	66,103	2,248,163	0.085%
JNL Small Cap Index Fund	Six Flags Entertainment Corporation			Equity	179,568	7,238,386	0.275%
JNL Small Cap Index Fund	SITE Centers Corp.			Equity	90,467	5,673,223	0.208%
JNL Small Cap Index Fund	Innovex International, Inc.			Equity	66,496	976,161	0.037%
Total Non Derivatives						2,629,325,610	
Derivatives							
JNL Small Cap Index Fund	Russell 2000 Index FUTURE - CASH SETTLED			Derivative	118	252,889	0.010%
Total Derivatives						252,889	
Total All Investments						2,629,578,499	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLUT, Rowe Price Balanced Fund	Cash			Cash Equivalent	237,777	237,777	0.043%
JNLUT, Rowe Price Balanced Fund	Chubb INA Holdings Inc.	11/3/2045	4.35	Fixed Income	100,000	94,111	0.017%
JNLUT, Rowe Price Balanced Fund	Banner Health	1/1/2031	1.90	Fixed Income	70,000	61,225	0.011%
JNLUT, Rowe Price Balanced Fund	CommonSpirit Health	10/1/2030	2.78	Fixed Income	75,000	69,214	0.012%
JNLUT, Rowe Price Balanced Fund	JNL Government Money Market Fund			Cash Equivalent	1,809,236	1,817,934	0.338%
JNLUT, Rowe Price Balanced Fund	Ellington Financial Mortgage Trust 2020-2	11/25/2024	1.18	Fixed Income	69,311	62,199	0.011%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	10/15/2025	0.13	Fixed Income	40,000	47,571	0.009%
JNLUT, Rowe Price Balanced Fund	Legacy Vulcan Corp.	6/15/2047	4.50	Fixed Income	100,000	91,255	0.016%
JNLUT, Rowe Price Balanced Fund	JNL, Rowe Price Hospital Finance Authority	6/1/2048	4.92	Fixed Income	300,000	288,750	0.052%
JNLUT, Rowe Price Balanced Fund	Essex Portfolio, L.P.	4/15/2026	3.38	Fixed Income	525,000	524,814	0.095%
JNLUT, Rowe Price Balanced Fund	CMS Energy Corporation	5/15/2026	3.00	Fixed Income	100,000	98,802	0.018%
JNLUT, Rowe Price Balanced Fund	Brimor Operating Partnership LP	3/15/2027	3.90	Fixed Income	275,000	271,007	0.049%
JNLUT, Rowe Price Balanced Fund	Grace Trust	12/1/2030	2.77	Fixed Income	150,000	126,876	0.023%
JNLUT, Rowe Price Balanced Fund	Verizon Communications Inc.	11/20/2040	2.65	Fixed Income	135,000	100,948	0.018%
JNLUT, Rowe Price Balanced Fund	Viatris Inc.			Equity	885	10,275	0.002%
JNLUT, Rowe Price Balanced Fund	Gobierno Federal de los Estados Unidos Mexicanos	5/24/2031	2.66	Fixed Income	200,000	173,797	0.031%
JNLUT, Rowe Price Balanced Fund	Woodside Finance Limited	9/15/2026	3.70	Fixed Income	475,000	467,149	0.084%
JNLUT, Rowe Price Balanced Fund	Abbvie Inc.	11/21/2049	4.25	Fixed Income	195,000	177,468	0.032%
JNLUT, Rowe Price Balanced Fund	TXJ Companies, Inc., The	5/15/2031	1.60	Fixed Income	155,000	132,344	0.024%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	8/20/2050	2.50	Fixed Income	107,784	95,375	0.017%
JNLUT, Rowe Price Balanced Fund	DoorDash, Inc.			Equity	1,886	269,189	0.049%
JNLUT, Rowe Price Balanced Fund	Wahouhou De Pauw			Equity	2,202	58,714	0.011%
JNLUT, Rowe Price Balanced Fund	Arburb, Inc.			Equity	667	84,582	0.015%
JNLUT, Rowe Price Balanced Fund	Starwood Mortgage Residential Trust 2020-INV1	11/25/2055	1.03	Fixed Income	25,474	23,953	0.004%
JNLUT, Rowe Price Balanced Fund	Ascot Resources - Utica, LLC	12/31/2028	8.25	Fixed Income	230,000	238,678	0.043%
JNLUT, Rowe Price Balanced Fund	Community Health Systems, Inc.	12/15/2027	8.00	Fixed Income	335,000	343,973	0.062%
JNLUT, Rowe Price Balanced Fund	SMB Private Education Loan Trust 2016-B	8/15/2025	6.66	Fixed Income	15,622	15,671	0.003%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2046	4.50	Fixed Income	57,761	58,471	0.011%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	419,276	349,376	0.063%
JNLUT, Rowe Price Balanced Fund	Life Time, Inc.	1/15/2026	5.75	Fixed Income	74,000	74,917	0.014%
JNLUT, Rowe Price Balanced Fund	Pioneer Natural Resources Company	11/25/2026	1.13	Fixed Income	115,000	110,856	0.020%
JNLUT, Rowe Price Balanced Fund	CarMax Auto Owner Trust 2021-1	2/1/2025	1.28	Fixed Income	130,000	127,492	0.023%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2047	4.50	Fixed Income	34,230	34,656	0.006%
JNLUT, Rowe Price Balanced Fund	White Cap Parent, LLC	3/15/2026	8.25	Fixed Income	310,000	311,407	0.056%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2051	2.00	Fixed Income	308,743	301,533	0.054%
JNLUT, Rowe Price Balanced Fund	SMB Private Education Loan Trust 2021-A	1/15/2053	1.07	Fixed Income	150,862	136,060	0.025%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2051	2.00	Fixed Income	598,464	508,924	0.092%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2051	1.88	Fixed Income	1,245,000	762,857	0.141%
JNLUT, Rowe Price Balanced Fund	Venus Securitization Trust 2021-1	8/25/2046	0.82	Fixed Income	29,539	29,478	0.004%
JNLUT, Rowe Price Balanced Fund	Crown Castle, Inc.	4/1/2031	2.10	Fixed Income	255,000	220,801	0.040%
JNLUT, Rowe Price Balanced Fund	Chesapeake Energy Corporation			Equity	3,844	316,169	0.057%
JNLUT, Rowe Price Balanced Fund	Uranium Energy Corp.			Equity	5,247	32,584	0.006%
JNLUT, Rowe Price Balanced Fund	Champion Iron Limited			Equity	7,838	40,168	0.007%
JNLUT, Rowe Price Balanced Fund	Champion Iron Limited			Equity	4,773	23,434	0.004%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2041	1.88	Fixed Income	950,000	698,744	0.126%
JNLUT, Rowe Price Balanced Fund	Comstock Resources, Inc.	3/1/2029	6.75	Fixed Income	245,000	240,862	0.043%
JNLUT, Rowe Price Balanced Fund	Sabine Pass Liquefaction, LLC	5/15/2030	4.50	Fixed Income	55,000	55,739	0.010%
JNLUT, Rowe Price Balanced Fund	MWV 2019-2 LLC	10/20/2038	2.22	Fixed Income	17,525	17,067	0.003%
JNLUT, Rowe Price Balanced Fund	Journey Personal Care Corp.	12/31/2024	9.62	Fixed Income	270,900	270,292	0.049%
JNLUT, Rowe Price Balanced Fund	Angel Oak Mortgage Trust 2021-1	2/25/2025	0.91	Fixed Income	85,465	74,137	0.013%
JNLUT, Rowe Price Balanced Fund	Angel Oak Mortgage Trust 2021-1	2/25/2025	1.11	Fixed Income	29,293	21,973	0.004%
JNLUT, Rowe Price Balanced Fund	Bank of America Corporation	3/1/2032	2.65	Fixed Income	250,000	223,445	0.040%
JNLUT, Rowe Price Balanced Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	245,000	247,477	0.045%
JNLUT, Rowe Price Balanced Fund	Microsoft Corporation	3/1/2052	2.92	Fixed Income	100,000	73,330	0.013%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2047	4.50	Fixed Income	94,978	85,798	0.015%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2048	4.50	Fixed Income	63,823	64,315	0.012%
JNLUT, Rowe Price Balanced Fund	MP Materials Corp.			Equity	3,009	53,109	0.010%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	3/20/2051	2.00	Fixed Income	182,789	155,326	0.028%
JNLUT, Rowe Price Balanced Fund	Energy Transfer LP	4/1/2020	6.75	Fixed Income	40,000	40,876	0.007%
JNLUT, Rowe Price Balanced Fund	MHC Commercial Mortgage Trust 2021-MHC	5/15/2026	6.31	Fixed Income	301,895	301,533	0.054%
JNLUT, Rowe Price Balanced Fund	General Motors Financial Company, Inc.	4/10/2028	2.40	Fixed Income	325,000	304,758	0.055%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/15/2054	4.50	Fixed Income	205,000	202,389	0.037%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/15/2051	2.00	Fixed Income	928,882	772,863	0.139%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	8/20/2044	1.34	Fixed Income	21,349	20,478	0.003%
JNLUT, Rowe Price Balanced Fund	Morgan Stanley	4/22/2042	3.22	Fixed Income	300,000	246,121	0.044%
JNLUT, Rowe Price Balanced Fund	Marvell Technology, Inc.			Equity	1,900	137,028	0.025%
JNLUT, Rowe Price Balanced Fund	Palmer Square CLO Ltd	7/1/2034	6.71	Fixed Income	255,000	259,292	0.047%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	4/15/2026	0.13	Fixed Income	50,600	50,080	0.009%
JNLUT, Rowe Price Balanced Fund	Broadstone Net Lease, Inc.			Equity	562	10,813	0.002%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	5/15/2051	2.38	Fixed Income	125,000	89,324	0.016%
JNLUT, Rowe Price Balanced Fund	CCO Holdings, LLC	4/1/2032	4.50	Fixed Income	292,000	257,845	0.047%
JNLUT, Rowe Price Balanced Fund	Angel Oak Mortgage Trust 2020-2	5/25/2025	0.98	Fixed Income	89,055	80,029	0.014%
JNLUT, Rowe Price Balanced Fund	StorageVault Canada Inc.			Equity	8,338	31,892	0.006%
JNLUT, Rowe Price Balanced Fund	Willis North America, Inc.	9/15/2028	4.50	Fixed Income	195,000	195,249	0.035%
JNLUT, Rowe Price Balanced Fund	Morgan Stanley Residential Mortgage Loan Trust 2021-2	1/25/2043	2.50	Fixed Income	69,272	57,800	0.010%
JNLUT, Rowe Price Balanced Fund	Energy Transfer LP	1/1/2020	6.50	Fixed Income	265,000	271,647	0.049%
JNLUT, Rowe Price Balanced Fund	Ellington Financial Mortgage Trust 2021-2	6/25/2066	0.93	Fixed Income	53,329	44,711	0.008%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2051	2.50	Fixed Income	108,604	94,463	0.017%
JNLUT, Rowe Price Balanced Fund	PSMC 2021-2 Trust	4/25/2027	2.50	Fixed Income	177,107	160,777	0.029%
JNLUT, Rowe Price Balanced Fund	KAC Kazalotrom JSC			Equity	1,654	60,366	0.011%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/20/2050	4.00	Fixed Income	226,860	221,184	0.040%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	11/20/2048	5.50	Fixed Income	8,741	9,071	0.002%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	4/20/2048	5.50	Fixed Income	6,492	6,764	0.001%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	9/20/2048	5.50	Fixed Income	111	115	0.000%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	4/20/2048	5.50	Fixed Income	1,741	1,807	0.000%
JNLUT, Rowe Price Balanced Fund	Extended Stay America Trust 2021-ESH	7/15/2038	6.59	Fixed Income	115,835	115,921	0.021%
JNLUT, Rowe Price Balanced Fund	Confluent, Inc.			Equity	2,196	44,754	0.008%
JNLUT, Rowe Price Balanced Fund	Salesforce, Inc.	7/15/2041	2.70	Fixed Income	350,000	266,957	0.048%
JNLUT, Rowe Price Balanced Fund	DNB Bank ASA			Equity	53,751	1,101,341	0.199%
JNLUT, Rowe Price Balanced Fund	Enel Finance International N.V.	7/12/2028	2.13	Fixed Income	200,000	184,683	0.033%
JNLUT, Rowe Price Balanced Fund	Trustees of the California State University	11/1/2041	2.80	Fixed Income	350,000	270,961	0.049%
JNLUT, Rowe Price Balanced Fund	Whvare LLC	8/15/2026	1.40	Fixed Income	320,000	303,949	0.055%
JNLUT, Rowe Price Balanced Fund	Bridgport Group PLC			Equity	78,089	385,210	0.069%
JNLUT, Rowe Price Balanced Fund	Servicemaster Brands L.L.C.	7/30/2028	2.87	Fixed Income	166,511	151,129	0.027%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	6/1/2051	2.50	Fixed Income	81,056	71,338	0.013%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2051	2.50	Fixed Income	105,902	93,204	0.017%
JNLUT, Rowe Price Balanced Fund	Humana Inc.	2/3/2032	2.15	Fixed Income	120,000	101,331	0.018%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2054	5.00	Fixed Income	985,000	984,231	0.178%
JNLUT, Rowe Price Balanced Fund	General Electric Company			Equity	10,091	1,905,786	0.344%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2051	2.50	Fixed Income	124,518	107,721	0.019%
JNLUT, Rowe Price Balanced Fund	Bath & Body Works, Inc.			Equity	567	18,099	0.003%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.50	Fixed Income	153,057	133,654	0.024%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	8/20/2051	2.00	Fixed Income	400,640	340,447	0.061%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	7/20/2051	3.00	Fixed Income	233,463	213,688	0.039%
JNLUT, Rowe Price Balanced Fund	Thermo Fisher Scientific Inc.	10/15/2041	2.80	Fixed Income	155,000	120,361	0.022%
JNLUT, Rowe Price Balanced Fund	HSBC Holdings PLC	8/17/2029	2.21	Fixed Income	200,000	183,529	0.033%
JNLUT, Rowe Price Balanced Fund	Moody's Corporation	8/19/2031	2.00	Fixed Income	310,000	268,235	0.048%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2051	2.00	Fixed Income	1,420,000	918,196	0.166%
JNLUT, Rowe Price Balanced Fund	Neihel Student Loan Trust 2021-C	4/20/2062	1.32	Fixed Income	172,238	159,677	0.029%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2031	1.25	Fixed Income	760,000	650,182	0.117%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	8/20/2051	2.50	Fixed Income	188,369	166,345	0.030%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/15/2054	5.00	Fixed Income	180,000	180,332	0.033%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/31/2026	0.75	Fixed Income	1,800,000	1,799,689	0.325%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2041	1.75	Fixed Income	615,000	437,256	0.078%
JNLUT, Rowe Price Balanced Fund	Marriott International, Inc.	12/1/2028	4.65	Fixed Income	305,000	312,689	0.056%
JNLUT, Rowe Price Balanced Fund	Amphenol Corporation	9/15/2031	2.20	Fixed Income	90,000	77,939	0.014%
JNLUT, Rowe Price Balanced Fund	Waste Connections, Inc.	1/15/2032	2.20	Fixed Income	145,000	125,172	0.023%
JNLUT, Rowe Price Balanced Fund	Revvity, Inc.	9/15/2028	1.90	Fixed Income	210,000	191,403	0.035%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	7/20/2051	2.00	Fixed Income	181,031	154,115	0.028%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	9/20/2051	2.50	Fixed Income	109,893	97,044	0.018%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	4/20/2051	2.50	Fixed Income	117,124	103,503	0.019%
JNLUT, Rowe Price Balanced Fund	Hyundai Capital America	9/17/2026	1.65	Fixed Income	245,000	232,583	0.042%
JNLUT, Rowe Price Balanced Fund	Northam Platinum Limited			Equity	9,665	60,984	0.011%
JNLUT, Rowe Price Balanced Fund	Essential Properties Realty Trust, Inc.			Equity	700	24,108	0.004%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	10/20/2051	2.50	Fixed Income	967,064	853,995	0.154%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.50	Fixed Income	323,772	282,721	0.051%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2051	2.50	Fixed Income	302,520	263,697	0.048%
JNLUT, Rowe Price Balanced Fund	Nationwide Building Society	10/1/2026	1.50	Fixed Income	380,000	362,788	0.065%
JNLUT, Rowe Price Balanced Fund	Central Texas Regional Mobility Authority	1/1/2041	3.17	Fixed Income	300,000	249,014	0.045%
JNLUT, Rowe Price Balanced Fund	BX Trust 2021-LGCV	10/15/2036	6.65	Fixed Income	295,000	289,920	0.052%
JNLUT, Rowe Price Balanced Fund	Weatherford International Ltd	4/30/2030	4.63	Fixed Income	236,000	232,848	0.043%
JNLUT, Rowe Price Balanced Fund	Carnival Corporation	5/1/2029	6.00	Fixed Income	230,000	236,501	0.043%
JNLUT, Rowe Price Balanced Fund	Pilbara Minerals Limited			Equity	160,507	378,820	0.068%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	10/15/2026	0.13	Fixed Income	251,800	281,855	0.051%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/15/2054	5.50	Fixed Income	670,000	676,489	0.122%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.50	Fixed Income	305,624	267,070	0.048%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	10/20/2051	3.00	Fixed Income	126,723	108,418	0

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT, Rowe Price Balanced Fund	Canadian Pacific Kansas City Limited	12/22/2026	1.75	Fixed Income	105,000	100,497	0.018%
JNLUT, Rowe Price Balanced Fund	Definity Financial Corporation			Equity	324,651	324,651	0.059%
JNLUT, Rowe Price Balanced Fund	Digital Core REIT Management Pte. Ltd.			Equity	30,200	18,610	0.003%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	171,112	143,066	0.026%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	12/1/2051	2.00	Fixed Income	342,046	285,984	0.052%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	12/20/2051	2.50	Fixed Income	298,946	283,900	0.049%
JNLUT, Rowe Price Balanced Fund	Provident Funding Mortgage Loan Trust	11/25/2036	3.19	Fixed Income	228,517	197,388	0.036%
JNLUT, Rowe Price Balanced Fund	Carvana Auto Receivables Trust 2021-P4	4/10/2027	2.33	Fixed Income	200,000	186,657	0.034%
JNLUT, Rowe Price Balanced Fund	Apollo Global Management, Inc.			Equity	562	70,199	0.013%
JNLUT, Rowe Price Balanced Fund	Federal Realty Investment Trust			Equity	193	22,189	0.004%
JNLUT, Rowe Price Balanced Fund	Santander Holdings USA, Inc.	1/6/2028	2.49	Fixed Income	190,000	191,181	0.033%
JNLUT, Rowe Price Balanced Fund	CNO Global Funding	1/6/2029	2.65	Fixed Income	445,000	410,342	0.074%
JNLUT, Rowe Price Balanced Fund	Santander UK Group Holdings PLC	1/11/2028	2.47	Fixed Income	200,000	191,640	0.035%
JNLUT, Rowe Price Balanced Fund	Simon Property Group, L.P.	2/1/2032	2.65	Fixed Income	350,000	310,131	0.056%
JNLUT, Rowe Price Balanced Fund	Gobierno Federal de los Estados Unidos Mexicanos	2/10/2034	3.50	Fixed Income	360,000	308,904	0.056%
JNLUT, Rowe Price Balanced Fund	Standard Chartered PLC	1/12/2028	2.61	Fixed Income	200,000	191,779	0.035%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2052	2.50	Fixed Income	401,235	350,871	0.063%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	260,390	227,705	0.041%
JNLUT, Rowe Price Balanced Fund	Brookfield Properties Retail Holding LLC	4/1/2027	4.50	Fixed Income	227,000	225,925	0.041%
JNLUT, Rowe Price Balanced Fund	Government of the Republic of Panama	1/19/2033	3.30	Fixed Income	350,000	294,571	0.053%
JNLUT, Rowe Price Balanced Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2022-OPO	1/6/2027	3.38	Fixed Income	100,000	86,137	0.016%
JNLUT, Rowe Price Balanced Fund	TPG Inc.			Equity	600	34,536	0.006%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	1/20/2052	2.00	Fixed Income	401,438	340,811	0.062%
JNLUT, Rowe Price Balanced Fund	SL Green Realty Corp.			Equity	214	14,950	0.003%
JNLUT, Rowe Price Balanced Fund	Naked Juice LLC	1/25/2030	11.43	Fixed Income	159,377	96,764	0.017%
JNLUT, Rowe Price Balanced Fund	ERO Copper Corp.	2/15/2030	6.50	Fixed Income	255,000	255,823	0.046%
JNLUT, Rowe Price Balanced Fund	Shell PLC			Equity	7,489	243,049	0.044%
JNLUT, Rowe Price Balanced Fund	Shell PLC			Equity	14,528	968,122	0.173%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	11/20/2051	2.50	Fixed Income	238,341	210,399	0.038%
JNLUT, Rowe Price Balanced Fund	Constellation Energy Group, Inc.			Equity	3,358	873,147	0.158%
JNLUT, Rowe Price Balanced Fund	McKee Corp.	2/15/2030	7.38	Fixed Income	250,000	246,281	0.044%
JNLUT, Rowe Price Balanced Fund	SWAY Commercial Mortgage Trust 2022-26BW	2/1/2032	3.40	Fixed Income	215,000	172,415	0.031%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	2/1/2052	2.50	Fixed Income	132,173	114,343	0.021%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	3/1/2052	2.00	Fixed Income	1,298,428	1,077,498	0.194%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	12/20/2052	2.50	Fixed Income	236,952	209,174	0.038%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2047	3.13	Fixed Income	231,129	252,945	0.045%
JNLUT, Rowe Price Balanced Fund	BIG Commercial Mortgage Trust 2022-BIG	2/15/2039	6.44	Fixed Income	354,674	351,200	0.063%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2050	2.00	Fixed Income	1,684,075	1,404,368	0.253%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	9/1/2042	2.00	Fixed Income	286,415	249,317	0.045%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/1/2052	1.88	Fixed Income	175,000	3,054,097	0.513%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	3/1/2042	2.50	Fixed Income	212,247	191,309	0.035%
JNLUT, Rowe Price Balanced Fund	New Residential Mortgage Loan Trust 2022-INV1	7/25/2043	3.00	Fixed Income	181,971	158,194	0.029%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2035	3.00	Fixed Income	100,309	96,939	0.017%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2047	3.50	Fixed Income	160,778	154,007	0.028%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2044	5.00	Fixed Income	60,255	62,183	0.011%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2052	3.50	Fixed Income	187,446	175,446	0.032%
JNLUT, Rowe Price Balanced Fund	Boardwalk Real Estate Investment Trust			Equity	892	56,576	0.010%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	3/20/2052	2.00	Fixed Income	158,112	134,233	0.024%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	360,724	313,867	0.057%
JNLUT, Rowe Price Balanced Fund	COMM 2015-CRC23 Mortgage Trust	4/11/2025	3.80	Fixed Income	330,000	326,676	0.059%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	4/1/2037	2.50	Fixed Income	41,042	38,574	0.007%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2042	2.00	Fixed Income	347,959	302,889	0.054%
JNLUT, Rowe Price Balanced Fund	Danlmeir Trucks Finance North America LLC	4/7/2027	3.65	Fixed Income	230,000	230,638	0.042%
JNLUT, Rowe Price Balanced Fund	ESAB Corporation			Equity	311	33,087	0.006%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2042	1.50	Fixed Income	229,208	193,222	0.035%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2051	5.00	Fixed Income	47,112	47,112	0.009%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2050	3.00	Fixed Income	181,375	165,574	0.030%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2042	3.00	Fixed Income	120,556	113,559	0.020%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.00	Fixed Income	115,113	96,246	0.017%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2048	3.50	Fixed Income	148,923	142,012	0.026%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/1/2052	2.80	Fixed Income	225,800	252,946	0.046%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	325,893	271,154	0.049%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/20/2050	3.50	Fixed Income	110,000	97,082	0.018%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.50	Fixed Income	484,672	402,425	0.073%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2052	2.50	Fixed Income	52,557	478,537	0.086%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	2/1/2051	2.00	Fixed Income	392,047	326,687	0.059%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.50	Fixed Income	394,727	343,947	0.062%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.50	Fixed Income	263,967	230,750	0.042%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	99,683	83,685	0.015%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	189,207	158,846	0.029%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2037	2.50	Fixed Income	304,564	286,631	0.052%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2052	2.00	Fixed Income	48,474	40,696	0.007%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	195,577	168,521	0.030%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	231,034	193,167	0.035%
JNLUT, Rowe Price Balanced Fund	NXP B.V.	5/1/2027	3.15	Fixed Income	35,000	34,506	0.006%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2047	4.00	Fixed Income	222,109	217,020	0.039%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2042	4.00	Fixed Income	34,983	34,021	0.006%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	6/1/2037	4.00	Fixed Income	16,427	16,397	0.003%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.00	Fixed Income	112,473	93,336	0.017%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II			Equity	162,200	137,983	0.025%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	6/20/2052	4.00	Fixed Income	475,695	434,695	0.078%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.50	Fixed Income	282,100	278,483	0.050%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.00	Fixed Income	267,088	222,227	0.040%
JNLUT, Rowe Price Balanced Fund	Cornerstone Building Brands, Inc.	8/1/2028	8.75	Fixed Income	230,000	237,175	0.043%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	7/15/2032	0.63	Fixed Income	900	914	0.000%
JNLUT, Rowe Price Balanced Fund	Tata Steel Limited			Equity	26,018	56,626	0.010%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	7/31/2027	2.75	Fixed Income	275,000	270,130	0.049%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2052	4.00	Fixed Income	318,125	306,859	0.055%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.50	Fixed Income	122,426	120,847	0.022%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2052	2.50	Fixed Income	25,181	22,108	0.004%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	37,976	38,306	0.007%
JNLUT, Rowe Price Balanced Fund	Capricorn Metals Limited			Equity	22,383	88,880	0.016%
JNLUT, Rowe Price Balanced Fund	Perman Resources Corporation			Equity	5,310	45,049	0.008%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2052	2.00	Fixed Income	388,663	322,613	0.058%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2037	1.50	Fixed Income	500,943	447,517	0.081%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.00	Fixed Income	66,507	64,152	0.012%
JNLUT, Rowe Price Balanced Fund	Corebridge Financial, Inc.			Equity	15,859	462,448	0.083%
JNLUT, Rowe Price Balanced Fund	Annaly Capital Management, Inc.			Equity	16,400	338,223	0.061%
JNLUT, Rowe Price Balanced Fund	Dr. Ing. h.c. F. Porsche Aktiengesellschaft			Equity	5,649	451,035	0.081%
JNLUT, Rowe Price Balanced Fund	Noble Corporation PLC			Equity	1,051	37,983	0.007%
JNLUT, Rowe Price Balanced Fund	Altecian Corporation			Equity	885	140,547	0.025%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	9/30/2027	4.13	Fixed Income	1,380,000	1,402,150	0.252%
JNLUT, Rowe Price Balanced Fund	Prologis, L.P.	9/15/2028	4.00	Fixed Income	410,000	409,553	0.074%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	10/20/2052	4.00	Fixed Income	425,065	412,703	0.074%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	10/20/2052	4.50	Fixed Income	270,573	268,360	0.048%
JNLUT, Rowe Price Balanced Fund	Carnival Holdings (Bernhard) Limited	5/1/2028	10.38	Fixed Income	225,000	252,556	0.046%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	9/25/2032	3.71	Fixed Income	515,000	510,983	0.091%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	10/31/2027	4.13	Fixed Income	3,225,000	3,332,069	0.601%
JNLUT, Rowe Price Balanced Fund	DSH Network Corporation	11/15/2027	11.75	Fixed Income	222,000	242,680	0.044%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	11/15/2052	4.00	Fixed Income	585,000	578,117	0.104%
JNLUT, Rowe Price Balanced Fund	Open Text Corporation	12/1/2027	6.90	Fixed Income	240,000	258,187	0.047%
JNLUT, Rowe Price Balanced Fund	Sabre GLBL, Inc.	12/15/2027	11.25	Fixed Income	370,000	396,667	0.072%
JNLUT, Rowe Price Balanced Fund	Adriatic Metals PLC			Equity	17,446	42,288	0.008%
JNLUT, Rowe Price Balanced Fund	Santander Bank, N.A.	12/15/2032	6.45	Fixed Income	86,836	87,522	0.016%
JNLUT, Rowe Price Balanced Fund	Brookfield Corporation			Equity	12,421	659,892	0.119%
JNLUT, Rowe Price Balanced Fund	GE HealthCare Technologies Inc.			Equity	3,326	312,145	0.056%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae II	5/20/2037	1.50	Fixed Income	138,781	124,284	0.022%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2037	2.00	Fixed Income	434,556	398,338	0.072%
JNLUT, Rowe Price Balanced Fund	NCL Corporation Ltd.	9/1/2028	8.38	Fixed Income	130,000	244,769	0.044%
JNLUT, Rowe Price Balanced Fund	PRA Group, Inc.	2/1/2028	8.38	Fixed Income	245,000	257,624	0.046%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2052	2.50	Fixed Income	410,317	355,992	0.064%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	7/15/2028	0.75	Fixed Income	64,100	78,692	0.014%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	9/20/2046	3.00	Fixed Income	46,217	42,217	0.008%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	5/20/2048	5.50	Fixed Income	55,599	57,927	0.010%
JNLUT, Rowe Price Balanced Fund	MongoDB, Inc.			Equity	817	220,876	0.040%
JNLUT, Rowe Price Balanced Fund	Northwell Health, Inc.	11/1/2046	3.98	Fixed Income	175,000	148,960	0.027%
JNLUT, Rowe Price Balanced Fund	Providence St. Joseph Health	10/1/2048	3.93	Fixed Income	560,000	456,050	0.082%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	3/20/2046	3.50	Fixed Income	81,823	78,054	0.014%
JNLUT, Rowe Price Balanced Fund	Stanford Health Care	11/15/2048	3.80	Fixed Income	150,000	128,791	0.023%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	5/20/2046	3.00	Fixed Income	10,786	9,979	0.002%
JNLUT, Rowe Price Balanced Fund	CVS Health Corporation	3/25/2048	5.05	Fixed Income	475,000	434,048	0.078%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	5/20/2046	3.50	Fixed Income	3,143	2,103	0.001%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	6/20/2046	3.50	Fixed Income	113,795	108,482	0.020%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	7/20/2046	3.00	Fixed Income	6,231	5,750	0.001%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	7/20/2046	3.50	Fixed Income	3,259	3,107	0.001%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	9/20/2046	3.00	Fixed Income	195,887	190,747	0.033%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/20/2046	3.50	Fixed Income	415	396	0.000%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	11/20/2046	3.50	Fixed Income	25,063	23,885	0.004%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	12/20/2046	3.00				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Balanced Fund	Rio Tinto PLC			Equity	1,841	130,754	0.024%
JNLUT Rowe Price Balanced Fund	Diageo PLC			Equity	19,216	647,231	0.17%
JNLUT Rowe Price Balanced Fund	Verizon Communications Inc.			Equity	1,296	58,203	0.011%
JNLUT Rowe Price Balanced Fund	Mettler-Toledo International Inc.			Equity	90	134,973	0.024%
JNLUT Rowe Price Balanced Fund	Valero Energy Corporation			Equity	1,374	185,531	0.033%
JNLUT Rowe Price Balanced Fund	Pedex Corporation			Equity	2,178	589,285	0.168%
JNLUT Rowe Price Balanced Fund	Balf Corporation			Equity	2,347	159,385	0.029%
JNLUT Rowe Price Balanced Fund	Comcast Corporation			Equity	28,064	1,172,233	0.212%
JNLUT Rowe Price Balanced Fund	International Business Machines Corporation			Equity	793	175,316	0.032%
JNLUT Rowe Price Balanced Fund	Ashland Group Public Limited Company			Equity	3,341	259,047	0.047%
JNLUT Rowe Price Balanced Fund	CCC Public Limited Company			Equity	6,311	438,112	0.078%
JNLUT Rowe Price Balanced Fund	Adobe Inc.			Equity	743	384,711	0.069%
JNLUT Rowe Price Balanced Fund	Ameren Corporation			Equity	12,077	1,056,254	0.191%
JNLUT Rowe Price Balanced Fund	Analog Devices, Inc.			Equity	3,524	811,119	0.146%
JNLUT Rowe Price Balanced Fund	Boeing Company, The			Equity	1,881	266,987	0.052%
JNLUT Rowe Price Balanced Fund	Berkshire Hathaway Inc.			Equity	8,701	4,004,722	0.723%
JNLUT Rowe Price Balanced Fund	Autodesk, Inc.			Equity	577	158,952	0.029%
JNLUT Rowe Price Balanced Fund	Bristol-Myers Squibb Company			Equity	11,110	574,831	0.104%
JNLUT Rowe Price Balanced Fund	Advanced Micro Devices, Inc.			Equity	10,298	1,689,696	0.305%
JNLUT Rowe Price Balanced Fund	Canadian Natural Resources Limited			Equity	4,708	158,163	0.029%
JNLUT Rowe Price Balanced Fund	Tec Resources Limited			Equity	4,343	226,878	0.041%
JNLUT Rowe Price Balanced Fund	AutoZone, Inc.			Equity	278	875,711	0.158%
JNLUT Rowe Price Balanced Fund	Quanta Services, Inc.			Equity	137	40,847	0.007%
JNLUT Rowe Price Balanced Fund	FirstEnergy Corp.			Equity	2,163	95,929	0.017%
JNLUT Rowe Price Balanced Fund	Banque Nationale Du Canada			Equity	10,514	1,001,607	0.181%
JNLUT Rowe Price Balanced Fund	American Express Company			Equity	5,161	1,399,663	0.253%
JNLUT Rowe Price Balanced Fund	B.A.T Capital Corporation	8/15/2037	4.39	Fixed Income	289,000	269,818	0.049%
JNLUT Rowe Price Balanced Fund	Persimmon Public Limited Company			Equity	20,827	458,756	0.083%
JNLUT Rowe Price Balanced Fund	Standard Chartered PLC			Equity	60,164	643,579	0.116%
JNLUT Rowe Price Balanced Fund	American International Group, Inc.			Equity	2,963	216,980	0.039%
JNLUT Rowe Price Balanced Fund	Honeywell International Inc.			Equity	2,210	250,119	0.045%
JNLUT Rowe Price Balanced Fund	Antipassia PLC			Equity	29,485	793,523	0.143%
JNLUT Rowe Price Balanced Fund	Barrick Gold Corporation			Equity	6,413	127,555	0.023%
JNLUT Rowe Price Balanced Fund	Allstate Corporation, The			Equity	4,892	932,935	0.168%
JNLUT Rowe Price Balanced Fund	Boston Scientific Corporation			Equity	2,033	170,365	0.031%
JNLUT Rowe Price Balanced Fund	Agrico Eagle Mines Limited			Equity	1,351	108,156	0.020%
JNLUT Rowe Price Balanced Fund	Agrico Eagle Mines Limited			Equity	2,706	217,989	0.039%
JNLUT Rowe Price Balanced Fund	Sempra			Equity	500	42,125	0.008%
JNLUT Rowe Price Balanced Fund	Alkerm Laboratories			Equity	1,422	162,122	0.029%
JNLUT Rowe Price Balanced Fund	Amgen Inc.			Equity	1,139	366,947	0.064%
JNLUT Rowe Price Balanced Fund	AMETEK, Inc.			Equity	6,639	1,139,983	0.206%
JNLUT Rowe Price Balanced Fund	Amazon.com, Inc.			Equity	47,967	8,937,691	1.613%
JNLUT Rowe Price Balanced Fund	Hess Corporation			Equity	689	93,566	0.017%
JNLUT Rowe Price Balanced Fund	Amphenol Corporation			Equity	7,529	499,822	0.089%
JNLUT Rowe Price Balanced Fund	Becton, Dickinson and Company			Equity	3,679	887,007	0.160%
JNLUT Rowe Price Balanced Fund	Apple Inc.			Equity	55,998	13,047,534	2.355%
JNLUT Rowe Price Balanced Fund	Home Depot, Inc., The			Equity	4,018	1,628,094	0.294%
JNLUT Rowe Price Balanced Fund	IDEX Corporation			Equity	281	40,275	0.011%
JNLUT Rowe Price Balanced Fund	The Clorox Company			Equity	200	32,582	0.006%
JNLUT Rowe Price Balanced Fund	Cameco Corporation			Equity	2,311	110,373	0.020%
JNLUT Rowe Price Balanced Fund	Hologic, Inc.			Equity	1,269	103,373	0.019%
JNLUT Rowe Price Balanced Fund	Cisco Systems, Inc.			Equity	4,726	251,518	0.045%
JNLUT Rowe Price Balanced Fund	Halliburton Company			Equity	4,822	140,079	0.025%
JNLUT Rowe Price Balanced Fund	IDEX Laboratories, Inc.			Equity	80	40,418	0.007%
JNLUT Rowe Price Balanced Fund	Commercial Metals Company			Equity	552	30,338	0.005%
JNLUT Rowe Price Balanced Fund	Target Corporation			Equity	881	137,313	0.025%
JNLUT Rowe Price Balanced Fund	Copart, Inc.			Equity	1,832	95,997	0.017%
JNLUT Rowe Price Balanced Fund	Biogen Inc.			Equity	413	80,056	0.014%
JNLUT Rowe Price Balanced Fund	EOG Resources, Inc.			Equity	2,704	332,403	0.060%
JNLUT Rowe Price Balanced Fund	Entertify Corporation			Equity	700	92,127	0.017%
JNLUT Rowe Price Balanced Fund	Facet Research Systems Inc.			Equity	70	32,140	0.006%
JNLUT Rowe Price Balanced Fund	CoStar Group, Inc.			Equity	449	33,873	0.006%
JNLUT Rowe Price Balanced Fund	Industrias Penoles, S.A.B. de C.V.			Equity	2,394	31,734	0.006%
JNLUT Rowe Price Balanced Fund	Dreier & Company			Equity	2,345	982,086	0.177%
JNLUT Rowe Price Balanced Fund	Marriott International, Inc.			Equity	845	160,347	0.029%
JNLUT Rowe Price Balanced Fund	Moody's Corporation			Equity	217	102,988	0.019%
JNLUT Rowe Price Balanced Fund	CMS Energy Corporation			Equity	900	63,567	0.011%
JNLUT Rowe Price Balanced Fund	Fifth Third Bancorp			Equity	2,527	109,192	0.020%
JNLUT Rowe Price Balanced Fund	Freeport-McMoran Inc.			Equity	13,396	668,128	0.121%
JNLUT Rowe Price Balanced Fund	Cummins Inc.			Equity	2,601	842,178	0.152%
JNLUT Rowe Price Balanced Fund	Fair Isaac Corporation			Equity	52	101,063	0.018%
JNLUT Rowe Price Balanced Fund	The Estee Lauder Companies Inc.			Equity	400	39,876	0.007%
JNLUT Rowe Price Balanced Fund	JPMorgan Chase & Co.			Equity	16,223	3,426,783	0.617%
JNLUT Rowe Price Balanced Fund	Constellation Brands, Inc.			Equity	339	87,357	0.016%
JNLUT Rowe Price Balanced Fund	First Quantum Minerals Ltd			Equity	3,650	45,766	0.009%
JNLUT Rowe Price Balanced Fund	Campbell Soup Company			Equity	300	14,676	0.003%
JNLUT Rowe Price Balanced Fund	Caterpillar Inc.			Equity	274	107,167	0.019%
JNLUT Rowe Price Balanced Fund	NVIDIA Corporation			Equity	113,340	13,765,159	2.484%
JNLUT Rowe Price Balanced Fund	Canadian National Railway Company			Equity	141	16,518	0.003%
JNLUT Rowe Price Balanced Fund	Alcoa Energy Corporation			Equity	4,818	668,305	0.121%
JNLUT Rowe Price Balanced Fund	Intuit Inc.			Equity	1,509	937,089	0.169%
JNLUT Rowe Price Balanced Fund	International Flavors & Fragrances Inc.			Equity	544	57,300	0.010%
JNLUT Rowe Price Balanced Fund	General Dynamics Corporation			Equity	2,073	626,461	0.113%
JNLUT Rowe Price Balanced Fund	Gilead Sciences, Inc.			Equity	1,405	117,795	0.021%
JNLUT Rowe Price Balanced Fund	Walt Disney Company, The			Equity	1,672	160,830	0.029%
JNLUT Rowe Price Balanced Fund	General Mills, Inc.			Equity	500	36,925	0.007%
JNLUT Rowe Price Balanced Fund	Equifax Inc.			Equity	244	71,702	0.013%
JNLUT Rowe Price Balanced Fund	CenterPoint Energy, Inc.			Equity	1,181	34,745	0.006%
JNLUT Rowe Price Balanced Fund	McKesson Corporation			Equity	273	135,170	0.024%
JNLUT Rowe Price Balanced Fund	Dollar Tree, Inc.			Equity	5,300	372,686	0.067%
JNLUT Rowe Price Balanced Fund	Danaher Corporation			Equity	6,051	1,683,933	0.304%
JNLUT Rowe Price Balanced Fund	Salesforce, Inc.			Equity	2,373	650,477	0.117%
JNLUT Rowe Price Balanced Fund	Entbridge Inc.			Equity	4,707	191,151	0.034%
JNLUT Rowe Price Balanced Fund	EQT Corporation			Equity	26,329	984,696	0.174%
JNLUT Rowe Price Balanced Fund	H.B. Fuller Company			Equity	464	36,832	0.007%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2041	6.00	Fixed Income	154,290	162,234	0.029%
JNLUT Rowe Price Balanced Fund	Humana Inc.			Equity	971	308,414	0.056%
JNLUT Rowe Price Balanced Fund	Fiserv, Inc.			Equity	11,169	2,026,511	0.362%
JNLUT Rowe Price Balanced Fund	NexTier Energy, Inc.			Equity	10,645	899,822	0.162%
JNLUT Rowe Price Balanced Fund	Exxon Mobil Corporation			Equity	23,045	2,701,335	0.488%
JNLUT Rowe Price Balanced Fund	Electronic Arts Inc.			Equity	377	54,077	0.010%
JNLUT Rowe Price Balanced Fund	Molina Healthcare, Inc.			Equity	263	90,618	0.016%
JNLUT Rowe Price Balanced Fund	Cadence Design Systems, Inc.			Equity	572	155,029	0.028%
JNLUT Rowe Price Balanced Fund	CSX Corporation			Equity	29,300	1,011,729	0.183%
JNLUT Rowe Price Balanced Fund	Republic Services, Inc.			Equity	2,793	560,946	0.101%
JNLUT Rowe Price Balanced Fund	Cofage-Palmolive Company			Equity	13,955	1,448,669	0.261%
JNLUT Rowe Price Balanced Fund	Garmin, Inc.			Equity	70	35,473	0.006%
JNLUT Rowe Price Balanced Fund	Coca-Cola Company, The			Equity	26,380	1,908,641	0.344%
JNLUT Rowe Price Balanced Fund	Revvity, Inc.			Equity	6,259	799,587	0.144%
JNLUT Rowe Price Balanced Fund	Huntington Bancshares Incorporated			Equity	21,306	316,501	0.057%
JNLUT Rowe Price Balanced Fund	Dover Corporation			Equity	917	175,826	0.032%
JNLUT Rowe Price Balanced Fund	Emerson Electric Co.			Equity	519	56,763	0.010%
JNLUT Rowe Price Balanced Fund	J.B. Hunt Transport Services, Inc.			Equity	7	1,206	0.000%
JNLUT Rowe Price Balanced Fund	International Paper Company			Equity	19,265	941,095	0.170%
JNLUT Rowe Price Balanced Fund	Critics Corporation			Equity	1,492	307,173	0.056%
JNLUT Rowe Price Balanced Fund	Citigroup Inc.			Equity	11,790	738,054	0.133%
JNLUT Rowe Price Balanced Fund	Morgan Stanley			Equity	4,972	518,281	0.094%
JNLUT Rowe Price Balanced Fund	Bank of America Corporation			Equity	53,385	2,118,317	0.382%
JNLUT Rowe Price Balanced Fund	Proper Technologies, Inc.			Equity	1,185	659,938	0.119%
JNLUT Rowe Price Balanced Fund	RPM International Inc.			Equity	560	67,760	0.012%
JNLUT Rowe Price Balanced Fund	Range Resources Corporation			Equity	30,227	929,783	0.168%
JNLUT Rowe Price Balanced Fund	Entegris, Inc.			Equity	1,076	121,082	0.022%
JNLUT Rowe Price Balanced Fund	Packaging Corporation of America			Equity	736	159,454	0.029%
JNLUT Rowe Price Balanced Fund	Ross Stores, Inc.			Equity	3,523	530,247	0.096%
JNLUT Rowe Price Balanced Fund	BlackRock, Inc.			Equity	225	213,640	0.039%
JNLUT Rowe Price Balanced Fund	MettLife, Inc.			Equity	5,865	483,745	0.087%
JNLUT Rowe Price Balanced Fund	XCEL Energy Inc.			Equity	20,687	1,382,187	0.246%
JNLUT Rowe Price Balanced Fund	Nucor Corporation			Equity	1,880	283,654	0.051%
JNLUT Rowe Price Balanced Fund	U.S. Bancorp			Equity	1,800	83,214	0.015%
JNLUT Rowe Price Balanced Fund	Royal Caribbean Cruises Ltd.			Equity	785	139,574	0.025%
JNLUT Rowe Price Balanced Fund	Cosco Wholesale Corporation			Equity	719	637,408	0.115%
JNLUT Rowe Price Balanced Fund	Travelers Companies, Inc., The			Equity	3,210	751,523	0.136%
JNLUT Rowe Price Balanced Fund	Schlumberger Limited			Equity	33,166	1,400,454	0.253%
JNLUT Rowe Price Balanced Fund	Johnson & Johnson			Equity	15,581	2,525,057	0.456%
JNLUT Rowe Price Balanced Fund	Reliance, Inc.			Equity	651	188,276	0.034%
JNLUT Rowe Price Balanced Fund	Royal Gold, Inc.			Equity	331	66,438	0.012%
JNLUT Rowe Price Balanced Fund	Lam Research Corporation			Equity	444	363,361	0.066%
JNLUT Rowe Price Balanced Fund	Global Payments Inc.			Equity	1,497	153,323	0.028%
JNLUT Rowe Price Balanced Fund	KLA Corporation			Equity	448	346,936	0.063%
JNLUT Rowe Price Balanced Fund	Lockheed Martin Corporation			Equity	81	47,349	0.009%
JNLUT Rowe Price Balanced Fund	KeyCorp			Equity	27,000	452,250	0.082%
JNLUT Rowe Price Balanced Fund	Exelon Corporation			Equity	20,100	815,055	0.147%
JNLUT Rowe Price Balanced Fund	Merck & Co., Inc.			Equity	8,161	935,885	0.169%
JNLUT Rowe Price Balanced Fund	On Semiconductor Corporation			Equity	500	36,305	0.007%
JNLUT Rowe Price Balanced Fund	Magna International Inc.			Equity	10,067	413,150	0.075%
JNLUT Rowe Price Balanced Fund	CVS Health Corporation			Equity	500	31,440	0.006%
JNLUT Rowe Price Balanced Fund	McDonald's Corporation			Equity	4,835	1,472,306	0.266%
JNLUT Rowe Price Balanced Fund	Zimmer Biomet Holdings, Inc.			Equity	1,541	166,721	0.030%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Balanced Fund	Oracle Corporation			Equity	2,623	446,959	0.081%
JNLUT Rowe Price Balanced Fund	Qualcomm Incorporated			Equity	3,962	873,788	0.12%
JNLUT Rowe Price Balanced Fund	Marsh & McLennan Companies, Inc.			Equity	2,461	549,024	0.099%
JNLUT Rowe Price Balanced Fund	Hartford Financial Services Group, Inc. , The			Equity	1,873	221,201	0.040%
JNLUT Rowe Price Balanced Fund	The PNC Financial Services Group, Inc.			Equity	300	55,455	0.010%
JNLUT Rowe Price Balanced Fund	PepsiCo, Inc.			Equity	2,448	416,282	0.075%
JNLUT Rowe Price Balanced Fund	Quest Diagnostics Incorporated			Equity	400	62,100	0.011%
JNLUT Rowe Price Balanced Fund	Newmont Corporation			Equity	3,381	180,714	0.033%
JNLUT Rowe Price Balanced Fund	Altria Group, Inc.			Equity	971	50,550	0.009%
JNLUT Rowe Price Balanced Fund	Sun Life Financial Inc.			Equity	14,114	818,694	0.148%
JNLUT Rowe Price Balanced Fund	Parker-Hannifin Corporation			Equity	620	99,128	0.017%
JNLUT Rowe Price Balanced Fund	ConocoPhillips			Equity	17,060	1,796,077	0.324%
JNLUT Rowe Price Balanced Fund	Norfolk Southern Corporation			Equity	3,971	986,794	0.178%
JNLUT Rowe Price Balanced Fund	Regeneron Pharmaceuticals, Inc.			Equity	245	257,554	0.046%
JNLUT Rowe Price Balanced Fund	PPL Corporation			Equity	700	23,338	0.004%
JNLUT Rowe Price Balanced Fund	Rockwell Automation, Inc.			Equity	3,643	978,000	0.177%
JNLUT Rowe Price Balanced Fund	Martin Marietta Materials, Inc.			Equity	756	406,917	0.073%
JNLUT Rowe Price Balanced Fund	Kimberly-Clark Corporation			Equity	900	71,750	0.013%
JNLUT Rowe Price Balanced Fund	Dominion Energy, Inc.			Equity	1,242	71,175	0.013%
JNLUT Rowe Price Balanced Fund	Eli Lilly and Company			Equity	4,724	4,185,181	0.755%
JNLUT Rowe Price Balanced Fund	Edwards Lifesciences Corporation			Equity	632	41,706	0.008%
JNLUT Rowe Price Balanced Fund	Goldman Sachs Group, Inc. , The			Equity	1,870	925,856	0.167%
JNLUT Rowe Price Balanced Fund	Pfizer Inc.			Equity	6,729	194,737	0.035%
JNLUT Rowe Price Balanced Fund	Procter & Gamble Company, The			Equity	11,399	1,974,307	0.356%
JNLUT Rowe Price Balanced Fund	RenaissanceRe Holdings Ltd			Equity	529	144,100	0.026%
JNLUT Rowe Price Balanced Fund	Charles Schwab Corporation, The			Equity	31,178	2,020,646	0.365%
JNLUT Rowe Price Balanced Fund	NVR, Inc.			Equity	23	225,671	0.041%
JNLUT Rowe Price Balanced Fund	Old Dominion Freight Line, Inc.			Equity	5,581	1,108,610	0.200%
JNLUT Rowe Price Balanced Fund	Microsoft Corporation			Equity	35,838	15,421,091	2.783%
JNLUT Rowe Price Balanced Fund	East West Bancorp, Inc.			Equity	2,145	177,477	0.032%
JNLUT Rowe Price Balanced Fund	P&G Corporation			Equity	14,863	283,990	0.052%
JNLUT Rowe Price Balanced Fund	Louisiana-Pacific Corporation (W VA)			Equity	638	104,338	0.012%
JNLUT Rowe Price Balanced Fund	Devon Energy Corporation			Equity	900	35,208	0.006%
JNLUT Rowe Price Balanced Fund	The Progressive Corporation			Equity	2,066	524,268	0.095%
JNLUT Rowe Price Balanced Fund	Telefonos Tecnologicos Incorporated			Equity	298	130,423	0.024%
JNLUT Rowe Price Balanced Fund	Grupo Mexico, S.A.B. de C.V.			Equity	16,238	1,024,991	0.191%
JNLUT Rowe Price Balanced Fund	NIKE, Inc.			Equity	1,165	103,491	0.019%
JNLUT Rowe Price Balanced Fund	Repligen Corporation			Equity	500	74,410	0.013%
JNLUT Rowe Price Balanced Fund	AXIS Capital Holdings Limited			Equity	574	45,849	0.008%
JNLUT Rowe Price Balanced Fund	Welcia Holdings Co., Ltd.			Equity	7,399	120,439	0.019%
JNLUT Rowe Price Balanced Fund	Ares Management Corporation			Equity	638	99,426	0.018%
JNLUT Rowe Price Balanced Fund	Beigene, Ltd.			Equity	200	44,902	0.008%
JNLUT Rowe Price Balanced Fund	Low's Companies, Inc.			Equity	868	235,098	0.042%
JNLUT Rowe Price Balanced Fund	Northrop Grumman Corporation			Equity	859	453,612	0.082%
JNLUT Rowe Price Balanced Fund	Ford Motor Company			Equity	1,100	11,616	0.002%
JNLUT Rowe Price Balanced Fund	Telefonaktiebolaget LM Ericsson			Equity	78,043	589,299	0.106%
JNLUT Rowe Price Balanced Fund	West Fraser Timber Co. Ltd.			Equity	715	69,891	0.013%
JNLUT Rowe Price Balanced Fund	West Fraser Timber Co. Ltd.			Equity	936	91,471	0.017%
JNLUT Rowe Price Balanced Fund	Wells Fargo & Company			Equity	5,150	290,924	0.053%
JNLUT Rowe Price Balanced Fund	Texas Instruments Incorporated			Equity	8,394	1,733,949	0.313%
JNLUT Rowe Price Balanced Fund	Tractor Supply Company			Equity	710	205,560	0.037%
JNLUT Rowe Price Balanced Fund	Legacy Vulcan Corp.			Equity	604	151,260	0.027%
JNLUT Rowe Price Balanced Fund	Bayer Aktiengesellschaft			Equity	10,771	363,662	0.066%
JNLUT Rowe Price Balanced Fund	Stryker Corporation			Equity	1,999	723,758	0.131%
JNLUT Rowe Price Balanced Fund	ANZ Group Holdings Limited			Equity	22,488	474,765	0.086%
JNLUT Rowe Price Balanced Fund	Sora Erso Oyj			Equity	27,561	383,103	0.064%
JNLUT Rowe Price Balanced Fund	U-Onall			Equity	1,858	831,791	0.150%
JNLUT Rowe Price Balanced Fund	Western Digital Corporation			Equity	1,498	102,298	0.018%
JNLUT Rowe Price Balanced Fund	Gennab AIS			Equity	1,256	304,917	0.055%
JNLUT Rowe Price Balanced Fund	Ventex Pharmaceuticals Incorporated			Equity	324	149,291	0.027%
JNLUT Rowe Price Balanced Fund	Sandoz			Equity	14,248	1,650,991	0.298%
JNLUT Rowe Price Balanced Fund	BASF SE			Equity	9,085	482,045	0.087%
JNLUT Rowe Price Balanced Fund	BT Group PLC			Equity	325,537	645,324	0.116%
JNLUT Rowe Price Balanced Fund	Zebra Technologies Corporation			Equity	338	125,168	0.023%
JNLUT Rowe Price Balanced Fund	Munchener Rueckversicherungs-Gesellschaft Aktiengesellschaft in Muenchen			Equity	3,389	1,870,933	0.338%
JNLUT Rowe Price Balanced Fund	Teleperformance SE			Equity	2,243	231,180	0.042%
JNLUT Rowe Price Balanced Fund	SAP SE			Equity	6,486	1,481,995	0.267%
JNLUT Rowe Price Balanced Fund	Siemens Aktiengesellschaft			Equity	13,021	2,636,398	0.476%
JNLUT Rowe Price Balanced Fund	Kering			Equity	1,080	399,108	0.072%
JNLUT Rowe Price Balanced Fund	Union Pacific Corporation			Equity	3,566	878,948	0.159%
JNLUT Rowe Price Balanced Fund	Thermo Fisher Scientific Inc.			Equity	3,421	2,117,472	0.382%
JNLUT Rowe Price Balanced Fund	Walmart Inc.			Equity	23,867	1,927,260	0.348%
JNLUT Rowe Price Balanced Fund	Zurich Insurance Group AG			Equity	1,281	91,712	0.017%
JNLUT Rowe Price Balanced Fund	Chevron Corporation			Equity	10,059	1,481,389	0.267%
JNLUT Rowe Price Balanced Fund	Koninklijke Philips N.V.			Equity	27,256	894,452	0.161%
JNLUT Rowe Price Balanced Fund	The Southern Company			Equity	2,410	217,334	0.039%
JNLUT Rowe Price Balanced Fund	Westinghouse Air Brake Technologies Corporation			Equity	6,657	3,010,043	0.548%
JNLUT Rowe Price Balanced Fund	Cencora, Inc.			Equity	5,497	1,237,265	0.223%
JNLUT Rowe Price Balanced Fund	UnitedHealth Group Incorporated			Equity	6,973	4,076,974	0.736%
JNLUT Rowe Price Balanced Fund	Intuitive Surgical, Inc.			Equity	3,233	1,588,276	0.287%
JNLUT Rowe Price Balanced Fund	AT&T Inc.			Equity	2,400	52,800	0.009%
JNLUT Rowe Price Balanced Fund	The Sherrin-Williams Company			Equity	3,859	1,472,865	0.266%
JNLUT Rowe Price Balanced Fund	Intesa Sanpaolo SPA			Equity	127,841	547,680	0.099%
JNLUT Rowe Price Balanced Fund	Southwestern Energy Company			Equity	9,688	68,882	0.012%
JNLUT Rowe Price Balanced Fund	Wynn Resorts, Limited			Equity	730	69,992	0.013%
JNLUT Rowe Price Balanced Fund	Schneider Electric SE			Equity	168	44,288	0.008%
JNLUT Rowe Price Balanced Fund	Saia, Inc.			Equity	326	142,547	0.026%
JNLUT Rowe Price Balanced Fund	Starbucks Corporation			Equity	3,900	380,211	0.069%
JNLUT Rowe Price Balanced Fund	Nexx PLC			Equity	5,857	167,754	0.030%
JNLUT Rowe Price Balanced Fund	Waste Management, Inc.			Equity	532	110,443	0.020%
JNLUT Rowe Price Balanced Fund	Synopsys, Inc.			Equity	1,644	832,505	0.150%
JNLUT Rowe Price Balanced Fund	Freemius SE & Co. KGaA			Equity	8,544	326,295	0.059%
JNLUT Rowe Price Balanced Fund	Barry Callebaut AG			Equity	131	242,413	0.044%
JNLUT Rowe Price Balanced Fund	Williams Companies, Inc. , The			Equity	13,982	438,128	0.115%
JNLUT Rowe Price Balanced Fund	Steel Dynamics, Inc.			Equity	3,178	402,144	0.073%
JNLUT Rowe Price Balanced Fund	Sysco Corporation			Equity	39,030	39,030	0.007%
JNLUT Rowe Price Balanced Fund	CME Group Inc.			Equity	536	515,438	0.093%
JNLUT Rowe Price Balanced Fund	Kingfisher PLC			Equity	191,230	825,268	0.149%
JNLUT Rowe Price Balanced Fund	Southern Copper Corporation			Equity	2,827	326,999	0.059%
JNLUT Rowe Price Balanced Fund	Tyson Foods, Inc.			Equity	495	29,482	0.005%
JNLUT Rowe Price Balanced Fund	Netflix, Inc.			Equity	2,772	1,966,095	0.355%
JNLUT Rowe Price Balanced Fund	LTX Companies, Inc. , The			Equity	4,256	600,250	0.094%
JNLUT Rowe Price Balanced Fund	Asahi Kasei Corporation			Equity	39,100	300,042	0.054%
JNLUT Rowe Price Balanced Fund	New Gold Inc.			Equity	5,583	16,182	0.003%
JNLUT Rowe Price Balanced Fund	Sumitomo Mitsui Trust Bank, Limited			Equity	13,000	314,544	0.057%
JNLUT Rowe Price Balanced Fund	Honda Motor Co. Ltd.			Equity	20,700	225,984	0.041%
JNLUT Rowe Price Balanced Fund	CyberAgent, Inc.			Equity	42,600	307,743	0.056%
JNLUT Rowe Price Balanced Fund	NAVER Corporation			Equity	2,729	354,724	0.064%
JNLUT Rowe Price Balanced Fund	Kirin Holdings Company, Limited			Equity	15,500	236,010	0.043%
JNLUT Rowe Price Balanced Fund	Mitsubishi HC Capital Inc.			Equity	33,700	243,232	0.044%
JNLUT Rowe Price Balanced Fund	Mitsubishi Estate Co. , Ltd.			Equity	6,700	106,680	0.019%
JNLUT Rowe Price Balanced Fund	BHP Group Limited			Equity	19,776	626,744	0.113%
JNLUT Rowe Price Balanced Fund	BHP Group Limited			Equity	39,167	1,270,791	0.229%
JNLUT Rowe Price Balanced Fund	Mitsubishi Electric Corporation			Equity	44,200	722,279	0.130%
JNLUT Rowe Price Balanced Fund	Mitsubishi Corporation			Equity	22,100	466,852	0.084%
JNLUT Rowe Price Balanced Fund	Mitsui Fudosan Co. , Ltd.			Equity	98,600	933,125	0.168%
JNLUT Rowe Price Balanced Fund	Mitsubishi UFJ Financial Group Inc			Equity	79,700	825,924	0.149%
JNLUT Rowe Price Balanced Fund	Central Japan Railway Company			Equity	15,400	356,723	0.064%
JNLUT Rowe Price Balanced Fund	Panasonic Holdings Corporation			Equity	53,600	405,178	0.074%
JNLUT Rowe Price Balanced Fund	DBS Group Holdings Ltd			Equity	19,360	574,334	0.104%
JNLUT Rowe Price Balanced Fund	Murata Manufacturing Co. , Ltd.			Equity	16,600	329,220	0.059%
JNLUT Rowe Price Balanced Fund	Chugai Pharmaceutical Co. , Ltd.			Equity	11,000	536,798	0.097%
JNLUT Rowe Price Balanced Fund	Largan Precision Co. Ltd.			Equity	2,000	161,137	0.029%
JNLUT Rowe Price Balanced Fund	Kerry Properties Limited			Equity	11,500	24,327	0.004%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.			Equity	172,094	163,605	0.030%
JNLUT Rowe Price Balanced Fund	Tokai Marine Holdings, Inc.	12/1/2045	3.50	Fixed Income	33,500	1,243,902	0.224%
JNLUT Rowe Price Balanced Fund	LY Corporation			Equity	84,300	246,493	0.044%
JNLUT Rowe Price Balanced Fund	Gold Fields Limited			Equity	4,527	70,197	0.013%
JNLUT Rowe Price Balanced Fund	Hamamatsu Photonics K.K.			Equity	17,200	227,656	0.041%
JNLUT Rowe Price Balanced Fund	Nomura Research Institute, Ltd.			Equity	14,900	562,941	0.100%
JNLUT Rowe Price Balanced Fund	Las Vegas Sands Corp.			Equity	2,113	106,388	0.019%
JNLUT Rowe Price Balanced Fund	Saffron			Equity	4,063	666,630	0.123%
JNLUT Rowe Price Balanced Fund	Northern Star Resources Ltd			Equity	12,911	142,061	0.026%
JNLUT Rowe Price Balanced Fund	ABB Ltd			Equity	22,727	1,318,665	0.238%
JNLUT Rowe Price Balanced Fund	DENSO Corporation			Equity	40,700	619,340	0.112%
JNLUT Rowe Price Balanced Fund	Nippon Steel Corporation			Equity	4,600	105,169	0.019%
JNLUT Rowe Price Balanced Fund	Zijin Mining Group Co. , Ltd.			Equity	44,000	98,370	0.018%
JNLUT Rowe Price Balanced Fund	Tokyo Electron Limited			Equity	3,100	555,997	0.100%
JNLUT Rowe Price Balanced Fund	Nestle S.A.			Equity	22,588	2,267,832	0.409%
JNLUT Rowe Price Balanced Fund	Nippon Telegraph and Telephone Corporation			Equity	982,608	1,022,338	0.185%
JNLUT Rowe Price Balanced Fund	POSCO Holdings Inc.			Equity	157	46,546	0.008%
JNLUT Rowe Price Balanced Fund	Sony Group Corporation			Equity	51,000	995,438	0.180%
JNLUT Rowe Price Balanced Fund	Astellas Pharma Inc.			Equity	42,700	500,069	0.090%
JNLUT Rowe Price Balanced Fund	SMC Corporation			Equity	600	268,670	0.048%
JNLUT Rowe Price Balanced Fund	OMRON Corporation			Equity	6,500	299,498	0.054%
JNLUT Rowe Price Balanced Fund	Equinor ASA			Equity	43,928	1,111,569	0.201%
JNLUT Rowe Price Balanced Fund	Invincible Investment Corporation			Equity	119	51,519	0.009%
JNLUT Rowe Price Balanced Fund	Toyota Motor Corporation			Equity	61,100	1,106,198	0.200%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Balanced Fund	Renesas Electronics Corporation			Equity	23,800	346,769	0.063%
JNLUT Rowe Price Balanced Fund	Sumitomo Corporation			Equity	30,200	680,426	0.125%
JNLUT Rowe Price Balanced Fund	United Overseas Bank Limited			Equity	32,200	804,518	0.145%
JNLUT Rowe Price Balanced Fund	Samsung Electronics Co., Ltd.			Equity	16,078	756,798	0.137%
JNLUT Rowe Price Balanced Fund	Heineken N.V.			Equity	7,862	697,387	0.126%
JNLUT Rowe Price Balanced Fund	Shionogi & Co., Ltd.			Equity	12,600	182,870	0.033%
JNLUT Rowe Price Balanced Fund	AXA			Equity	42,071	1,623,565	0.293%
JNLUT Rowe Price Balanced Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	81,000	2,467,633	0.445%
JNLUT Rowe Price Balanced Fund	Shin-Etsu Chemical Co., Ltd.			Equity	2,500	105,514	0.019%
JNLUT Rowe Price Balanced Fund	Stanley Electric Co., Ltd.			Equity	11,400	215,542	0.039%
JNLUT Rowe Price Balanced Fund	Ando American Platinum			Equity	891	50,789	0.009%
JNLUT Rowe Price Balanced Fund	Challenger Limited			Equity	36,233	163,172	0.029%
JNLUT Rowe Price Balanced Fund	Sun Hung Kai Properties Limited			Equity	10,500	114,166	0.021%
JNLUT Rowe Price Balanced Fund	Roche Holding AG			Equity	4,529	1,442,768	0.260%
JNLUT Rowe Price Balanced Fund	EssilorLuxofica			Equity	2,492	599,038	0.106%
JNLUT Rowe Price Balanced Fund	BNP Paribas			Equity	7,741	530,343	0.096%
JNLUT Rowe Price Balanced Fund	Monolithic Power Systems, Inc.			Equity	661	611,921	0.110%
JNLUT Rowe Price Balanced Fund	Domino's Pizza, Inc.			Equity	160	68,822	0.012%
JNLUT Rowe Price Balanced Fund	Kinross Gold Corporation			Equity	9,827	54,541	0.010%
JNLUT Rowe Price Balanced Fund	THK Co.Ltd.			Equity	11,400	200,396	0.036%
JNLUT Rowe Price Balanced Fund	Suzuki Motor Corporation			Equity	38,800	435,700	0.079%
JNLUT Rowe Price Balanced Fund	Novartis AG			Equity	13,378	1,542,113	0.278%
JNLUT Rowe Price Balanced Fund	Electric Power Development Co., Ltd.			Equity	21,600	369,082	0.066%
JNLUT Rowe Price Balanced Fund	Huntsman Corporation			Equity	1,554	37,607	0.007%
JNLUT Rowe Price Balanced Fund	Western Alliance Bancorporation			Equity	494	42,726	0.008%
JNLUT Rowe Price Balanced Fund	Seven & Holdings Co., Ltd.			Equity	56,300	857,124	0.155%
JNLUT Rowe Price Balanced Fund	Delta Air Lines, Inc.			Equity	1,000	50,789	0.009%
JNLUT Rowe Price Balanced Fund	MasterCard Incorporated			Equity	5,069	2,503,072	0.452%
JNLUT Rowe Price Balanced Fund	Discover Financial Services			Equity	846	118,685	0.021%
JNLUT Rowe Price Balanced Fund	Bunzl Public Limited Company			Equity	13,288	629,075	0.114%
JNLUT Rowe Price Balanced Fund	Unilever PLC			Equity	32,616	2,115,828	0.382%
JNLUT Rowe Price Balanced Fund	Ovestis Compti			Equity	1,000	176,520	0.032%
JNLUT Rowe Price Balanced Fund	Franco-Nevada Corporation			Equity	4,155	516,259	0.093%
JNLUT Rowe Price Balanced Fund	Franco-Nevada Corporation			Equity	2,475	307,405	0.055%
JNLUT Rowe Price Balanced Fund	Chippole Mescari Grill, Inc.			Equity	15,856	913,623	0.165%
JNLUT Rowe Price Balanced Fund	Winn-Dixie Stores, Inc.			Equity	196,000	508,400	0.092%
JNLUT Rowe Price Balanced Fund	China Molybdenum Co., Ltd.			Equity	42,000	40,805	0.007%
JNLUT Rowe Price Balanced Fund	Engie			Equity	62,459	1,079,134	0.195%
JNLUT Rowe Price Balanced Fund	DexCom, Inc.			Equity	1,266	84,873	0.015%
JNLUT Rowe Price Balanced Fund	Galp Energia, SGPS, S.A.			Equity	4,429	92,489	0.017%
JNLUT Rowe Price Balanced Fund	Prisma S.p.A.			Equity	15,695	1,137,167	0.205%
JNLUT Rowe Price Balanced Fund	Sandvik Aktiebolag			Equity	28,148	629,148	0.114%
JNLUT Rowe Price Balanced Fund	Macquarie Group Limited			Equity	3,681	591,983	0.107%
JNLUT Rowe Price Balanced Fund	Hindalco Industries Limited			Equity	3,475	31,485	0.006%
JNLUT Rowe Price Balanced Fund	Norsk Hydro ASA			Equity	5,188	33,706	0.006%
JNLUT Rowe Price Balanced Fund	Legrand			Equity	7,416	853,120	0.154%
JNLUT Rowe Price Balanced Fund	Hoa Phat Group Joint Stock Company			Equity	139,760	150,285	0.027%
JNLUT Rowe Price Balanced Fund	MSCI Inc.			Equity	170	99,088	0.018%
JNLUT Rowe Price Balanced Fund	Lululemon Athletica Inc.			Equity	757	205,412	0.037%
JNLUT Rowe Price Balanced Fund	SUMCO Corporation			Equity	1,900	20,469	0.004%
JNLUT Rowe Price Balanced Fund	Bank of New York Mellon Corporation, The			Equity	1,891	135,887	0.025%
JNLUT Rowe Price Balanced Fund	Ulta Beauty, Inc.			Equity	77	29,962	0.005%
JNLUT Rowe Price Balanced Fund	Anglo American PLC			Equity	9,335	303,764	0.055%
JNLUT Rowe Price Balanced Fund	CF Industries Holdings, Inc.			Equity	1,984	170,227	0.031%
JNLUT Rowe Price Balanced Fund	Joint Stock Company Alosa (Public Joint Stock Company)			Equity	40,150	0	0.000%
JNLUT Rowe Price Balanced Fund	TransDigm Group Incorporated			Equity	273	389,606	0.070%
JNLUT Rowe Price Balanced Fund	TotalEnergies SE			Equity	25,534	1,683,965	0.304%
JNLUT Rowe Price Balanced Fund	L'Air Liquide, societe anonyme pour l'Etude et l'Exploitation des procedes Georges Claude			Equity	5,375	1,038,138	0.187%
JNLUT Rowe Price Balanced Fund	Marathon Petroleum Corporation			Equity	2,134	347,650	0.063%
JNLUT Rowe Price Balanced Fund	Iseban Mitsuoshi Holdings Ltd.			Equity	23,200	367,188	0.066%
JNLUT Rowe Price Balanced Fund	CRIC Global Markets, Inc.			Equity	533	109,401	0.020%
JNLUT Rowe Price Balanced Fund	NXP Semiconductors N.V.			Equity	3,266	787,184	0.142%
JNLUT Rowe Price Balanced Fund	AIA Group Limited			Equity	81,400	708,252	0.128%
JNLUT Rowe Price Balanced Fund	Glencore PLC			Equity	62,950	659,223	0.065%
JNLUT Rowe Price Balanced Fund	Element Fleet Management Corp.			Equity	47,218	1,008,286	0.182%
JNLUT Rowe Price Balanced Fund	Tesla Inc.			Equity	10,670	2,791,592	0.504%
JNLUT Rowe Price Balanced Fund	Booz Allen Hamilton Holding Corporation			Equity	200	32,552	0.006%
JNLUT Rowe Price Balanced Fund	Accurium Public Limited Company			Equity	1,495	528,453	0.095%
JNLUT Rowe Price Balanced Fund	Stanley Black & Decker, Inc.			Equity	2,804	308,825	0.056%
JNLUT Rowe Price Balanced Fund	O'Reilly Automotive, Inc.			Equity	132	152,011	0.027%
JNLUT Rowe Price Balanced Fund	LPL Financial Holdings Inc.			Equity	175	40,710	0.007%
JNLUT Rowe Price Balanced Fund	Fortinet, Inc.			Equity	4,316	334,706	0.060%
JNLUT Rowe Price Balanced Fund	Amadeus IT Holding, S.A.			Equity	8,857	639,623	0.115%
JNLUT Rowe Price Balanced Fund	Targa Resources Corp.			Equity	1,306	193,301	0.035%
JNLUT Rowe Price Balanced Fund	HCA Healthcare, Inc.			Equity	622	252,799	0.046%
JNLUT Rowe Price Balanced Fund	General Motors Company			Equity	829	37,172	0.007%
JNLUT Rowe Price Balanced Fund	Philips 66			Equity	723	95,038	0.017%
JNLUT Rowe Price Balanced Fund	Public Joint Stock Company Polys			Equity	142	0	0.000%
JNLUT Rowe Price Balanced Fund	Dollar General Company			Equity	3,537	299,124	0.054%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	3/20/2048	5.50	Fixed Income	8,635	8,987	0.002%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2048	3.50	Fixed Income	33,307	31,518	0.006%
JNLUT Rowe Price Balanced Fund	Xylem Inc.			Equity	100	13,503	0.002%
JNLUT Rowe Price Balanced Fund	United Airlines Holdings, Inc.			Equity	684	39,029	0.007%
JNLUT Rowe Price Balanced Fund	Edenred			Equity	5,963	225,674	0.041%
JNLUT Rowe Price Balanced Fund	Public Joint Stock Company Mining And Metallurgical Company Norilsk Nickel			Equity	15,500	0	0.000%
JNLUT Rowe Price Balanced Fund	Visa Inc.			Equity	12,783	3,514,686	0.644%
JNLUT Rowe Price Balanced Fund	Verisk Analytics, Inc.			Equity	338	90,570	0.016%
JNLUT Rowe Price Balanced Fund	Mosaic Company, The			Equity	16,034	429,391	0.077%
JNLUT Rowe Price Balanced Fund	Crabtree Limited			Equity	5,617	1,625,080	0.293%
JNLUT Rowe Price Balanced Fund	Julius Baer Gruppe AG			Equity	9,742	1,088,857	0.196%
JNLUT Rowe Price Balanced Fund	Kinder Morgan, Inc.			Equity	6,689	147,760	0.027%
JNLUT Rowe Price Balanced Fund	Suncor Energy Inc.			Equity	924	34,114	0.006%
JNLUT Rowe Price Balanced Fund	Suncor Energy Inc.			Equity	3,348	123,577	0.022%
JNLUT Rowe Price Balanced Fund	Philip Morris International Inc.			Equity	3,686	252,822	0.045%
JNLUT Rowe Price Balanced Fund	Meta Platforms, Inc.			Equity	12,404	7,100,546	1.281%
JNLUT Rowe Price Balanced Fund	Duke Energy Corporation			Equity	315	36,320	0.007%
JNLUT Rowe Price Balanced Fund	ServiceNow, Inc.			Equity	1,848	1,652,833	0.298%
JNLUT Rowe Price Balanced Fund	Diamondback Energy, Inc.			Equity	3,874	667,878	0.121%
JNLUT Rowe Price Balanced Fund	Kion Group AG			Equity	7,161	281,406	0.051%
JNLUT Rowe Price Balanced Fund	Popular, Inc.			Equity	300	30,267	0.005%
JNLUT Rowe Price Balanced Fund	Siemens Healthineers AG			Equity	15,146	909,200	0.164%
JNLUT Rowe Price Balanced Fund	Zoetis Inc.			Equity	1,690	330,192	0.060%
JNLUT Rowe Price Balanced Fund	Compagnie Financiere Richemont SA			Equity	3,317	523,801	0.095%
JNLUT Rowe Price Balanced Fund	WPP 2012 Limited			Equity	67,167	687,106	0.124%
JNLUT Rowe Price Balanced Fund	Wheaton Precious Metals Corp.			Equity	5,522	337,284	0.061%
JNLUT Rowe Price Balanced Fund	Wheaton Precious Metals Corp.			Equity	4,411	289,399	0.049%
JNLUT Rowe Price Balanced Fund	KKR & Co. Inc.			Equity	1,080	141,028	0.025%
JNLUT Rowe Price Balanced Fund	Tenet Healthcare Corporation			Equity	5,907	981,743	0.177%
JNLUT Rowe Price Balanced Fund	National Grid PLC			Equity	70,403	970,373	0.175%
JNLUT Rowe Price Balanced Fund	ASML Holding N.V.			Equity	2,279	1,903,868	0.344%
JNLUT Rowe Price Balanced Fund	QVIA Holdings Inc.			Equity	113	26,778	0.005%
JNLUT Rowe Price Balanced Fund	Expro Group Holdings N.V.			Equity	1,873	32,159	0.006%
JNLUT Rowe Price Balanced Fund	Hubbell Incorporated			Equity	364	155,919	0.028%
JNLUT Rowe Price Balanced Fund	T-Mobile US, Inc.			Equity	10,982	2,266,246	0.409%
JNLUT Rowe Price Balanced Fund	Ossisko Mining Inc.			Equity	4,727	15,941	0.003%
JNLUT Rowe Price Balanced Fund	Mondelēz International, Inc.			Equity	11,851	878,633	0.159%
JNLUT Rowe Price Balanced Fund	Ivanhoe Mines Ltd.			Equity	8,544	127,107	0.023%
JNLUT Rowe Price Balanced Fund	AdVive Inc.			Equity	2,487	491,133	0.089%
JNLUT Rowe Price Balanced Fund	Palo Alto Networks, Inc.			Equity	236	80,665	0.015%
JNLUT Rowe Price Balanced Fund	Icon Public Limited Company			Equity	241	69,242	0.012%
JNLUT Rowe Price Balanced Fund	LEG Immobilien SE			Equity	990	103,730	0.019%
JNLUT Rowe Price Balanced Fund	Nonwegian Cruise Line Holdings Ltd.			Equity	1,815	37,226	0.007%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	2/20/2048	3.50	Fixed Income	335,111	319,785	0.058%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	7/20/2045	4.50	Fixed Income	86,285	87,332	0.016%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	12/20/2045	4.50	Fixed Income	2,242	2,269	0.000%
JNLUT Rowe Price Balanced Fund	Baker Hughes Company			Equity	2,409	87,085	0.016%
JNLUT Rowe Price Balanced Fund	Compass Group PLC			Equity	39,010	1,123,042	0.203%
JNLUT Rowe Price Balanced Fund	Workday, Inc.			Equity	80	19,553	0.004%
JNLUT Rowe Price Balanced Fund	The Cigna Group			Equity	2,747	951,671	0.172%
JNLUT Rowe Price Balanced Fund	Sea Limited			Equity	2,523	237,868	0.043%
JNLUT Rowe Price Balanced Fund	TechnipFMC PLC			Equity	3,625	95,984	0.017%
JNLUT Rowe Price Balanced Fund	Novo Nordisk AS			Equity	1,174	139,788	0.025%
JNLUT Rowe Price Balanced Fund	Vestra Corp.			Equity	570	67,568	0.012%
JNLUT Rowe Price Balanced Fund	Ossisko Gold Royalties Ltd			Equity	5,173	96,063	0.017%
JNLUT Rowe Price Balanced Fund	AstraZeneca PLC			Equity	42,689	3,325,900	0.600%
JNLUT Rowe Price Balanced Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	1,834	319,659	0.058%
JNLUT Rowe Price Balanced Fund	JSW Steel Limited			Equity	2,261	27,872	0.005%
JNLUT Rowe Price Balanced Fund	Alibaba Group Holding Limited			Equity	1,908	202,477	0.037%
JNLUT Rowe Price Balanced Fund	Evergy, Inc.			Equity	800	49,608	0.009%
JNLUT Rowe Price Balanced Fund	ING Group N.V.			Equity	63,826	1,161,426	0.210%
JNLUT Rowe Price Balanced Fund	Vale S.A.			Equity	19,586	228,764	0.041%
JNLUT Rowe Price Balanced Fund	Moncler S.p.A.			Equity	8,608	547,303	0.099%
JNLUT Rowe Price Balanced Fund	Warrior Met Coal, Inc.			Equity	811	51,623	0.009%
JNLUT Rowe Price Balanced Fund	Cleveland-Cliffs Inc.			Equity	3,129	39,267	0.007%
JNLUT Rowe Price Balanced Fund	Sensata Technologies Holding PLC			Equity	400	14,344	0.003%
JNLUT Rowe Price Balanced Fund	Alamos Gold Inc.			Equity	3,274	65,284	0.012%
JNLUT Rowe Price Balanced Fund	Alamos Gold Inc.			Equity	6,813	135,761	0.025%
JNLUT Rowe Price Balanced Fund	BP P.L.C.			Equity	2,850	99,462	0.018%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Balanced Fund	Tencent Holdings Limited			Equity	4,300	238,717	0.043%
JNLUT Rowe Price Balanced Fund	Burlington Stores, Inc.			Equity	307	80,888	0.015%
JNLUT Rowe Price Balanced Fund	argenx SE			Equity	893	484,077	0.087%
JNLUT Rowe Price Balanced Fund	Broadcom Inc.			Equity	19,616	3,383,760	0.611%
JNLUT Rowe Price Balanced Fund	Johnson Matthey PLC			Equity	15,433	314,271	0.057%
JNLUT Rowe Price Balanced Fund	Booking Holdings Inc.			Equity	364	1,533,212	0.277%
JNLUT Rowe Price Balanced Fund	Unicom			Equity	13,247	172,196	0.031%
JNLUT Rowe Price Balanced Fund	Sanofi			Equity	600	34,578	0.006%
JNLUT Rowe Price Balanced Fund	Voya Financial, Inc.			Equity	1,759	139,348	0.025%
JNLUT Rowe Price Balanced Fund	Intercontinental Exchange, Inc.			Equity	1,183	190,037	0.034%
JNLUT Rowe Price Balanced Fund	ASML Holding N.V.			Equity	873	777,427	0.131%
JNLUT Rowe Price Balanced Fund	Arista Networks, Inc.			Equity	274	105,167	0.019%
JNLUT Rowe Price Balanced Fund	Spotify Technology S.A.			Equity	140	51,594	0.009%
JNLUT Rowe Price Balanced Fund	S&P Global Inc.			Equity	1,171	604,962	0.109%
JNLUT Rowe Price Balanced Fund	Weatherford International Public Limited Company			Equity	488	41,441	0.007%
JNLUT Rowe Price Balanced Fund	Waste Connections, Inc.			Equity	499	89,231	0.016%
JNLUT Rowe Price Balanced Fund	Equity Residential			Equity	3,804	285,814	0.052%
JNLUT Rowe Price Balanced Fund	Shopify Inc.			Equity	6,269	502,398	0.091%
JNLUT Rowe Price Balanced Fund	Elevance Health, Inc.			Equity	4,082	2,112,240	0.381%
JNLUT Rowe Price Balanced Fund	EastGroup Properties, Inc.			Equity	765	143,988	0.026%
JNLUT Rowe Price Balanced Fund	Acadia Realty Trust			Equity	7,521	178,022	0.032%
JNLUT Rowe Price Balanced Fund	Lundin Gold Inc.			Equity	3,551	76,799	0.014%
JNLUT Rowe Price Balanced Fund	Pure Storage, Inc.			Equity	828	41,599	0.008%
JNLUT Rowe Price Balanced Fund	Covestro AG			Equity	6,892	429,180	0.077%
JNLUT Rowe Price Balanced Fund	TechnoPro Holdings, Inc.			Equity	18,500	358,270	0.065%
JNLUT Rowe Price Balanced Fund	Recruit Holdings Co. Ltd.			Equity	12,400	755,734	0.136%
JNLUT Rowe Price Balanced Fund	Alphabet Inc.			Equity	12,754	2,115,251	0.382%
JNLUT Rowe Price Balanced Fund	Keyight Technologies, Inc.			Equity	8,807	1,399,697	0.253%
JNLUT Rowe Price Balanced Fund	Celnex Telecom, S.A.			Equity	1,345	54,505	0.010%
JNLUT Rowe Price Balanced Fund	SiteOne Landscape Supply, Inc.			Equity	360	54,328	0.010%
JNLUT Rowe Price Balanced Fund	South32 Limited			Equity	107,158	282,895	0.051%
JNLUT Rowe Price Balanced Fund	Alphabeta Inc.			Equity	36,700	6,135,673	0.906%
JNLUT Rowe Price Balanced Fund	Monster Beverage 1990 Corporation			Equity	1,035	53,996	0.010%
JNLUT Rowe Price Balanced Fund	Apple Hospitality REIT, Inc.			Equity	5,264	78,592	0.014%
JNLUT Rowe Price Balanced Fund	Johnson Controls International Public Limited Company			Equity	1,020	79,540	0.014%
JNLUT Rowe Price Balanced Fund	ArcoMineral			Equity	2,381	62,690	0.011%
JNLUT Rowe Price Balanced Fund	Zscaler, Inc.			Equity	200	34,188	0.006%
JNLUT Rowe Price Balanced Fund	Svenska Handelsbanken AB			Equity	50,825	521,967	0.094%
JNLUT Rowe Price Balanced Fund	Alcoa Corporation			Equity	1,886	72,762	0.013%
JNLUT Rowe Price Balanced Fund	Wingstop Inc.			Equity	144	59,916	0.011%
JNLUT Rowe Price Balanced Fund	Hilton Worldwide Holdings Inc.			Equity	1,985	457,543	0.083%
JNLUT Rowe Price Balanced Fund	Medtronic, Inc.			Equity	1,061	96,265	0.017%
JNLUT Rowe Price Balanced Fund	Unicredit, Societa' Per Azioni In Forma Abbreviata Unicredit S.P.A.			Equity	11,323	497,972	0.090%
JNLUT Rowe Price Balanced Fund	Fortis Corporation			Equity	900	71,097	0.013%
JNLUT Rowe Price Balanced Fund	Crown Castle Inc.			Equity	984	116,732	0.021%
JNLUT Rowe Price Balanced Fund	Equinix, Inc.			Equity	1,445	1,282,625	0.231%
JNLUT Rowe Price Balanced Fund	Pebblebrook Hotel Trust			Equity	2,620	34,689	0.006%
JNLUT Rowe Price Balanced Fund	American Homes 4 Rent			Equity	6,547	851,389	0.045%
JNLUT Rowe Price Balanced Fund	Adyen N.V.			Equity	265	415,240	0.075%
JNLUT Rowe Price Balanced Fund	Alexandria Real Estate Equities, Inc.			Equity	359	43,098	0.008%
JNLUT Rowe Price Balanced Fund	Capitaland Group Pte. Ltd.			Equity	48,777	80,937	0.015%
JNLUT Rowe Price Balanced Fund	Gaming and Leisure Properties, Inc.			Equity	4,049	208,321	0.038%
JNLUT Rowe Price Balanced Fund	Camden Property Trust			Equity	918	114,346	0.021%
JNLUT Rowe Price Balanced Fund	ProLogis Inc.			Equity	7,296	921,339	0.166%
JNLUT Rowe Price Balanced Fund	Agree Realty Corporation			Equity	333	25,168	0.005%
JNLUT Rowe Price Balanced Fund	W.P. Carey Inc.			Equity	845	53,383	0.010%
JNLUT Rowe Price Balanced Fund	Cubismatt, L.P.			Equity	5,105	274,800	0.050%
JNLUT Rowe Price Balanced Fund	NNN REIT, Inc.			Equity	729	35,349	0.006%
JNLUT Rowe Price Balanced Fund	Realty Income Corporation			Equity	2,844	180,366	0.033%
JNLUT Rowe Price Balanced Fund	Kilroy Realty Corporation			Equity	2,578	101,161	0.018%
JNLUT Rowe Price Balanced Fund	Kimco Realty OP LLC			Equity	4,317	100,241	0.018%
JNLUT Rowe Price Balanced Fund	SEGRO Public Limited Company			Equity	9,261	108,295	0.020%
JNLUT Rowe Price Balanced Fund	Public Storage Operating Company			Equity	4,554	1,657,064	0.299%
JNLUT Rowe Price Balanced Fund	Equity Lifestyle Properties, Inc.			Equity	6,634	476,480	0.086%
JNLUT Rowe Price Balanced Fund	Sun Communities, Inc.			Equity	2,025	27,916	0.005%
JNLUT Rowe Price Balanced Fund	Vornado Realty Trust			Equity	1,828	72,023	0.013%
JNLUT Rowe Price Balanced Fund	The Unite Group PLC			Equity	3,910	49,916	0.009%
JNLUT Rowe Price Balanced Fund	Rexford Industrial Realty, Inc.			Equity	8,522	432,300	0.078%
JNLUT Rowe Price Balanced Fund	Simon Property Group, Inc.			Equity	2,640	446,213	0.081%
JNLUT Rowe Price Balanced Fund	Essex Property Trust, Inc.			Equity	1,395	415,529	0.075%
JNLUT Rowe Price Balanced Fund	American Tower Corporation			Equity	3,015	701,168	0.127%
JNLUT Rowe Price Balanced Fund	Revlon Inc.			Equity	1,828	58,825	0.011%
JNLUT Rowe Price Balanced Fund	Host Hotels & Resorts, Inc.			Equity	527	9,381	0.002%
JNLUT Rowe Price Balanced Fund	Gemina			Equity	349	40,134	0.007%
JNLUT Rowe Price Balanced Fund	CBRE Group, Inc.			Equity	610	75,933	0.014%
JNLUT Rowe Price Balanced Fund	AvalonBay Communities, Inc.			Equity	1,682	381,730	0.069%
JNLUT Rowe Price Balanced Fund	Weyerhaeuser Company			Equity	4,029	136,422	0.025%
JNLUT Rowe Price Balanced Fund	Extra Space Storage Inc.			Equity	396	71,355	0.013%
JNLUT Rowe Price Balanced Fund	Big Yellow Group PLC			Equity	2,136	36,267	0.007%
JNLUT Rowe Price Balanced Fund	Denwest London PLC			Equity	1,220	39,474	0.007%
JNLUT Rowe Price Balanced Fund	Great Portland Estates plc			Equity	48,286	230,044	0.042%
JNLUT Rowe Price Balanced Fund	Ventas, Inc.			Equity	4,505	288,906	0.052%
JNLUT Rowe Price Balanced Fund	Terreno Realty Corporation			Equity	3,275	220,473	0.040%
JNLUT Rowe Price Balanced Fund	Welltower Inc.			Equity	4,798	614,288	0.111%
JNLUT Rowe Price Balanced Fund	Regency Centers Corporation			Equity	5,256	383,162	0.069%
JNLUT Rowe Price Balanced Fund	EPRI Properties			Equity	216	10,654	0.002%
JNLUT Rowe Price Balanced Fund	Canadian Apartment Properties Real Estate Investment Trust			Equity	946	38,551	0.007%
JNLUT Rowe Price Balanced Fund	Japan Metropolitan Fund Investment Corporation			Equity	33	22,750	0.004%
JNLUT Rowe Price Balanced Fund	Goodman Funding Pty Ltd			Equity	6,503	166,862	0.030%
JNLUT Rowe Price Balanced Fund	Scantree Group Limited			Equity	285,201	72,893	0.013%
JNLUT Rowe Price Balanced Fund	Douglas Emmett, Inc.			Equity	3,440	61,094	0.011%
JNLUT Rowe Price Balanced Fund	SBA Communications Corporation			Equity	701	168,731	0.030%
JNLUT Rowe Price Balanced Fund	VICI Properties Inc.			Equity	3,688	124,442	0.022%
JNLUT Rowe Price Balanced Fund	Kosmos Energy Ltd			Equity	8,487	34,203	0.006%
JNLUT Rowe Price Balanced Fund	Mitsui Fudosan Logistics Park Inc.			Equity	7	21,598	0.004%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	11/20/2047	4.00	Fixed Income	25,876	25,334	0.005%
JNLUT Rowe Price Balanced Fund	Energy Transfer LP	4/15/2029	5.25	Fixed Income	120,000	126,310	0.023%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	12/20/2047	3.50	Fixed Income	70,525	67,078	0.012%
JNLUT Rowe Price Balanced Fund	T. Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	6,127,612	6,149,019	1.110%
JNLUT Rowe Price Balanced Fund	Chicago Transit Authority	12/1/2040	6.90	Fixed Income	281,386	328,114	0.059%
JNLUT Rowe Price Balanced Fund	Spectrum Management Holding Company, LLC	5/1/2037	6.55	Fixed Income	425,000	432,742	0.078%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2048	4.00	Fixed Income	200,756	195,654	0.036%
JNLUT Rowe Price Balanced Fund	California, State of	4/1/2039	7.55	Fixed Income	240,000	310,714	0.056%
JNLUT Rowe Price Balanced Fund	Tanja Resources Partners LP	1/15/2028	5.00	Fixed Income	136,000	137,321	0.025%
JNLUT Rowe Price Balanced Fund	Kimco Realty OP, LLC	2/1/2025	3.30	Fixed Income	150,000	149,910	0.027%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2029	0.88	Fixed Income	25,000	12,128	0.002%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2039	1.75	Fixed Income	50,000	75,959	0.014%
JNLUT Rowe Price Balanced Fund	Akzo Nobel N.V.			Equity	6,476	457,667	0.083%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2029	2.50	Fixed Income	90,000	138,237	0.025%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	4/15/2029	3.88	Fixed Income	90,000	193,148	0.035%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2042	0.75	Fixed Income	135,000	156,771	0.028%
JNLUT Rowe Price Balanced Fund	Lockheed Martin Corporation	1/15/2026	3.55	Fixed Income	125,000	125,057	0.023%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	7/15/2025	0.38	Fixed Income	12,600	16,477	0.003%
JNLUT Rowe Price Balanced Fund	ArlingHouse-Busch InBev Worldwide Inc.	12/3/2039	5.45	Fixed Income	275,000	297,254	0.054%
JNLUT Rowe Price Balanced Fund	UBS Group AG	9/24/2025	4.13	Fixed Income	375,000	373,875	0.069%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2026	0.63	Fixed Income	91,900	119,458	0.022%
JNLUT Rowe Price Balanced Fund	Sigma Holdco B.V.	5/15/2026	7.88	Fixed Income	257,000	262,837	0.047%
JNLUT Rowe Price Balanced Fund	Abbvie Inc.	5/14/2026	3.20	Fixed Income	300,000	299,842	0.054%
JNLUT Rowe Price Balanced Fund	Morgan Stanley	7/27/2026	3.13	Fixed Income	275,000	271,689	0.049%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	7/15/2026	0.13	Fixed Income	85,000	108,745	0.020%
JNLUT Rowe Price Balanced Fund	Apa Infrastructure Limited	7/15/2027	4.25	Fixed Income	225,000	226,851	0.041%
JNLUT Rowe Price Balanced Fund	Goldman Sachs Group, Inc., The	1/26/2027	3.85	Fixed Income	550,000	548,960	0.099%
JNLUT Rowe Price Balanced Fund	Hess Corporation	4/1/2027	4.30	Fixed Income	150,000	153,133	0.028%
JNLUT Rowe Price Balanced Fund	Becton, Dickinson and Company	6/6/2027	3.70	Fixed Income	180,000	179,634	0.032%
JNLUT Rowe Price Balanced Fund	Republic Services, Inc.	11/15/2027	3.38	Fixed Income	100,000	99,271	0.018%
JNLUT Rowe Price Balanced Fund	Eversource Energy	1/15/2028	3.30	Fixed Income	100,000	97,282	0.018%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2038	0.50	Fixed Income	60,000	61,814	0.011%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2032	2.50	Fixed Income	43,870	42,372	0.008%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2032	2.50	Fixed Income	47,418	45,635	0.008%
JNLUT Rowe Price Balanced Fund	Altria Group, Inc.	2/14/2039	5.80	Fixed Income	200,000	211,938	0.038%
JNLUT Rowe Price Balanced Fund	AT&T Inc.	3/1/2029	4.35	Fixed Income	35,000	35,298	0.006%
JNLUT Rowe Price Balanced Fund	Keurig Dr Pepper Inc.			Equity	25,715	971,715	0.175%
JNLUT Rowe Price Balanced Fund	Amazon.com, Inc.	8/22/2037	3.88	Fixed Income	225,000	212,631	0.038%
JNLUT Rowe Price Balanced Fund	Comfiora Residential REIT, Inc			Equity	22	50,477	0.009%
JNLUT Rowe Price Balanced Fund	Comcast Corporation	3/1/2038	3.90	Fixed Income	200,000	181,387	0.033%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	12/1/2047	3.00	Fixed Income	30,717	29,175	0.005%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	11/15/2041	3.13	Fixed Income	485,000	434,040	0.078%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	8/20/2042	3.50	Fixed Income	146,089	140,677	0.025%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	4/20/2043	3.50	Fixed Income	55,406	53,301	0.010%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2042	3.50	Fixed Income	28,842	27,465	0.005%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2049	4.00	Fixed Income	10,499	10,245	0.002%
JNLUT Rowe Price Balanced Fund	Bank of America Corporation	3/15/2050	4.33	Fixed Income	175,000	159,218	0.029%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2046	3.50	Fixed Income	17,442	16,620	0.003%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	12/20/2048	5.50	Fixed Income	24,281	25,168	0.005%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2049	5.50	Fixed Income	6,798	7,013	0.001%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	3/20/2049	5.50	Fixed Income	8,733	9,063	0.002%
JNLUT Rowe Price Balanced Fund	Tenaris S.A.			Equity	1,129	35,891	0.006%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2044	1.38	Fixed Income	55,000	67,896	0.012%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	11/15/2044	3.00	Fixed Income	350,000	295,888	0.053%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2045	0.75	Fixed Income	50,000	52,420	0.010%
JNLUT Rowe Price Balanced Fund	Clarios Global LP	5/15/2027	8.50	Fixed Income	235,000	243,612	0.044%
JNLUT Rowe Price Balanced Fund	Abbvie Inc.	5/14/2045	4.70	Fixed Income	100,000	98,873	0.018%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	9/20/2045	4.00	Fixed Income	69,666	68,511	0.012%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2041	4.50	Fixed Income	105,475	106,789	0.019%
JNLUT Rowe Price Balanced Fund	Samsonite International S.A.			Equity	84,900	129,068	0.041%
JNLUT Rowe Price Balanced Fund	BRE Grand Islander Timeshare Issue 2019-A LLC	9/26/2033	3.28	Fixed Income	21,889	21,425	0.004%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2033	3.00	Fixed Income	27,283	26,625	0.005%
JNLUT Rowe Price Balanced Fund	Tradeweb Markets Inc.			Equity	835	103,264	0.019%
JNLUT Rowe Price Balanced Fund	Alcon AG			Equity	5,146	51,112	0.009%
JNLUT Rowe Price Balanced Fund	CF 2019-CF1 Mortgage Trust	5/17/2052	4.41	Fixed Income	155,000	105,143	0.019%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2047	3.00	Fixed Income	43,634	40,538	0.007%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2043	3.00	Fixed Income	34,577	32,151	0.006%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2043	3.00	Fixed Income	51,154	47,571	0.009%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2043	3.00	Fixed Income	12,743	11,859	0.002%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2044	3.00	Fixed Income	94,946	88,257	0.016%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2043	3.00	Fixed Income	3,962	3,880	0.001%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2047	4.00	Fixed Income	78,955	77,393	0.014%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2045	3.50	Fixed Income	137,258	132,183	0.024%
JNLUT Rowe Price Balanced Fund	Navigent Private Education REFI Loan Trust 2019-C	7/15/2028	3.13	Fixed Income	46,748	45,802	0.008%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	5/20/2043	3.50	Fixed Income	79,308	75,923	0.014%
JNLUT Rowe Price Balanced Fund	Uber Technologies, Inc.			Equity	4,783	359,490	0.065%
JNLUT Rowe Price Balanced Fund	FirstEnergy Transmission, LLC	1/15/2025	4.35	Fixed Income	250,000	251,458	0.045%
JNLUT Rowe Price Balanced Fund	Regency Centers, L.P.	2/1/2027	3.60	Fixed Income	100,000	99,024	0.018%
JNLUT Rowe Price Balanced Fund	LYB International Finance I.B.V.	9/2/2027	3.50	Fixed Income	325,000	319,655	0.058%
JNLUT Rowe Price Balanced Fund	Fiserv, Inc.	7/1/2026	3.20	Fixed Income	110,000	109,941	0.020%
JNLUT Rowe Price Balanced Fund	W.P. Carey Inc.	7/15/2029	3.85	Fixed Income	150,000	146,915	0.027%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	6/20/2049	5.00	Fixed Income	81,639	83,303	0.015%
JNLUT Rowe Price Balanced Fund	Vodafone Group Public Limited Company	6/19/2049	4.88	Fixed Income	215,000	200,863	0.036%
JNLUT Rowe Price Balanced Fund	CrowdStrike Holdings, Inc.			Equity	918	257,471	0.046%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2047	3.00	Fixed Income	19,518	17,986	0.003%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2047	4.00	Fixed Income	70,430	69,080	0.012%
JNLUT Rowe Price Balanced Fund	ERO Copper Corp.			Equity	6,646	147,962	0.027%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2042	3.50	Fixed Income	252,243	242,996	0.044%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2045	3.50	Fixed Income	53,687	51,173	0.009%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2045	3.00	Fixed Income	208,569	193,647	0.035%
JNLUT Rowe Price Balanced Fund	Minubishi Logistics Corporation			Equity	600	22,287	0.004%
JNLUT Rowe Price Balanced Fund	Mineral Resources Limited			Equity	864	31,021	0.006%
JNLUT Rowe Price Balanced Fund	ARE Holdings, Inc.	9/25/2049	2.92	Fixed Income	405	5,173	0.001%
JNLUT Rowe Price Balanced Fund	BE Semiconductor Industries N.V.			Equity	2,116	268,959	0.049%
JNLUT Rowe Price Balanced Fund	Napierree Industrial Trust			Equity	25,300	47,876	0.009%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2047	3.00	Fixed Income	45,424	42,021	0.008%
JNLUT Rowe Price Balanced Fund	Uthmaniyah Technologies, Inc.			Equity	3,455	822,078	0.148%
JNLUT Rowe Price Balanced Fund	Blackstone Inc.			Equity	414	63,396	0.011%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2046	3.00	Fixed Income	97,240	89,956	0.016%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	6/20/2048	5.00	Fixed Income	52,622	53,793	0.010%
JNLUT Rowe Price Balanced Fund	Impala Platinum Holdings Limited			Equity	19,227	182,871	0.031%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2049	3.50	Fixed Income	13,001	12,374	0.002%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	7/15/2029	0.25	Fixed Income	90,000	105,074	0.019%
JNLUT Rowe Price Balanced Fund	Trivium Packaging Finance B.V.	8/15/2027	8.50	Fixed Income	235,000	238,004	0.043%
JNLUT Rowe Price Balanced Fund	Texas A&M University	5/15/2026	3.20	Fixed Income	120,000	119,617	0.020%
JNLUT Rowe Price Balanced Fund	Osac Holdings, Inc.	8/1/2027	10.75	Fixed Income	450,000	465,684	0.084%
JNLUT Rowe Price Balanced Fund	American Airlines, Inc. Class AA Pass Through Certificates, Series 2019-1	2/15/2032	3.16	Fixed Income	294,783	272,269	0.049%
JNLUT Rowe Price Balanced Fund	Santana Mining Inc.			Equity	3,437	44,784	0.008%
JNLUT Rowe Price Balanced Fund	Comma-Spent Health	10/1/2024	2.76	Fixed Income	105,000	106,049	0.019%
JNLUT Rowe Price Balanced Fund	Dallas-Fort Worth International Airport Facility Improvement Corporation	11/1/2038	2.99	Fixed Income	160,000	140,984	0.025%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2049	4.50	Fixed Income	22,834	22,904	0.004%
JNLUT Rowe Price Balanced Fund	SBA Towers, LLC	1/15/2025	2.84	Fixed Income	265,000	264,055	0.048%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2046	3.00	Fixed Income	161,746	148,517	0.027%
JNLUT Rowe Price Balanced Fund	HDFC Bank Limited			Equity	27,389	363,472	0.102%
JNLUT Rowe Price Balanced Fund	Corporacion Nacional del Cobre de Chile	9/30/2029	3.00	Fixed Income	305,000	282,331	0.051%
JNLUT Rowe Price Balanced Fund	Telecel Canada	10/15/2027	6.50	Fixed Income	182,827	66,136	0.012%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	9/20/2049	3.00	Fixed Income	3,464	3,463	0.001%
JNLUT Rowe Price Balanced Fund	Stanwood Mortgage Residential Trust 2019-INV1			Equity	80,165	80,159	0.014%
JNLUT Rowe Price Balanced Fund	OBX 2019-EXP3 Trust	9/25/2059	3.50	Fixed Income	14,513	13,390	0.002%
JNLUT Rowe Price Balanced Fund	OBX 2019-EXP3 Trust	9/25/2059	6.07	Fixed Income	7,049	6,947	0.001%
JNLUT Rowe Price Balanced Fund	Celoxosa Aracuco y Constitucion S.A.	1/29/2030	4.20	Fixed Income	200,000	193,461	0.035%
JNLUT Rowe Price Balanced Fund	Comcast Corporation	2/1/2030	2.65	Fixed Income	70,000	65,118	0.012%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2046	4.50	Fixed Income	156,018	157,814	0.028%
JNLUT Rowe Price Balanced Fund	Gen Digital Inc.			Equity	5,356	146,915	0.027%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2047	3.50	Fixed Income	9,415	8,967	0.002%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2049	4.00	Fixed Income	4,605	4,485	0.001%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	10/20/2049	3.00	Fixed Income	24,654	22,078	0.004%
JNLUT Rowe Price Balanced Fund	Ellington Financial Mortgage Trust 2019-2	11/25/2059	3.05	Fixed Income	12,933	12,400	0.002%
JNLUT Rowe Price Balanced Fund	Hastrol, Inc.	11/19/2024	3.00	Fixed Income	155,000	156,168	0.028%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.00	Fixed Income	29,529	24,626	0.004%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	6/20/2046	3.00	Fixed Income	20,153	18,595	0.003%
JNLUT Rowe Price Balanced Fund	Cameron LNG, LLC	7/15/2031	2.90	Fixed Income	55,000	49,718	0.009%
JNLUT Rowe Price Balanced Fund	Cameron LNG, LLC	1/15/2039	3.70	Fixed Income	50,000	43,467	0.008%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2044	3.50	Fixed Income	189,401	176,953	0.032%
JNLUT Rowe Price Balanced Fund	Trust Financial Corporation			Equity	652	27,686	0.005%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.50	Fixed Income	448	447	0.000%
JNLUT Rowe Price Balanced Fund	Bill Holdings, Inc.			Equity	1,439	75,922	0.014%
JNLUT Rowe Price Balanced Fund	Open House Group Co., Ltd.			Equity	600	22,842	0.004%
JNLUT Rowe Price Balanced Fund	Wesdome Gold Mines Ltd.			Equity	6,433	46,825	0.011%
JNLUT Rowe Price Balanced Fund	Energy Transfer LP	5/15/2030	3.75	Fixed Income	75,000	72,702	0.013%
JNLUT Rowe Price Balanced Fund	Equitable Holdings, Inc.			Equity	1,625	68,299	0.012%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	5/15/2043	3.00	Fixed Income	35,941	33,514	0.006%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2043	3.00	Fixed Income	10,601	10,311	0.002%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	8/20/2046	3.00	Fixed Income	98,835	91,197	0.016%
JNLUT Rowe Price Balanced Fund	Colliers International Group Inc.			Equity	419	63,608	0.011%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	1/20/2050	3.00	Fixed Income	66,951	59,997	0.011%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2035	3.00	Fixed Income	19,736	19,017	0.003%
JNLUT Rowe Price Balanced Fund	Venus Securitization Trust 2020-1	1/25/2060	3.02	Fixed Income	200,000	190,070	0.034%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2030	0.13	Fixed Income	60,000	68,466	0.012%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2047	4.00	Fixed Income	97,560	95,324	0.017%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2050	4.50	Fixed Income	9,381	9,378	0.002%
JNLUT Rowe Price Balanced Fund	Discover Bank	2/6/2030	2.70	Fixed Income	250,000	225,692	0.041%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2034	3.00	Fixed Income	42,584	41,247	0.007%
JNLUT Rowe Price Balanced Fund	SMB Private Education Loan Trust 2020-A	9/15/2037	2.23	Fixed Income	44,498	42,599	0.008%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2049	4.50	Fixed Income	8,268	8,268	0.001%
JNLUT Rowe Price Balanced Fund	Nelnet Student Loan Trust 2020-1	3/26/2068	5.71	Fixed Income	39,586	39,112	0.007%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2050	2.00	Fixed Income	940,000	614,870	0.111%
JNLUT Rowe Price Balanced Fund	OBX 2020-EXP1 Trust	1/26/2060	5.92	Fixed Income	12,088	11,689	0.002%
JNLUT Rowe Price Balanced Fund	OBX 2020-EXP1 Trust	1/25/2060	3.50	Fixed Income	52,531	47,609	0.009%
JNLUT Rowe Price Balanced Fund	Mitsubishi UFJ Financial Group Inc	2/25/2025	2.19	Fixed Income	400,000	396,460	0.072%
JNLUT Rowe Price Balanced Fund	Datadog, Inc.			Equity	1,022	117,591	0.021%
JNLUT Rowe Price Balanced Fund	Osac Financial Services, Inc.	11/30/2027	6.50	Equity	6,495	127,367	0.023%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2041	4.50	Fixed Income	109,939	111,307	0.020%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2035	3.00	Fixed Income	47,402	45,825	0.008%
JNLUT Rowe Price Balanced Fund	Sibanye Stillwater			Equity	32,532	33,509	0.006%
JNLUT Rowe Price Balanced Fund	Ingersoll Rand Inc.			Equity	915	89,816	0.016%
JNLUT Rowe Price Balanced Fund	Trane Technologies Public Limited Company			Equity	284	110,399	0.020%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	2/1/2050	4.00	Fixed Income	164,590	159,482	0.029%
JNLUT Rowe Price Balanced Fund	Verizon Communications Inc.	3/22/2050	4.00	Fixed Income	150,000	124,961	0.023%
JNLUT Rowe Price Balanced Fund	Howmet Aerospace Inc.			Equity	1,142	114,486	0.021%
JNLUT Rowe Price Balanced Fund	Carrier Global Corporation			Equity	1,987	159,934	0.029%
JNLUT Rowe Price Balanced Fund	RTX Corporation			Equity	1,382	167,668	0.030%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2040	5.00	Fixed Income	9,697	9,999	0.002%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	12/1/2041	5.00	Fixed Income	31,247	32,227	0.006%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2045	5.00	Fixed Income	7,532	7,766	0.001%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2049	4.50	Fixed Income	53,847	52,545	0.009%
JNLUT Rowe Price Balanced Fund	Banco Santander Mexico S.A., Institucion De Banca Multiple, Grupo Financiero Santander Mexico	4/1/2025	5.38	Fixed Income	155,000	158,902	0.029%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2046	4.50	Fixed Income	105,078	106,387	0.019%
JNLUT Rowe Price Balanced Fund	Government National Mortgage Association	4/20/2050	3.00	Fixed Income	52,193	46,741	0.008%
JNLUT Rowe Price Balanced Fund	National Securities Clearing Corporation	4/23/2025	1.50	Fixed Income	85,000	85,190	0.015%
JNLUT Rowe Price Balanced Fund	Wells Fargo & Company	4/30/2041	3.07	Fixed Income	535,000	426,906	0.077%
JNLUT Rowe Price Balanced Fund	Air Products and Chemicals, Inc.	10/15/2025	1.50	Fixed Income	15,000	14,702	0.003%
JNLUT Rowe Price Balanced Fund	Biogen Inc.	5/1/2030	2.25	Fixed Income	320,000	288,784	0.052%
JNLUT Rowe Price Balanced Fund	Ballays PLC	5/7/2026	2.85	Fixed Income	250,000	249,735	0.045%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2050	4.00	Fixed Income	89,272	82,389	0.015%
JNLUT Rowe Price Balanced Fund	Altria Group, Inc.	5/6/2025	2.35	Fixed Income	20,000	19,884	0.004%
JNLUT Rowe Price Balanced Fund	América Móvil, S.A.B. De C.V.	5/7/2030	2.88	Fixed Income	250,000	233,340	0.042%
JNLUT Rowe Price Balanced Fund	Verity Holdings Co			Equity	500	49,745	0.009%
JNLUT Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2049	5.00	Fixed Income	185,572	168,668	0.030%
JNLUT Rowe Price Balanced Fund	Capital One Financial Corporation	5/1/2027	3.65	Fixed Income	240,000	239,025	0.043%
JNLUT Rowe Price Balanced Fund	JPMorgan Chase & Co.	5/1/2031	2.96	Fixed Income	110,000	102,470	0.018%
JNLUT Rowe Price Balanced Fund	WHA Corporation Public Company Limited			Equity	161,500	27,375	0.005%
JNLUT Rowe Price Balanced Fund	Becton, Dickinson and Company	5/20/2030	2.82	Fixed Income	140,000	130,112	0.024%
JNLUT Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2040	3.00	Fixed Income	221,488	209,119	0.038%
JNLUT Rowe Price Balanced Fund	Treasury, United States Department of	5/15/2030	0.63	Fixed Income	700,000	595,996	0.108

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT, Rowe Price Balanced Fund	AT&T Inc.	6/1/2041	3.50	Fixed Income	230.000	191.025	0.034%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2050	4.50	Fixed Income	23.846	23.846	0.004%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2050	4.50	Fixed Income	26.949	26.996	0.005%
JNLUT, Rowe Price Balanced Fund	Wells Fargo & Company	6/2/2028	2.39	Fixed Income	155.000	148.672	0.027%
JNLUT, Rowe Price Balanced Fund	Dynatrace, Inc.			Equity	1.200	64.164	0.012%
JNLUT, Rowe Price Balanced Fund	BNP Paribas	6/9/2026	2.22	Fixed Income	245.000	242.090	0.044%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2048	3.00	Fixed Income	4,675.000	3,807.584	0.687%
JNLUT, Rowe Price Balanced Fund	Carvana Co.			Equity	6.080	1,056.589	0.191%
JNLUT, Rowe Price Balanced Fund	Crown Castle Inc.	1/15/2031	2.25	Fixed Income	185.000	161.314	0.029%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	6/1/2033	3.50	Fixed Income	31.233	30.798	0.006%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2033	3.50	Fixed Income	93.101	91.869	0.017%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2050	3.00	Fixed Income	241.699	220.950	0.040%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	7/1/2050	2.50	Fixed Income	255.187	222.756	0.040%
JNLUT, Rowe Price Balanced Fund	Venus Securitization Trust 2020-1	12/25/2060	2.72	Fixed Income	43.917	42.875	0.008%
JNLUT, Rowe Price Balanced Fund	Pacific Gas And Electric Company	1/1/2050	2.10	Fixed Income	135.000	177.000	0.056%
JNLUT, Rowe Price Balanced Fund	Perrigo Finance Unlimited Company	6/15/2030	4.90	Fixed Income	315.000	311.419	0.056%
JNLUT, Rowe Price Balanced Fund	Bank of America Corporation	6/19/2041	2.68	Fixed Income	340.000	258.349	0.047%
JNLUT, Rowe Price Balanced Fund	GS Mortgage-Backed Securities Trust 2020-INV1	11/25/2041	2.94	Fixed Income	68.651	60.643	0.011%
JNLUT, Rowe Price Balanced Fund	COLT 2020-3 Mortgage Loan Trust	4/27/2065	1.51	Fixed Income	7.547	7.246	0.001%
JNLUT, Rowe Price Balanced Fund	Canadian Natural Resources Limited	7/15/2030	2.95	Fixed Income	170.000	156.419	0.028%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2049	3.00	Fixed Income	158.831	144.848	0.026%
JNLUT, Rowe Price Balanced Fund	TotalEnergies Capital International	6/29/2041	2.99	Fixed Income	265.000	207.937	0.038%
JNLUT, Rowe Price Balanced Fund	Driven Brands Funding, LLC	7/22/2050	3.79	Fixed Income	81.600	78.976	0.014%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2050	3.00	Fixed Income	52.516	47.433	0.009%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2035	3.00	Fixed Income	10.280	9.938	0.002%
JNLUT, Rowe Price Balanced Fund	Citigroup Commercial Mortgage Trust	5/11/2035	3.63	Fixed Income	100.000	95.896	0.017%
JNLUT, Rowe Price Balanced Fund	Duke Energy Progress, LLC	10/15/2046	3.70	Fixed Income	100.000	82.190	0.015%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.50	Fixed Income	188.394	176.630	0.032%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2046	3.00	Fixed Income	1,278.526	1,176.359	0.212%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	5/20/2048	5.00	Fixed Income	39.726	36.554	0.007%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2048	3.50	Fixed Income	642.288	609.200	0.109%
JNLUT, Rowe Price Balanced Fund	Teachers Insurance And Annuity Association of America	5/15/2042	4.27	Fixed Income	400.000	353.327	0.064%
JNLUT, Rowe Price Balanced Fund	NiSource Finance Corp.	3/30/2048	3.95	Fixed Income	150.000	123.332	0.022%
JNLUT, Rowe Price Balanced Fund	Omnicom Group Inc.	11/1/2024	3.65	Fixed Income	100.000	101.455	0.018%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	5/15/2038	4.50	Fixed Income	2,320.000	2,509.509	0.453%
JNLUT, Rowe Price Balanced Fund	AMP AMRO Bank N.V.	7/28/2025	4.75	Fixed Income	325.000	326.002	0.006%
JNLUT, Rowe Price Balanced Fund	Expedia Group, Inc.	2/15/2026	5.00	Fixed Income	73.000	73.873	0.013%
JNLUT, Rowe Price Balanced Fund	Ventas Realty, Limited Partnership	10/15/2026	3.25	Fixed Income	170.000	168.641	0.030%
JNLUT, Rowe Price Balanced Fund	Roper Technologies, Inc.	12/15/2026	3.80	Fixed Income	375.000	371.094	0.068%
JNLUT, Rowe Price Balanced Fund	Enbridge Inc.	12/1/2026	4.25	Fixed Income	475.000	278.212	0.050%
JNLUT, Rowe Price Balanced Fund	O'Reilly Automotive, Inc.	9/1/2027	3.60	Fixed Income	150.000	148.114	0.027%
JNLUT, Rowe Price Balanced Fund	Boardwalk Pipelines, LP	7/15/2027	4.45	Fixed Income	100.000	101.135	0.018%
JNLUT, Rowe Price Balanced Fund	Mucor Corporation	5/1/2028	3.95	Fixed Income	233.000	236.224	0.043%
JNLUT, Rowe Price Balanced Fund	JPMorgan Chase & Co.	1/1/2027	3.63	Fixed Income	380.000	299.084	0.054%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2038	3.00	Fixed Income	36.935	35.173	0.006%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2044	5.50	Fixed Income	145.180	151.469	0.027%
JNLUT, Rowe Price Balanced Fund	Williams Partners L.P.	9/15/2045	5.10	Fixed Income	175.000	166.833	0.030%
JNLUT, Rowe Price Balanced Fund	AT&T Inc.	1/1/2032	2.25	Fixed Income	290.000	249.488	0.045%
JNLUT, Rowe Price Balanced Fund	Dallas-Fort Worth International Airport Facility Improvement Corporation	11/1/2040	3.09	Fixed Income	260.000	216.081	0.039%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	10/15/2054	2.50	Fixed Income	240.000	211.401	0.038%
JNLUT, Rowe Price Balanced Fund	Harvest Midstream L.L.P.	9/1/2028	7.50	Fixed Income	130.000	133.778	0.024%
JNLUT, Rowe Price Balanced Fund	Morgan Stanley Capital I Trust 2014-150E	6/13/2032	3.91	Fixed Income	220.000	181.939	0.035%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	84.640	70.582	0.013%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2034	3.00	Fixed Income	167.090	163.157	0.029%
JNLUT, Rowe Price Balanced Fund	Bay Area Toll Authority	10/1/2050	6.91	Fixed Income	235.000	296.487	0.054%
JNLUT, Rowe Price Balanced Fund	Mettie Securitization Trust 2018-1	9/25/2029	102.636	Fixed Income	99.855	89.855	0.016%
JNLUT, Rowe Price Balanced Fund	Municipal Electric Authority of Georgia	4/1/2057	6.66	Fixed Income	328.000	386.126	0.070%
JNLUT, Rowe Price Balanced Fund	Descartes Systems Group Inc., The			Equity	481	49.524	0.009%
JNLUT, Rowe Price Balanced Fund	Evotec SE			Equity	7.010	50.341	0.009%
JNLUT, Rowe Price Balanced Fund	IGO Limited			Equity	50.821	205.975	0.037%
JNLUT, Rowe Price Balanced Fund	Harmony Gold Mining Company	1/1/2052	2.50	Fixed Income	4.395	4.395	0.000%
JNLUT, Rowe Price Balanced Fund	Worleyparadise			Equity	46.280	482.364	0.087%
JNLUT, Rowe Price Balanced Fund	Elekta AB (publ)			Equity	39.072	278.880	0.050%
JNLUT, Rowe Price Balanced Fund	Centamin PLC			Equity	20.335	39.830	0.007%
JNLUT, Rowe Price Balanced Fund	IPMCC Commercial Mortgage Securities Trust 2016-IP2	7/1/2026	3.06	Fixed Income	455.000	405.018	0.073%
JNLUT, Rowe Price Balanced Fund	American Municipal Power, Inc.	2/15/2044	6.45	Fixed Income	250.000	283.595	0.051%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2050	1.38	Fixed Income	380.000	210.024	0.038%
JNLUT, Rowe Price Balanced Fund	Storebrand ASA			Equity	58.399	642.466	0.116%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/31/2025	0.25	Fixed Income	100.000	96.115	0.017%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2047	5.00	Fixed Income	10.227	10.502	0.002%
JNLUT, Rowe Price Balanced Fund	Transurban Finance Company Pty Ltd	3/16/2031	2.45	Fixed Income	145.000	125.939	0.023%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2044	5.50	Fixed Income	24.610	25.688	0.005%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2049	4.50	Fixed Income	73.213	72.453	0.013%
JNLUT, Rowe Price Balanced Fund	Cox Communications, Inc.	10/1/2050	2.95	Fixed Income	295.000	189.129	0.034%
JNLUT, Rowe Price Balanced Fund	Oregon Department of Transportation	11/15/2032	1.76	Fixed Income	190.000	160.829	0.029%
JNLUT, Rowe Price Balanced Fund	Snowflake Inc.			Equity	690	78.105	0.014%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2048	3.50	Fixed Income	136.716	129.430	0.023%
JNLUT, Rowe Price Balanced Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	245.000	249.659	0.045%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	5/20/2048	5.00	Fixed Income	3.474	3.541	0.001%
JNLUT, Rowe Price Balanced Fund	Government National Mortgage Association	6/20/2048	5.00	Fixed Income	11.735	11.964	0.002%
JNLUT, Rowe Price Balanced Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-609M	10/1/2033	7.07	Fixed Income	250.000	243.289	0.044%
JNLUT, Rowe Price Balanced Fund	Ford Credit Auto Owner Trust 2020-REV2	10/15/2025	1.74	Fixed Income	170.000	164.039	0.030%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2033	1.13	Fixed Income	20.000	20.430	0.004%
JNLUT, Rowe Price Balanced Fund	Vistra Corp.	1/1/2200	8.00	Fixed Income	442.000	478.536	0.086%
JNLUT, Rowe Price Balanced Fund	Tenet Healthcare Corporation	2/1/2027	6.25	Fixed Income	230.000	232.792	0.042%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	274.739	277.879	0.049%
JNLUT, Rowe Price Balanced Fund	Ocane Receivables Trust 2023-1	5/21/2029	5.87	Fixed Income	35.960	36.194	0.007%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2053	6.00	Fixed Income	186.746	194.471	0.035%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2053	6.00	Fixed Income	208.922	217.694	0.039%
JNLUT, Rowe Price Balanced Fund	GM Financial Automobile Financing Trust 2023-1	11/1/2023	5.76	Fixed Income	65.000	60.126	0.012%
JNLUT, Rowe Price Balanced Fund	Ford Credit Auto Owner Trust 2023-REV1	2/15/2028	4.85	Fixed Income	285.000	290.793	0.052%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2053	3.63	Fixed Income	235.000	214.754	0.039%
JNLUT, Rowe Price Balanced Fund	Transdigm Inc.	8/15/2028	6.75	Fixed Income	240.000	249.317	0.045%
JNLUT, Rowe Price Balanced Fund	Venus Securitization Trust 2023-INV1	2/25/2068	6.00	Fixed Income	99.094	100.185	0.018%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2043	3.88	Fixed Income	475.000	460.726	0.083%
JNLUT, Rowe Price Balanced Fund	Sumitomo Mitsui Financial Group, Inc.	1/13/2026	5.46	Fixed Income	200.000	205.200	0.037%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2053	1.50	Fixed Income	9.100	8.728	0.002%
JNLUT, Rowe Price Balanced Fund	Richie Bros. Holdings Inc.	3/15/2028	6.75	Fixed Income	125.000	129.467	0.023%
JNLUT, Rowe Price Balanced Fund	Linde Public Limited Company			Equity	3.961	1,888.842	0.341%
JNLUT, Rowe Price Balanced Fund	Richie Bros. Holdings Inc.	3/15/2031	7.75	Fixed Income	85.000	90.985	0.016%
JNLUT, Rowe Price Balanced Fund	NRG Energy, Inc.	1/1/2020	10.25	Fixed Income	234.000	264.865	0.048%
JNLUT, Rowe Price Balanced Fund	Nestle Holdings, Inc.	3/14/2033	4.85	Fixed Income	250.000	259.626	0.047%
JNLUT, Rowe Price Balanced Fund	Shurgard Self Storage Limited			Equity	1.563	73.243	0.013%
JNLUT, Rowe Price Balanced Fund	Amphenol Corporation	3/30/2026	4.75	Fixed Income	25.000	25.193	0.005%
JNLUT, Rowe Price Balanced Fund	Mercedes-Benz Finance North America LLC	3/30/2026	4.80	Fixed Income	170.000	171.487	0.031%
JNLUT, Rowe Price Balanced Fund	Pioneer Natural Resources Company	3/29/2026	5.10	Fixed Income	55.000	55.795	0.010%
JNLUT, Rowe Price Balanced Fund	Skeena Resources Limited			Equity	6.239	62.978	0.011%
JNLUT, Rowe Price Balanced Fund	Emerald Resources NL			Equity	27.706	73.947	0.013%
JNLUT, Rowe Price Balanced Fund	Dowlat Group PLC			Equity	134.397	107.421	0.019%
JNLUT, Rowe Price Balanced Fund	Melrose Industries PLC			Equity	107.277	655.852	0.118%
JNLUT, Rowe Price Balanced Fund	Canadian Pacific Kansas City Limited	11/15/2029	2.88	Fixed Income	210.000	199.575	0.036%
JNLUT, Rowe Price Balanced Fund	Canadian Pacific Kansas City Limited	5/1/2050	3.50	Fixed Income	180.000	142.345	0.026%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	2/25/2033	4.43	Fixed Income	410.000	415.831	0.075%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	4/15/2028	1.25	Fixed Income	105.000	109.710	0.020%
JNLUT, Rowe Price Balanced Fund	Talen Energy Supply, LLC	6/1/2030	8.63	Fixed Income	225.000	251.780	0.045%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	4/30/2025	3.88	Fixed Income	530.000	537.187	0.097%
JNLUT, Rowe Price Balanced Fund	VistaJet Group Holding SA	6/1/2028	9.50	Fixed Income	250.000	252.010	0.045%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2052	5.00	Fixed Income	72.403	72.784	0.013%
JNLUT, Rowe Price Balanced Fund	Kenvue Inc.			Equity	114.254	2,642.695	0.477%
JNLUT, Rowe Price Balanced Fund	Heartland Dental, LLC	4/30/2028	10.50	Fixed Income	425.000	472.028	0.085%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	5/15/2053	3.63	Fixed Income	2,235.000	2,064.452	0.373%
JNLUT, Rowe Price Balanced Fund	State Street Corporation	5/18/2034	5.16	Fixed Income	205.000	217.124	0.039%
JNLUT, Rowe Price Balanced Fund	Ginnie Mae I	4/20/2053	4.50	Fixed Income	89.290	87.577	0.016%
JNLUT, Rowe Price Balanced Fund	Nexus Select Trust			Equity	18.692	32.517	0.006%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	11/25/2031	2.35	Fixed Income	1,195.000	1,068.184	0.193%
JNLUT, Rowe Price Balanced Fund	IKVIA Inc.	5/15/2030	6.50	Fixed Income	250.000	267.073	0.048%
JNLUT, Rowe Price Balanced Fund	Citigroup Inc.	5/25/2034	6.17	Fixed Income	195.000	147.000	0.027%
JNLUT, Rowe Price Balanced Fund	Enterprise Fleet Financing 2023-2 LLC	10/20/2026	5.56	Fixed Income	255.332	258.154	0.047%
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	4/1/2051	2.00	Fixed Income	101.350	84.453	0.015%
JNLUT, Rowe Price Balanced Fund	Corebridge Financial, Inc.	4/25/2052	4.40	Fixed Income	415.000	384.025	0.066%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	5/31/2028	3.63	Fixed Income	3,825.000	3,877.574	0.690%
JNLUT, Rowe Price Balanced Fund	AerCap Ireland Capital Designated Activity Company	6/6/2028	5.75	Fixed Income	350.000	371.174	0.067%
JNLUT, Rowe Price Balanced Fund	Involve Electric Inc.			Equity	2.489	21.132	0.004%
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	5/15/2043	3.88	Fixed Income	675.000	659.778	0.119%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2053	4.50	Fixed Income	269.203	265.646	0.048%
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2051	2.00	Fixed Income	271.292	226.064	0.041%
JNLUT, Rowe Price Balanced Fund	Angelt Oak Mortgage Trust 2023-3	9/26/2067	4.80	Fixed Income	165.095	167.717	0.030%
JNLUT, Rowe Price Balanced Fund	Civitas Resources, Inc.	7/1/2031	8.75	Fixed Income	220.000	238.016	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT - Rowe Price Balanced Fund	Adient Global Holdings Ltd	4/15/2031	8.25	Fixed Income	190,000	208,939	0.038%
JNLUT - Rowe Price Balanced Fund	Benchmark 2023-V3 Mortgage Trust	8/17/2028	6.36	Fixed Income	271,503	289,503	0.052%
JNLUT - Rowe Price Balanced Fund	City Inc.	7/15/2030	6.63	Fixed Income	242,000	254,827	0.046%
JNLUT - Rowe Price Balanced Fund	LCM Investments Holdings II, LLC	8/1/2031	8.25	Fixed Income	235,000	252,729	0.046%
JNLUT - Rowe Price Balanced Fund	Government of the Province of Manitoba	7/27/2033	4.30	Fixed Income	155,000	157,315	0.028%
JNLUT - Rowe Price Balanced Fund	Fifth Third Bancorp	7/27/2029	6.34	Fixed Income	55,000	59,076	0.011%
JNLUT - Rowe Price Balanced Fund	KCE Minerals Ltd.			Equity	4,686	38,247	0.007%
JNLUT - Rowe Price Balanced Fund	Capstone Copper Corp.			Equity	3,744	29,261	0.005%
JNLUT - Rowe Price Balanced Fund	Waste Management, Inc.	2/15/2034	4.88	Fixed Income	250,000	259,452	0.047%
JNLUT - Rowe Price Balanced Fund	Rogers Communications Inc.	3/15/2042	4.50	Fixed Income	315,000	283,500	0.051%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2033	5.00	Fixed Income	101,902	108,247	0.019%
JNLUT - Rowe Price Balanced Fund	Synchrony Card Issuance Trust	7/15/2026	5.54	Fixed Income	90,000	92,187	0.017%
JNLUT - Rowe Price Balanced Fund	NextEra Energy Capital Holdings, Inc.	9/1/2025	5.75	Fixed Income	155,000	157,338	0.028%
JNLUT - Rowe Price Balanced Fund	Snowline Gold Corp.			Equity	6,306	26,251	0.005%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.50	Fixed Income	405,000	417,549	0.073%
JNLUT - Rowe Price Balanced Fund	Verdant Receivables 2023-1 LLC	6/14/2027	6.24	Fixed Income	82,169	84,056	0.015%
JNLUT - Rowe Price Balanced Fund	PBF Holding Company LLC	9/15/2030	7.88	Fixed Income	235,000	242,849	0.044%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2033	3.88	Fixed Income	200,000	202,646	0.037%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	7/15/2033	1.38	Fixed Income	80,000	81,917	0.015%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2036	2.00	Fixed Income	186,238	171,182	0.031%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2036	2.00	Fixed Income	69,210	63,874	0.012%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2050	2.50	Fixed Income	314,968	277,499	0.050%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2052	2.00	Fixed Income	82,463	69,256	0.012%
JNLUT - Rowe Price Balanced Fund	Six Flags Operations Inc.	5/15/2031	7.25	Fixed Income	435,000	462,107	0.083%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2036	2.00	Fixed Income	110,651	101,498	0.018%
JNLUT - Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	9/1/2036	2.00	Fixed Income	78,985	72,526	0.013%
JNLUT - Rowe Price Balanced Fund	Canvana Co.	3/1/2028		Fixed Income	31,201	33,305	0.006%
JNLUT - Rowe Price Balanced Fund	Canvana Co.	6/1/2030	13.00	Fixed Income	47,378	52,312	0.009%
JNLUT - Rowe Price Balanced Fund	Canvana Co.	6/1/2031	14.00	Fixed Income	56,911	68,056	0.012%
JNLUT - Rowe Price Balanced Fund	AB Group Public Limited Company	9/13/2029	6.61	Fixed Income	200,000	214,519	0.039%
JNLUT - Rowe Price Balanced Fund	Premier Resources Operating, LLC	1/15/2032	7.00	Fixed Income	240,000	253,103	0.046%
JNLUT - Rowe Price Balanced Fund	INC Group N.V.	9/1/2033	8.11	Fixed Income	200,000	218,351	0.039%
JNLUT - Rowe Price Balanced Fund	CaixaBank, S.A.	9/13/2034	6.84	Fixed Income	230,000	257,550	0.046%
JNLUT - Rowe Price Balanced Fund	Government National Mortgage Association	10/15/2054	6.00	Fixed Income	95,000	96,595	0.017%
JNLUT - Rowe Price Balanced Fund	Mohawk Industries, Inc.	9/18/2028	5.85	Fixed Income	160,000	168,694	0.030%
JNLUT - Rowe Price Balanced Fund	T-Mobile USA, Inc.	1/15/2034	5.75	Fixed Income	220,000	238,949	0.043%
JNLUT - Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2052	3.00	Fixed Income	299,351	271,992	0.049%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2053	5.00	Fixed Income	45,288	45,554	0.008%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2053	5.00	Fixed Income	63,919	64,190	0.012%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2033	5.85	Fixed Income	170,841	173,841	0.031%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2053	6.00	Fixed Income	79,400	82,015	0.015%
JNLUT - Rowe Price Balanced Fund	Novo Nordisk A/S			Equity	13,248	1,569,898	0.283%
JNLUT - Rowe Price Balanced Fund	AerCap Ireland Capital Designated Activity Company	9/30/2030	6.15	Fixed Income	150,000	161,672	0.029%
JNLUT - Rowe Price Balanced Fund	MCR Abyss Escrow Corporation	4/1/2029	9.50	Fixed Income	20,000	22,968	0.004%
JNLUT - Rowe Price Balanced Fund	AngloGold Ashanti PLC			Equity	2,289	61,152	0.011%
JNLUT - Rowe Price Balanced Fund	AngloGold Ashanti PLC			Equity	1,665	44,339	0.008%
JNLUT - Rowe Price Balanced Fund	Elara HGV Timshare Issuer 2023-A, LLC	11/25/2030	6.53	Fixed Income	71,328	73,701	0.013%
JNLUT - Rowe Price Balanced Fund	Verabio Corporation			Equity	536	60,056	0.011%
JNLUT - Rowe Price Balanced Fund	Sampo Oy			Equity	17,404	811,755	0.147%
JNLUT - Rowe Price Balanced Fund	Mandatum Holding Oy			Equity	37,710	186,921	0.034%
JNLUT - Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	253,348	258,438	0.047%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2052	2.50	Fixed Income	127,216	110,917	0.020%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2053	6.00	Fixed Income	63,231	64,957	0.012%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2053	5.00	Fixed Income	69,339	69,574	0.013%
JNLUT - Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	9/1/2035	3.50	Fixed Income	58,984	58,267	0.011%
JNLUT - Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	3/1/2037	2.00	Fixed Income	85,738	78,728	0.014%
JNLUT - Rowe Price Balanced Fund	Energy Transfer LP	12/1/2033	6.55	Fixed Income	100,000	112,638	0.020%
JNLUT - Rowe Price Balanced Fund	Wells Fargo & Company	10/23/2029	6.30	Fixed Income	210,000	230,510	0.042%
JNLUT - Rowe Price Balanced Fund	Bank of New York Mellon Corporation, The	10/25/2034	6.47	Fixed Income	225,000	260,969	0.047%
JNLUT - Rowe Price Balanced Fund	American Express Company	10/30/2031	6.49	Fixed Income	335,000	379,524	0.068%
JNLUT - Rowe Price Balanced Fund	Aluminium Bahrain S.L.C.			Equity	8,502	20,000	0.004%
JNLUT - Rowe Price Balanced Fund	Aetec Escrow Issuer 2 Inc	8/15/2030	10.00	Fixed Income	417,000	449,611	0.081%
JNLUT - Rowe Price Balanced Fund	Newmont Corporation			Equity	2,309	124,312	0.022%
JNLUT - Rowe Price Balanced Fund	Hyundai Capital America	11/6/2029	6.50	Fixed Income	70,000	75,923	0.014%
JNLUT - Rowe Price Balanced Fund	Canadian National Railway Company	1/1/2033	215.00	Fixed Income	215,000	216,274	0.044%
JNLUT - Rowe Price Balanced Fund	GATX Corporation	5/1/2034	6.90	Fixed Income	220,000	256,926	0.046%
JNLUT - Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	10/25/2030	4.40	Fixed Income	730,000	741,338	0.134%
JNLUT - Rowe Price Balanced Fund	Williams Scotsman, Inc.	10/1/2031	7.38	Fixed Income	352,000	384,809	0.069%
JNLUT - Rowe Price Balanced Fund	Ford Motor Credit Company LLC	11/7/2033	7.12	Fixed Income	200,000	224,624	0.040%
JNLUT - Rowe Price Balanced Fund	Humana Inc.	3/15/2034	5.95	Fixed Income	165,000	176,849	0.032%
JNLUT - Rowe Price Balanced Fund	PACCAR Financial Corp.	11/6/2026	5.20	Fixed Income	350,000	366,747	0.062%
JNLUT - Rowe Price Balanced Fund	GIP II Seltzer I, L.P.	10/5/2028	8.75	Fixed Income	237,814	237,571	0.043%
JNLUT - Rowe Price Balanced Fund	Entbridge Inc.	11/15/2030	6.20	Fixed Income	40,000	44,504	0.008%
JNLUT - Rowe Price Balanced Fund	HSBC Holdings PLC	11/13/2034	7.40	Fixed Income	200,000	235,132	0.042%
JNLUT - Rowe Price Balanced Fund	Charter Communications Operating, LLC	11/10/2026	6.15	Fixed Income	215,000	226,247	0.041%
JNLUT - Rowe Price Balanced Fund	Volkswagen Group of America, Inc.	11/16/2030	6.45	Fixed Income	400,000	439,175	0.079%
JNLUT - Rowe Price Balanced Fund	Outfront Media Capital Corporation	2/15/2031	7.38	Fixed Income	235,000	257,413	0.046%
JNLUT - Rowe Price Balanced Fund	EG Global Finance PLC	11/30/2028	12.00	Fixed Income	230,000	265,784	0.048%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	11/15/2053	4.75	Fixed Income	760,000	853,198	0.154%
JNLUT - Rowe Price Balanced Fund	O'Reilly Automotive, Inc.	11/20/2026	5.75	Fixed Income	60,000	63,102	0.011%
JNLUT - Rowe Price Balanced Fund	American Honda Finance Corporation	11/15/2028	5.65	Fixed Income	200,000	215,375	0.039%
JNLUT - Rowe Price Balanced Fund	Ameren Corporation	12/1/2026	5.70	Fixed Income	215,000	225,026	0.041%
JNLUT - Rowe Price Balanced Fund	Bayer US Finance LLC	11/21/2030	6.38	Fixed Income	200,000	218,784	0.039%
JNLUT - Rowe Price Balanced Fund	LGI Homes, Inc.	12/15/2028	8.75	Fixed Income	240,000	263,168	0.047%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2053	4.50	Fixed Income	326,018	321,813	0.056%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	11/15/2043	4.75	Fixed Income	310,000	340,550	0.061%
JNLUT - Rowe Price Balanced Fund	MidOcean Credit CLO XI Ltd	10/18/2033	7.01	Fixed Income	250,000	254,246	0.046%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	11/30/2028	4.38	Fixed Income	650,000	679,463	0.123%
JNLUT - Rowe Price Balanced Fund	Kleinfelt Holdings LP	12/15/2028	6.63	Fixed Income	145,000	153,447	0.028%
JNLUT - Rowe Price Balanced Fund	Credit Acceptance Corporation	11/15/2029	6.25	Fixed Income	250,000	274,377	0.050%
JNLUT - Rowe Price Balanced Fund	U.S. Bank National Association	8/25/2032	6.79	Fixed Income	158,186	160,718	0.029%
JNLUT - Rowe Price Balanced Fund	American Electric Power Company, Inc.	11/5/2029	5.20	Fixed Income	310,000	323,475	0.058%
JNLUT - Rowe Price Balanced Fund	Pennymac Financial Services, Inc.	12/15/2029	7.88	Fixed Income	243,000	264,616	0.048%
JNLUT - Rowe Price Balanced Fund	Alliant Holdings, Intermediate, LLC	11/15/2031	7.00	Fixed Income	240,000	250,245	0.045%
JNLUT - Rowe Price Balanced Fund	CVR Energy, Inc.	11/5/2029	8.50	Fixed Income	235,000	240,323	0.043%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2037	2.00	Fixed Income	439,959	403,428	0.073%
JNLUT - Rowe Price Balanced Fund	Banque Nationale Du Canada	12/18/2028	5.60	Fixed Income	385,000	408,628	0.074%
JNLUT - Rowe Price Balanced Fund	Entbridge Inc.	11/5/2034	8.25	Fixed Income	385,000	414,198	0.075%
JNLUT - Rowe Price Balanced Fund	OneMain Finance Corporation	3/15/2030	7.88	Fixed Income	240,000	251,854	0.045%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2053	6.50	Fixed Income	283,254	294,944	0.053%
JNLUT - Rowe Price Balanced Fund	Palmer Square CLO 2020-3, Ltd.	11/17/2036	6.77	Fixed Income	320,000	325,389	0.056%
JNLUT - Rowe Price Balanced Fund	Pt. Arman Mineral International			Equity	20,084	12,000	0.002%
JNLUT - Rowe Price Balanced Fund	Enterprise Products Operating LLC	11/1/2027	4.80	Fixed Income	510,000	520,547	0.094%
JNLUT - Rowe Price Balanced Fund	Duke Energy Corporation	1/5/2027	4.85	Fixed Income	320,000	328,164	0.059%
JNLUT - Rowe Price Balanced Fund	John Deere Capital Corporation	1/8/2027	4.50	Fixed Income	395,000	403,441	0.073%
JNLUT - Rowe Price Balanced Fund	Lloyds Banking Group PLC	11/5/2028	5.46	Fixed Income	200,000	207,097	0.037%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	10/15/2036	2.38	Fixed Income	782,700	843,731	0.152%
JNLUT - Rowe Price Balanced Fund	Williams Companies, Inc., The	3/15/2034	5.15	Fixed Income	55,000	55,692	0.010%
JNLUT - Rowe Price Balanced Fund	Toyota Motor Credit Corporation	1/5/2026	4.80	Fixed Income	350,000	356,766	0.064%
JNLUT - Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2054	6.00	Fixed Income	387,848	398,316	0.072%
JNLUT - Rowe Price Balanced Fund	Aya Gold & Silver Inc.			Equity	4,281	55,710	0.010%
JNLUT - Rowe Price Balanced Fund	Energy Transfer LP	5/15/2054	8.00	Fixed Income	267,000	294,260	0.053%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	1/15/2034	1.75	Fixed Income	310,100	322,159	0.058%
JNLUT - Rowe Price Balanced Fund	Tallgrass Energy Partners, LP	2/15/2029	7.38	Fixed Income	83,000	84,899	0.015%
JNLUT - Rowe Price Balanced Fund	Avolon Holdings Funding Limited	3/10/2029	5.75	Fixed Income	305,000	315,760	0.057%
JNLUT - Rowe Price Balanced Fund	CarMax Auto Owner Trust 2024-1	12/15/2027	5.17	Fixed Income	15,000	15,253	0.003%
JNLUT - Rowe Price Balanced Fund	The Province of Alberta, Government of	1/24/2034	4.50	Fixed Income	330,000	340,467	0.061%
JNLUT - Rowe Price Balanced Fund	Sprint Asset Management LP			Fund	900	17,428	0.003%
JNLUT - Rowe Price Balanced Fund	Yellow Cakes PLC			Equity	2,885	19,366	0.003%
JNLUT - Rowe Price Balanced Fund	SBNA Auto Lease Trust 2024-A	7/20/2026	5.24	Fixed Income	25,000	25,358	0.005%
JNLUT - Rowe Price Balanced Fund	SBNA Auto Lease Trust 2024-A	3/20/2026	5.39	Fixed Income	25,000	25,250	0.005%
JNLUT - Rowe Price Balanced Fund	NGL Energy Operating LLC	2/15/2029	8.13	Fixed Income	235,000	246,508	0.044%
JNLUT - Rowe Price Balanced Fund	Elmwood CLO 201 Ltd	12/1/2037	6.79	Fixed Income	260,000	255,104	0.046%
JNLUT - Rowe Price Balanced Fund	Fulton, County of	7/1/2039	5.15	Fixed Income	329,000	337,072	0.061%
JNLUT - Rowe Price Balanced Fund	Foran Mining Corporation			Equity	9,568	29,642	0.005%
JNLUT - Rowe Price Balanced Fund	Invesco US CLO 2023-1 Ltd	4/22/2037	6.85	Fixed Income	250,000	254,397	0.046%
JNLUT - Rowe Price Balanced Fund	Magnite Inc.	1/31/2031	9.75	Fixed Income	173,647	174,713	0.032%
JNLUT - Rowe Price Balanced Fund	Post Road Equipment Finance 2024-1 LLC	8/15/2026	5.59	Fixed Income	100,000	101,241	0.018%
JNLUT - Rowe Price Balanced Fund	Applied Systems, Inc.	2/7/2031	8.29	Fixed Income	249,375	249,460	0.045%
JNLUT - Rowe Price Balanced Fund	Treasury, United States Department of	2/15/2034	4.00	Fixed Income	800,000	817,962	0.148%
JNLUT - Rowe Price Balanced Fund	Grimme M&E II	8/20/2052	5.00	Fixed Income	72,640	73,245	0.013%
JNLUT - Rowe Price Balanced Fund	Cummins Inc.	2/20/2029	4.30	Fixed Income	40,000	41,600	0.008%
JNLUT - Rowe Price Balanced Fund	AAR Escrow Issuer, LLC	3/15/2029	6.75	Fixed Income	245,000	255,473	0.046%
JNLUT - Rowe Price Balanced Fund	Bristol-Myers Squibb Company	2/22/2031	5.10	Fixed Income	40,000	42,055	0.008%
JNLUT - Rowe Price Balanced Fund	Mondelez International, Inc.	2/20/2029	4.75	Fixed Income	365,000	375,094	0.068%
JNLUT - Rowe Price Balanced Fund	Magnite Inc.	1/31/2031	9.75	Fixed Income	32,817	33,090	0.006%
JNLUT - Rowe Price Balanced Fund	Magnite Inc.	1/31/2031	9.75</				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments	
JNLUT, Rowe Price Balanced Fund	Solventum Corporation	3/1/2029	5.40	Fixed Income	200,000	206,449	0.037%	
JNLUT, Rowe Price Balanced Fund	Canisius Bank A/S	3/1/2030	5.71	Fixed Income	290,000	290,238	0.038%	
JNLUT, Rowe Price Balanced Fund	The Southern Company	3/15/2034	5.70	Fixed Income	165,000	177,645	0.032%	
JNLUT, Rowe Price Balanced Fund	Fiserv, Inc.	3/15/2034	5.45	Fixed Income	245,000	257,234	0.046%	
JNLUT, Rowe Price Balanced Fund	Skandinaviska Enskilda Banken AB	3/5/2027	5.13	Fixed Income	335,000	344,039	0.062%	
JNLUT, Rowe Price Balanced Fund	Southern California Edison Company	6/1/2029	5.15	Fixed Income	335,000	353,461	0.064%	
JNLUT, Rowe Price Balanced Fund	Autoliv, Inc.			Equity	5,417	505,901	0.091%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of Microchip Technology Incorporated	2/28/2029	4.25	Fixed Income	2,755,000	2,841,650	0.513%	
JNLUT, Rowe Price Balanced Fund	BlackRock Fundings, Inc.	3/15/2029	5.05	Fixed Income	95,000	97,915	0.018%	
JNLUT, Rowe Price Balanced Fund	Atlas Energy Solutions Inc.	3/14/2029	4.70	Fixed Income	95,000	97,892	0.018%	
JNLUT, Rowe Price Balanced Fund	Motorola Solutions, Inc.			Equity	1,465	34,117	0.006%	
JNLUT, Rowe Price Balanced Fund	Aston Martin Capital Holdings Limited	4/15/2029	5.00	Fixed Income	95,000	99,875	0.018%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	3/31/2029	10.00	Fixed Income	240,000	249,489	0.045%	
JNLUT, Rowe Price Balanced Fund	Adviser Group, Inc.	3/25/2044	6.53	Fixed Income	271,028	271,152	0.049%	
JNLUT, Rowe Price Balanced Fund	Hyundai Capital America	8/16/2028	9.25	Fixed Income	117,024	115,887	0.021%	
JNLUT, Rowe Price Balanced Fund	Encore Capital Group, Inc.	3/19/2029	5.35	Fixed Income	30,000	30,917	0.006%	
JNLUT, Rowe Price Balanced Fund	Versus Securitization Trust 2024-INV1	4/1/2029	9.25	Fixed Income	245,000	275,092	0.050%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	3/25/2069	6.32	Fixed Income	166,244	169,749	0.031%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2032	5.50	Fixed Income	228,329	233,487	0.042%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2054	5.50	Fixed Income	92,585	94,619	0.017%	
JNLUT, Rowe Price Balanced Fund	UnitedHealth Group Incorporated	2/1/2054	5.50	Fixed Income	63,657	65,015	0.012%	
JNLUT, Rowe Price Balanced Fund	SEB Fundings LLC	4/15/2029	4.70	Fixed Income	190,000	199,760	0.036%	
JNLUT, Rowe Price Balanced Fund	Miter Brands Acquisition Holdco, Inc.	4/30/2029	7.39	Fixed Income	190,000	199,212	0.036%	
JNLUT, Rowe Price Balanced Fund	Bombardier Inc.	4/1/2032	6.75	Fixed Income	105,000	112,446	0.020%	
JNLUT, Rowe Price Balanced Fund	Panther Escrow Issuer LLC	7/1/2031	7.25	Fixed Income	240,000	262,574	0.047%	
JNLUT, Rowe Price Balanced Fund	Corsys Inc.	6/1/2031	7.13	Fixed Income	290,000	313,981	0.057%	
JNLUT, Rowe Price Balanced Fund	Level 3 Financing, Inc.			Equity	2,182	682,442	0.129%	
JNLUT, Rowe Price Balanced Fund	Toronto-Dominion Bank, The	4/15/2029	10.50	Fixed Income	335,000	369,484	0.067%	
JNLUT, Rowe Price Balanced Fund	Bayview Opportunity Master Fund VII 2024-CAR1, LLC	4/5/2029	4.99	Fixed Income	330,000	347,867	0.063%	
JNLUT, Rowe Price Balanced Fund	Cloud Software Group, Inc.	12/26/2031	6.38	Fixed Income	200,416	201,227	0.036%	
JNLUT, Rowe Price Balanced Fund	GE Vernova Inc.	3/19/2031	9.63	Fixed Income	110,000	110,257	0.020%	
JNLUT, Rowe Price Balanced Fund	MassMutual Global Funding II			Equity	1,777	4,038,089	0.082%	
JNLUT, Rowe Price Balanced Fund	Amphenol Corporation	4/9/2027	5.10	Fixed Income	330,000	346,652	0.063%	
JNLUT, Rowe Price Balanced Fund	Entridge Inc.	4/5/2029	5.05	Fixed Income	105,000	111,018	0.020%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/5/2034	5.63	Fixed Income	90,000	96,828	0.017%	
JNLUT, Rowe Price Balanced Fund	Towt Point Mortgage Trust 2024-1	1/1/2059	6.25	Fixed Income	60,018	62,498	0.011%	
JNLUT, Rowe Price Balanced Fund	Herbalife International, Inc.	7/25/2039	4.53	Fixed Income	262,953	266,188	0.048%	
JNLUT, Rowe Price Balanced Fund	Endo Finance Holdings, Inc.	4/15/2029	12.25	Fixed Income	259,000	273,278	0.049%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	4/15/2031	8.50	Fixed Income	125,000	138,636	0.025%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	6/15/2059	5.84	Fixed Income	109,619	101,893	0.019%	
JNLUT, Rowe Price Balanced Fund	Sunoco LP	1/1/2054	6.50	Fixed Income	35,590	36,538	0.007%	
JNLUT, Rowe Price Balanced Fund	SDR Commercial Mortgage Trust 2024-DSNY	5/1/2029	7.00	Fixed Income	245,000	263,302	0.048%	
JNLUT, Rowe Price Balanced Fund	Morgan Stanley	5/18/2026	6.69	Fixed Income	150,000	149,791	0.027%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of BMO 2024-SC4 Mortgage Trust	4/18/2030	5.66	Fixed Income	380,000	385,540	0.070%	
JNLUT, Rowe Price Balanced Fund	Encino Acquisition Partners Holdings, LLC	4/17/2029	2.13	Fixed Income	234,800	247,831	0.045%	
JNLUT, Rowe Price Balanced Fund	Endo Luvenburg Finance Company I S.A.r.l.	6/1/2029	6.53	Fixed Income	55,000	59,624	0.011%	
JNLUT, Rowe Price Balanced Fund	CVC Capital Partners PLC	5/1/2031	8.75	Fixed Income	235,000	255,845	0.046%	
JNLUT, Rowe Price Balanced Fund	Icon Investments Six Designated Activity Company	4/2/2031	9.78	Fixed Income	115,000	117,023	0.021%	
JNLUT, Rowe Price Balanced Fund	Puig Brands S.A.			Equity	18,389	411,980	0.074%	
JNLUT, Rowe Price Balanced Fund	CyruOne Data Centers Issuer I LLC	5/8/2029	5.85	Fixed Income	200,000	214,714	0.039%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation			Equity	9,093	209,494	0.038%	
JNLUT, Rowe Price Balanced Fund	Foundry JV Holdco LLC	5/20/2029	4.50	Fixed Income	333,000	324,508	0.059%	
JNLUT, Rowe Price Balanced Fund	Predictive Discovery Limited	4/1/2052	2.50	Fixed Income	125,016	109,050	0.020%	
JNLUT, Rowe Price Balanced Fund	PACCAR Financial Corp.	1/25/2032	6.15	Fixed Income	200,000	212,972	0.038%	
JNLUT, Rowe Price Balanced Fund	Intercontinental Exchange, Inc.			Equity	130,686	23,432	0.004%	
JNLUT, Rowe Price Balanced Fund	Caterpillar Financial Services Corporation	5/13/2027	5.00	Fixed Income	170,000	177,467	0.032%	
JNLUT, Rowe Price Balanced Fund	Ingersoll Rand Inc.	6/15/2031	5.25	Fixed Income	175,000	187,454	0.034%	
JNLUT, Rowe Price Balanced Fund	Cougar JV Subsidiary, LLC	5/14/2027	5.00	Fixed Income	385,000	403,064	0.073%	
JNLUT, Rowe Price Balanced Fund	Altesian Corporation	6/15/2029	5.18	Fixed Income	405,000	427,258	0.077%	
JNLUT, Rowe Price Balanced Fund	Cloud Software Group, Inc.	5/15/2032	8.00	Fixed Income	233,000	253,334	0.046%	
JNLUT, Rowe Price Balanced Fund	Charter Communications Operating, LLC	4/15/2029	7.00	Fixed Income	70,000	72,411	0.013%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	6/30/2032	8.25	Fixed Income	250,000	268,744	0.049%	
JNLUT, Rowe Price Balanced Fund	Venus Securitization Trust 2025-019-4	6/1/2029	6.10	Fixed Income	75,000	79,356	0.014%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of RGA Global Funding	5/25/2044	6.53	Fixed Income	110,934	111,079	0.020%	
JNLUT, Rowe Price Balanced Fund	Connecticut Avenue Securities Trust 2024-R04	5/15/2054	6.25	Fixed Income	125,000	125,216	0.023%	
JNLUT, Rowe Price Balanced Fund	Jameson C.O. Ltd	5/15/2054	4.63	Fixed Income	90,000	99,194	0.018%	
JNLUT, Rowe Price Balanced Fund	Owens Corning	5/24/2029	5.45	Fixed Income	190,000	201,499	0.036%	
JNLUT, Rowe Price Balanced Fund	MARQ Trust 2024-HOU	5/25/2044	6.28	Fixed Income	73,493	73,505	0.013%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of RGAL	5/15/2035	6.72	Fixed Income	250,000	258,450	0.046%	
JNLUT, Rowe Price Balanced Fund	Health Care Service Corporation, A Mutual Legal Reserve Company	6/15/2034	5.70	Fixed Income	115,000	124,389	0.022%	
JNLUT, Rowe Price Balanced Fund	Howard Midstream Energy Partners, LLC	6/15/2026	6.91	Fixed Income	100,000	99,809	0.018%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	5/31/2029	4.50	Fixed Income	2,120,000	2,236,861	0.404%	
JNLUT, Rowe Price Balanced Fund	Progress Residential 2019-SF04 Trust	Treasury, United States Department of	5/15/2044	4.63	Fixed Income	345,000	371,727	0.067%
JNLUT, Rowe Price Balanced Fund	BBCMS Mortgage Trust 2024-SC27	6/15/2034	5.45	Fixed Income	120,000	126,868	0.023%	
JNLUT, Rowe Price Balanced Fund	BMO 2024-C9 Mortgage Trust	7/15/2032	7.38	Fixed Income	215,000	227,183	0.041%	
JNLUT, Rowe Price Balanced Fund	Benchmark 2024-V8 Mortgage Trust	6/1/2054	6.00	Fixed Income	89,670	92,118	0.017%	
JNLUT, Rowe Price Balanced Fund	Broadcom Inc.	7/15/2029	3.10	Fixed Income	100,000	92,847	0.017%	
JNLUT, Rowe Price Balanced Fund	Banco Santander, S.A.	6/15/2029	6.01	Fixed Income	45,000	47,851	0.009%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	7/15/2034	5.76	Fixed Income	375,000	405,379	0.073%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	7/16/2029	5.86	Fixed Income	300,000	321,864	0.058%	
JNLUT, Rowe Price Balanced Fund	Viber Energy, Inc.	7/12/2029	6.05	Fixed Income	400,000	416,587	0.075%	
JNLUT, Rowe Price Balanced Fund	G Mining Ventures Corp.	7/15/2033	5.44	Fixed Income	400,000	422,101	0.076%	
JNLUT, Rowe Price Balanced Fund	Towt Point Mortgage Trust 2024-3	3/1/2054	7.00	Fixed Income	54,159	56,974	0.010%	
JNLUT, Rowe Price Balanced Fund	SM Energy Company	6/1/2054	7.00	Fixed Income	55,288	58,161	0.010%	
JNLUT, Rowe Price Balanced Fund	Occidental Petroleum Corporation			Equity	3,334	150,397	0.027%	
JNLUT, Rowe Price Balanced Fund	Lineage, Inc.			Equity	9,724	67,441	0.012%	
JNLUT, Rowe Price Balanced Fund	BANKS 2024-SYR8	4/25/2038	5.13	Fixed Income	96,439	96,400	0.017%	
JNLUT, Rowe Price Balanced Fund	TE Energy Company	5/1/2054	5.50	Fixed Income	74,551	76,096	0.014%	
JNLUT, Rowe Price Balanced Fund	BMO 2024-SC5 Mortgage Trust	8/1/2032	7.00	Fixed Income	236,000	240,630	0.043%	
JNLUT, Rowe Price Balanced Fund	Ferguson Enterprises Inc.	8/15/2029	4.98	Fixed Income	45,000	45,000	0.008%	
JNLUT, Rowe Price Balanced Fund	New York State Electric & Gas Corporation	1/1/2032	5.38	Fixed Income	150,000	153,526	0.028%	
JNLUT, Rowe Price Balanced Fund	Comision De Promocion Del Peru Para La Exportacion Y El Turismo			Equity	591	46,547	0.008%	
JNLUT, Rowe Price Balanced Fund	CCG Receivables Trust 2024-1	7/17/2029	5.88	Fixed Income	215,000	227,868	0.041%	
JNLUT, Rowe Price Balanced Fund	Targa Resources Corp.	7/17/2027	4.96	Fixed Income	60,000	63,518	0.011%	
JNLUT, Rowe Price Balanced Fund	BMW US Capital, LLC	8/17/2029	5.86	Fixed Income	360,000	379,183	0.068%	
JNLUT, Rowe Price Balanced Fund	Supergy Center Holdings, Inc.			Equity	2,353	469,015	0.085%	
JNLUT, Rowe Price Balanced Fund	O'Reilly Automotive, Inc.	8/15/2034	5.30	Fixed Income	120,000	124,088	0.022%	
JNLUT, Rowe Price Balanced Fund	Kodiak Gas Services, LLC	2/8/2035	5.38	Fixed Income	80,000	82,771	0.015%	
JNLUT, Rowe Price Balanced Fund	JetBlue Airways Corporation	12/14/2027	4.99	Fixed Income	155,000	155,981	0.028%	
JNLUT, Rowe Price Balanced Fund	Midcontinent Communications	2/15/2035	5.50	Fixed Income	85,000	88,150	0.016%	
JNLUT, Rowe Price Balanced Fund	South Bow Canadian Infrastructure Holdings Ltd.	8/13/2029	4.65	Fixed Income	95,000	96,359	0.017%	
JNLUT, Rowe Price Balanced Fund	6297782 LLC	12/5/2030	7.67	Fixed Income	244,775	244,775	0.044%	
JNLUT, Rowe Price Balanced Fund	Artemis Gold Inc.	8/19/2034	5.00	Fixed Income	250,000	253,917	0.046%	
JNLUT, Rowe Price Balanced Fund	Cox Communications, Inc.			Equity	872	25,288	0.005%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	9/20/2031	9.88	Fixed Income	235,000	249,709	0.045%	
JNLUT, Rowe Price Balanced Fund	Kroger Co., The	8/15/2032	8.00	Fixed Income	242,000	249,023	0.045%	
JNLUT, Rowe Price Balanced Fund	Varsity Brands, Inc.	3/1/2035	7.50	Fixed Income	235,000	248,673	0.045%	
JNLUT, Rowe Price Balanced Fund	Athene Global Funding	10/1/2029	5.03	Fixed Income	50,000	50,373	0.009%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of			Equity	2,996	28,732	0.005%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	9/1/2034	5.45	Fixed Income	100,000	101,857	0.018%	
JNLUT, Rowe Price Balanced Fund	Varsity Brands, Inc.	8/1/2054	6.00	Fixed Income	197,108	203,598	0.037%	
JNLUT, Rowe Price Balanced Fund	Athene Global Funding	9/15/2034	5.00	Fixed Income	70,000	70,826	0.013%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	7/30/2031	8.82	Fixed Income	250,000	249,464	0.045%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/27/2026	4.86	Fixed Income	335,000	338,732	0.061%	
JNLUT, Rowe Price Balanced Fund	Treasury, United States Department of	8/15/2044	4.13	Fixed Income	230,000	229,415	0.041%	
JNLUT, Rowe Price Balanced Fund	Fifth Third Bancorp.	8/15/2054	4.25	Fixed Income	95,000	97,520	0.018%	
JNLUT, Rowe Price Balanced Fund	FirstEnergy Transmission, LLC	8/31/2029	3.63	Fixed Income	1,015,000	1,018,172	0.184%	
JNLUT, Rowe Price Balanced Fund	Southern Company Gas Capital Corporation	9/6/2030	4.90	Fixed Income	70,000	71,149	0.013%	
JNLUT, Rowe Price Balanced Fund	Uter Technologies, Inc.	1/15/2035	5.00	Fixed Income	85,000	96,953	0.017%	
JNLUT, Rowe Price Balanced Fund	Cadence Design Systems, Inc.	9/15/2034	4.95	Fixed Income	265,000	268,535	0.048%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	9/15/2054	5.35	Fixed Income	60,000	59,668	0.011%	
JNLUT, Rowe Price Balanced Fund	LSPF Atlantis Holdings, LLC	9/10/2029	4.30	Fixed Income	110,000	110,530	0.020%	
JNLUT, Rowe Price Balanced Fund	Vetra Holdings LLC	8/1/2054	5.50	Fixed Income	63,278	64,728	0.012%	
JNLUT, Rowe Price Balanced Fund	Avix Budget Car Rental, LLC	12/31/2049		Fixed Income	90,000	90,675	0.016%	
JNLUT, Rowe Price Balanced Fund	Icon Parent Inc.	9/15/2029	8.75	Fixed Income	215,000	226,429	0.041%	
JNLUT, Rowe Price Balanced Fund	Drive Auto Receivables Trust 2024-2	1/15/2030	8.25	Fixed Income	245,000	251,704	0.045%	
JNLUT, Rowe Price Balanced Fund	Clarus Capital Funding 2024-1 LLC	12/31/2049		Fixed Income	170,000	170,315	0.031%	
JNLUT, Rowe Price Balanced Fund	Carvana Auto Receivables Trust 2024-N3	3/15/2027	4.52	Fixed Income	205,000	204,837	0.037%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	5/20/2027	4.71	Fixed Income	100,000	100,016	0.018%	
JNLUT, Rowe Price Balanced Fund	Aethon United BR LP	12/10/2030	4.67	Fixed Income	390,000	390,483	0.070%	
JNLUT, Rowe Price Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2054	5.50	Fixed Income	95,000	97,027	0.018%	
JNLUT, Rowe Price Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2029	4.50	Fixed Income	250,000	253,422	0.046%	
JNLUT, Rowe Price Balanced Fund	LSPF Atlantis Holdings, LLC	7/1/2053	5.00	Fixed Income	85,000	85,315	0.015%	
JNLUT, Rowe Price Balanced Fund	Te Connectivity Public Limited Company	7/1/2054	5.00	Fixed Income	70,000	70,237	0.013%	
JNLUT, Rowe Price Balanced Fund		9/10/2029	10.26	Fixed Income	147,774	148,922	0.027%	
JNLUT, Rowe Price Balanced Fund		1/1/2200	9.00	Fixed Income	270,000	273,753	0.049%	
JNLUT, Rowe Price Balanced Fund				Equity	8,437	1		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% of Total Investments
Total Derivatives						15,630	
Total All Investments						554,090,168	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/T Rowe Price Capital Appreciation Fund	Cash			Cash Equivalent	19,811.119	19,811.119	0.135%
JNL/T Rowe Price Capital Appreciation Fund	Lamar Media Corp.	10/15/2029	4.88	Fixed Income	1,249,000	1,236,799	0.008%
JNL/T Rowe Price Capital Appreciation Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,048,160	1,076,143	0.007%
JNL/T Rowe Price Capital Appreciation Fund	Alliant Holdings Intermediate, LLC	10/15/2027	4.25	Fixed Income	3,540,000	3,459,819	0.024%
JNL/T Rowe Price Capital Appreciation Fund	GFL Environmental Inc.	8/1/2028	4.00	Fixed Income	6,138,000	6,135,373	0.042%
JNL/T Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company Inc.	5/1/2039	3.75	Fixed Income	16,894,000	16,839,918	0.111%
JNL/T Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company Inc.	5/1/2031	4.00	Fixed Income	23,390,000	22,259,663	0.151%
JNL/T Rowe Price Capital Appreciation Fund	SBA Communications Corporation	2/15/2027	3.88	Fixed Income	21,585,000	21,136,991	0.144%
JNL/T Rowe Price Capital Appreciation Fund	American Tower Corporation	1/31/2028	1.50	Fixed Income	1,363,000	1,245,328	0.008%
JNL/T Rowe Price Capital Appreciation Fund	CrowdStrike Holdings, Inc.	2/15/2029	3.00	Fixed Income	1,455,000	1,349,267	0.009%
JNL/T Rowe Price Capital Appreciation Fund	Life Time, Inc.	1/15/2026	5.75	Fixed Income	14,391,000	14,568,923	0.099%
JNL/T Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company Inc.	2/15/2032	3.63	Fixed Income	19,088,000	17,330,152	0.118%
JNL/T Rowe Price Capital Appreciation Fund	Chesapeake Energy Corporation			Equity	909,898	748,939.11	0.509%
JNL/T Rowe Price Capital Appreciation Fund	AmWinVS Group, Inc.	12/31/2049		Fixed Income	4,628,600	4,618,389	0.031%
JNL/T Rowe Price Capital Appreciation Fund	ADM Corp.	12/31/2027	8.74	Fixed Income	13,433,897	13,047,574	0.089%
JNL/T Rowe Price Capital Appreciation Fund	AmWinVS Group, Inc.	2/16/2028	7.61	Fixed Income	19,985,628	19,949,859	0.138%
JNL/T Rowe Price Capital Appreciation Fund	Charles River Laboratories International, Inc.	3/15/2029	3.75	Fixed Income	11,086,000	10,450,478	0.071%
JNL/T Rowe Price Capital Appreciation Fund	Sensata Technologies B.V.	4/15/2029	4.00	Fixed Income	10,128,000	9,940,305	0.067%
JNL/T Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.	1/31/2032	4.63	Fixed Income	24,731,000	24,264,344	0.165%
JNL/T Rowe Price Capital Appreciation Fund	Marvell Technology, Inc.			Equity	243,987	17,596,342	0.120%
JNL/T Rowe Price Capital Appreciation Fund	Motorola Solutions, Inc.	5/24/2031	2.75	Fixed Income	1,066,000	964,736	0.007%
JNL/T Rowe Price Capital Appreciation Fund	GFL Environmental Inc.	6/15/2029	4.75	Fixed Income	13,781,000	13,627,133	0.093%
JNL/T Rowe Price Capital Appreciation Fund	Booz Allen Hamilton Inc.	7/1/2029	4.00	Fixed Income	4,995,000	4,901,144	0.033%
JNL/T Rowe Price Capital Appreciation Fund	Indigo Merger Sub Inc.	7/15/2026	2.88	Fixed Income	3,883,000	3,777,785	0.026%
JNL/T Rowe Price Capital Appreciation Fund	ADM Corp.	12/31/2027	9.11	Fixed Income	28,675,379	28,021,636	0.190%
JNL/T Rowe Price Capital Appreciation Fund	Magnum Management Corporation	10/1/2028	6.50	Fixed Income	12,855,000	12,438,167	0.084%
JNL/T Rowe Price Capital Appreciation Fund	MSCI Inc.	8/15/2033	3.25	Fixed Income	12,662,000	11,195,051	0.076%
JNL/T Rowe Price Capital Appreciation Fund	Howmet Aerospace Inc.	1/15/2029	3.00	Fixed Income	7,892,000	7,519,963	0.051%
JNL/T Rowe Price Capital Appreciation Fund	Clarivate Science Holdings Corporation	7/1/2028	3.88	Fixed Income	2,229,000	2,158,538	0.015%
JNL/T Rowe Price Capital Appreciation Fund	Clarivate Science Holdings Corporation	7/1/2029	4.88	Fixed Income	1,595,000	1,554,740	0.010%
JNL/T Rowe Price Capital Appreciation Fund	BroadStreet Partners, Inc.	4/15/2029	5.88	Fixed Income	14,442,000	14,202,510	0.097%
JNL/T Rowe Price Capital Appreciation Fund	Alliant Holdings Intermediate, LLC	11/1/2029	5.88	Fixed Income	5,161,000	5,077,299	0.035%
JNL/T Rowe Price Capital Appreciation Fund	Filtration Group Corporation	10/19/2028	8.86	Fixed Income	66,669,145	66,666,888	0.453%
JNL/T Rowe Price Capital Appreciation Fund	Aurora Innovations Inc.			Equity	31,213,089	184,781,487	1.256%
JNL/T Rowe Price Capital Appreciation Fund	Hub International Limited	12/1/2029	5.63	Fixed Income	7,868,000	7,884,138	0.053%
JNL/T Rowe Price Capital Appreciation Fund	Charles River Laboratories International, Inc.	3/15/2031	4.00	Fixed Income	9,655,000	8,838,572	0.060%
JNL/T Rowe Price Capital Appreciation Fund	SBA Communications Corporation	2/1/2029	3.13	Fixed Income	25,163,000	23,407,036	0.159%
JNL/T Rowe Price Capital Appreciation Fund	Ryan Specialty, LLC	2/1/2030	4.38	Fixed Income	3,073,000	2,984,578	0.020%
JNL/T Rowe Price Capital Appreciation Fund	Avantor, Inc.	11/1/2029	3.88	Fixed Income	23,012,000	22,146,885	0.151%
JNL/T Rowe Price Capital Appreciation Fund	Lamar Media Corp.	2/15/2028	3.75	Fixed Income	7,806,000	7,564,107	0.051%
JNL/T Rowe Price Capital Appreciation Fund	MSCI Inc.	11/1/2031	3.63	Fixed Income	13,813,000	12,920,427	0.088%
JNL/T Rowe Price Capital Appreciation Fund	Gartner, Inc.	6/15/2029	3.63	Fixed Income	9,925,000	9,593,355	0.065%
JNL/T Rowe Price Capital Appreciation Fund	Lamar Media Corp.	11/15/2031	3.50	Fixed Income	1,280,000	1,200,751	0.008%
JNL/T Rowe Price Capital Appreciation Fund	Athenahealth Group, Inc.	12/27/2029	8.50	Fixed Income	23,524,704	49,879,789	0.339%
JNL/T Rowe Price Capital Appreciation Fund	CMS Energy Corporation	10/15/2078	5.88	Equity	193,169	4,846,184	0.033%
JNL/T Rowe Price Capital Appreciation Fund	MSCI Inc.	2/15/2031	3.88	Fixed Income	14,138,000	13,554,248	0.092%
JNL/T Rowe Price Capital Appreciation Fund	Storable, Inc.	4/17/2028	8.75	Fixed Income	26,247,459	26,300,819	0.179%
JNL/T Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.	4/1/2032	5.38	Fixed Income	29,015,000	29,728,547	0.202%
JNL/T Rowe Price Capital Appreciation Fund	Broadcom Inc.	4/15/2032	4.15	Fixed Income	5,938,000	5,875,360	0.040%
JNL/T Rowe Price Capital Appreciation Fund	VICI Properties LP	5/15/2032	5.13	Fixed Income	3,046,000	3,123,571	0.021%
JNL/T Rowe Price Capital Appreciation Fund	VICI Properties Inc.	10/1/2029	5.75	Fixed Income	3,112,000	3,401,368	0.023%
JNL/T Rowe Price Capital Appreciation Fund	Intercontinental Exchange, Inc.	9/15/2027	4.00	Fixed Income	1,496,000	1,501,181	0.010%
JNL/T Rowe Price Capital Appreciation Fund	Sensata Technologies B.V.	9/1/2030	5.88	Fixed Income	6,353,000	6,412,835	0.044%
JNL/T Rowe Price Capital Appreciation Fund	Magnum Management Corporation	4/15/2027	5.38	Fixed Income	24,148,000	24,659,034	0.168%
JNL/T Rowe Price Capital Appreciation Fund	SBA Towers, LLC	11/15/2028	6.60	Fixed Income	1,602,000	1,626,185	0.010%
JNL/T Rowe Price Capital Appreciation Fund	Lore Finc Luxembourg S.a.r.l.	4/20/2027	9.10	Fixed Income	6,772,350	6,697,873	0.046%
JNL/T Rowe Price Capital Appreciation Fund	GE HealthCare Technologies Inc.			Equity	450,188	42,250,144	0.287%
JNL/T Rowe Price Capital Appreciation Fund	Revelty, Inc.	9/15/2029	3.30	Fixed Income	2,147,000	2,029,593	0.014%
JNL/T Rowe Price Capital Appreciation Fund	Six Flags Operations Inc.	4/15/2027	5.50	Fixed Income	20,984,000	21,317,817	0.145%
JNL/T Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.			Equity	699,601	87,741,116	0.643%
JNL/T Rowe Price Capital Appreciation Fund	Amren Corporation			Equity	2,189,184	191,466,033	1.301%
JNL/T Rowe Price Capital Appreciation Fund	Autodesk, Inc.			Equity	410,822	113,173,245	0.769%
JNL/T Rowe Price Capital Appreciation Fund	Advanced Micro Devices, Inc.			Equity	932,794	153,052,840	1.040%
JNL/T Rowe Price Capital Appreciation Fund	Canadian Natural Resources Limited			Equity	23,012,279	199,499,955	1.384%
JNL/T Rowe Price Capital Appreciation Fund	Abbott Laboratories			Equity	229,333	26,146,255	0.178%
JNL/T Rowe Price Capital Appreciation Fund	Amazon.com, Inc.			Equity	2,309,820	430,388,761	2.925%
JNL/T Rowe Price Capital Appreciation Fund	Becton, Dickinson and Company			Equity	1,136,011	322,112,752	2.189%
JNL/T Rowe Price Capital Appreciation Fund	Apple Inc.			Equity	1,119,966	290,119,078	1.728%
JNL/T Rowe Price Capital Appreciation Fund	Biogen Inc.			Equity	237,424	46,022,268	0.313%
JNL/T Rowe Price Capital Appreciation Fund	CMS Energy Corporation			Equity	333,272	23,539,001	0.160%
JNL/T Rowe Price Capital Appreciation Fund	NVIDIA Corporation			Equity	3,758,902	456,516,756	3.102%
JNL/T Rowe Price Capital Appreciation Fund	Intel Inc.			Equity	863,738	183,800,298	1.129%
JNL/T Rowe Price Capital Appreciation Fund	CenterPoint Energy, Inc.			Equity	6,758,125	198,824,038	1.351%
JNL/T Rowe Price Capital Appreciation Fund	McKesson Corporation			Equity	400,798	198,257,612	1.348%
JNL/T Rowe Price Capital Appreciation Fund	Danaher Corporation			Equity	1,177,479	327,680,631	2.227%
JNL/T Rowe Price Capital Appreciation Fund	Salesforce, Inc.			Equity	811,601	227,487,960	1.512%
JNL/T Rowe Price Capital Appreciation Fund	Humana Inc.			Equity	214,940	68,270,318	0.464%
JNL/T Rowe Price Capital Appreciation Fund	DTE Energy Company			Equity	932,287	120,665,906	0.820%
JNL/T Rowe Price Capital Appreciation Fund	Revelty, Inc.			Equity	2,602,578	332,479,340	2.259%
JNL/T Rowe Price Capital Appreciation Fund	Roper Technologies, Inc.			Equity	492,844	274,238,115	1.864%
JNL/T Rowe Price Capital Appreciation Fund	McSource Inc.			Equity	2,863,978	99,238,638	0.674%
JNL/T Rowe Price Capital Appreciation Fund	Exelon Corporation			Equity	929,073	37,673,910	0.256%
JNL/T Rowe Price Capital Appreciation Fund	McDonald's Corporation			Equity	156,100	47,534,011	0.323%
JNL/T Rowe Price Capital Appreciation Fund	Marsh & McLennan Companies, Inc.			Equity	305,730	68,205,306	0.464%
JNL/T Rowe Price Capital Appreciation Fund	Martin Marietta Materials, Inc.			Equity	273,331	14,720,411	0.090%
JNL/T Rowe Price Capital Appreciation Fund	Eli Lilly and Company			Equity	114,700	101,617,318	0.691%
JNL/T Rowe Price Capital Appreciation Fund	Microsoft Corporation			Equity	1,731,221	744,944,396	5.063%
JNL/T Rowe Price Capital Appreciation Fund	Telefonos Tecnologias Incorporated			Equity	152,558	68,768,534	0.454%
JNL/T Rowe Price Capital Appreciation Fund	Northrop Grumman Corporation			Equity	73,601	199,895,825	1.348%
JNL/T Rowe Price Capital Appreciation Fund	Thermo Fisher Scientific Inc.			Equity	249,998	154,738,762	1.026%
JNL/T Rowe Price Capital Appreciation Fund	UnitedHealth Group Incorporated			Equity	608,404	355,721,651	2.417%
JNL/T Rowe Price Capital Appreciation Fund	Service Corporation International			Equity	1,280,149	101,042,161	0.687%
JNL/T Rowe Price Capital Appreciation Fund	MasterCard Incorporated			Equity	351,611	7,145,512	0.048%
JNL/T Rowe Price Capital Appreciation Fund	NXP Semiconductors N.V.			Equity	382,684	92,121,970	0.626%
JNL/T Rowe Price Capital Appreciation Fund	Visa Inc.			Equity	514,594	141,487,620	0.962%
JNL/T Rowe Price Capital Appreciation Fund	Meta Platforms, Inc.			Equity	369,541	211,540,050	1.438%
JNL/T Rowe Price Capital Appreciation Fund	Wells Towers Watson Public Limited Company			Equity	239,865	70,845,445	0.481%
JNL/T Rowe Price Capital Appreciation Fund	KKR & Co. Inc.			Equity	253,000	33,036,740	0.229%
JNL/T Rowe Price Capital Appreciation Fund	PTC Inc.			Equity	1,427,647	257,918,707	1.753%
JNL/T Rowe Price Capital Appreciation Fund	Abbvie Inc.			Equity	706,187	139,457,809	0.948%
JNL/T Rowe Price Capital Appreciation Fund	J Rowe Price Institutional Floating Rate Fund			Equity	170,119	2,019,560	0.013%
JNL/T Rowe Price Capital Appreciation Fund	grexus SE			Equity	33,100	17,942,848	0.122%
JNL/T Rowe Price Capital Appreciation Fund	Broadcom Inc.			Equity	326,458	56,314,005	0.383%
JNL/T Rowe Price Capital Appreciation Fund	Intercontinental Exchange, Inc.			Equity	852,120	138,884,557	0.930%
JNL/T Rowe Price Capital Appreciation Fund	Waste Connections, Inc.			Equity	663,982	118,735,049	0.807%
JNL/T Rowe Price Capital Appreciation Fund	Alphabet Inc.			Equity	1,637,245	271,537,083	1.855%
JNL/T Rowe Price Capital Appreciation Fund	Hilton Worldwide Holdings Inc.			Equity	410,089	94,525,515	0.642%
JNL/T Rowe Price Capital Appreciation Fund	Fortive Corporation			Equity	4,458,682	351,923,770	2.392%
JNL/T Rowe Price Capital Appreciation Fund	T. Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	769,662,845	772,409,838	5.249%
JNL/T Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.	11/15/2037	6.88	Fixed Income	5,461,000	6,324,399	0.043%
JNL/T Rowe Price Capital Appreciation Fund	Live Nation Entertainment, Inc.	11/1/2024	4.88	Fixed Income	820,000	835,460	0.006%
JNL/T Rowe Price Capital Appreciation Fund	US Airways Class A Pass Through Certificates, Series 2012-2	6/3/2025	4.63	Fixed Income	193,342	195,075	0.001%
JNL/T Rowe Price Capital Appreciation Fund	US Airways, Inc.	11/15/2025	3.95	Fixed Income	102,416	102,407	0.001%
JNL/T Rowe Price Capital Appreciation Fund	Marriott International, Inc.	6/15/2026	3.13	Fixed Income	968,000	957,285	0.007%
JNL/T Rowe Price Capital Appreciation Fund	CCO Holdings, LLC	5/1/2026	5.50	Fixed Income	3,928,000	4,010,199	0.027%
JNL/T Rowe Price Capital Appreciation Fund	CCO Holdings, LLC	5/1/2027	5.13	Fixed Income	69,954,000	70,296,636	0.478%
JNL/T Rowe Price Capital Appreciation Fund	Hilton Worldwide Holdings Inc.	4/1/2027	4.88	Fixed Income	6,091,000	6,222,577	0.042%
JNL/T Rowe Price Capital Appreciation Fund	KFC Holding Co.	8/1/2027	4.75	Fixed Income	33,140,000	34,114,734	0.223%
JNL/T Rowe Price Capital Appreciation Fund	Becton, Dickinson and Company	6/6/2027	3.70	Fixed Income	4,774,000	4,769,602	0.032%
JNL/T Rowe Price Capital Appreciation Fund	CCO Holdings, LLC	2/1/2028	5.00	Fixed Income	64,146,000	62,948,131	0.428%
JNL/T Rowe Price Capital Appreciation Fund	Teleflex Incorporated	11/15/2027	4.63	Fixed Income	9,039,000	9,069,033	0.062%
JNL/T Rowe Price Capital Appreciation Fund	CMS Energy Corporation	3/1/2079	5.88	Equity	89,854	2,127,263	0.014%
JNL/T Rowe Price Capital Appreciation Fund	Moments Pizzeria, Inc.	7/26/2027	4.12	Fixed Income	2,060,480	2,039,333	0.014%
JNL/T Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.	11/1/2043	5.35	Fixed Income	13,292,000	13,393,793	0.091%
JNL/T Rowe Price Capital Appreciation Fund	Carlos Global LP	5/15/2026	6.25	Fixed Income	6,037,000	6,180,245	0.042%
JNL/T Rowe Price Capital Appreciation Fund	Carlos Global LP	5/15/2027	6.50	Fixed Income	18,995,000	19,691,119	0.134%
JNL/T Rowe Price Capital Appreciation Fund	Crown Castle Inc.	2/15/2029	4.30	Fixed Income	1,789,000	1,780,842	0.012%
JNL/T Rowe Price Capital Appreciation Fund	IOVIA Inc.	5/15/2027	5.00	Fixed Income	10,348,000	10,479,390	0.071%
JNL/T Rowe Price Capital Appreciation Fund	Avantor, Inc.			Equity	3,900,299	102,452,935	0.686%
JNL/T Rowe Price Capital Appreciation Fund	American Tower Corporation	8/15/2029	3.80	Fixed Income	6,771,000	6,624,081	0.045%
JNL/T Rowe Price Capital Appreciation Fund	Biogen Inc.	9/15/2045	5.20	Fixed Income	5,773,000	5,640,129	0.038%
JNL/T Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.	1/15/2030	4.75	Fixed Income	10,271,000	10,249,851	0.070%
JNL/T Rowe Price Capital Appreciation Fund	Sensata Technologies, Inc.	2/15/2030	4.38	Fixed Income	2,914,000	2,802,931	0.019%
JNL/T Rowe Price Capital Appreciation Fund	Alliant Holdings Intermediate, LLC	10/15/2027	6.75	Fixed Income	19,075,000	19,602,894	0.133%
JNL/T Rowe Price Capital Appreciation Fund	Charter Communications Operating, LLC	12/31/2049		Fixed Income	6,128,801	6,119,488	0.042%
JNL/T Rowe Price Capital Appreciation Fund	Charles River Laboratories International,						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Capital Appreciation Fund	PTC Inc.	2/15/2028	4.00	Fixed Income	5,840,000	5,697,894	0.039%
JNLUT Rowe Price Capital Appreciation Fund	MSCI Inc.	9/1/2030	2.65	Fixed Income	18,969,000	17,715,232	0.13%
JNLUT Rowe Price Capital Appreciation Fund	Severin Acquisition, LLC	6/15/2025	8.25	Fixed Income	5,352,299	5,428,554	0.037%
JNLUT Rowe Price Capital Appreciation Fund	Ingersoll Rand Inc.			Equity	1,045,785	102,654,256	0.688%
JNLUT Rowe Price Capital Appreciation Fund	RTX Corporation			Equity	1,092,228	132,334,344	0.899%
JNLUT Rowe Price Capital Appreciation Fund	Six Flags Theme Parks Inc.	7/1/2025	7.00	Fixed Income	5,566,000	5,673,682	0.039%
JNLUT Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company Inc.	5/1/2025	5.38	Fixed Income	7,556,000	7,718,020	0.052%
JNLUT Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company Inc.	5/1/2028	5.75	Fixed Income	17,471,000	17,967,844	0.122%
JNLUT Rowe Price Capital Appreciation Fund	Service Corporation International	12/15/2027	4.63	Fixed Income	1,245,000	1,244,253	0.008%
JNLUT Rowe Price Capital Appreciation Fund	VMware LLC	5/15/2030	4.70	Fixed Income	3,566,000	3,652,381	0.025%
JNLUT Rowe Price Capital Appreciation Fund	Lore Fincio Luxembourg S a r l	1/24/2027	8.85	Fixed Income	25,349,160	25,092,359	0.170%
JNLUT Rowe Price Capital Appreciation Fund	Howmet Aerospace Inc.	2/1/2027	5.90	Fixed Income	8,180,000	8,559,535	0.058%
JNLUT Rowe Price Capital Appreciation Fund	Biogen Inc.	5/1/2050	3.15	Fixed Income	21,131,000	14,884,019	0.101%
JNLUT Rowe Price Capital Appreciation Fund	Telcelx Incorporated	6/1/2028	4.25	Fixed Income	1,520,000	1,493,614	0.010%
JNLUT Rowe Price Capital Appreciation Fund	American Tower Corporation	10/1/2030	2.10	Fixed Income	4,605,000	4,095,618	0.028%
JNLUT Rowe Price Capital Appreciation Fund	TransDigm Inc.	11/15/2027	5.50	Fixed Income	17,045,000	17,341,895	0.118%
JNLUT Rowe Price Capital Appreciation Fund	Garther, Inc.	7/1/2028	4.50	Fixed Income	7,595,000	7,592,412	0.052%
JNLUT Rowe Price Capital Appreciation Fund	Mileage Plus Holdings, LLC	6/20/2027	6.50	Fixed Income	11,843,307	12,014,612	0.082%
JNLUT Rowe Price Capital Appreciation Fund	Avantor, Inc.	7/15/2028	4.63	Fixed Income	33,187,000	32,713,829	0.223%
JNLUT Rowe Price Capital Appreciation Fund	Magnum Management Corporation	7/15/2029	5.25	Fixed Income	18,174,000	18,060,921	0.123%
JNLUT Rowe Price Capital Appreciation Fund	Service Corporation International	8/15/2030	3.38	Fixed Income	5,988,000	5,448,588	0.037%
JNLUT Rowe Price Capital Appreciation Fund	Sensata Technologies, Inc.	2/15/2031	3.75	Fixed Income	7,607,000	7,003,105	0.048%
JNLUT Rowe Price Capital Appreciation Fund	Lore Fincio Luxembourg S a r l	10/1/2030	2.10	Fixed Income	10,649,129	10,539,442	0.072%
JNLUT Rowe Price Capital Appreciation Fund	Motorola Solutions, Inc.	11/15/2030	2.30	Fixed Income	1,523,000	1,357,326	0.009%
JNLUT Rowe Price Capital Appreciation Fund	Booz Allen Hamilton Inc.	9/1/2028	3.88	Fixed Income	7,947,000	7,732,521	0.053%
JNLUT Rowe Price Capital Appreciation Fund	Yum! Brands, Inc.	3/31/2031	3.63	Fixed Income	14,549,000	13,485,844	0.092%
JNLUT Rowe Price Capital Appreciation Fund	Hologic, Inc.	2/15/2029	3.25	Fixed Income	5,864,000	5,383,525	0.038%
JNLUT Rowe Price Capital Appreciation Fund	Garther, Inc.	10/1/2030	3.75	Fixed Income	5,036,000	4,820,396	0.033%
JNLUT Rowe Price Capital Appreciation Fund	SkyMiles IP Ltd	12/31/2049		Fixed Income	1,942,739	1,977,223	0.013%
JNLUT Rowe Price Capital Appreciation Fund	SkyMiles IP Ltd	10/20/2028	4.75	Fixed Income	13,529,275	13,623,779	0.083%
JNLUT Rowe Price Capital Appreciation Fund	American Tower Corporation	10/15/2030	1.88	Fixed Income	5,903,000	5,136,451	0.035%
JNLUT Rowe Price Capital Appreciation Fund	SkyMiles IP Ltd	9/15/2032	9.50	Fixed Income	17,761,440	18,376,511	0.125%
JNLUT Rowe Price Capital Appreciation Fund	Alliant Holdings Intermediate, LLC	4/15/2028	6.75	Fixed Income	31,621,000	33,113,249	0.225%
JNLUT Rowe Price Capital Appreciation Fund	GFL Environmental Inc.	8/15/2029	4.38	Fixed Income	4,891,000	4,711,397	0.032%
JNLUT Rowe Price Capital Appreciation Fund	Linde Public Limited Company			Equity	312,565	149,049,746	1.013%
JNLUT Rowe Price Capital Appreciation Fund	Heartland Dental, LLC	4/30/2028	10.50	Fixed Income	11,848,800	432,942,813	2.898%
JNLUT Rowe Price Capital Appreciation Fund	Ball Corporation	6/15/2029	6.00	Fixed Income	13,116,000	13,768,477	0.094%
JNLUT Rowe Price Capital Appreciation Fund	IQVIA Inc.	5/15/2030	6.50	Fixed Income	6,498,000	6,941,752	0.047%
JNLUT Rowe Price Capital Appreciation Fund	Pfizer Group Corporation	3/31/2025	7.84	Fixed Income	13,832,197	15,362,163	0.104%
JNLUT Rowe Price Capital Appreciation Fund	GE HealthCare Technologies Inc.	11/15/2027	5.65	Fixed Income	3,465,000	3,677,638	0.025%
JNLUT Rowe Price Capital Appreciation Fund	HUB International Limited	6/15/2030	7.25	Fixed Income	122,007,000	129,811,594	0.882%
JNLUT Rowe Price Capital Appreciation Fund	Booz Allen Hamilton Inc.	8/4/2033	5.95	Fixed Income	7,932,000	8,545,793	0.058%
JNLUT Rowe Price Capital Appreciation Fund	Verato Corporation			Equity	1,084,578	121,418,507	0.825%
JNLUT Rowe Price Capital Appreciation Fund	Treasury, United States Department of	11/15/2033	4.50	Fixed Income	13,294,600	132,368,386	0.899%
JNLUT Rowe Price Capital Appreciation Fund	TransDigm Inc.	12/21/2031	7.13	Fixed Income	18,064,000	19,531,958	0.133%
JNLUT Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company, Inc.	1/15/2030	6.60	Fixed Income	38,009,361	38,029,536	0.258%
JNLUT Rowe Price Capital Appreciation Fund	GFL Environmental Inc.	11/15/2031	6.75	Fixed Income	3,842,000	4,086,373	0.028%
JNLUT Rowe Price Capital Appreciation Fund	Crown Castle Inc.	9/1/2029	6.00	Fixed Income	1,371,000	1,457,864	0.010%
JNLUT Rowe Price Capital Appreciation Fund	Alliant Holdings Intermediate, LLC	11/15/2031	7.00	Fixed Income	38,515,000	40,159,155	0.273%
JNLUT Rowe Price Capital Appreciation Fund	U S I Inc.	1/15/2032	7.50	Fixed Income	30,789,000	32,395,363	0.220%
JNLUT Rowe Price Capital Appreciation Fund	ADM Corp.	12/23/2027	11.00	Fixed Income	3,378,042	3,375,861	0.023%
JNLUT Rowe Price Capital Appreciation Fund	HUB International Limited	11/31/2032	7.38	Fixed Income	76,776,000	80,363,488	0.540%
JNLUT Rowe Price Capital Appreciation Fund	IRB Holding Corp	12/15/2027	8.00	Fixed Income	56,306,381	56,234,585	0.382%
JNLUT Rowe Price Capital Appreciation Fund	SBA Senior Finance II LLC	1/20/2031	7.25	Fixed Income	24,279,828	24,290,032	0.165%
JNLUT Rowe Price Capital Appreciation Fund	UKG Inc.	2/1/2031	6.88	Fixed Income	7,408,000	7,742,107	0.053%
JNLUT Rowe Price Capital Appreciation Fund	UKG Inc.	1/30/2031	8.55	Fixed Income	17,624,695	19,399,275	0.134%
JNLUT Rowe Price Capital Appreciation Fund	AssuredPartners, Inc.	2/15/2032	7.50	Fixed Income	3,827,000	3,974,985	0.027%
JNLUT Rowe Price Capital Appreciation Fund	Applied Systems, Inc.	2/7/2031	8.29	Fixed Income	117,341,175	117,381,214	0.798%
JNLUT Rowe Price Capital Appreciation Fund	AssuredPartners, Inc.	12/31/2049		Fixed Income	6,171,100	6,613,618	0.042%
JNLUT Rowe Price Capital Appreciation Fund	Applied Systems, Inc.	6/7/2032	10.58	Fixed Income	16,048,280	16,514,387	0.112%
JNLUT Rowe Price Capital Appreciation Fund	Treasury, United States Department of	2/15/2034	4.00	Fixed Income	12,848,800	432,942,813	2.898%
JNLUT Rowe Price Capital Appreciation Fund	amWinVS Group, Inc.	2/15/2029	6.38	Fixed Income	7,125,000	7,353,541	0.050%
JNLUT Rowe Price Capital Appreciation Fund	TransDigm Inc.	3/1/2029	6.38	Fixed Income	38,208,000	39,608,693	0.269%
JNLUT Rowe Price Capital Appreciation Fund	TransDigm Inc.	3/1/2032	6.63	Fixed Income	29,955,000	31,385,083	0.213%
JNLUT Rowe Price Capital Appreciation Fund	Trans Union, LLC	12/1/2028	7.25	Fixed Income	1,560,961	1,559,574	0.010%
JNLUT Rowe Price Capital Appreciation Fund	IQVIA Inc.	5/15/2028	5.70	Fixed Income	16,869,000	17,909,831	0.121%
JNLUT Rowe Price Capital Appreciation Fund	AssuredPartners, Inc.	2/15/2027	8.75	Fixed Income	64,171,836	64,110,990	0.436%
JNLUT Rowe Price Capital Appreciation Fund	Sophia, L.P.	10/7/2029	8.85	Fixed Income	45,869,774	45,973,650	0.312%
JNLUT Rowe Price Capital Appreciation Fund	VCI Properties LP	4/12/2034	5.75	Fixed Income	8,389,000	8,064,348	0.052%
JNLUT Rowe Price Capital Appreciation Fund	Medline Borrower, LP	4/1/2029	6.25	Fixed Income	7,633,000	8,115,072	0.055%
JNLUT Rowe Price Capital Appreciation Fund	Hilton Domestic Operating Company Inc.	4/1/2029	5.88	Fixed Income	9,160,000	9,672,662	0.066%
JNLUT Rowe Price Capital Appreciation Fund	Panther Escrow Issuer LLC	6/1/2031	7.13	Fixed Income	18,492,000	20,020,980	0.136%
JNLUT Rowe Price Capital Appreciation Fund	Survey Center Holdings, Inc.	4/15/2032	7.25	Fixed Income	5,344,000	5,162,210	0.035%
JNLUT Rowe Price Capital Appreciation Fund	TransDigm, Inc.	8/24/2028	8.08	Fixed Income	1,980,946	1,980,063	0.013%
JNLUT Rowe Price Capital Appreciation Fund	TransDigm, Inc.	2/22/2030	8.08	Fixed Income	18,960,751	18,959,131	0.129%
JNLUT Rowe Price Capital Appreciation Fund	Avantor Funding, Inc.	11/8/2027	7.35	Fixed Income	1,513,898	1,521,246	0.010%
JNLUT Rowe Price Capital Appreciation Fund	Medline Borrower, LP	3/23/2028	6.00	Fixed Income	7,193,871	7,594,714	0.052%
JNLUT Rowe Price Capital Appreciation Fund	Vail Resorts, Inc.	5/15/2032	6.50	Fixed Income	7,644,000	8,186,156	0.056%
JNLUT Rowe Price Capital Appreciation Fund	Press Ganey Holdings, Inc.	4/23/2031	8.75	Fixed Income	26,708,000	26,647,719	0.181%
JNLUT Rowe Price Capital Appreciation Fund	Trust Insurance Holdings LLC	3/8/2032	10.08	Fixed Income	47,177,741	47,897,665	0.326%
JNLUT Rowe Price Capital Appreciation Fund	Trust Insurance Holdings LLC	3/21/2031	8.58	Fixed Income	34,550,506	34,471,667	0.240%
JNLUT Rowe Price Capital Appreciation Fund	Treasury, United States Department of	5/15/2034	4.38	Fixed Income	160,099,300	170,292,756	1.157%
JNLUT Rowe Price Capital Appreciation Fund	Heartland Dental, LLC	4/28/2028	9.75	Fixed Income	31,799,532	31,218,579	0.212%
JNLUT Rowe Price Capital Appreciation Fund	Sensata Technologies, Inc.	7/15/2032	6.63	Fixed Income	2,271,000	2,414,913	0.016%
JNLUT Rowe Price Capital Appreciation Fund	Epico Software Corporation	12/31/2049		Fixed Income	2,363,339	2,364,142	0.016%
JNLUT Rowe Price Capital Appreciation Fund	Epico Software Corporation	5/23/2031	8.50	Fixed Income	22,303,739	22,816,238	0.152%
JNLUT Rowe Price Capital Appreciation Fund	Quartz Acquireco LLC	11/18/2028	8.08	Fixed Income	6,979,166	6,967,682	0.047%
JNLUT Rowe Price Capital Appreciation Fund	Broadstreet Partners, Inc.	5/10/2031	8.50	Fixed Income	54,518,652	54,292,655	0.369%
JNLUT Rowe Price Capital Appreciation Fund	Informatica LLC	10/30/2028	7.50	Fixed Income	4,406,432	4,399,991	0.030%
JNLUT Rowe Price Capital Appreciation Fund	Biogen Inc.	2/15/2051	3.65	Fixed Income	985,000	1,004,535	0.007%
JNLUT Rowe Price Capital Appreciation Fund	Broadridge Financial Solutions, Inc.	5/1/2031	2.60	Fixed Income	2,168,000	1,934,718	0.013%
JNLUT Rowe Price Capital Appreciation Fund	USI, Inc.	11/22/2029	8.09	Fixed Income	47,932,337	47,782,513	0.325%
JNLUT Rowe Price Capital Appreciation Fund	USI, Inc.	9/27/2030	8.08	Fixed Income	68,242,623	68,019,079	0.462%
JNLUT Rowe Price Capital Appreciation Fund	Martin Marietta Materials, Inc.	7/15/2031	2.40	Fixed Income	1,523,000	1,537,184	0.010%
JNLUT Rowe Price Capital Appreciation Fund	Crown Castle Inc.	9/1/2029	4.90	Fixed Income	6,636,000	6,995,147	0.048%
JNLUT Rowe Price Capital Appreciation Fund	Crown Castle Inc.	9/1/2034	5.20	Fixed Income	11,393,000	11,627,926	0.079%
JNLUT Rowe Price Capital Appreciation Fund	HUB International Limited	6/19/2030	8.26	Fixed Income	185,281,192	185,611,575	1.261%
JNLUT Rowe Price Capital Appreciation Fund	Treasury, United States Department of	5/15/2034	3.88	Fixed Income	17,802,600	17,732,143	0.124%
JNLUT Rowe Price Capital Appreciation Fund	Varsity Brands, Inc.	7/30/2031	8.82	Fixed Income	38,452,000	38,362,039	0.261%
JNLUT Rowe Price Capital Appreciation Fund	Treasury, United States Department of	8/31/2029	3.63	Fixed Income	800,325,000	805,310,450	5.473%
JNLUT Rowe Price Capital Appreciation Fund	Intercontinental Exchange, Inc.	9/1/2028	3.63	Fixed Income	2,410,000	2,366,298	0.016%
JNLUT Rowe Price Capital Appreciation Fund	Icon Parent Inc.	12/31/2049		Fixed Income	12,814,800	12,848,800	0.086%
JNLUT Rowe Price Capital Appreciation Fund	Service Corporation International	10/15/2032	5.75	Fixed Income	7,722,000	7,789,188	0.053%
JNLUT Rowe Price Capital Appreciation Fund	Icon Parent Inc.	12/31/2049		Fixed Income	21,550,300	21,379,622	0.145%
JNLUT Rowe Price Capital Appreciation Fund	Alliant Holdings Intermediate, LLC	9/12/2031	7.96	Fixed Income	77,888,715	77,512,218	0.527%
Total Non Derivatives						14,768,569,684	
Derivatives							
JNLUT Rowe Price Capital Appreciation Fund	Abbott Laboratories OPTION			Derivative	-388	(117,758)	-0.001%
JNLUT Rowe Price Capital Appreciation Fund	Abbott Laboratories OPTION			Derivative	-388	(63,244)	-0.000%
JNLUT Rowe Price Capital Appreciation Fund	Abbvie Inc. OPTION			Derivative	-958	(3,721,830)	-0.025%
JNLUT Rowe Price Capital Appreciation Fund	Abbvie Inc. OPTION			Derivative	-1,849	(6,329,203)	-0.043%
JNLUT Rowe Price Capital Appreciation Fund	Abbvie Inc. OPTION			Derivative	-891	(2,611,521)	-0.018%
JNLUT Rowe Price Capital Appreciation Fund	Abbvie Inc. OPTION			Derivative	-1,218	(3,136,350)	-0.021%
JNLUT Rowe Price Capital Appreciation Fund	Amren Corporation OPTION			Derivative	-465	(63,000)	-0.001%
JNLUT Rowe Price Capital Appreciation Fund	Apple Inc. OPTION			Derivative	-916	(3,470,724)	-0.024%
JNLUT Rowe Price Capital Appreciation Fund	Apple Inc. OPTION			Derivative	-916	(2,322,060)	-0.016%
JNLUT Rowe Price Capital Appreciation Fund	Apple Inc. OPTION			Derivative	-775	(434,000)	-0.003%
JNLUT Rowe Price Capital Appreciation Fund	Amazon.com, Inc. OPTION			Derivative	-620	(477,400)	-0.003%
JNLUT Rowe Price Capital Appreciation Fund	Danaher Corporation OPTION			Derivative	-1,635	(1,030,050)	-0.007%
JNLUT Rowe Price Capital Appreciation Fund	Danaher Corporation OPTION			Derivative	-786	(1,214,370)	-0.008%
JNLUT Rowe Price Capital Appreciation Fund	DTE Energy Company OPTION			Derivative	-194	(93,120)	-0.001%
JNLUT Rowe Price Capital Appreciation Fund	DTE Energy Company OPTION			Derivative	-194	(62,380)	-0.000%
JNLUT Rowe Price Capital Appreciation Fund	Exelixis Corporation OPTION			Derivative	-1,851	(1,095,195)	-0.007%
JNLUT Rowe Price Capital Appreciation Fund	GE HealthCare Technologies Inc. OPTION			Derivative	-916	(1,057,980)	-0.007%
JNLUT Rowe Price Capital Appreciation Fund	GE HealthCare Technologies Inc. OPTION			Derivative	-916	(746,540)	-0.005%
JNLUT Rowe Price Capital Appreciation Fund	Alphabet Inc. OPTION			Derivative	-194	(135,218)	-0.001%
JNLUT Rowe Price Capital Appreciation Fund	Alphabet Inc. OPTION			Derivative	-832	(2,884,860)	-0.019%
JNLUT Rowe Price Capital Appreciation Fund	Alphabet Inc. OPTION			Derivative	-194	(74,690)	-0.001%
JNLUT Rowe Price Capital Appreciation Fund	Hilton Worldwide Holdings Inc. OPTION			Derivative	-382	(794,560)	-0.005%
JNLUT Rowe Price Capital Appreciation Fund	Hilton Worldwide Holdings Inc. OPTION			Derivative	-382	(546,260)	-0.004%
JNLUT Rowe Price Capital Appreciation Fund	Intercontinental Exchange, Inc. OPTION			Derivative	-1,067	(3,945,975)	-0.027%
JNLUT Rowe Price Capital Appreciation Fund	Intercontinental Exchange, Inc. OPTION			Derivative	-1,067	(3,419,153)	-0.023%
JNLUT Rowe Price Capital Appreciation Fund	Intercontinental Exchange, Inc. OPTION			Derivative	-789	(1,78	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/T. Rowe Price Capital Appreciation Fund	Linde Public Limited Company OPTION			Derivative	-248	(1,135,840)	-0.008%
JNL/T. Rowe Price Capital Appreciation Fund	Linde Public Limited Company OPTION			Derivative	-494	(1,899,430)	-0.013%
JNL/T. Rowe Price Capital Appreciation Fund	Linde Public Limited Company OPTION			Derivative	-214	(526,440)	-0.004%
JNL/T. Rowe Price Capital Appreciation Fund	Linde Public Limited Company OPTION			Derivative	-153	(253,215)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	MasterCard Incorporated OPTION			Derivative	-204	(639,540)	-0.004%
JNL/T. Rowe Price Capital Appreciation Fund	MasterCard Incorporated OPTION			Derivative	-282	(734,610)	-0.005%
JNL/T. Rowe Price Capital Appreciation Fund	MasterCard Incorporated OPTION			Derivative	-204	(418,710)	-0.003%
JNL/T. Rowe Price Capital Appreciation Fund	MasterCard Incorporated OPTION			Derivative	-78	(101,634)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	McDonald's Corporation OPTION			Derivative	-520	(339,300)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	McDonald's Corporation OPTION			Derivative	-521	(260,500)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	McDonald's Corporation OPTION			Derivative	-520	(187,200)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	McKesson Corporation OPTION			Derivative	-245	(47,285)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	McKesson Corporation OPTION			Derivative	-855	(89,775)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	McKesson Corporation OPTION			Derivative	-51	(4,208)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	McKesson Corporation OPTION			Derivative	-52	(1,432)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Microsoft Corporation OPTION			Derivative	-310	(319,300)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	Marsh & McLennan Companies, Inc. OPTION			Derivative	-1,396	(2,470,920)	-0.017%
JNL/T. Rowe Price Capital Appreciation Fund	Meta Platforms, Inc. OPTION			Derivative	-155	(598,688)	-0.004%
JNL/T. Rowe Price Capital Appreciation Fund	Northrop Grumman Corporation OPTION			Derivative	-607	(3,201,905)	-0.022%
JNL/T. Rowe Price Capital Appreciation Fund	Roper Technologies, Inc. OPTION			Derivative	-300	(333,000)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	Roper Technologies, Inc. OPTION			Derivative	-422	(215,220)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Roper Technologies, Inc. OPTION			Derivative	-355	(119,813)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Roper Technologies, Inc. OPTION			Derivative	-122	(33,855)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	RTX Corporation OPTION			Derivative	-611	(618,638)	-0.004%
JNL/T. Rowe Price Capital Appreciation Fund	RTX Corporation OPTION			Derivative	-611	(420,063)	-0.003%
JNL/T. Rowe Price Capital Appreciation Fund	RTX Corporation OPTION			Derivative	-388	(170,720)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	RTX Corporation OPTION			Derivative	-388	(102,738)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Teledyne Technologies Incorporated OPTION			Derivative	-39	(73,905)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Teledyne Technologies Incorporated OPTION			Derivative	-39	(38,805)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Teledyne Technologies Incorporated OPTION			Derivative	-13	(32,500)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Teledyne Technologies Incorporated OPTION			Derivative	-13	(58,135)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Thermo Fisher Scientific Inc. OPTION			Derivative	-233	(470,660)	-0.003%
JNL/T. Rowe Price Capital Appreciation Fund	Thermo Fisher Scientific Inc. OPTION			Derivative	-155	(208,475)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	UnitedHealth Group Incorporated OPTION			Derivative	-519	(2,087,678)	-0.014%
JNL/T. Rowe Price Capital Appreciation Fund	UnitedHealth Group Incorporated OPTION			Derivative	-521	(1,565,605)	-0.011%
JNL/T. Rowe Price Capital Appreciation Fund	Visa Inc. OPTION			Derivative	-328	(83,460)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Visa Inc. OPTION			Derivative	-328	(68,224)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Visa Inc. OPTION			Derivative	-328	(48,872)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Visa Inc. OPTION			Derivative	-465	(179,025)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Veralto Corporation OPTION			Derivative	-428	(287,500)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	Veralto Corporation OPTION			Derivative	-622	(230,140)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	Veralto Corporation OPTION			Derivative	-194	(50,440)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Waste Connections, Inc. OPTION			Derivative	-306	(293,760)	-0.002%
JNL/T. Rowe Price Capital Appreciation Fund	Waste Connections, Inc. OPTION			Derivative	-306	(203,690)	-0.001%
JNL/T. Rowe Price Capital Appreciation Fund	Waste Connections, Inc. OPTION			Derivative	-155	(22,088)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Waste Connections, Inc. OPTION			Derivative	-155	(10,075)	0.000%
JNL/T. Rowe Price Capital Appreciation Fund	Yum! Brands, Inc. OPTION			Derivative	-679	(414,190)	-0.003%
JNL/T. Rowe Price Capital Appreciation Fund	Yum! Brands, Inc. OPTION			Derivative	-2,676	(953,360)	-0.007%
JNL/T. Rowe Price Capital Appreciation Fund	Yum! Brands, Inc. OPTION			Derivative	-3,641	(691,790)	-0.005%
Total Derivatives						(73,710,101)	
Total All Investments						14,714,858,983	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/T. Rowe Price Established Growth Fund	Cash			Cash Equivalent	507,982	507,982	0.005%
JNL/T. Rowe Price Established Growth Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,492,021	4,511,243	0.044%
JNL/T. Rowe Price Established Growth Fund	Coupaang, Inc.			Equity	2,123,392	52,129,274	0.504%
JNL/T. Rowe Price Established Growth Fund	AppLovin Corporation			Equity	260,000	33,943,000	0.328%
JNL/T. Rowe Price Established Growth Fund	Duolinggo, Inc.			Equity	66,600	19,346,572	0.187%
JNL/T. Rowe Price Established Growth Fund	Rivian Automotive, Inc.			Equity	798,001	8,954,581	0.086%
JNL/T. Rowe Price Established Growth Fund	Monday.Com Ltd.			Equity	19,766	5,490,402	0.053%
JNL/T. Rowe Price Established Growth Fund	Atlasian Corporation			Equity	258,495	41,051,591	0.397%
JNL/T. Rowe Price Established Growth Fund	MonopD8, Inc.			Equity	43,850	11,854,848	0.115%
JNL/T. Rowe Price Established Growth Fund	Adobe Inc.			Equity	139,563	72,262,938	0.698%
JNL/T. Rowe Price Established Growth Fund	Autodesk, Inc.			Equity	240,653	66,295,088	0.640%
JNL/T. Rowe Price Established Growth Fund	Advanced Micro Devices, Inc.			Equity	438,959	72,024,393	0.696%
JNL/T. Rowe Price Established Growth Fund	Amazon.com, Inc.			Equity	4,315,632	804,131,711	7.768%
JNL/T. Rowe Price Established Growth Fund	Amphenol Corporation			Equity	197,498	12,534,218	0.125%
JNL/T. Rowe Price Established Growth Fund	Apple Inc.			Equity	6,110,979	1,423,858,107	13.754%
JNL/T. Rowe Price Established Growth Fund	IDEXX Laboratories, Inc.			Equity	30,600	15,459,732	0.149%
JNL/T. Rowe Price Established Growth Fund	NVIDIA Corporation			Equity	8,863,613	1,076,485,949	10.399%
JNL/T. Rowe Price Established Growth Fund	Intuit Inc.			Equity	220,593	136,988,253	1.323%
JNL/T. Rowe Price Established Growth Fund	Danaher Corporation			Equity	411,054	114,392,218	1.105%
JNL/T. Rowe Price Established Growth Fund	Salesforce, Inc.			Equity	120,631	33,074,163	0.319%
JNL/T. Rowe Price Established Growth Fund	Fiserv, Inc.			Equity	415,851	74,707,632	0.722%
JNL/T. Rowe Price Established Growth Fund	Roper Technologies, Inc.			Equity	163,310	90,872,216	0.878%
JNL/T. Rowe Price Established Growth Fund	PepsiCo, Inc.			Equity	111,400	18,943,570	0.183%
JNL/T. Rowe Price Established Growth Fund	Rockwell Automation, Inc.			Equity	167,553	44,983,963	0.435%
JNL/T. Rowe Price Established Growth Fund	Eli Lilly and Company			Equity	431,987	382,114,563	3.697%
JNL/T. Rowe Price Established Growth Fund	Charles Schwab Corporation, The			Equity	1,234,933	80,036,397	0.772%
JNL/T. Rowe Price Established Growth Fund	Old Dominion Freight Line, Inc.			Equity	377,778	75,041,822	0.725%
JNL/T. Rowe Price Established Growth Fund	Microsoft Corporation			Equity	3,047,156	1,311,191,227	12.666%
JNL/T. Rowe Price Established Growth Fund	Teledyne Technologies Incorporated			Equity	213,480	93,431,657	0.903%
JNL/T. Rowe Price Established Growth Fund	Stryker Corporation			Equity	116,324	42,849,387	0.414%
JNL/T. Rowe Price Established Growth Fund	Thermo Fisher Scientific Inc.			Equity	115,141	71,267,673	0.688%
JNL/T. Rowe Price Established Growth Fund	UnitedHealth Group Incorporated			Equity	270,641	158,238,380	1.529%
JNL/T. Rowe Price Established Growth Fund	Intuitive Surgical, Inc.			Equity	338,543	166,316,020	1.607%
JNL/T. Rowe Price Established Growth Fund	Starbucks Corporation			Equity	828,400	80,760,716	0.780%
JNL/T. Rowe Price Established Growth Fund	Synovus, Inc.			Equity	139,646	70,715,338	0.683%
JNL/T. Rowe Price Established Growth Fund	Netflix, Inc.			Equity	247,653	175,652,843	1.697%
JNL/T. Rowe Price Established Growth Fund	Airbus SE			Equity	255,346	37,378,269	0.361%
JNL/T. Rowe Price Established Growth Fund	MasterCard Incorporated			Equity	452,083	223,238,585	2.156%
JNL/T. Rowe Price Established Growth Fund	Chipotle Mexican Grill, Inc.			Equity	1,982,800	114,248,936	1.104%
JNL/T. Rowe Price Established Growth Fund	Lululemon Athletica Inc.			Equity	117,900	31,992,165	0.309%
JNL/T. Rowe Price Established Growth Fund	Tesla Inc.			Equity	763,357	199,717,092	1.929%
JNL/T. Rowe Price Established Growth Fund	Dollar General Corporation			Equity	595,755	50,383,000	0.487%
JNL/T. Rowe Price Established Growth Fund	Visa Inc.			Equity	916,363	251,954,007	2.434%
JNL/T. Rowe Price Established Growth Fund	Chubb Limited			Equity	149,527	43,258,161	0.418%
JNL/T. Rowe Price Established Growth Fund	Meta Platforms, Inc.			Equity	1,000,972	572,996,412	5.535%
JNL/T. Rowe Price Established Growth Fund	ServiceNow, Inc.			Equity	203,927	182,390,270	1.762%
JNL/T. Rowe Price Established Growth Fund	Ferrari N.V.			Equity	99,044	46,561,575	0.450%
JNL/T. Rowe Price Established Growth Fund	The Cigna Group			Equity	196,548	68,092,089	0.658%
JNL/T. Rowe Price Established Growth Fund	Floor & Decor Holdings, Inc.			Equity	387,136	48,070,677	0.464%
JNL/T. Rowe Price Established Growth Fund	argenx SE			Equity	158,931	86,153,316	0.832%
JNL/T. Rowe Price Established Growth Fund	Booking Holdings Inc.			Equity	11,113	46,809,290	0.452%
JNL/T. Rowe Price Established Growth Fund	ASML Holding N.V.			Equity	116,086	96,728,660	0.934%
JNL/T. Rowe Price Established Growth Fund	Spotify Technology S.A.			Equity	194,477	71,670,609	0.692%
JNL/T. Rowe Price Established Growth Fund	Shopify Inc.			Equity	1,542,893	123,647,445	1.194%
JNL/T. Rowe Price Established Growth Fund	Alphabet Inc.			Equity	3,696,272	613,026,711	5.922%
JNL/T. Rowe Price Established Growth Fund	Alphabet Inc.			Equity	273,812	45,778,628	0.442%
JNL/T. Rowe Price Established Growth Fund	HubSpot, Inc.			Equity	102,196	54,327,394	0.525%
JNL/T. Rowe Price Established Growth Fund	Natera, Inc.			Equity	45,823	5,817,230	0.056%
JNL/T. Rowe Price Established Growth Fund	Sartorius Aktiengesellschaft			Equity	140,153	39,402,651	0.381%
JNL/T. Rowe Price Established Growth Fund	T. Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	24,113,335	24,161,734	0.233%
JNL/T. Rowe Price Established Growth Fund	Pinterest, Inc.			Equity	822,828	26,634,942	0.257%
JNL/T. Rowe Price Established Growth Fund	Uber Technologies, Inc.			Equity	1,624,244	122,078,179	1.179%
JNL/T. Rowe Price Established Growth Fund	Dynatrace, Inc.			Equity	966,187	51,662,019	0.499%
JNL/T. Rowe Price Established Growth Fund	Legend Biotech Corp			Equity	411,820	20,067,989	0.194%
JNL/T. Rowe Price Established Growth Fund	Snowflake Inc.			Equity	176,948	20,324,247	0.196%
JNL/T. Rowe Price Established Growth Fund	Linde Public Limited Company			Equity	142,470	67,938,244	0.656%
JNL/T. Rowe Price Established Growth Fund	Linage, Inc.			Equity	282,772	22,271,123	0.215%
Total Non Derivatives						10,352,192,309	
Derivatives							
Total Derivatives						0	
Total All Investments						10,352,192,309	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLUT Rowe Price Mid-Cap Growth Fund	Cash			Cash Equivalent	1,074,316	1,074,316	0.020%
JNLUT Rowe Price Mid-Cap Growth Fund	JNL Government Money Market Fund	4.82		Cash Equivalent	3,944,467	3,964,547	0.073%
JNLUT Rowe Price Mid-Cap Growth Fund	Vaccyte, Inc.			Equity	143,092	16,351,123	0.301%
JNLUT Rowe Price Mid-Cap Growth Fund	Chesapeake Energy Corporation			Equity	293,500	24,140,375	0.444%
JNLUT Rowe Price Mid-Cap Growth Fund	Marvell Technology, Inc.			Equity	2,141,400	154,437,168	2.843%
JNLUT Rowe Price Mid-Cap Growth Fund	CCC Intelligent Solutions Holdings Inc.			Equity	4,334,398	47,895,098	0.882%
JNLUT Rowe Price Mid-Cap Growth Fund	Bath & Body Works, Inc.			Equity	848,342	27,079,077	0.499%
JNLUT Rowe Price Mid-Cap Growth Fund	On Holding AG			Equity	265,300	13,304,795	0.245%
JNLUT Rowe Price Mid-Cap Growth Fund	Toilex, Inc.			Equity	1,037,300	29,365,963	0.541%
JNLUT Rowe Price Mid-Cap Growth Fund	TPG Inc.			Equity	133,300	18,912,748	0.341%
JNLUT Rowe Price Mid-Cap Growth Fund	Enovis Corporation			Equity	559,200	24,073,560	0.443%
JNLUT Rowe Price Mid-Cap Growth Fund	ESAB Corporation			Equity	539,500	56,971,845	1.049%
JNLUT Rowe Price Mid-Cap Growth Fund	DK Crown Holdings Inc.			Equity	1,498,100	58,725,520	1.081%
JNLUT Rowe Price Mid-Cap Growth Fund	Quintiletho Corporation			Equity	571,600	26,064,267	0.480%
JNLUT Rowe Price Mid-Cap Growth Fund	Atlasian Corporation			Equity	159,400	25,314,314	0.466%
JNLUT Rowe Price Mid-Cap Growth Fund	MonqoDB, Inc.			Equity	44,000	11,895,400	0.219%
JNLUT Rowe Price Mid-Cap Growth Fund	Yum! Brands, Inc.			Equity	510,171	71,275,990	1.312%
JNLUT Rowe Price Mid-Cap Growth Fund	United Rentals, Inc.			Equity	49,500	40,081,535	0.738%
JNLUT Rowe Price Mid-Cap Growth Fund	Mettler-Toledo International Inc.			Equity	22,500	33,743,250	0.621%
JNLUT Rowe Price Mid-Cap Growth Fund	Ball Corporation			Equity	1,426,500	96,873,615	1.783%
JNLUT Rowe Price Mid-Cap Growth Fund	Avery Dennison Corporation			Equity	344,700	76,095,972	1.401%
JNLUT Rowe Price Mid-Cap Growth Fund	Quanta Services, Inc.			Equity	71,000	21,169,650	0.390%
JNLUT Rowe Price Mid-Cap Growth Fund	Boston Beer Company, Inc., The			Equity	35,500	10,264,470	0.189%
JNLUT Rowe Price Mid-Cap Growth Fund	Amphenol Corporation			Equity	473,000	30,896,725	0.569%
JNLUT Rowe Price Mid-Cap Growth Fund	IDEX Corporation			Equity	145,800	31,274,100	0.576%
JNLUT Rowe Price Mid-Cap Growth Fund	Hologic, Inc.			Equity	1,811,500	147,564,790	2.717%
JNLUT Rowe Price Mid-Cap Growth Fund	Biogen Inc.			Equity	223,300	43,284,472	0.797%
JNLUT Rowe Price Mid-Cap Growth Fund	CoStar Group, Inc.			Equity	435,200	32,831,488	0.604%
JNLUT Rowe Price Mid-Cap Growth Fund	Assurant, Inc.			Equity	344,600	68,527,156	1.262%
JNLUT Rowe Price Mid-Cap Growth Fund	Fair Isaac Corporation			Equity	30,600	59,471,712	1.095%
JNLUT Rowe Price Mid-Cap Growth Fund	Constellation Brands, Inc.			Equity	97,300	28,073,227	0.482%
JNLUT Rowe Price Mid-Cap Growth Fund	Cassey's General Stores, Inc.			Equity	133,500	50,157,285	0.923%
JNLUT Rowe Price Mid-Cap Growth Fund	Equifax Inc.			Equity	240,300	70,614,558	1.300%
JNLUT Rowe Price Mid-Cap Growth Fund	Sealed Air Corporation			Equity	831,500	30,183,450	0.556%
JNLUT Rowe Price Mid-Cap Growth Fund	Copres Corporation			Equity	468,300	18,996,748	0.349%
JNLUT Rowe Price Mid-Cap Growth Fund	Dollar Tree, Inc.			Equity	786,400	55,299,648	1.018%
JNLUT Rowe Price Mid-Cap Growth Fund	EQT Corporation			Equity	1,286,700	47,144,688	0.868%
JNLUT Rowe Price Mid-Cap Growth Fund	Molina Healthcare, Inc.			Equity	134,800	46,446,688	0.855%
JNLUT Rowe Price Mid-Cap Growth Fund	J.B. Hunt Transport Services, Inc.			Equity	450,900	78,497,928	1.449%
JNLUT Rowe Price Mid-Cap Growth Fund	Roper Technologies, Inc.			Equity	31,100	17,305,284	0.319%
JNLUT Rowe Price Mid-Cap Growth Fund	RPM International Inc.			Equity	207,900	25,155,900	0.463%
JNLUT Rowe Price Mid-Cap Growth Fund	Range Resources Corporation			Equity	625,100	19,228,076	0.354%
JNLUT Rowe Price Mid-Cap Growth Fund	Ross Stores, Inc.			Equity	177,800	71,913,778	1.324%
JNLUT Rowe Price Mid-Cap Growth Fund	Litellfuse, Inc.			Equity	35,700	9,469,425	0.174%
JNLUT Rowe Price Mid-Cap Growth Fund	Bruker Corporation			Equity	783,404	54,101,880	0.996%
JNLUT Rowe Price Mid-Cap Growth Fund	McCormick & Company, Incorporated			Equity	258,200	21,249,860	0.391%
JNLUT Rowe Price Mid-Cap Growth Fund	Raymond James Financial, Inc.			Equity	348,100	43,828,328	0.805%
JNLUT Rowe Price Mid-Cap Growth Fund	Insmid Incorporated			Equity	45,662	3,333,326	0.061%
JNLUT Rowe Price Mid-Cap Growth Fund	The New York Times Company			Equity	575,500	32,038,085	0.590%
JNLUT Rowe Price Mid-Cap Growth Fund	Agilent Technologies, Inc.			Equity	696,900	103,475,712	1.905%
JNLUT Rowe Price Mid-Cap Growth Fund	Lattice Semiconductor Corporation			Equity	1,329,000	70,530,000	1.298%
JNLUT Rowe Price Mid-Cap Growth Fund	Martin Marietta Materials, Inc.			Equity	138,800	74,709,100	1.375%
JNLUT Rowe Price Mid-Cap Growth Fund	Microchip Technology Incorporated			Equity	1,567,000	125,814,430	2.316%
JNLUT Rowe Price Mid-Cap Growth Fund	Exact Sciences Corporation			Equity	287,200	19,564,064	0.360%
JNLUT Rowe Price Mid-Cap Growth Fund	AXIS Capital Holdings Limited			Equity	266,200	21,309,310	0.392%
JNLUT Rowe Price Mid-Cap Growth Fund	Chemers Energy, Inc.			Equity	407,800	73,380,460	1.350%
JNLUT Rowe Price Mid-Cap Growth Fund	Align Technology, Inc.			Equity	169,800	43,183,536	0.795%
JNLUT Rowe Price Mid-Cap Growth Fund	Market Group Inc.			Equity	13,400	21,018,972	0.387%
JNLUT Rowe Price Mid-Cap Growth Fund	Tractor Supply Company			Equity	48,006	14,257,316	0.262%
JNLUT Rowe Price Mid-Cap Growth Fund	West Pharmaceutical Services, Inc.			Equity	62,400	18,729,884	0.345%
JNLUT Rowe Price Mid-Cap Growth Fund	Textron Inc.			Equity	1,087,800	96,379,080	1.774%
JNLUT Rowe Price Mid-Cap Growth Fund	Tyler Technologies, Inc.			Equity	128,500	75,008,020	1.381%
JNLUT Rowe Price Mid-Cap Growth Fund	Southwest Airlines Co.			Equity	87,000	2,577,810	0.047%
JNLUT Rowe Price Mid-Cap Growth Fund	Telleflex Incorporated			Equity	500,400	123,788,400	2.278%
JNLUT Rowe Price Mid-Cap Growth Fund	Amylin Pharmaceuticals, Inc.			Equity	263,010	72,335,640	1.332%
JNLUT Rowe Price Mid-Cap Growth Fund	MarketAxess Holdings Inc.			Equity	173,800	44,527,560	0.820%
JNLUT Rowe Price Mid-Cap Growth Fund	Domino's Pizza, Inc.			Equity	214,839	92,410,847	1.701%
JNLUT Rowe Price Mid-Cap Growth Fund	Trethousa Foods, Inc.			Equity	15,626	1,029,126	0.019%
JNLUT Rowe Price Mid-Cap Growth Fund	Lululemon Athletica Inc.			Equity	53,200	14,435,820	0.266%
JNLUT Rowe Price Mid-Cap Growth Fund	Broadridge Financial Solutions, Inc.			Equity	222,100	47,953,611	0.883%
JNLUT Rowe Price Mid-Cap Growth Fund	Ulta Beauty, Inc.			Equity	110,547	43,016,049	0.792%
JNLUT Rowe Price Mid-Cap Growth Fund	CSCG Global Markets, Inc.			Equity	221,900	22,849,653	0.425%
JNLUT Rowe Price Mid-Cap Growth Fund	NXP Semiconductors N.V.			Equity	116,300	28,034,640	0.516%
JNLUT Rowe Price Mid-Cap Growth Fund	Acadia Healthcare Company, Inc.			Equity	506,100	32,091,801	0.591%
JNLUT Rowe Price Mid-Cap Growth Fund	Fortinet, Inc.			Equity	566,000	43,893,300	0.808%
JNLUT Rowe Price Mid-Cap Growth Fund	Bright Horizons Family Solutions, Inc.			Equity	199,600	27,969,948	0.515%
JNLUT Rowe Price Mid-Cap Growth Fund	Dollar General Corporation			Equity	119,432	10,100,364	0.186%
JNLUT Rowe Price Mid-Cap Growth Fund	Versis Analytics, Inc.			Equity	118,300	31,699,668	0.584%
JNLUT Rowe Price Mid-Cap Growth Fund	Cytokinetics, Incorporated			Equity	356,300	18,812,640	0.346%
JNLUT Rowe Price Mid-Cap Growth Fund	Trade Desk, Inc., The			Equity	1,218,400	133,597,560	2.459%
JNLUT Rowe Price Mid-Cap Growth Fund	KR & Co. Inc.			Equity	87,000	11,360,460	0.209%
JNLUT Rowe Price Mid-Cap Growth Fund	Ionis Pharmaceuticals, Inc.			Equity	922,532	36,956,632	0.680%
JNLUT Rowe Price Mid-Cap Growth Fund	PTC Inc.			Equity	486,834	87,951,430	1.619%
JNLUT Rowe Price Mid-Cap Growth Fund	Five Below, Inc.			Equity	294,900	26,054,415	0.480%
JNLUT Rowe Price Mid-Cap Growth Fund	CRISPR Therapeutics AG			Equity	187,361	15,892,020	0.291%
JNLUT Rowe Price Mid-Cap Growth Fund	Sarepta Therapeutics, Inc.			Equity	159,644	19,937,939	0.367%
JNLUT Rowe Price Mid-Cap Growth Fund	TechnipFMC PLC			Equity	2,149,473	56,380,677	1.038%
JNLUT Rowe Price Mid-Cap Growth Fund	Burlington Stores, Inc.			Equity	193,343	50,842,014	0.938%
JNLUT Rowe Price Mid-Cap Growth Fund	argenx SE			Equity	43,500	23,580,480	0.434%
JNLUT Rowe Price Mid-Cap Growth Fund	Paylocity Holding Corporation			Equity	307,677	50,757,475	0.934%
JNLUT Rowe Price Mid-Cap Growth Fund	Veeva Systems Inc.			Equity	421,500	88,460,205	1.629%
JNLUT Rowe Price Mid-Cap Growth Fund	Intercontinental Exchange, Inc.			Equity	311,400	50,023,296	0.921%
JNLUT Rowe Price Mid-Cap Growth Fund	ITT Inc.			Equity	44,500	6,653,195	0.122%
JNLUT Rowe Price Mid-Cap Growth Fund	Spotify Technology S.A.			Equity	108,800	40,096,064	0.738%
JNLUT Rowe Price Mid-Cap Growth Fund	Weatherford International Public Limited Company			Equity	231,800	19,684,456	0.362%
JNLUT Rowe Price Mid-Cap Growth Fund	Waste Connections, Inc.			Equity	124,000	22,173,680	0.408%
JNLUT Rowe Price Mid-Cap Growth Fund	Pennumbra, Inc.			Equity	5,629	1,093,771	0.020%
JNLUT Rowe Price Mid-Cap Growth Fund	Planet Fitness, Inc.			Equity	343,900	27,931,558	0.514%
JNLUT Rowe Price Mid-Cap Growth Fund	Apellis Pharmaceuticals, Inc.			Equity	208,246	6,005,815	0.111%
JNLUT Rowe Price Mid-Cap Growth Fund	Pure Storage, Inc.			Equity	539,800	27,119,552	0.499%
JNLUT Rowe Price Mid-Cap Growth Fund	TransUnion			Equity	312,199	32,887,236	0.602%
JNLUT Rowe Price Mid-Cap Growth Fund	Keysight Technologies, Inc.			Equity	344,800	54,799,064	1.009%
JNLUT Rowe Price Mid-Cap Growth Fund	Hilton Worldwide Holdings Inc.			Equity	322,400	74,313,200	1.368%
JNLUT Rowe Price Mid-Cap Growth Fund	Fortive Corporation			Equity	812,548	64,134,414	1.181%
JNLUT Rowe Price Mid-Cap Growth Fund	BWXT Government Group, Inc.			Equity	304,100	33,055,670	0.609%
JNLUT Rowe Price Mid-Cap Growth Fund	T Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	210,574,280	211,431,648	3.892%
JNLUT Rowe Price Mid-Cap Growth Fund	Ascendis Pharma A/S			Equity	128,072	19,122,430	0.352%
JNLUT Rowe Price Mid-Cap Growth Fund	Tradeweb Markets Inc.			Equity	222,000	27,454,740	0.505%
JNLUT Rowe Price Mid-Cap Growth Fund	Alcon AG			Equity	542,000	54,237,940	0.989%
JNLUT Rowe Price Mid-Cap Growth Fund	Roku Inc.			Equity	174,800	13,050,568	0.240%
JNLUT Rowe Price Mid-Cap Growth Fund	Zoom Video Communications, Inc.			Equity	434,000	30,267,160	0.557%
JNLUT Rowe Price Mid-Cap Growth Fund	Avantor, Inc.			Equity	3,452,700	89,321,349	1.644%
JNLUT Rowe Price Mid-Cap Growth Fund	CrowdStrike Holdings, Inc.			Equity	35,000	9,816,450	0.181%
JNLUT Rowe Price Mid-Cap Growth Fund	Reynolds Consumer Products Inc.			Equity	698,700	21,729,570	0.400%
JNLUT Rowe Price Mid-Cap Growth Fund	Ingersoll Rand Inc.			Equity	865,400	84,947,664	1.564%
JNLUT Rowe Price Mid-Cap Growth Fund	Howmet Aerospace Inc.			Equity	107,000	10,726,750	0.197%
JNLUT Rowe Price Mid-Cap Growth Fund	Match Group, Inc.			Equity	867,448	32,824,232	0.604%
JNLUT Rowe Price Mid-Cap Growth Fund	Liberty Media Corporation			Equity	682,095	53,888,993	0.987%
JNLUT Rowe Price Mid-Cap Growth Fund	Maplebear Inc.			Equity	349,500	14,238,630	0.262%
JNLUT Rowe Price Mid-Cap Growth Fund	Verato Corporation			Equity	268,300	30,036,185	0.553%
JNLUT Rowe Price Mid-Cap Growth Fund	Birkenstock Holding PLC			Equity	331,905	16,359,597	0.301%
JNLUT Rowe Price Mid-Cap Growth Fund	The Copper Companies, Inc.			Equity	4,537,900	84,537,866	1.588%
JNLUT Rowe Price Mid-Cap Growth Fund	Reddit, Inc.			Equity	265,900	17,534,061	0.323%
JNLUT Rowe Price Mid-Cap Growth Fund	Corpay Inc.			Equity	156,600	48,978,216	0.902%
JNLUT Rowe Price Mid-Cap Growth Fund	UL Solutions Inc.			Equity	154,675	7,625,478	0.140%
JNLUT Rowe Price Mid-Cap Growth Fund	Viking Holdings Ltd			Equity	709,058	24,719,034	0.455%
JNLUT Rowe Price Mid-Cap Growth Fund	OneStream, Inc.			Equity	196,043	6,645,858	0.122%
JNLUT Rowe Price Mid-Cap Growth Fund	Ferguson Enterprises Inc.			Equity	142,500	28,408,800	0.523%
Total Non Derivatives						5,431,954,407	
Derivatives						0	
Total Derivatives						0	
Total All Investments						5,431,954,407	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLUT Rowe Price Short-Term Bond Fund	Cash			Cash Equivalent	490.211	490.211	0.041%
JNLUT Rowe Price Short-Term Bond Fund	SMB Private Education Loan Trust 2019-B	9/15/2054	1.60	Fixed Income	2,464.170	2,306.690	0.197%
JNLUT Rowe Price Short-Term Bond Fund	CarMax Auto Owner Trust 2020-4	4/15/2027	1.75	Fixed Income	1,335.000	1,326.143	0.114%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2020-5	5/25/2065	1.73	Fixed Income	244.318	233.082	0.020%
JNLUT Rowe Price Short-Term Bond Fund	Russ Stores, Inc.	4/15/2026	0.88	Fixed Income	1,110.000	1,058.444	0.091%
JNLUT Rowe Price Short-Term Bond Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,530.898	4,546.466	0.389%
JNLUT Rowe Price Short-Term Bond Fund	PCWC-HKT Capital No. 2 Limited	4/2/2025	3.63	Fixed Income	4,100.000	4,153.078	0.355%
JNLUT Rowe Price Short-Term Bond Fund	Citigroup Mortgage Loan Trust	11/25/2038	2.50	Fixed Income	1,115.377	954.584	0.082%
JNLUT Rowe Price Short-Term Bond Fund	NaviNet Private Education Refi Loan Trust 2020-H	11/15/2027	1.31	Fixed Income	311.047	291.468	0.025%
JNLUT Rowe Price Short-Term Bond Fund	SG Residential Mortgage Trust 2020-2	5/25/2065	1.38	Fixed Income	788.810	677.598	0.058%
JNLUT Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2045	3.50	Fixed Income	117.867	112.053	0.010%
JNLUT Rowe Price Short-Term Bond Fund	Abbvie Inc.	11/21/2026	2.95	Fixed Income	3,640.000	3,602.051	0.308%
JNLUT Rowe Price Short-Term Bond Fund	DCP Midstream Operating, LP	7/15/2025	5.38	Fixed Income	2,187.000	2,218.017	0.190%
JNLUT Rowe Price Short-Term Bond Fund	Carmer Global Corporation	2/15/2025	2.24	Fixed Income	483.000	479.307	0.041%
JNLUT Rowe Price Short-Term Bond Fund	QNB Finance Ltd.	5/12/2025	2.63	Fixed Income	2,000.000	1,989.078	0.170%
JNLUT Rowe Price Short-Term Bond Fund	Tenaga Nasional Berhad	11/1/2025	7.50	Fixed Income	2,800.000	2,967.082	0.254%
JNLUT Rowe Price Short-Term Bond Fund	Avolon Holdings Funding Limited	2/21/2026	2.13	Fixed Income	2,335.000	2,252.061	0.193%
JNLUT Rowe Price Short-Term Bond Fund	Hardens Funding LLC	6/20/2028	5.71	Fixed Income	925.900	908.543	0.078%
JNLUT Rowe Price Short-Term Bond Fund	MFA Trust	1/25/2056	0.85	Fixed Income	307.838	294.260	0.025%
JNLUT Rowe Price Short-Term Bond Fund	Deephaven Residential Mortgage Trust 2021-1	5/25/2065	0.97	Fixed Income	189.471	178.194	0.015%
JNLUT Rowe Price Short-Term Bond Fund	Symphony CLO XXVI, Ltd.	4/20/2033	6.67	Fixed Income	1,210.165	1,227.733	0.105%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2021-1	1/25/2066	1.05	Fixed Income	430.680	387.705	0.033%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2021-1	1/25/2066	1.15	Fixed Income	256.996	231.431	0.020%
JNLUT Rowe Price Short-Term Bond Fund	Crown Castle Inc.	7/15/2026	1.05	Fixed Income	2,800.000	2,647.797	0.227%
JNLUT Rowe Price Short-Term Bond Fund	ONE 2021-PARK Mortgage Trust	3/17/2036	6.16	Fixed Income	3,445.000	3,323.182	0.284%
JNLUT Rowe Price Short-Term Bond Fund	ONE 2021-PARK Mortgage Trust	3/17/2036	6.31	Fixed Income	1,840.000	1,762.991	0.151%
JNLUT Rowe Price Short-Term Bond Fund	Neuberger Berman Loan Advisers CLO 32, Ltd.	1/20/2032	6.53	Fixed Income	1,846.543	1,873.688	0.160%
JNLUT Rowe Price Short-Term Bond Fund	Fortinet, Inc.	3/15/2026	1.00	Fixed Income	1,445.000	1,379.761	0.118%
JNLUT Rowe Price Short-Term Bond Fund	Galton Funding Mortgage Trust 2019-1	12/25/2032	4.50	Fixed Income	1,118.822	1,100.454	0.099%
JNLUT Rowe Price Short-Term Bond Fund	AmeriCredit Automobile Receivables Trust 2021-1	12/18/2026	1.60	Fixed Income	1,195.000	1,176.658	0.101%
JNLUT Rowe Price Short-Term Bond Fund	Starbucks Corporation	11/15/2025	4.00	Fixed Income	458.000	463.183	0.040%
JNLUT Rowe Price Short-Term Bond Fund	Angelt Oak Mortgage Trust 2021-1	2/25/2025	0.91	Fixed Income	1,091.912	947.185	0.081%
JNLUT Rowe Price Short-Term Bond Fund	Mattel, Inc.	4/1/2026	3.38	Fixed Income	1,410.000	1,400.306	0.120%
JNLUT Rowe Price Short-Term Bond Fund	Verizon Communications Inc.	3/20/2026	1.45	Fixed Income	2,475.000	2,376.310	0.203%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2021-R2	5/25/2064	0.91	Fixed Income	617.630	572.807	0.049%
JNLUT Rowe Price Short-Term Bond Fund	T-Mobile USA, Inc.	4/15/2026	2.63	Fixed Income	955.000	942.623	0.081%
JNLUT Rowe Price Short-Term Bond Fund	American Tower Corporation	4/15/2026	1.60	Fixed Income	2,927.000	2,827.338	0.242%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2021-2	2/25/2066	1.03	Fixed Income	356.714	322.563	0.028%
JNLUT Rowe Price Short-Term Bond Fund	Verra Finance B.V.	4/21/2026	2.96	Fixed Income	375.000	363.949	0.031%
JNLUT Rowe Price Short-Term Bond Fund	JPMorgan Chase & Co.	4/22/2027	6.17	Fixed Income	1,265.000	1,286.390	0.110%
JNLUT Rowe Price Short-Term Bond Fund	Bank of America Corporation	7/22/2027	1.73	Fixed Income	1,290.000	1,236.302	0.106%
JNLUT Rowe Price Short-Term Bond Fund	Korea Hydro & Nuclear Power Co., Ltd.	4/27/2026	1.25	Fixed Income	1,415.000	1,360.238	0.116%
JNLUT Rowe Price Short-Term Bond Fund	Cedar Funding Ltd.	7/15/2033	6.66	Fixed Income	3,070.000	3,117.262	0.270%
JNLUT Rowe Price Short-Term Bond Fund	NBN Co Limited	5/5/2026	1.45	Fixed Income	3,665.000	3,529.192	0.302%
JNLUT Rowe Price Short-Term Bond Fund	SBA Towers, LLC	5/15/2051	1.63	Fixed Income	1,240.000	1,160.743	0.099%
JNLUT Rowe Price Short-Term Bond Fund	Entbridge Inc.	1/15/2025	2.50	Fixed Income	2,260.000	2,253.910	0.193%
JNLUT Rowe Price Short-Term Bond Fund	SMB Private Education Loan Trust 2021-B	3/17/2051	1.31	Fixed Income	1,818.572	1,689.989	0.145%
JNLUT Rowe Price Short-Term Bond Fund	Starwood Mortgage Residential Trust 2021-2	5/25/2065	0.94	Fixed Income	459.645	431.089	0.037%
JNLUT Rowe Price Short-Term Bond Fund	GS Mortgage Securities Corporation Trust 2021-ROSS	6/16/2036	6.81	Fixed Income	1,720.000	1,453.442	0.124%
JNLUT Rowe Price Short-Term Bond Fund	Brighthouse Financial, Inc.	5/24/2026	1.55	Fixed Income	460.000	440.414	0.038%
JNLUT Rowe Price Short-Term Bond Fund	Manoov International, Inc.	8/15/2025	3.75	Fixed Income	495.000	492.257	0.042%
JNLUT Rowe Price Short-Term Bond Fund	T-Mobile USA, Inc.	4/15/2025	2.50	Fixed Income	1,905.000	1,921.762	0.164%
JNLUT Rowe Price Short-Term Bond Fund	Ellington Financial Mortgage Trust 2021-2	6/25/2066	1.29	Fixed Income	589.287	497.124	0.043%
JNLUT Rowe Price Short-Term Bond Fund	Madison Park Funding XXIII, Ltd	7/28/2031	6.50	Fixed Income	2,520.493	2,553.640	0.219%
JNLUT Rowe Price Short-Term Bond Fund	Madison Park Funding XXIII, Ltd	7/28/2031	7.08	Fixed Income	2,005.000	2,034.678	0.174%
JNLUT Rowe Price Short-Term Bond Fund	Deephaven Residential Mortgage Trust 2021-2	6/25/2066	1.28	Fixed Income	945.078	971.288	0.082%
JNLUT Rowe Price Short-Term Bond Fund	COLT Funding LLC	6/25/2066	1.17	Fixed Income	413.306	811.105	0.069%
JNLUT Rowe Price Short-Term Bond Fund	Dryden 86 CLO, Ltd.	7/17/2034	6.68	Fixed Income	2,660.000	2,698.276	0.231%
JNLUT Rowe Price Short-Term Bond Fund	ABP Finance B.V.	7/15/2026	2.00	Fixed Income	566.000	547.280	0.047%
JNLUT Rowe Price Short-Term Bond Fund	BCP Trust 2021-33ON	8/25/2038	1.50	Fixed Income	1,250.000	1,173.784	0.100%
JNLUT Rowe Price Short-Term Bond Fund	Government National Mortgage Association	10/20/2050	4.00	Fixed Income	697.223	679.779	0.058%
JNLUT Rowe Price Short-Term Bond Fund	Enel Finance International N.V.	7/12/2026	1.63	Fixed Income	2,250.000	2,149.497	0.184%
JNLUT Rowe Price Short-Term Bond Fund	TRK 2021-INV1 Trust	7/25/2056	1.41	Fixed Income	396.739	360.417	0.031%
JNLUT Rowe Price Short-Term Bond Fund	KNDR Trust 2021-KIND	9/25/2026	2.96	Fixed Income	2,359.840	2,302.978	0.202%
JNLUT Rowe Price Short-Term Bond Fund	Humana Inc.	2/3/2027	1.35	Fixed Income	675.000	632.385	0.054%
JNLUT Rowe Price Short-Term Bond Fund	BSREP Commercial Mortgage Trust 2021-DC	8/16/2038	7.11	Fixed Income	777.119	583.339	0.050%
JNLUT Rowe Price Short-Term Bond Fund	UBS Group AG	8/10/2027	1.49	Fixed Income	905.000	856.150	0.073%
JNLUT Rowe Price Short-Term Bond Fund	Uber Technologies, Inc.	8/15/2025	4.50	Fixed Income	2,680.000	2,679.092	0.229%
JNLUT Rowe Price Short-Term Bond Fund	Nehmet Student Loan Trust 2021-C	4/20/2062	1.32	Fixed Income	1,183.300	1,097.004	0.094%
JNLUT Rowe Price Short-Term Bond Fund	QCP CLO 2017-13 Ltd	7/15/2030	7.11	Fixed Income	3,160.000	3,210.426	0.275%
JNLUT Rowe Price Short-Term Bond Fund	Imperial Fund Mortgage Trust 2021-NOM2	9/25/2056	1.52	Fixed Income	908.044	786.398	0.067%
JNLUT Rowe Price Short-Term Bond Fund	SPR Trust 2021-TY	9/15/2038	6.36	Fixed Income	1,855.000	1,808.473	0.157%
JNLUT Rowe Price Short-Term Bond Fund	Low's Companies, Inc.	9/15/2028	1.70	Fixed Income	315.000	287.200	0.025%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2021-5	9/25/2066	1.37	Fixed Income	754.991	650.363	0.056%
JNLUT Rowe Price Short-Term Bond Fund	UWM Mortgage Trust 2021-INV2	9/25/2051	2.50	Fixed Income	558.896	501.138	0.043%
JNLUT Rowe Price Short-Term Bond Fund	LSTAR Commercial Mortgage Corp Trust 2017-5	11/21/2027	4.02	Fixed Income	1,121.000	1,329.869	0.114%
JNLUT Rowe Price Short-Term Bond Fund	Starwood Mortgage Residential Trust 2021-4	8/25/2056	1.06	Fixed Income	2,132.770	1,898.679	0.163%
JNLUT Rowe Price Short-Term Bond Fund	Banque Federative du Credit Mutuel	2/4/2025	1.00	Fixed Income	2,280.000	2,259.349	0.193%
JNLUT Rowe Price Short-Term Bond Fund	CNO Global Funding	10/7/2026	1.75	Fixed Income	2,065.000	1,969.994	0.169%
JNLUT Rowe Price Short-Term Bond Fund	Santander Consumer Auto Receivables Trust 2021-B	9/15/2029	3.09	Fixed Income	1,097.975	1,083.935	0.092%
JNLUT Rowe Price Short-Term Bond Fund	Ellington Financial Mortgage Trust 2021-3	9/25/2066	1.35	Fixed Income	574.778	484.553	0.041%
JNLUT Rowe Price Short-Term Bond Fund	Symphony Static CLO I Ltd	10/25/2029	7.00	Fixed Income	3,330.000	3,375.878	0.289%
JNLUT Rowe Price Short-Term Bond Fund	BPCE	3/15/2025	4.50	Fixed Income	2,485.000	2,481.600	0.212%
JNLUT Rowe Price Short-Term Bond Fund	AerCap Ireland Capital Designated Activity Company	10/28/2024	1.85	Fixed Income	1,011.000	1,015.181	0.087%
JNLUT Rowe Price Short-Term Bond Fund	Ocane Receivables Trust 2021-2	9/20/2026	1.79	Fixed Income	179.611	177.441	0.015%
JNLUT Rowe Price Short-Term Bond Fund	Bravo Residential Funding Trust 2021-NQM3	4/25/2060	1.70	Fixed Income	854.483	804.556	0.069%
JNLUT Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2041	7.08	Fixed Income	895.000	905.324	0.077%
JNLUT Rowe Price Short-Term Bond Fund	Standard Chartered PLC	11/23/2025	1.82	Fixed Income	885.000	866.218	0.076%
JNLUT Rowe Price Short-Term Bond Fund	Canadian Pacific Kansas City Limited	12/2/2024	2.35	Fixed Income	2,414.000	2,402.000	0.203%
JNLUT Rowe Price Short-Term Bond Fund	Symphony CLO XXXI, Ltd.	11/15/2034	6.58	Fixed Income	2,357.692	2,392.499	0.205%
JNLUT Rowe Price Short-Term Bond Fund	Canadian Pacific Kansas City Limited	12/1/2026	1.75	Fixed Income	1,065.000	1,019.327	0.087%
JNLUT Rowe Price Short-Term Bond Fund	Damier Trucks Finance North America LLC	12/13/2024	1.63	Fixed Income	1,940.000	1,935.690	0.166%
JNLUT Rowe Price Short-Term Bond Fund	New Residential Mortgage Loan Trust 2021-INC2	6/25/2066	2.50	Fixed Income	2,989.252	2,701.282	0.231%
JNLUT Rowe Price Short-Term Bond Fund	BINOM Securitization Trust 2021-INV1	6/25/2056	2.37	Fixed Income	601.316	533.147	0.046%
JNLUT Rowe Price Short-Term Bond Fund	BINOM Securitization Trust 2021-INV1	6/25/2056	2.63	Fixed Income	617.033	566.197	0.048%
JNLUT Rowe Price Short-Term Bond Fund	NexEra Energy Capital Holdings, Inc.	1/15/2027	1.68	Fixed Income	2,270.000	2,163.415	0.185%
JNLUT Rowe Price Short-Term Bond Fund	Santander Bank, N.A.	11/25/2031	1.93	Fixed Income	29.248	29.248	0.002%
JNLUT Rowe Price Short-Term Bond Fund	CNO Global Funding	1/6/2025	1.65	Fixed Income	2,505.000	2,497.296	0.214%
JNLUT Rowe Price Short-Term Bond Fund	Santander Holdings USA, Inc.	1/6/2028	2.49	Fixed Income	1,360.000	1,296.876	0.111%
JNLUT Rowe Price Short-Term Bond Fund	Oceanview Mortgage Trust 2022-INV1	8/25/2028	2.50	Fixed Income	1,529.287	1,371.985	0.117%
JNLUT Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2026	2.50	Fixed Income	2,478.596	2,487.478	0.209%
JNLUT Rowe Price Short-Term Bond Fund	Government National Mortgage Association	9/20/2047	3.00	Fixed Income	1,408.980	1,297.455	0.111%
JNLUT Rowe Price Short-Term Bond Fund	Hyundai Capital Services, Inc.	4/24/2025	2.13	Fixed Income	830.000	821.205	0.070%
JNLUT Rowe Price Short-Term Bond Fund	Madison Park Funding XXXI, Ltd.	11/10/2032	6.59	Fixed Income	4,150.000	4,212.031	0.361%
JNLUT Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2022-1	1/25/2067	3.29	Fixed Income	2,500.000	2,499.919	0.254%
JNLUT Rowe Price Short-Term Bond Fund	World Omni Auto Receivables Trust 2022-A	9/15/2038	2.35	Fixed Income	1,280.000	1,243.711	0.106%
JNLUT Rowe Price Short-Term Bond Fund	Equitable Financial Life Global Funding	11/12/2024	1.10	Fixed Income	1,695.000	1,697.170	0.145%
JNLUT Rowe Price Short-Term Bond Fund	Entbridge Inc.	2/14/2025	2.50	Fixed Income	1,060.000	1,053.724	0.090%
JNLUT Rowe Price Short-Term Bond Fund	Morgan Stanley	2/18/2026	2.63	Fixed Income	1,770.000	1,759.096	0.151%
JNLUT Rowe Price Short-Term Bond Fund	Capital One Financial Corporation	9/30/2026	2.21	Fixed Income	1,905.000	1,887.047	0.162%
JNLUT Rowe Price Short-Term Bond Fund	Charles Schwab Corporation, The	3/3/2027	2.45	Fixed Income	3,084.000	2,967.023	0.254%
JNLUT Rowe Price Short-Term Bond Fund	Crown Castle Inc.	3/15/2027	2.90	Fixed Income	2,205.000	2,135.297	0.183%
JNLUT Rowe Price Short-Term Bond Fund	Mondelez International, Inc.	3/17/2027	2.63	Fixed Income	1,325.000	1,281.313	0.110%
JNLUT Rowe Price Short-Term Bond Fund	Southern California Gas Company	4/15/2027	2.95	Fixed Income	1,625.000	1,602.865	0.137%
JNLUT Rowe Price Short-Term Bond Fund	AmeriCredit Automobile Receivables Trust 2022-1	2/18/2028	3.23	Fixed Income	1,465.000	1,414.649	0.121%
JNLUT Rowe Price Short-Term Bond Fund	Carvana Auto Receivables Trust 2022-N1	2/10/2027	3.32	Fixed Income	83.076	80.868	0.007%
JNLUT Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2052	3.50	Fixed Income	320.821	300.282	0.026%
JNLUT Rowe Price Short-Term Bond Fund	B.A.T. International Finance P.L.C.	3/16/2028	4.45	Fixed Income	3,265.000	3,262.787	0.279%
JNLUT Rowe Price Short-Term Bond Fund	Banco Santander, S.A.	3/24/2025	3.50	Fixed Income	2,600.000	2,584.800	0.221%
JNLUT Rowe Price Short-Term Bond Fund	NatWest Markets PLC	3/22/2025	3.48	Fixed Income	995.000	988.157	0.085%
JNLUT Rowe Price Short-Term Bond Fund	Bank of America Corporation	4/2/2026	3.38	Fixed Income	1,860.000	1,876.627	0.161%
JNLUT Rowe Price Short-Term Bond Fund	MEGlobal Canada LLC	5/1/2025	5.00	Fixed Income	2,500.000	2,539.612	0.217%
JNLUT Rowe Price Short-Term Bond Fund	Sempra	4/1/2025	3.30	Fixed Income	1,505.000	1,517.253	0.130%
JNLUT Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.						

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLTF Rowe Price Short-Term Bond Fund	Bank of Montreal	6/7/2025	3.70	Fixed Income	2,990,000	3,006,037	0.257%
JNLTF Rowe Price Short-Term Bond Fund	Nordea Bank Abp	6/8/2025	3.60	Fixed Income	5,775,000	5,775,000	0.499%
JNLTF Rowe Price Short-Term Bond Fund	Impetal Fund Mortgage Trust 2022-NQ04	6/25/2067	4.77	Fixed Income	2,763,602	2,809,805	0.240%
JNLTF Rowe Price Short-Term Bond Fund	NextEra Energy Capital Holdings, Inc.	6/20/2025	4.45	Fixed Income	2,520,000	2,548,880	0.218%
JNLTF Rowe Price Short-Term Bond Fund	JPMorgan Chase Bank, National Association	1/25/2025	0.89	Fixed Income	52,485	52,269	0.004%
JNLTF Rowe Price Short-Term Bond Fund	Caterpillar US Holdings LLC	3/15/2025	6.05	Fixed Income	1,189,000	1,184,728	0.102%
JNLTF Rowe Price Short-Term Bond Fund	Ginnie Mae I	7/20/2053	3.50	Fixed Income	3,143,810	2,964,611	0.254%
JNLTF Rowe Price Short-Term Bond Fund	Bank of New York Mellon Corporation, The	7/24/2026	4.41	Fixed Income	1,810,000	1,821,934	0.156%
JNLTF Rowe Price Short-Term Bond Fund	U.S. Bancorp	7/22/2028	4.55	Fixed Income	1,815,000	1,844,927	0.158%
JNLTF Rowe Price Short-Term Bond Fund	NTT Finance Corporation	7/25/2025	4.24	Fixed Income	755,000	759,488	0.065%
JNLTF Rowe Price Short-Term Bond Fund	Korea Hydro & Nuclear Power Co., Ltd	10/27/2027	4.25	Fixed Income	1,129,000	1,129,086	0.097%
JNLTF Rowe Price Short-Term Bond Fund	Capital One Financial Corporation	7/24/2026	4.99	Fixed Income	1,650,000	1,666,249	0.143%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	7/25/2042	7.93	Fixed Income	701,895	720,513	0.062%
JNLTF Rowe Price Short-Term Bond Fund	Digital General Corporation	4/15/2027	3.88	Fixed Income	547,000	549,762	0.047%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.00	Fixed Income	2,044,163	1,971,771	0.169%
JNLTF Rowe Price Short-Term Bond Fund	KT Corporation	8/8/2025	4.00	Fixed Income	3,095,000	3,096,310	0.265%
JNLTF Rowe Price Short-Term Bond Fund	Barclays PLC	8/9/2026	5.30	Fixed Income	1,485,000	1,501,905	0.129%
JNLTF Rowe Price Short-Term Bond Fund	Exeter Automobile Receivables Trust 2022-4	12/15/2025	5.98	Fixed Income	1,375,000	1,392,544	0.119%
JNLTF Rowe Price Short-Term Bond Fund	OTC Energy Company	11/1/2024	4.22	Fixed Income	1,980,000	2,015,259	0.172%
JNLTF Rowe Price Short-Term Bond Fund	Wells Fargo & Company	8/15/2026	4.54	Fixed Income	2,080,000	2,088,538	0.179%
JNLTF Rowe Price Short-Term Bond Fund	GM Financial Automobile Leasing Trust 2022-3	3/20/2025	5.13	Fixed Income	5,680,000	5,679,331	0.486%
JNLTF Rowe Price Short-Term Bond Fund	Goldman Sachs Group, Inc., The	8/3/2028	4.48	Fixed Income	1,225,000	1,237,240	0.106%
JNLTF Rowe Price Short-Term Bond Fund	Finance of America HECM Buyout 2022-HB2	12/25/2024	4.00	Fixed Income	1,222,622	1,215,181	0.104%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	234,758	236,801	0.020%
JNLTF Rowe Price Short-Term Bond Fund	Mondelē International Holdings Netherlands B.V.	9/15/2025	4.25	Fixed Income	1,525,000	1,523,198	0.130%
JNLTF Rowe Price Short-Term Bond Fund	Northeastern Mutual Global Funding	9/19/2027	4.35	Fixed Income	1,655,000	1,678,545	0.144%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2025	4.50	Fixed Income	5,087,433	5,021,903	0.430%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.00	Fixed Income	767,409	739,684	0.063%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.00	Fixed Income	65,897	63,584	0.005%
JNLTF Rowe Price Short-Term Bond Fund	GM Trust 2022-R3	3/25/2062	4.50	Fixed Income	3,178,753	3,149,681	0.270%
JNLTF Rowe Price Short-Term Bond Fund	Santander Bank, N.A.	8/18/2032	5.92	Fixed Income	1,18,093	118,486	0.010%
JNLTF Rowe Price Short-Term Bond Fund	Korea Electric Power Corp	4/8/2025	3.98	Fixed Income	2,400,000	2,501,951	0.214%
JNLTF Rowe Price Short-Term Bond Fund	Enel Finance International N.V.	10/4/2025	6.80	Fixed Income	400,000	422,202	0.036%
JNLTF Rowe Price Short-Term Bond Fund	Exeter Automobile Receivables Trust 2022-5	12/15/2027	6.51	Fixed Income	4,300,000	4,346,558	0.372%
JNLTF Rowe Price Short-Term Bond Fund	Morgan Stanley	10/16/2026	6.14	Fixed Income	1,925,000	2,009,768	0.172%
JNLTF Rowe Price Short-Term Bond Fund	Ginnie Mae I	10/20/2025	7.38	Fixed Income	738,210	716,800	0.061%
JNLTF Rowe Price Short-Term Bond Fund	U.S. Bancorp	10/21/2026	5.73	Fixed Income	1,140,000	1,183,841	0.101%
JNLTF Rowe Price Short-Term Bond Fund	Fifth Third Bank, National Association	10/27/2025	5.85	Fixed Income	3,410,000	3,496,637	0.299%
JNLTF Rowe Price Short-Term Bond Fund	The PNC Financial Services Group, Inc.	10/28/2025	5.67	Fixed Income	2,580,000	2,642,848	0.226%
JNLTF Rowe Price Short-Term Bond Fund	Barclays PLC	11/2/2047	7.33	Fixed Income	1,380,000	1,458,057	0.125%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2048	4.50	Fixed Income	167,743	167,938	0.014%
JNLTF Rowe Price Short-Term Bond Fund	Humana Inc.	3/1/2028	5.75	Fixed Income	810,000	848,928	0.073%
JNLTF Rowe Price Short-Term Bond Fund	The Huntington National Bank	11/18/2025	5.70	Fixed Income	855,000	873,078	0.075%
JNLTF Rowe Price Short-Term Bond Fund	SBA TOLSON, LLC	11/5/2028	6.50	Fixed Income	1,007,000	1,007,000	0.086%
JNLTF Rowe Price Short-Term Bond Fund	Banco Santander Mexico S.A., Institucion De Banca Multiple, Grupo Financiero Santander Mexico	4/17/2025	5.38	Fixed Income	3,500,000	3,588,113	0.307%
JNLTF Rowe Price Short-Term Bond Fund	POSCO Holdings Inc.	8/4/2025	4.38	Fixed Income	900,000	902,100	0.077%
JNLTF Rowe Price Short-Term Bond Fund	Santander Bank, N.A.	12/15/2032	6.02	Fixed Income	389,417	397,347	0.034%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2047	3.50	Fixed Income	1,595,616	1,511,480	0.129%
JNLTF Rowe Price Short-Term Bond Fund	Santander Bank, N.A.	12/15/2032	6.45	Fixed Income	934,142	941,529	0.081%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2052	4.50	Fixed Income	5,087,501	5,021,871	0.430%
JNLTF Rowe Price Short-Term Bond Fund	OCF CLO 2017-13 Ltd	7/15/2030	6.52	Fixed Income	2,438,002	2,474,094	0.212%
JNLTF Rowe Price Short-Term Bond Fund	Niel Corporation	9/5/2029	4.00	Fixed Income	1,045,000	1,027,903	0.089%
JNLTF Rowe Price Short-Term Bond Fund	POSCO Holdings Inc.	7/1/2026	5.63	Fixed Income	1,315,000	1,346,491	0.115%
JNLTF Rowe Price Short-Term Bond Fund	Realty Income Corporation	1/13/2026	5.05	Fixed Income	645,000	652,709	0.056%
JNLTF Rowe Price Short-Term Bond Fund	GM Financial Consumer Automobile Receivables Trust 2023-1	9/18/2028	5.03	Fixed Income	805,000	817,118	0.070%
JNLTF Rowe Price Short-Term Bond Fund	Crown Castle Inc.	11/1/2028	5.00	Fixed Income	850,000	874,320	0.075%
JNLTF Rowe Price Short-Term Bond Fund	Daimler Trucks Finance North America LLC	11/6/2035	5.15	Fixed Income	790,000	805,767	0.069%
JNLTF Rowe Price Short-Term Bond Fund	Bank of America Corporation	1/20/2027	5.08	Fixed Income	1,650,000	1,679,866	0.144%
JNLTF Rowe Price Short-Term Bond Fund	Santander Drive Auto Receivables Trust 2023-1	5/15/2030	5.09	Fixed Income	1,370,000	1,383,540	0.118%
JNLTF Rowe Price Short-Term Bond Fund	Banque Federative du Credit Mutuel	1/26/2026	4.94	Fixed Income	1,495,000	1,518,192	0.130%
JNLTF Rowe Price Short-Term Bond Fund	The PNC Financial Services Group, Inc.	1/26/2027	4.76	Fixed Income	1,880,000	1,983,417	0.168%
JNLTF Rowe Price Short-Term Bond Fund	State Street Corporation	1/26/2026	4.86	Fixed Income	930,000	937,317	0.080%
JNLTF Rowe Price Short-Term Bond Fund	Sequoia Mortgage Trust 2018-CH2	9/25/2035	4.00	Fixed Income	211,024	201,435	0.017%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2046	3.50	Fixed Income	192,241	182,758	0.016%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	5/22/2047	5.98	Fixed Income	67,412	66,927	0.006%
JNLTF Rowe Price Short-Term Bond Fund	Government National Mortgage Association	1/20/2048	5.00	Fixed Income	122,217	125,319	0.011%
JNLTF Rowe Price Short-Term Bond Fund	Government National Mortgage Association	2/20/2048	5.00	Fixed Income	617,596	633,658	0.054%
JNLTF Rowe Price Short-Term Bond Fund	Crown Communication Inc.	7/15/2028	4.24	Fixed Income	690,000	671,759	0.057%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/5/2047	5.93	Fixed Income	1,149,211	1,097,203	0.094%
JNLTF Rowe Price Short-Term Bond Fund	Towd Point Mortgage Trust 2017-3	7/25/2057	2.75	Fixed Income	100,020	99,296	0.008%
JNLTF Rowe Price Short-Term Bond Fund	Wells Fargo & Company	7/1/2058	3.02	Fixed Income	253,279	251,075	0.021%
JNLTF Rowe Price Short-Term Bond Fund	Towd Point Mortgage Trust 2018-1	1/25/2058	3.00	Fixed Income	99,712	98,153	0.008%
JNLTF Rowe Price Short-Term Bond Fund	Galton Funding Mortgage Trust 2018-1	3/25/2033	3.50	Fixed Income	129,457	126,661	0.011%
JNLTF Rowe Price Short-Term Bond Fund	AT&T Inc.	2/15/2028	4.10	Fixed Income	780,450	780,959	0.067%
JNLTF Rowe Price Short-Term Bond Fund	Government National Mortgage Association	3/20/2048	5.50	Fixed Income	250,071	260,277	0.022%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2034	6.99	Fixed Income	41,440	42,517	0.004%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	8/1/2033	6.93	Fixed Income	7,039	7,197	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2035	6.04	Fixed Income	1,892	1,946	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2034	6.15	Fixed Income	1,330	1,375	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2033	6.99	Fixed Income	30,391	31,407	0.003%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2034	6.25	Fixed Income	4,253	4,390	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2033	7.75	Fixed Income	1,490	1,530	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	3/1/2033	6.32	Fixed Income	753	775	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2033	6.00	Fixed Income	1,878	1,942	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2035	6.05	Fixed Income	5,455	5,605	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2033	6.34	Fixed Income	56,861	58,333	0.005%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2035	7.54	Fixed Income	69,612	72,051	0.006%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2034	6.15	Fixed Income	1,251	1,292	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	2/1/2035	5.95	Fixed Income	3,366	3,475	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	5/1/2035	5.22	Fixed Income	5,417	5,567	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2034	6.06	Fixed Income	2,302	2,380	0.000%
JNLTF Rowe Price Short-Term Bond Fund	HCA Inc.	2/15/2026	5.88	Fixed Income	1,230,000	1,251,835	0.107%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.60	Fixed Income	1,068	1,104	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/2/2035	5.93	Fixed Income	2,681	2,769	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2035	5.94	Fixed Income	6,170	6,359	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2035	6.03	Fixed Income	3,191	3,282	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2034	5.92	Fixed Income	4,397	4,545	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2035	5.91	Fixed Income	2,910	3,123	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2035	5.98	Fixed Income	36,160	37,349	0.003%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2035	5.92	Fixed Income	7,205	7,420	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2035	6.49	Fixed Income	162,924	167,229	0.014%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2034	5.92	Fixed Income	7,739	7,997	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2035	7.36	Fixed Income	65,304	67,582	0.006%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	3/1/2035	6.06	Fixed Income	5,236	5,365	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2035	5.95	Fixed Income	52,704	53,547	0.005%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	3/1/2036	6.08	Fixed Income	30,946	31,845	0.003%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2034	7.25	Fixed Income	20,065	20,725	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2035	6.75	Fixed Income	19,521	19,908	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2035	6.54	Fixed Income	10,704	11,070	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	10/1/2034	6.42	Fixed Income	5,622	5,730	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2035	6.58	Fixed Income	7,523	7,769	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2034	6.37	Fixed Income	9,375	9,556	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2035	7.57	Fixed Income	41,149	42,592	0.004%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2035	6.48	Fixed Income	7,573	7,727	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	7/1/2035	6.50	Fixed Income	8,601	8,763	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2035	6.98	Fixed Income	52,681	54,070	0.005%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2035	7.14	Fixed Income	29,820	30,729	0.003%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.93	Fixed Income	5,567	5,755	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	2/1/2035	6.30	Fixed Income	20,857	21,266	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	3/1/2036	6.49	Fixed Income	29,293	30,294	0.003%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	2/1/2036	5.93	Fixed Income	29,018	29,996	0.003%
JNLTF Rowe Price Short-Term Bond Fund	T. Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	12,241,501	12,294,300	1.052%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2035	6.23	Fixed Income	20,470	21,025	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2035	7.50	Fixed Income	18,034	18,665	0.002%
JNLTF Rowe Price Short-Term Bond Fund	Pacific Gas And Electric Company	6/15/2025	3.50	Fixed Income	1,980,000	1,986,142	0.170%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2035	7.33	Fixed Income	34,417	35,616	0.003%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2034	6.87	Fixed Income	7,749	7,874	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2033	6.45	Fixed Income	3,149	3,207	0.000%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	2/1/2035	6.32	Fixed Income	9,226	9,422	0.001%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2025	5.				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT, Rowe Price Short-Term Bond Fund	CVS Health Corporation	6/1/2026	2.88	Fixed Income	855,000	842,307	0.072%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	9/15/2045	5.50	Fixed Income	553,894	573,067	0.049%
JNLUT, Rowe Price Short-Term Bond Fund	Verizon Communications Inc.	8/15/2026	2.63	Fixed Income	2,730,000	2,662,109	0.228%
JNLUT, Rowe Price Short-Term Bond Fund	Mylan II B.V.	6/15/2026	3.95	Fixed Income	2,258,000	2,262,304	0.194%
JNLUT, Rowe Price Short-Term Bond Fund	FirstEnergy Corp.	7/15/2027	3.90	Fixed Income	1,210,000	1,207,368	0.103%
JNLUT, Rowe Price Short-Term Bond Fund	Micron Technology, Inc.	2/6/2026	4.98	Fixed Income	295,000	299,225	0.026%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2025	5.50	Fixed Income	658	658	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Zoetis Inc.	9/12/2027	3.00	Fixed Income	3,089,000	2,994,295	0.256%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2025	5.00	Fixed Income	20	20	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2025	5.00	Fixed Income	544	545	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2048	4.50	Fixed Income	153,975	153,961	0.013%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2026	3.50	Fixed Income	97,505	96,774	0.008%
JNLUT, Rowe Price Short-Term Bond Fund	Galton Funding Mortgage Trust 2019-1	12/25/2032	4.00	Fixed Income	55,358	53,578	0.005%
JNLUT, Rowe Price Short-Term Bond Fund	Nehmet, Inc.	3/22/2032	5.81	Fixed Income	567,629	550,307	0.047%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	12/20/2034	5.00	Fixed Income	32,584	39,302	0.003%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/25/2027	8.94	Fixed Income	763,689	791,163	0.068%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	12/20/2035	5.00	Fixed Income	21,137	21,625	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	12/20/2036	5.00	Fixed Income	16,576	16,960	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2030	3.00	Fixed Income	157,749	154,843	0.013%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2034	6.00	Fixed Income	6,086	6,350	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2035	6.00	Fixed Income	119,215	124,775	0.011%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2035	6.00	Fixed Income	12,434	13,022	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	9/1/2035	6.00	Fixed Income	39,481	41,377	0.004%
JNLUT, Rowe Price Short-Term Bond Fund	SMB Private Education Loan Trust 2018-B	3/15/2028	5.93	Fixed Income	1,139,902	1,135,926	0.097%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	5/20/2036	5.00	Fixed Income	19,761	20,225	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	7/15/2036	6.00	Fixed Income	320,101	332,707	0.028%
JNLUT, Rowe Price Short-Term Bond Fund	Citigroup Inc.	6/10/2025	4.40	Fixed Income	975,000	984,530	0.084%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2032	6.50	Fixed Income	58,589	61,087	0.005%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2032	6.50	Fixed Income	54,774	57,042	0.005%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2037	6.00	Fixed Income	75,253	79,507	0.007%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2033	5.00	Fixed Income	550,580	563,626	0.048%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2033	5.00	Fixed Income	1,036	1,036	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	3/1/2034	6.00	Fixed Income	190,706	198,789	0.017%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2034	5.50	Fixed Income	4,362	4,540	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2034	5.50	Fixed Income	14,947	15,564	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/20/2043	5.50	Fixed Income	119,674	121,714	0.011%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2034	6.00	Fixed Income	19,613	20,535	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2035	5.00	Fixed Income	63,100	64,681	0.006%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	2/20/2040	5.00	Fixed Income	31,783	32,644	0.003%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2035	5.50	Fixed Income	296,539	309,927	0.026%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2035	5.50	Fixed Income	61,433	63,989	0.005%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	9/20/2040	4.50	Fixed Income	192,451	194,549	0.017%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2036	6.00	Fixed Income	1,886	1,984	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2036	6.50	Fixed Income	3,249	3,378	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2036	5.50	Fixed Income	69,091	72,051	0.006%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2036	5.50	Fixed Income	76,472	79,372	0.007%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/15/2040	2.00	Fixed Income	121,341	120,427	0.010%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2037	6.00	Fixed Income	3,107	3,178	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2037	5.50	Fixed Income	201,711	210,683	0.018%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	3/1/2037	6.00	Fixed Income	8,918	9,377	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2037	5.50	Fixed Income	46,940	48,707	0.004%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	6/1/2037	6.00	Fixed Income	10,043	10,570	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2037	5.50	Fixed Income	104,435	108,858	0.009%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2037	5.50	Fixed Income	33,133	34,435	0.003%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2037	5.50	Fixed Income	177,140	184,857	0.016%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2038	5.50	Fixed Income	77,893	81,475	0.007%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2038	5.50	Fixed Income	70,988	74,137	0.006%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2038	5.00	Fixed Income	379,574	389,743	0.033%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.50	Fixed Income	139,578	139,697	0.012%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2048	5.50	Fixed Income	42,087	44,480	0.004%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	9/20/2043	6.00	Fixed Income	168,910	162,332	0.055%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	4/20/2043	3.50	Fixed Income	233,316	224,455	0.019%
JNLUT, Rowe Price Short-Term Bond Fund	Driven Brands Funding, LLC	4/22/2026	4.64	Fixed Income	1,100,925	1,102,218	0.094%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2038	5.50	Fixed Income	263,381	274,860	0.024%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2039	5.50	Fixed Income	20,470	20,970	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	GS Mortgage-Backed Securities Trust 2014-EB1	7/25/2044	5.82	Fixed Income	16,775	16,962	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	12/20/2048	5.50	Fixed Income	126,478	130,785	0.011%
JNLUT, Rowe Price Short-Term Bond Fund	American Airlines, Inc.	10/15/2025	3.70	Fixed Income	804,427	797,014	0.068%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2039	6.50	Fixed Income	245,139	250,218	0.021%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2039	4.50	Fixed Income	31,188	321,090	0.027%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2039	5.50	Fixed Income	31,742	33,239	0.003%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2039	5.50	Fixed Income	249,893	261,410	0.022%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	1/1/2040	4.50	Fixed Income	20,713	21,033	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2040	6.00	Fixed Income	142,341	150,131	0.013%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2040	4.50	Fixed Income	4,484	4,540	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	11,314	11,455	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.50	Fixed Income	26,949	27,286	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2040	6.00	Fixed Income	127,131	133,180	0.011%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	2/1/2041	4.50	Fixed Income	24,419	24,723	0.002%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	9/20/2045	4.00	Fixed Income	353,611	347,748	0.030%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2041	4.50	Fixed Income	3,128	3,167	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	4/1/2041	4.50	Fixed Income	10,811	10,949	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	5/1/2041	4.50	Fixed Income	6,898	6,984	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	7/1/2041	5.00	Fixed Income	98,663	101,781	0.009%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	8/1/2043	4.00	Fixed Income	316,767	311,895	0.027%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2044	4.50	Fixed Income	1,084,611	1,082,871	0.092%
JNLUT, Rowe Price Short-Term Bond Fund	BRE Grand Islander Timeshare Issuer 2019-A LLC	9/26/2033	3.28	Fixed Income	570,192	558,122	0.048%
JNLUT, Rowe Price Short-Term Bond Fund	Appalachian Power Company	6/1/2027	3.30	Fixed Income	2,528,000	2,496,033	0.214%
JNLUT, Rowe Price Short-Term Bond Fund	Micron Technology, Inc.	2/15/2027	4.19	Fixed Income	295,000	295,753	0.025%
JNLUT, Rowe Price Short-Term Bond Fund	Venus Securitization Trust 2019-INV2	6/25/2059	2.81	Fixed Income	158,843	159,218	0.013%
JNLUT, Rowe Price Short-Term Bond Fund	Venus Securitization Trust 2019-INV2	7/25/2059	3.12	Fixed Income	182,149	181,679	0.016%
JNLUT, Rowe Price Short-Term Bond Fund	OBX 2019-EXP2 Trust	6/25/2059	6.17	Fixed Income	227,623	225,132	0.019%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	2/1/2049	6.00	Fixed Income	1,292,681	1,360,445	0.116%
JNLUT, Rowe Price Short-Term Bond Fund	Sequoia Mortgage Capital, Inc.	5/25/2025	9.26	Fixed Income	9,262	9,288	0.000%
JNLUT, Rowe Price Short-Term Bond Fund	CVS Health Corporation	8/15/2026	3.00	Fixed Income	890,000	872,755	0.075%
JNLUT, Rowe Price Short-Term Bond Fund	Elara HGV Timeshare Issuer 2019-A, LLC	1/25/2034	2.61	Fixed Income	391,180	381,282	0.033%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2038	7.50	Fixed Income	126,372	134,247	0.011%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2039	7.00	Fixed Income	147,148	145,478	0.013%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2048	4.50	Fixed Income	739,505	741,982	0.064%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	11/1/2047	4.00	Fixed Income	277,540	271,788	0.023%
JNLUT, Rowe Price Short-Term Bond Fund	SBA Towers, LLC	11/15/2025	2.84	Fixed Income	3,375,000	3,362,963	0.288%
JNLUT, Rowe Price Short-Term Bond Fund	J.P. Morgan Chase Commercial Mortgage Securities Corp.	9/1/2029	7.32	Fixed Income	1,195,000	1,085,005	0.094%
JNLUT, Rowe Price Short-Term Bond Fund	PaVital Holdings, Inc.	10/1/2029	2.85	Fixed Income	2,205,000	2,106,157	0.180%
JNLUT, Rowe Price Short-Term Bond Fund	Government National Mortgage Association	9/20/2049	3.00	Fixed Income	111,609	100,472	0.009%
JNLUT, Rowe Price Short-Term Bond Fund	Starwood Mortgage Residential Trust 2019-INV1	9/25/2049	2.92	Fixed Income	456,700	444,697	0.038%
JNLUT, Rowe Price Short-Term Bond Fund	Pennsylvania Unimutated Company	12/15/2024	3.80	Fixed Income	1,697,000	1,710,000	0.146%
JNLUT, Rowe Price Short-Term Bond Fund	OBX 2019-EXP3 Trust	9/25/2059	6.87	Fixed Income	217,516	213,405	0.018%
JNLUT, Rowe Price Short-Term Bond Fund	LeasePlan Corporation N.V.	10/24/2024	2.98	Fixed Income	3,420,000	3,456,972	0.296%
JNLUT, Rowe Price Short-Term Bond Fund	Venus Securitization Trust 2019-4	10/25/2059	3.00	Fixed Income	697,553	696,111	0.060%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2049	4.00	Fixed Income	60,243	58,712	0.005%
JNLUT, Rowe Price Short-Term Bond Fund	Ellington Financial Mortgage Trust 2019-2	11/25/2059	3.05	Fixed Income	147,139	150,660	0.013%
JNLUT, Rowe Price Short-Term Bond Fund	Hasbro, Inc.	11/19/2024	3.00	Fixed Income	3,880,000	3,405,464	0.291%
JNLUT, Rowe Price Short-Term Bond Fund	Mattel, Inc.	12/15/2027	5.88	Fixed Income	1,530,000	1,573,731	0.135%
JNLUT, Rowe Price Short-Term Bond Fund	Galton Funding Mortgage Trust 2019-H1	10/25/2059	3.34	Fixed Income	805,000	762,224	0.065%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2049	4.00	Fixed Income	147,747	143,669	0.012%
JNLUT, Rowe Price Short-Term Bond Fund	Venus Securitization Trust 2019-INV3	11/25/2059	3.10	Fixed Income	325,997	322,465	0.028%
JNLUT, Rowe Price Short-Term Bond Fund	Navient Private Education Refi Loan Trust 2019-G	2/15/2029	2.40	Fixed Income	903,070	864,439	0.074%
JNLUT, Rowe Price Short-Term Bond Fund	Steel Dynamics, Inc.	12/15/2024	2.80	Fixed Income	2,121,000	2,123,932	0.182%
JNLUT, Rowe Price Short-Term Bond Fund	General Motors Financial Company, Inc.	2/26/2025	2.90	Fixed Income	3,645,000	3,620,594	0.310%
JNLUT, Rowe Price Short-Term Bond Fund	Banco Del Estado De Chile	1/9/2025	2.70	Fixed Income	1,180,000	1,178,974	0.101%
JNLUT, Rowe Price Short-Term Bond Fund	American Tower Corporation	3/15/2025	2.40	Fixed Income	1,175,000	1,160,818	0.099%
JNLUT, Rowe Price Short-Term Bond Fund	Energy Transfer LP	5/15/2025	2.90	Fixed Income	480,000	479,303	0.041%
JNLUT, Rowe Price Short-Term Bond Fund	Ardian Holdings Funding Limited	2/15/2025	2.98	Fixed Income	1,480,000	1,469,980	0.126%
JNLUT, Rowe Price Short-Term Bond Fund	HPHT Finance (19) Limited	11/5/2024	2.88	Fixed Income	2,957,000	2,985,380	0.256%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2049	4.00	Fixed Income	9,070	8,817	0.001%
JNLUT, Rowe Price Short-Term Bond Fund	Navient Private Education Loan Trust 2020-A	11/15/2068	2.46	Fixed Income	744,435	715,131	0.061%
JNLUT, Rowe Price Short-Term Bond Fund	COMB 2014-CORE19 Mortgage Trust	8/1/2027	4.72	Fixed Income	383,807	385,073	0.031%
JNLUT, Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2034	3.00	Fixed Income	363,040	351,071	0.030%
JNLUT, Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/1/2034	3.00				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	12/1/2040	5.00	Fixed Income	138,988	143,321	0.012%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2041	5.00	Fixed Income	277,972	286,861	0.026%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	12/1/2040	4.00	Fixed Income	451,615	440,702	0.038%
JNLTF Rowe Price Short-Term Bond Fund	COMM 2014-CCRE15 Mortgage Trust	2/12/2047	4.05	Fixed Income	1,016,947	971,711	0.083%
JNLTF Rowe Price Short-Term Bond Fund	JPMorgan Chase & Co.	4/22/2026	2.08	Fixed Income	3,200,000	3,179,605	0.272%
JNLTF Rowe Price Short-Term Bond Fund	V.F. Corporation	4/23/2027	2.80	Fixed Income	1,430,000	1,372,187	0.117%
JNLTF Rowe Price Short-Term Bond Fund	Wells Fargo & Company	4/30/2026	2.19	Fixed Income	1,455,000	1,444,630	0.124%
JNLTF Rowe Price Short-Term Bond Fund	The Western Union Company	1/10/2025	2.85	Fixed Income	4,129,000	4,126,588	0.353%
JNLTF Rowe Price Short-Term Bond Fund	Centene Corporation	12/15/2029	4.63	Fixed Income	1,180,000	1,171,031	0.100%
JNLTF Rowe Price Short-Term Bond Fund	The AES Corporation	7/15/2025	3.30	Fixed Income	1,365,000	1,352,236	0.116%
JNLTF Rowe Price Short-Term Bond Fund	LG Chem, Ltd.	10/15/2024	3.25	Fixed Income	3,400,000	3,448,194	0.295%
JNLTF Rowe Price Short-Term Bond Fund	Health Care Service Corporation, A Mutual Legal Reserve Company	6/1/2025	1.50	Fixed Income	2,935,000	2,882,673	0.247%
JNLTF Rowe Price Short-Term Bond Fund	Navient Private Education Refi Loan Trust 2020-D	5/15/2069	1.69	Fixed Income	522,075	490,638	0.042%
JNLTF Rowe Price Short-Term Bond Fund	Hilton Grand Vacations Trust 2020-A	2/25/2039	2.74	Fixed Income	442,743	429,847	0.037%
JNLTF Rowe Price Short-Term Bond Fund	HCA Inc.	9/1/2028	5.63	Fixed Income	1,840,000	1,917,564	0.164%
JNLTF Rowe Price Short-Term Bond Fund	Ford Motor Credit Company LLC	6/16/2025	5.13	Fixed Income	1,905,000	1,931,144	0.165%
JNLTF Rowe Price Short-Term Bond Fund	COLT 2020-3 Mortgage Loan Trust	4/27/2065	1.51	Fixed Income	79,994	76,803	0.007%
JNLTF Rowe Price Short-Term Bond Fund	Canadian Natural Resources Limited	7/15/2025	2.05	Fixed Income	2,710,000	2,665,755	0.228%
JNLTF Rowe Price Short-Term Bond Fund	Societe Generale	10/16/2024	2.63	Fixed Income	315,000	318,353	0.027%
JNLTF Rowe Price Short-Term Bond Fund	Flagstar Mortgage Trust 2019-1INV	1/25/2040	3.50	Fixed Income	250,847	231,171	0.020%
JNLTF Rowe Price Short-Term Bond Fund	SBA Towers, LLC	1/15/2026	1.88	Fixed Income	730,000	704,100	0.060%
JNLTF Rowe Price Short-Term Bond Fund	OBX 2020-EXP1 Trust	2/25/2027	5.72	Fixed Income	227,250	218,822	0.019%
JNLTF Rowe Price Short-Term Bond Fund	MMW 2020-1 LLC	10/20/2037	2.73	Fixed Income	525,501	505,414	0.043%
JNLTF Rowe Price Short-Term Bond Fund	OBX 2020-EXP2 Trust	7/25/2036	3.00	Fixed Income	720,156	639,410	0.055%
JNLTF Rowe Price Short-Term Bond Fund	OBX 2020-EXP2 Trust	7/25/2036	3.00	Fixed Income	176,621	156,009	0.013%
JNLTF Rowe Price Short-Term Bond Fund	JP Morgan Mortgage Trust	3/25/2042	3.00	Fixed Income	384,063	341,311	0.029%
JNLTF Rowe Price Short-Term Bond Fund	Frost Point Securitization Trust 2020-2	4/25/2065	2.47	Fixed Income	159,237	152,908	0.013%
JNLTF Rowe Price Short-Term Bond Fund	CSMC 2020-NET	8/15/2025	2.26	Fixed Income	492,700	475,514	0.041%
JNLTF Rowe Price Short-Term Bond Fund	FirstKey Homes 2020-SFR1 Trust	9/1/2025	2.24	Fixed Income	4,965,000	4,836,452	0.414%
JNLTF Rowe Price Short-Term Bond Fund	MMW 2020-1 LLC	10/20/2037	1.41	Fixed Income	295,723	283,419	0.024%
JNLTF Rowe Price Short-Term Bond Fund	Stena Timeshare 2020-2 Receivables Funding LLC	7/20/2037	3.54	Fixed Income	164,066	162,607	0.014%
JNLTF Rowe Price Short-Term Bond Fund	SMB Private Education Loan Trust 2020-B	7/15/2023	2.59	Fixed Income	372,255	358,031	0.030%
JNLTF Rowe Price Short-Term Bond Fund	Morgan Stanley Capital I Trust 2014-150E	9/13/2032	3.91	Fixed Income	2,710,000	2,357,612	0.202%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	568,783	474,314	0.041%
JNLTF Rowe Price Short-Term Bond Fund	HSBC Holdings PLC	4/18/2026	1.65	Fixed Income	3,265,000	3,228,011	0.276%
JNLTF Rowe Price Short-Term Bond Fund	Occidental Petroleum Corporation	9/1/2025	5.88	Fixed Income	1,635,000	1,652,175	0.141%
JNLTF Rowe Price Short-Term Bond Fund	CVS Health Corporation	8/21/2027	1.30	Fixed Income	3,190,000	2,935,498	0.251%
JNLTF Rowe Price Short-Term Bond Fund	Navient Private Education Refi Loan Trust 2020-G	9/15/2069	1.17	Fixed Income	347,558	322,638	0.028%
JNLTF Rowe Price Short-Term Bond Fund	Citi Worldwide Corporation	4/15/2025	2.06	Fixed Income	1,660,000	1,653,704	0.142%
JNLTF Rowe Price Short-Term Bond Fund	CM Trust 2020-RV1	9/25/2041	2.59	Fixed Income	1,148,599	979,544	0.084%
JNLTF Rowe Price Short-Term Bond Fund	Gray Oak Pipeline, LLC	10/15/2025	2.60	Fixed Income	940,000	927,387	0.079%
JNLTF Rowe Price Short-Term Bond Fund	OBX 2020-EXP3 Trust	6/25/2060	3.00	Fixed Income	765,180	681,216	0.058%
JNLTF Rowe Price Short-Term Bond Fund	B.A.T. International Finance P.L.C.	3/25/2026	1.67	Fixed Income	1,775,000	1,706,680	0.148%
JNLTF Rowe Price Short-Term Bond Fund	MMW 2019-2 LLC	10/20/2038	2.44	Fixed Income	189,263	184,263	0.016%
JNLTF Rowe Price Short-Term Bond Fund	PeaceHealth	11/15/2025	1.38	Fixed Income	470,000	455,097	0.039%
JNLTF Rowe Price Short-Term Bond Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-609M	10/17/2033	7.47	Fixed Income	2,420,000	2,270,808	0.194%
JNLTF Rowe Price Short-Term Bond Fund	J.P. Morgan Chase Commercial Mortgage Securities Trust 2020-609M	10/17/2033	7.87	Fixed Income	1,955,000	1,759,478	0.151%
JNLTF Rowe Price Short-Term Bond Fund	Ford Credit Auto Owner Trust 2020-REV2	10/15/2025	1.74	Fixed Income	1,495,000	1,355,733	0.116%
JNLTF Rowe Price Short-Term Bond Fund	LYB International Finance II, LLC	10/1/2025	1.25	Fixed Income	1,417,000	1,377,749	0.118%
JNLTF Rowe Price Short-Term Bond Fund	World Omni Select Auto Trust 2021-A	4/15/2025	1.44	Fixed Income	815,000	787,953	0.067%
JNLTF Rowe Price Short-Term Bond Fund	Becton, Dickinson and Company	2/13/2028	4.69	Fixed Income	3,035,000	3,092,573	0.265%
JNLTF Rowe Price Short-Term Bond Fund	Intel Corporation	2/10/2028	4.98	Fixed Income	1,244,000	1,259,887	0.108%
JNLTF Rowe Price Short-Term Bond Fund	Octane Receivables Trust 2023-1	5/21/2029	5.87	Fixed Income	251,722	253,355	0.022%
JNLTF Rowe Price Short-Term Bond Fund	GM Financial Automobile Leasing Trust 2023-1	11/20/2025	5.76	Fixed Income	4,420,000	4,462,325	0.382%
JNLTF Rowe Price Short-Term Bond Fund	CVS Health Corporation	2/20/2026	5.00	Fixed Income	2,095,000	2,121,317	0.182%
JNLTF Rowe Price Short-Term Bond Fund	Korea Housing Finance Corporation	2/24/2028	4.63	Fixed Income	2,500,000	2,544,732	0.218%
JNLTF Rowe Price Short-Term Bond Fund	Exter Automotive Receivables Trust 2023-1	3/1/2028	5.60	Fixed Income	189,000	184,263	0.016%
JNLTF Rowe Price Short-Term Bond Fund	Constellation Energy Generation, LLC	3/1/2028	5.60	Fixed Income	1,185,000	1,241,791	0.106%
JNLTF Rowe Price Short-Term Bond Fund	NextEra Energy Capital Holdings, Inc.	3/1/2025	6.05	Fixed Income	965,000	973,985	0.083%
JNLTF Rowe Price Short-Term Bond Fund	Williams Companies, Inc., The	3/2/2026	5.40	Fixed Income	3,205,000	3,260,393	0.279%
JNLTF Rowe Price Short-Term Bond Fund	SAP Global Inc.	3/1/2027	2.48	Fixed Income	1,507,000	1,507,413	0.130%
JNLTF Rowe Price Short-Term Bond Fund	Advance Auto Parts, Inc.	3/9/2026	5.90	Fixed Income	1,485,000	1,506,569	0.129%
JNLTF Rowe Price Short-Term Bond Fund	TransCanada Pipelines Limited	3/9/2026	6.20	Fixed Income	3,415,000	3,429,739	0.294%
JNLTF Rowe Price Short-Term Bond Fund	AmeriCredit Automobile Receivables Trust 2023-1	12/18/2028	5.80	Fixed Income	1,195,000	1,236,661	0.106%
JNLTF Rowe Price Short-Term Bond Fund	AcSource Inc.	3/20/2029	5.80	Fixed Income	515,000	529,994	0.045%
JNLTF Rowe Price Short-Term Bond Fund	Nutrien Ltd.	3/27/2028	4.90	Fixed Income	980,000	999,795	0.086%
JNLTF Rowe Price Short-Term Bond Fund	Mercedes-Benz Finance North America LLC	3/30/2026	4.80	Fixed Income	1,370,000	1,381,980	0.118%
JNLTF Rowe Price Short-Term Bond Fund	Pioneer Natural Resources Company	3/29/2026	5.10	Fixed Income	1,634,000	1,657,629	0.142%
JNLTF Rowe Price Short-Term Bond Fund	Hyundai Capital America	3/30/2025	5.50	Fixed Income	885,000	920,778	0.078%
JNLTF Rowe Price Short-Term Bond Fund	Hyundai Capital America	3/30/2028	5.60	Fixed Income	1,180,000	1,219,644	0.104%
JNLTF Rowe Price Short-Term Bond Fund	General Motors Financial Company, Inc.	4/6/2026	5.40	Fixed Income	995,000	1,033,581	0.088%
JNLTF Rowe Price Short-Term Bond Fund	MMW 2023-1 LLC	10/22/2040	4.93	Fixed Income	2,099,027	2,120,085	0.181%
JNLTF Rowe Price Short-Term Bond Fund	Micro Technology, Inc.	4/15/2023	5.38	Fixed Income	1,900,000	2,005,726	0.172%
JNLTF Rowe Price Short-Term Bond Fund	Take-Two Interactive Software, Inc.	3/28/2026	5.00	Fixed Income	1,910,000	1,929,561	0.165%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	6/1/2052	3.00	Fixed Income	1,290,466	1,461,939	0.099%
JNLTF Rowe Price Short-Term Bond Fund	Mars, Incorporated	4/20/2028	4.55	Fixed Income	2,555,000	2,633,524	0.225%
JNLTF Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2052	2.93	Fixed Income	1,105,241	1,110,598	0.094%
JNLTF Rowe Price Short-Term Bond Fund	Morgan Stanley Bank, National Association	4/21/2026	4.75	Fixed Income	1,555,000	1,601,595	0.137%
JNLTF Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2023-2	10/15/2029	6.55	Fixed Income	1,570,000	1,624,039	0.139%
JNLTF Rowe Price Short-Term Bond Fund	Bank of New York Mellon Corporation, The	4/26/2027	4.95	Fixed Income	1,865,000	1,924,211	0.165%
JNLTF Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2023-2	11/15/2029	5.97	Fixed Income	2,330,000	2,385,976	0.204%
JNLTF Rowe Price Short-Term Bond Fund	Cox Communications, Inc.	8/15/2023	3.50	Fixed Income	880,000	843,196	0.072%
JNLTF Rowe Price Short-Term Bond Fund	ERAC USA Finance LLC	5/1/2028	4.60	Fixed Income	2,440,000	2,512,400	0.215%
JNLTF Rowe Price Short-Term Bond Fund	Avolon Holdings Funding Limited	6/4/2028	6.38	Fixed Income	740,000	792,964	0.068%
JNLTF Rowe Price Short-Term Bond Fund	Ford Credit Floorplan Master Owner Trust A	5/15/2026	5.75	Fixed Income	965,000	1,008,663	0.086%
JNLTF Rowe Price Short-Term Bond Fund	Ford Credit Floorplan Master Owner Trust A	5/15/2026	6.82	Fixed Income	1,260,000	1,231,150	0.105%
JNLTF Rowe Price Short-Term Bond Fund	State Street Corporation	5/18/2026	5.10	Fixed Income	1,260,000	1,287,085	0.108%
JNLTF Rowe Price Short-Term Bond Fund	Ovintiv Canada ULC	5/15/2025	5.65	Fixed Income	1,535,000	1,578,537	0.135%
JNLTF Rowe Price Short-Term Bond Fund	Penske Truck Leasing Co., L.P.	5/24/2026	5.75	Fixed Income	3,035,000	3,152,352	0.270%
JNLTF Rowe Price Short-Term Bond Fund	Corbridge Financial, Inc.	4/4/2025	3.50	Fixed Income	1,850,000	1,983,297	0.171%
JNLTF Rowe Price Short-Term Bond Fund	Capital One Financial Corporation	6/8/2029	6.31	Fixed Income	995,000	1,066,833	0.091%
JNLTF Rowe Price Short-Term Bond Fund	The PNC Financial Services Group, Inc.	6/12/2026	5.81	Fixed Income	840,000	860,196	0.074%
JNLTF Rowe Price Short-Term Bond Fund	Sempra	8/1/2026	5.40	Fixed Income	1,090,000	1,120,536	0.096%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2036	5.50	Fixed Income	1,223,795	1,098,247	0.094%
JNLTF Rowe Price Short-Term Bond Fund	Nasdaq, Inc.	6/28/2025	5.65	Fixed Income	385,000	393,169	0.034%
JNLTF Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	2/1/2036	1.50	Fixed Income	310,680	279,293	0.024%
JNLTF Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2023-3	2/15/2029	5.47	Fixed Income	465,000	473,752	0.041%
JNLTF Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2023-3	2/15/2029	5.61	Fixed Income	1,505,000	1,536,684	0.128%
JNLTF Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2023-3	12/16/2030	6.44	Fixed Income	820,000	851,564	0.073%
JNLTF Rowe Price Short-Term Bond Fund	Rogers Communications Inc.	3/15/2027	3.20	Fixed Income	2,250,000	2,194,505	0.188%
JNLTF Rowe Price Short-Term Bond Fund	Rogers Communications Inc.	3/15/2025	2.95	Fixed Income	1,335,000	3,110,132	0.266%
JNLTF Rowe Price Short-Term Bond Fund	Columbia Pipeline Holdings Company LLC	9/15/2026	6.06	Fixed Income	290,000	299,516	0.026%
JNLTF Rowe Price Short-Term Bond Fund	NextEra Energy Capital Holdings, Inc.	9/1/2025	5.95	Fixed Income	310,000	314,677	0.027%
JNLTF Rowe Price Short-Term Bond Fund	HCA Inc.	3/15/2027	3.13	Fixed Income	2,280,000	2,217,815	0.190%
JNLTF Rowe Price Short-Term Bond Fund	ONEOK, Inc.	11/1/2026	5.55	Fixed Income	1,325,000	1,385,891	0.119%
JNLTF Rowe Price Short-Term Bond Fund	Verdant Receivables 2023-1 LLC	6/14/2027	6.24	Fixed Income	1,195,560	1,223,010	0.105%
JNLTF Rowe Price Short-Term Bond Fund	Volkswagen Group of America, Inc.	8/12/2036	5.70	Fixed Income	1,070,000	1,096,271	0.094%
JNLTF Rowe Price Short-Term Bond Fund	Volkswagen Group of America, Inc.	9/1/2025	5.80	Fixed Income	1,260,000	1,277,980	0.109%
JNLTF Rowe Price Short-Term Bond Fund	CaixaBank, S.A.	9/13/2027	6.68	Fixed Income	1,565,000	1,632,988	0.140%
JNLTF Rowe Price Short-Term Bond Fund	Mohawk Industries, Inc.	9/18/2028	5.85	Fixed Income	980,000	1,033,253	0.088%
JNLTF Rowe Price Short-Term Bond Fund	Discover Financial Services	1/16/2024	3.95	Fixed Income	680,000	690,189	0.059%
JNLTF Rowe Price Short-Term Bond Fund	Marriott International, Inc.	9/15/2026	5.45	Fixed Income	610,000	626,692	0.054%
JNLTF Rowe Price Short-Term Bond Fund	Ford Credit Auto Owner Trust 2023-B	3/15/2026	6.20	Fixed Income	475,000	486,484	0.042%
JNLTF Rowe Price Short-Term Bond Fund	Ford Credit Auto Owner Trust 2023-B	5/15/2026	6.43	Fixed Income	895,000	920,822	0.079%
JNLTF Rowe Price Short-Term Bond Fund	ArcCap Ireland Capital Designated Activity Company	11/5/2027	6.10	Fixed Income	545,000	571,180	0.048%
JNLTF Rowe Price Short-Term Bond Fund	UBS Group AG	12/22/2027	6.33	Fixed Income	2,970,000	3,139,458	0.269%
JNLTF Rowe Price Short-Term Bond Fund	HPFES Equipment Trust 2023-2	7/20/2026	6.97	Fixed Income	405,000	411,094	0.035%
JNLTF Rowe Price Short-Term Bond Fund	Danske Bank A/S	9/22/2026	6.26	Fixed Income	845,000	859,503	0.074%
JNLTF Rowe Price Short-Term Bond Fund	HPFES Equipment Trust 2023-2	3/20/2026	6.48	Fixed Income	400,000	405,600	0.033%
JNLTF Rowe Price Short-Term Bond Fund	Octane Receivables Trust 2023-3	11/20/2026	6.48	Fixed Income	435,000	447,465	0.038%
JNLTF Rowe Price Short-Term Bond Fund	Octane Receivables Trust 2023-3	5/20/2027	6.74	Fixed Income	145,000	150,626	0.013%
JNLTF Rowe Price Short-Term Bond Fund	Elara HGV Timeshare Issue 2023-A, LLC	11/25/2030	6.16	Fixed Income	437,243	452,431	0.039%
JNLTF Rowe Price Short-Term Bond Fund	Elara HGV Timeshare Issue 2023-A, LLC	11/15/2029	7.30	Fixed Income	595,593	611,553	0.052%
JNLTF Rowe Price Short-Term Bond Fund	Hilton Grand Vacations Trust 2022-1D	2/20/2034	3.61	Fixed Income	318,875	315,462	0.027%
JNLTF Rowe Price Short-Term Bond Fund	HPFES Equipment Trust 2021-2	1/20/2025	1.				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT - Rowe Price Short-Term Bond Fund	Volkswagen Group of America, Inc.	11/16/2026	6.00	Fixed Income	1,195,000	1,256,798	0.108%
JNLUT - Rowe Price Short-Term Bond Fund	Charter Communications Operating, LLC	11/10/2026	6.15	Fixed Income	795,000	828,688	0.072%
JNLUT - Rowe Price Short-Term Bond Fund	MWV 2023-2 LLC	11/20/2040	6.33	Fixed Income	283,101	293,864	0.025%
JNLUT - Rowe Price Short-Term Bond Fund	MWV 2023-2 LLC	11/20/2040	6.18	Fixed Income	420,266	437,070	0.037%
JNLUT - Rowe Price Short-Term Bond Fund	LPL Holdings, Inc.	11/17/2028	6.75	Fixed Income	600,000	658,614	0.056%
JNLUT - Rowe Price Short-Term Bond Fund	Federal Home Loan Mortgage Corporation	11/25/2043	7.13	Fixed Income	506,139	512,109	0.044%
JNLUT - Rowe Price Short-Term Bond Fund	GATX Corporation	3/30/2027	3.85	Fixed Income	508,000	520,483	0.043%
JNLUT - Rowe Price Short-Term Bond Fund	Harder's Funding LLC	12/20/2027	3.98	Fixed Income	1,977,938	1,860,019	0.159%
JNLUT - Rowe Price Short-Term Bond Fund	Verus Securitization Trust 2023-INV3	11/25/2068	7.33	Fixed Income	376,008	388,760	0.033%
JNLUT - Rowe Price Short-Term Bond Fund	O'Reilly Automotive, Inc.	11/20/2026	5.75	Fixed Income	3,362,000	3,535,770	0.303%
JNLUT - Rowe Price Short-Term Bond Fund	Equitable Financial Life Global Funding	11/12/2026	1.70	Fixed Income	1,255,000	1,197,128	0.103%
JNLUT - Rowe Price Short-Term Bond Fund	Tapestry, Inc.	11/27/2026	7.00	Fixed Income	300,000	317,751	0.027%
JNLUT - Rowe Price Short-Term Bond Fund	Tapestry, Inc.	11/27/2025	7.05	Fixed Income	250,000	261,139	0.022%
JNLUT - Rowe Price Short-Term Bond Fund	Santander Drive Auto Receivables Trust 2020-4	4/17/2028	2.85	Fixed Income	3,100,000	3,056,548	0.262%
JNLUT - Rowe Price Short-Term Bond Fund	Omco, Inc.	12/15/2024	1.75	Fixed Income	920,000	916,029	0.078%
JNLUT - Rowe Price Short-Term Bond Fund	MidOcean Credit CLO XI Ltd	10/18/2033	7.01	Fixed Income	970,000	986,473	0.084%
JNLUT - Rowe Price Short-Term Bond Fund	MidOcean Credit CLO XI Ltd	10/18/2033	7.83	Fixed Income	1,460,000	1,486,961	0.127%
JNLUT - Rowe Price Short-Term Bond Fund	Axialtor Term Funding 2023-1, LLC	12/16/2030	6.18	Fixed Income	1,918,028	1,941,145	0.168%
JNLUT - Rowe Price Short-Term Bond Fund	Crown Castle Inc.	9/1/2029	5.50	Fixed Income	930,000	988,874	0.085%
JNLUT - Rowe Price Short-Term Bond Fund	U.S. Bank National Association	8/25/2023	6.79	Fixed Income	158,186	160,718	0.014%
JNLUT - Rowe Price Short-Term Bond Fund	GATX Corporation	9/15/2026	3.25	Fixed Income	802,000	802,379	0.069%
JNLUT - Rowe Price Short-Term Bond Fund	American Electric Power Company, Inc.	1/15/2029	5.20	Fixed Income	2,110,000	2,201,720	0.188%
JNLUT - Rowe Price Short-Term Bond Fund	Santander Bank, N.A.	12/15/2033	6.66	Fixed Income	1,034,257	1,055,173	0.090%
JNLUT - Rowe Price Short-Term Bond Fund	Santander Bank, N.A.	12/15/2033	5.64	Fixed Income	286,227	291,846	0.025%
JNLUT - Rowe Price Short-Term Bond Fund	Oaktree CLO 2022-2 Ltd	7/15/2033	6.86	Fixed Income	2,935,000	2,979,817	0.255%
JNLUT - Rowe Price Short-Term Bond Fund	Ford Motor Credit Corporation LLC	3/9/2027	5.80	Fixed Income	1,485,000	1,512,174	0.129%
JNLUT - Rowe Price Short-Term Bond Fund	Lloyds Banking Group PLC	4/20/2026	5.46	Fixed Income	1,175,000	1,216,684	0.104%
JNLUT - Rowe Price Short-Term Bond Fund	Hyundai Capital America	1/8/2027	5.25	Fixed Income	620,000	636,743	0.055%
JNLUT - Rowe Price Short-Term Bond Fund	Standard Chartered PLC	2/19/2027	4.30	Fixed Income	788,000	784,763	0.067%
JNLUT - Rowe Price Short-Term Bond Fund	Mercedes-Benz Finance North America LLC	11/1/2027	4.40	Fixed Income	3,660,000	3,744,314	0.320%
JNLUT - Rowe Price Short-Term Bond Fund	Penske Truck Leasing Co., L.P.	11/2/2027	5.35	Fixed Income	695,000	623,845	0.053%
JNLUT - Rowe Price Short-Term Bond Fund	AIG Global Funding	11/2/2026	5.20	Fixed Income	608,500	608,500	0.052%
JNLUT - Rowe Price Short-Term Bond Fund	SFS Auto Receivables Securitization Trust 2024-1	5/21/2029	4.95	Fixed Income	510,000	516,600	0.044%
JNLUT - Rowe Price Short-Term Bond Fund	SFS Auto Receivables Securitization Trust 2024-1	1/20/2032	5.51	Fixed Income	170,000	175,116	0.015%
JNLUT - Rowe Price Short-Term Bond Fund	Daimler Trucks Finance North America LLC	11/15/2027	5.00	Fixed Income	630,000	645,068	0.055%
JNLUT - Rowe Price Short-Term Bond Fund	Gocycle Generale	11/9/2027	5.20	Fixed Income	245,000	247,126	0.021%
JNLUT - Rowe Price Short-Term Bond Fund	DLST 2024-1 LLC	10/21/2026	5.05	Fixed Income	435,000	438,774	0.038%
JNLUT - Rowe Price Short-Term Bond Fund	DLST 2024-1 LLC	3/22/2027	4.93	Fixed Income	120,000	121,815	0.010%
JNLUT - Rowe Price Short-Term Bond Fund	Avolon Holdings Funding Limited	3/1/2029	5.75	Fixed Income	1,215,000	1,257,823	0.108%
JNLUT - Rowe Price Short-Term Bond Fund	JP Morgan Chase & Co.	12/3/2028	5.04	Fixed Income	1,170,000	1,201,029	0.103%
JNLUT - Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2024-1	12/15/2027	4.94	Fixed Income	470,000	478,551	0.041%
JNLUT - Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2024-1	12/15/2027	5.47	Fixed Income	905,000	927,687	0.079%
JNLUT - Rowe Price Short-Term Bond Fund	Harder's Funding LLC	6/20/2028	2.87	Fixed Income	536,963	477,392	0.041%
JNLUT - Rowe Price Short-Term Bond Fund	Orion Brands Funding, LLC	10/20/2026	3.98	Fixed Income	618,125	609,863	0.052%
JNLUT - Rowe Price Short-Term Bond Fund	Amur Equipment Finance Receivables XIII LLC	7/20/2027	5.58	Fixed Income	516,820	524,168	0.045%
JNLUT - Rowe Price Short-Term Bond Fund	Amur Equipment Finance Receivables XIII LLC	1/20/2028	5.55	Fixed Income	390,000	400,579	0.034%
JNLUT - Rowe Price Short-Term Bond Fund	HPFSF Equipment Trust 2024-1	5/20/2031	5.33	Fixed Income	244,000	218,524	0.018%
JNLUT - Rowe Price Short-Term Bond Fund	MMMF Equipment Finance Trust 2021-A	11/13/2043	1.19	Fixed Income	365,000	344,684	0.029%
JNLUT - Rowe Price Short-Term Bond Fund	SBNA Auto Lease Trust 2024-A	7/20/2026	5.24	Fixed Income	440,000	446,300	0.038%
JNLUT - Rowe Price Short-Term Bond Fund	SBNA Auto Lease Trust 2024-A	3/20/2026	5.39	Fixed Income	460,000	464,606	0.040%
JNLUT - Rowe Price Short-Term Bond Fund	Avis Budget Rental Car Funding (AESOP) LLC	10/20/2026	8.55	Fixed Income	370,000	374,353	0.032%
JNLUT - Rowe Price Short-Term Bond Fund	Avis Budget Rental Car Funding (AESOP) LLC	4/20/2026	9.27	Fixed Income	525,000	530,451	0.045%
JNLUT - Rowe Price Short-Term Bond Fund	OZLM Funding II Ltd	7/30/2031	6.46	Fixed Income	1,494,003	1,510,882	0.129%
JNLUT - Rowe Price Short-Term Bond Fund	General Motors Financial Company, Inc.	5/8/2027	5.40	Fixed Income	735,000	776,255	0.066%
JNLUT - Rowe Price Short-Term Bond Fund	ERAC USA Finance LLC	2/15/2029	5.00	Fixed Income	875,000	907,369	0.078%
JNLUT - Rowe Price Short-Term Bond Fund	Citigroup Inc.	21/3/2030	5.50	Fixed Income	1,170,000	1,209,603	0.104%
JNLUT - Rowe Price Short-Term Bond Fund	First Road Equipment Finance 2024-1 LLC	8/13/2029	17.59	Fixed Income	175,000	175,000	0.015%
JNLUT - Rowe Price Short-Term Bond Fund	Rogers Communications Inc.	2/15/2029	5.00	Fixed Income	1,770,000	1,815,759	0.155%
JNLUT - Rowe Price Short-Term Bond Fund	OZLM XXI Ltd	12/21/2031	6.43	Fixed Income	2,513,902	2,544,478	0.218%
JNLUT - Rowe Price Short-Term Bond Fund	American Express Company	2/16/2028	5.40	Fixed Income	665,000	680,736	0.058%
JNLUT - Rowe Price Short-Term Bond Fund	Georgia Power Company	2/23/2027	5.45	Fixed Income	545,000	559,893	0.048%
JNLUT - Rowe Price Short-Term Bond Fund	Athene Global Funding	2/23/2026	5.68	Fixed Income	1,715,000	1,750,580	0.150%
JNLUT - Rowe Price Short-Term Bond Fund	Exelon Corporation	3/15/2029	5.15	Fixed Income	625,000	649,190	0.056%
JNLUT - Rowe Price Short-Term Bond Fund	Solventum Corporation	2/25/2027	5.45	Fixed Income	2,825,000	2,999,920	0.257%
JNLUT - Rowe Price Short-Term Bond Fund	QVIX Inc.	2/1/2029	810.00	Fixed Income	810,000	1,070,133	0.091%
JNLUT - Rowe Price Short-Term Bond Fund	Marble Point CLO XIV Ltd	1/20/2032	6.52	Fixed Income	3,540,822	3,589,680	0.307%
JNLUT - Rowe Price Short-Term Bond Fund	Apidos CLO XVIII	10/22/2030	6.43	Fixed Income	1,890,079	1,915,001	0.164%
JNLUT - Rowe Price Short-Term Bond Fund	Fiserv, Inc.	3/15/2027	5.15	Fixed Income	1,495,000	1,530,591	0.131%
JNLUT - Rowe Price Short-Term Bond Fund	Danske Bank AS	3/15/2027	5.43	Fixed Income	1,210,000	1,243,217	0.104%
JNLUT - Rowe Price Short-Term Bond Fund	GATX Corporation	3/15/2027	5.40	Fixed Income	774,000	792,863	0.068%
JNLUT - Rowe Price Short-Term Bond Fund	ALEN 2021-ACEN Mortgage Trust	4/15/2026	6.36	Fixed Income	685,000	621,907	0.053%
JNLUT - Rowe Price Short-Term Bond Fund	Marble Point CLO XI Ltd	7/16/2031	6.56	Fixed Income	816,136	827,992	0.071%
JNLUT - Rowe Price Short-Term Bond Fund	Clientel Fleet Management Corp.	11/13/2027	6.18	Fixed Income	1,090,000	1,112,312	0.096%
JNLUT - Rowe Price Short-Term Bond Fund	Octagon Investment Partners 39 Ltd	10/21/2030	6.43	Fixed Income	2,362,971	2,394,552	0.205%
JNLUT - Rowe Price Short-Term Bond Fund	Marathon Static CLO 2022-18 Ltd	7/22/2030	6.43	Fixed Income	1,748,223	1,770,405	0.152%
JNLUT - Rowe Price Short-Term Bond Fund	Madison Park Funding XL Ltd	11/21/2030	6.43	Fixed Income	2,520,727	2,554,741	0.219%
JNLUT - Rowe Price Short-Term Bond Fund	CyprusOne Data Centers Issuer I LLC	3/20/2029	4.76	Fixed Income	350,000	343,483	0.029%
JNLUT - Rowe Price Short-Term Bond Fund	Banco Santander, S.A.	3/14/2028	5.55	Fixed Income	1,000,000	1,023,207	0.088%
JNLUT - Rowe Price Short-Term Bond Fund	Apidos CLO Xiv	10/20/2031	6.43	Fixed Income	2,375,541	2,407,000	0.206%
JNLUT - Rowe Price Short-Term Bond Fund	BlueMountain CLO 2016-3 Ltd	11/15/2030	6.06	Fixed Income	2,623,169	2,645,119	0.226%
JNLUT - Rowe Price Short-Term Bond Fund	BAE Systems PLC	3/26/2027	5.00	Fixed Income	1,880,000	1,802,061	0.154%
JNLUT - Rowe Price Short-Term Bond Fund	SEB Funding LLC	4/30/2029	7.39	Fixed Income	1,845,000	1,934,452	0.166%
JNLUT - Rowe Price Short-Term Bond Fund	Madison Park Funding XXX LTD	10/18/2030	7.08	Fixed Income	3,210,000	3,260,819	0.279%
JNLUT - Rowe Price Short-Term Bond Fund	Bayview Opportunity Master Fund VII 2024-CAR1, LLC	12/26/2031	6.38	Fixed Income	645,340	647,952	0.055%
JNLUT - Rowe Price Short-Term Bond Fund	THL Credit Windt River 2015-1 CLO Ltd	10/21/2030	6.48	Fixed Income	2,728,645	2,756,922	0.237%
JNLUT - Rowe Price Short-Term Bond Fund	General Motors Financial Company, Inc.	7/15/2029	5.65	Fixed Income	985,000	998,827	0.085%
JNLUT - Rowe Price Short-Term Bond Fund	Amphenol Corporation	4/25/2027	5.05	Fixed Income	654,000	654,117	0.056%
JNLUT - Rowe Price Short-Term Bond Fund	Engie	4/10/2029	5.25	Fixed Income	585,000	618,586	0.053%
JNLUT - Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	3/1/2054	5.50	Fixed Income	1,317,190	1,344,884	0.115%
JNLUT - Rowe Price Short-Term Bond Fund	Bainings CLO Ltd 2018-IV	10/15/2030	6.84	Fixed Income	2,340,000	2,376,633	0.203%
JNLUT - Rowe Price Short-Term Bond Fund	Dell Equipment Finance Trust 2024-1	12/22/2026	6.12	Fixed Income	300,000	307,645	0.026%
JNLUT - Rowe Price Short-Term Bond Fund	Diamondback Energy, Inc.	4/18/2027	5.20	Fixed Income	805,000	839,195	0.072%
JNLUT - Rowe Price Short-Term Bond Fund	AerCap Ireland Capital Designated Activity Company	4/15/2027	6.45	Fixed Income	2,574,000	2,772,715	0.237%
JNLUT - Rowe Price Short-Term Bond Fund	Allegion CLO II Ltd	10/16/2031	7.13	Fixed Income	3,835,000	3,896,385	0.334%
JNLUT - Rowe Price Short-Term Bond Fund	Carfax Auto Owner Trust 2024-2	10/15/2030	6.42	Fixed Income	1,000,000	1,031,918	0.089%
JNLUT - Rowe Price Short-Term Bond Fund	SDR Commercial Mortgage Trust 2024-DSNY	5/18/2026	7.04	Fixed Income	1,210,000	1,203,592	0.103%
JNLUT - Rowe Price Short-Term Bond Fund	TIAA CLO I Ltd	7/21/2031	6.53	Fixed Income	2,909,088	2,949,366	0.252%
JNLUT - Rowe Price Short-Term Bond Fund	American Express Company	4/25/2030	5.53	Fixed Income	1,280,000	1,373,176	0.119%
JNLUT - Rowe Price Short-Term Bond Fund	Voya CLO 2018-3, Ltd.	10/15/2031	7.13	Fixed Income	1,435,000	1,457,660	0.125%
JNLUT - Rowe Price Short-Term Bond Fund	Boeing Company, The	5/1/2027	6.26	Fixed Income	1,415,000	1,497,669	0.128%
JNLUT - Rowe Price Short-Term Bond Fund	Icon Investments Six Designated Activity Company	5/8/2027	5.81	Fixed Income	2,170,000	2,291,895	0.196%
JNLUT - Rowe Price Short-Term Bond Fund	MED Commercial Mortgage Trust 2024-AMOB	4/15/2026	6.69	Fixed Income	1,520,000	1,518,268	0.130%
JNLUT - Rowe Price Short-Term Bond Fund	CyprusOne Data Centers Issuer I LLC	5/20/2029	4.50	Fixed Income	2,578,000	2,512,258	0.215%
JNLUT - Rowe Price Short-Term Bond Fund	BX Commercial Mortgage Trust 2024-MDHS	5/15/2029	6.99	Fixed Income	1,466,232	1,471,247	0.126%
JNLUT - Rowe Price Short-Term Bond Fund	BX Commercial Mortgage Trust 2024-MDHS	5/15/2029	7.19	Fixed Income	1,433,123	1,437,257	0.123%
JNLUT - Rowe Price Short-Term Bond Fund	Foundry JV Holdings LLC	1/25/2030	5.90	Fixed Income	505,000	534,081	0.046%
JNLUT - Rowe Price Short-Term Bond Fund	Regal Reinhold Corporation	2/15/2026	5.54	Fixed Income	1,395,000	1,427,498	0.122%
JNLUT - Rowe Price Short-Term Bond Fund	Ford Credit Floorplan Master Owner Trust A	4/15/2027	5.48	Fixed Income	840,000	863,187	0.074%
JNLUT - Rowe Price Short-Term Bond Fund	GM Financial Automobile Leasing Trust 2024-2	5/22/2028	5.56	Fixed Income	1,785,000	1,832,381	0.157%
JNLUT - Rowe Price Short-Term Bond Fund	Standard Chartered PLC	5/14/2028	5.69	Fixed Income	1,180,000	1,236,889	0.106%
JNLUT - Rowe Price Short-Term Bond Fund	HLT Commercial Mortgage Trust 2024-ORL	5/15/2026	7.10	Fixed Income	1,470,000	1,470,966	0.126%
JNLUT - Rowe Price Short-Term Bond Fund	HSBC Holdings PLC	5/17/2028	5.60	Fixed Income	1,585,000	1,664,358	0.142%
JNLUT - Rowe Price Short-Term Bond Fund	Altares Corporation	5/15/2029	5.25	Fixed Income	645,000	680,306	0.058%
JNLUT - Rowe Price Short-Term Bond Fund	LPL Holdings, Inc.	5/20/2027	5.70	Fixed Income	1,708,000	1,779,087	0.152%
JNLUT - Rowe Price Short-Term Bond Fund	Navistar Financial Dealer Note Master Owner Trust II	4/27/2026	6.13	Fixed Income	235,000	239,845	0.021%
JNLUT - Rowe Price Short-Term Bond Fund	Navistar Financial Dealer Note Master Owner Trust II	4/27/2026	5.79	Fixed Income	150,000	152,768	0.013%
JNLUT - Rowe Price Short-Term Bond Fund	Navistar Financial Dealer Note Master Owner Trust II	4/27/2026	5.59	Fixed Income	270,000	275,272	0.024%
JNLUT - Rowe Price Short-Term Bond Fund	CNH Equipment Trust 2024-A	6/15/2028	5.23	Fixed Income	655,000	679,757	0.058%
JNLUT - Rowe Price Short-Term Bond Fund	CNH Equipment Trust 2024-A	10/17/2028	5.19	Fixed Income	735,000	754,803	0.065%
JNLUT - Rowe Price Short-Term Bond Fund	Madison Park Funding XXIV Ltd	10/20/2029	7.33	Fixed Income	1,300,000	1,321,500	0.113%
JNLUT - Rowe Price Short-Term Bond Fund	SFS Auto Receivables Securitization Trust 2024-2	8/20/2030	5.26	Fixed Income	440,000	454,492	0.039%
JNLUT - Rowe Price Short-Term Bond Fund	SBNA Auto Lease Trust 2024-B	12/21/2026	5.55	Fixed Income	1,635,000	1,678,204	0.144%
JNLUT - Rowe Price Short-Term Bond Fund	Trident Receivables 2024-1 LLC	8/14/2029	5.68	Fixed Income	980,000	989,232	0.083%
JNLUT - Rowe Price Short-Term Bond Fund	Tricon Residential 2024-SFR2 Trust	6/20/2028	6.00	Fixed Income	1,530,000	1,567,616	0.134%
JNLUT - Rowe Price Short-Term Bond Fund	Tricon Residential 2024-SFR2 Trust	6/					

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLUT Rowe Price Short-Term Bond Fund	Crossroads Asset Trust 2024-A	6/21/2027	5.90	Fixed Income	615,000	625,856	0.054%
JNLUT Rowe Price Short-Term Bond Fund	HPEPS Equipment Trust 2024-2	10/20/2031	5.35	Fixed Income	250,000	254,686	0.022%
JNLUT Rowe Price Short-Term Bond Fund	CarMax Select Receivables Trust 2024-A	3/15/2028	5.62	Fixed Income	1,700,000	1,754,278	0.150%
JNLUT Rowe Price Short-Term Bond Fund	BBCMS Mortgage Trust 2024-SC27	10/17/2028	5.50	Fixed Income	383,634	383,098	0.034%
JNLUT Rowe Price Short-Term Bond Fund	Auxilior Term Funding 2024-1, LLC	7/15/2031	5.49	Fixed Income	715,000	733,702	0.063%
JNLUT Rowe Price Short-Term Bond Fund	Treasury, United States Department of	6/30/2026	4.63	Fixed Income	54,480,000	55,950,997	4.789%
JNLUT Rowe Price Short-Term Bond Fund	Benchmark 2024-V8 Mortgage Trust	4/16/2029	5.51	Fixed Income	700,511	716,239	0.061%
JNLUT Rowe Price Short-Term Bond Fund	Athene Global Funding	7/9/2027	5.35	Fixed Income	1,260,000	1,301,540	0.111%
JNLUT Rowe Price Short-Term Bond Fund	THL Credit Wind River 2018-2 Clo Ltd	7/15/2030	6.48	Fixed Income	250,000	253,637	0.022%
JNLUT Rowe Price Short-Term Bond Fund	JPMorgan Chase & Co.	7/22/2028	4.98	Fixed Income	1,175,000	1,209,750	0.104%
JNLUT Rowe Price Short-Term Bond Fund	MidOcean Credit CLO VI	4/20/2033	6.51	Fixed Income	1,300,000	1,317,212	0.113%
JNLUT Rowe Price Short-Term Bond Fund	Enterprise Fleet Financing 2024-3, LLC	3/20/2028	4.98	Fixed Income	440,000	448,782	0.038%
JNLUT Rowe Price Short-Term Bond Fund	Enterprise Fleet Financing 2024-3, LLC	4/20/2029	5.06	Fixed Income	300,000	306,357	0.026%
JNLUT Rowe Price Short-Term Bond Fund	American Express Company	7/26/2028	5.04	Fixed Income	1,045,000	1,017,486	0.082%
JNLUT Rowe Price Short-Term Bond Fund	Occidental Petroleum Corporation	8/1/2027	5.00	Fixed Income	950,000	970,338	0.083%
JNLUT Rowe Price Short-Term Bond Fund	CarMax Auto Owner Trust 2024-3	1/15/2031	5.67	Fixed Income	375,000	378,549	0.032%
JNLUT Rowe Price Short-Term Bond Fund	CarMax Auto Owner Trust 2024-3	1/15/2030	4.85	Fixed Income	290,000	294,145	0.025%
JNLUT Rowe Price Short-Term Bond Fund	Occidental Petroleum Corporation	8/1/2029	5.20	Fixed Income	680,000	697,470	0.060%
JNLUT Rowe Price Short-Term Bond Fund	Coxter Automobile Receivables Trust 2024-4	7/15/2027	5.48	Fixed Income	1,245,000	1,265,278	0.108%
JNLUT Rowe Price Short-Term Bond Fund	Cox Communications, Inc.	9/15/2026	3.35	Fixed Income	510,000	500,458	0.043%
JNLUT Rowe Price Short-Term Bond Fund	Trinitas CLO D, Ltd.	1/20/2032	6.33	Fixed Income	1,975,000	1,997,431	0.171%
JNLUT Rowe Price Short-Term Bond Fund	Applebee's Funding LLC	6/5/2026	4.72	Fixed Income	1,420,650	1,396,101	0.119%
JNLUT Rowe Price Short-Term Bond Fund	BANKS 2024-5YR8	7/17/2029	6.38	Fixed Income	1,090,000	1,152,530	0.099%
JNLUT Rowe Price Short-Term Bond Fund	DTE Energy Company	7/1/2027	4.95	Fixed Income	880,000	902,264	0.077%
JNLUT Rowe Price Short-Term Bond Fund	Fortive Corporation	6/15/2026	3.15	Fixed Income	1,298,000	1,284,826	0.110%
JNLUT Rowe Price Short-Term Bond Fund	BMO 2024-SC5 Mortgage Trust	8/17/2029	6.36	Fixed Income	1,545,000	1,630,355	0.140%
JNLUT Rowe Price Short-Term Bond Fund	Treasury, United States Department of	7/31/2026	5.48	Fixed Income	54,925,000	55,990,689	4.793%
JNLUT Rowe Price Short-Term Bond Fund	Dollar General Corporation	11/1/2027	4.63	Fixed Income	910,000	931,134	0.080%
JNLUT Rowe Price Short-Term Bond Fund	Starbucks Corporation	3/1/2028	3.50	Fixed Income	648,000	638,548	0.055%
JNLUT Rowe Price Short-Term Bond Fund	Altria Group, Inc.	9/16/2026	2.63	Fixed Income	1,251,000	1,213,171	0.104%
JNLUT Rowe Price Short-Term Bond Fund	Heinen N.V.	1/29/2028	3.50	Fixed Income	5,862,000	5,783,351	0.498%
JNLUT Rowe Price Short-Term Bond Fund	Dollar General Corporation	5/1/2029	4.13	Fixed Income	1,874,000	1,880,718	0.161%
JNLUT Rowe Price Short-Term Bond Fund	Volkswagen Group of America, Inc.	8/15/2027	4.85	Fixed Income	2,020,000	2,048,226	0.175%
JNLUT Rowe Price Short-Term Bond Fund	BMW US Capital, LLC	8/13/2027	4.60	Fixed Income	2,875,000	2,924,026	0.250%
JNLUT Rowe Price Short-Term Bond Fund	The Sherwin-Williams Company	3/1/2028	4.55	Fixed Income	1,305,000	1,330,645	0.114%
JNLUT Rowe Price Short-Term Bond Fund	Santander Drive Auto Receivables Trust 2021-4	7/15/2026	4.03	Fixed Income	3,500,000	3,418,378	0.293%
JNLUT Rowe Price Short-Term Bond Fund	Williams Companies, Inc., The	11/15/2029	4.80	Fixed Income	980,000	999,876	0.086%
JNLUT Rowe Price Short-Term Bond Fund	CDW Finance Corporation	3/1/2030	5.10	Fixed Income	475,000	485,519	0.042%
JNLUT Rowe Price Short-Term Bond Fund	Benchmark 2024-V9 Mortgage Trust	8/17/2029	6.06	Fixed Income	1,495,000	1,562,655	0.134%
JNLUT Rowe Price Short-Term Bond Fund	6297782 LLC	8/10/2027	4.91	Fixed Income	1,080,000	1,091,321	0.093%
JNLUT Rowe Price Short-Term Bond Fund	HYT Commercial Mortgage Trust 2024-RGCY	9/15/2026	7.18	Fixed Income	1,395,000	1,398,581	0.120%
JNLUT Rowe Price Short-Term Bond Fund	Treasury, United States Department of	8/15/2027	3.75	Fixed Income	8,640,000	8,721,880	0.746%
JNLUT Rowe Price Short-Term Bond Fund	AGI Global Funding	8/20/2027	4.85	Fixed Income	605,000	615,158	0.053%
JNLUT Rowe Price Short-Term Bond Fund	Intel Corporation	8/5/2027	3.75	Fixed Income	950,000	958,127	0.082%
JNLUT Rowe Price Short-Term Bond Fund	Banks 2024-5YR9	6/15/2029	4.89	Fixed Income	1,365,133	1,380,183	0.118%
JNLUT Rowe Price Short-Term Bond Fund	Kroger Co., The	8/15/2027	4.60	Fixed Income	536,000	542,746	0.046%
JNLUT Rowe Price Short-Term Bond Fund	Kroger Co., The	8/1/2027	3.70	Fixed Income	293,000	291,301	0.025%
JNLUT Rowe Price Short-Term Bond Fund	Athene Global Funding	8/27/2026	4.86	Fixed Income	1,290,000	1,304,370	0.112%
JNLUT Rowe Price Short-Term Bond Fund	Targa Resources Corp.	3/30/2024		Cash Equivalent	3,355,000	3,353,512	0.287%
JNLUT Rowe Price Short-Term Bond Fund	Treasury, United States Department of	8/31/2026	3.75	Fixed Income	55,730,000	55,987,335	4.782%
JNLUT Rowe Price Short-Term Bond Fund	FirstEnergy Transmission, LLC	1/15/2030	4.55	Fixed Income	450,000	455,096	0.039%
JNLUT Rowe Price Short-Term Bond Fund	Fifth Third Bancorp	9/6/2030	4.90	Fixed Income	465,000	472,632	0.040%
JNLUT Rowe Price Short-Term Bond Fund	Ford Motor Credit Company LLC	11/5/2026	5.13	Fixed Income	1,135,000	1,143,618	0.098%
JNLUT Rowe Price Short-Term Bond Fund	Cadence Design Systems, Inc.	9/10/2027	4.20	Fixed Income	830,000	834,611	0.071%
JNLUT Rowe Price Short-Term Bond Fund	Stryker Corporation	9/11/2029	4.25	Fixed Income	1,310,000	1,316,350	0.113%
JNLUT Rowe Price Short-Term Bond Fund	Newmont Corporation	3/15/2026	5.30	Fixed Income	740,000	751,985	0.064%
JNLUT Rowe Price Short-Term Bond Fund	ONEOK, Inc.	9/24/2027	4.25	Fixed Income	2,280,000	2,283,142	0.195%
JNLUT Rowe Price Short-Term Bond Fund	SBA Towers, LLC	10/15/2029	4.83	Fixed Income	3,270,000	3,252,179	0.278%
JNLUT Rowe Price Short-Term Bond Fund	Aptiv PLC	9/13/2029	4.65	Fixed Income	805,000	802,810	0.069%
JNLUT Rowe Price Short-Term Bond Fund	Conagra Brands, Inc.	10/15/2024		Cash Equivalent	3,355,000	3,347,722	0.287%
JNLUT Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	10/1/2053	5.00	Fixed Income	4,925,000	4,964,785	0.425%
JNLUT Rowe Price Short-Term Bond Fund	Federal National Mortgage Association, Inc.	9/1/2053	5.00	Fixed Income	6,395,018	6,446,678	0.552%
JNLUT Rowe Price Short-Term Bond Fund	Hewlett Packard Enterprise Company	9/25/2026	4.45	Fixed Income	1,895,000	1,889,984	0.162%
JNLUT Rowe Price Short-Term Bond Fund	Jabil Inc.	10/4/2024		Cash Equivalent	3,345,000	3,343,051	0.286%
JNLUT Rowe Price Short-Term Bond Fund	Amur Equipment Finance Receivables X LLC	12/20/2028	5.02	Fixed Income	770,000	768,539	0.066%
JNLUT Rowe Price Short-Term Bond Fund	Rockford Tower CLO 2019-2 Ltd	8/20/2032		Fixed Income	3,530,000	3,530,625	0.302%
JNLUT Rowe Price Short-Term Bond Fund	Crown Castle Inc.	10/24/2024		Cash Equivalent	3,350,000	3,338,259	0.286%
JNLUT Rowe Price Short-Term Bond Fund	KT Corporation	2/27/2028	4.13	Fixed Income	350,000	348,476	0.030%
JNLUT Rowe Price Short-Term Bond Fund	Danske Bank AS	10/2/2030	4.61	Fixed Income	1,115,000	1,114,382	0.095%
JNLUT Rowe Price Short-Term Bond Fund	Treasury, United States Department of	9/30/2026	3.50	Fixed Income	11,615,000	11,583,450	0.991%
JNLUT Rowe Price Short-Term Bond Fund	Brunswick Corporation	10/4/2024		Cash Equivalent	2,910,000	2,908,269	0.249%
JNLUT Rowe Price Short-Term Bond Fund	EFMT 2024-INV2	9/25/2028	5.03	Fixed Income	1,365,000	1,364,977	0.117%
JNLUT Rowe Price Short-Term Bond Fund	EFMT 2024-INV2	9/25/2028	5.29	Fixed Income	475,000	474,998	0.041%
JNLUT Rowe Price Short-Term Bond Fund	PT Bank Mandiri (Persero) Tbk.	4/4/2026	5.50	Fixed Income	1,710,000	1,728,004	0.148%
JNLUT Rowe Price Short-Term Bond Fund	V.F. Corporation	11/13/2024		Cash Equivalent	3,345,000	3,324,255	0.285%
JNLUT Rowe Price Short-Term Bond Fund	Darden Restaurants, Inc.	10/15/2027	4.35	Fixed Income	1,620,000	1,620,000	0.139%
Total Non Derivatives						1,167,568,821	
Derivatives							
JNLUT Rowe Price Short-Term Bond Fund	CDX.NA.G.43 EXCHANGE CLEARED CDS - INDEX			Derivative	-17,265,000	(4,905)	0.000%
JNLUT Rowe Price Short-Term Bond Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-335	126,754	0.011%
JNLUT Rowe Price Short-Term Bond Fund	United States 2 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	1,702	681,163	0.058%
JNLUT Rowe Price Short-Term Bond Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-131	(14,514)	-0.001%
JNLUT Rowe Price Short-Term Bond Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-189	11,544	0.001%
JNLUT Rowe Price Short-Term Bond Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-27	15,149	0.001%
Total Derivatives						915,191	
Total All Investments						1,168,583,212	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLUT Rowe Price U.S. High Yield Fund	Cash			Cash Equivalent	1,164,914	1,164,914	0.224%
JNLUT Rowe Price U.S. High Yield Fund	Ascant Resources - Ulica, LLC	12/31/2028	8.25	Fixed Income	4,950,000	5,136,769	0.986%
JNLUT Rowe Price U.S. High Yield Fund	Community Health Systems, Inc.	12/15/2027	8.00	Fixed Income	7,860,000	8,067,365	1.548%
JNLUT Rowe Price U.S. High Yield Fund	Life Time, Inc.	1/15/2026	5.75	Fixed Income	3,131,000	3,169,759	0.608%
JNLUT Rowe Price U.S. High Yield Fund	White Cap Parent, LLC	3/15/2028	8.25	Fixed Income	4,865,000	4,987,535	0.957%
JNLUT Rowe Price U.S. High Yield Fund	Comstock Resources, Inc.	3/1/2029	6.75	Fixed Income	5,112,000	5,025,983	0.964%
JNLUT Rowe Price U.S. High Yield Fund	Journey Personal Care Corp.	12/31/2024	9.62	Fixed Income	3,801,405	3,792,917	0.728%
JNLUT Rowe Price U.S. High Yield Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	5,365,000	5,419,247	1.040%
JNLUT Rowe Price U.S. High Yield Fund	Energy Transfer LP	1/1/2200	6.75	Fixed Income	650,000	664,229	0.127%
JNLUT Rowe Price U.S. High Yield Fund	CCO Holdings, LLC	5/1/2032	4.50	Fixed Income	5,930,000	5,936,382	1.145%
JNLUT Rowe Price U.S. High Yield Fund	Energy Transfer LP	1/1/2200	6.50	Fixed Income	5,190,000	5,320,172	1.021%
JNLUT Rowe Price U.S. High Yield Fund	Weatherford International Ltd	4/30/2030	8.63	Fixed Income	4,823,000	5,163,225	0.991%
JNLUT Rowe Price U.S. High Yield Fund	Carnival Corporation	5/1/2029	6.00	Fixed Income	5,280,000	5,475,144	1.051%
JNLUT Rowe Price U.S. High Yield Fund	Brookfield Properties Retail Holding LLC	4/1/2027	4.50	Fixed Income	4,852,000	4,928,583	0.946%
JNLUT Rowe Price U.S. High Yield Fund	Naked Juice LLC	1/25/2030	11.43	Fixed Income	3,400,308	2,064,591	0.396%
JNLUT Rowe Price U.S. High Yield Fund	ERO Copper Corp.	2/15/2030	6.50	Fixed Income	5,540,000	5,557,870	1.066%
JNLUT Rowe Price U.S. High Yield Fund	McAfee Corp.	2/15/2030	7.38	Fixed Income	5,251,000	5,172,893	0.993%
JNLUT Rowe Price U.S. High Yield Fund	Comerstone Building Brands, Inc.	8/1/2028	8.75	Fixed Income	5,045,000	5,202,391	0.998%
JNLUT Rowe Price U.S. High Yield Fund	Carnival Holdings (Bermuda) Limited	5/1/2028	10.38	Fixed Income	4,650,000	5,219,481	1.002%
JNLUT Rowe Price U.S. High Yield Fund	DISH Network Corporation	11/15/2027	11.75	Fixed Income	5,333,000	5,829,790	1.119%
JNLUT Rowe Price U.S. High Yield Fund	Open Text Corporation	12/1/2027	6.90	Fixed Income	5,045,000	5,427,310	1.041%
JNLUT Rowe Price U.S. High Yield Fund	Sabre GLBL, Inc.	12/15/2027	11.25	Fixed Income	7,715,000	8,271,078	1.587%
JNLUT Rowe Price U.S. High Yield Fund	NCL Corporation Ltd.	2/1/2028	8.38	Fixed Income	4,860,000	5,172,080	0.992%
JNLUT Rowe Price U.S. High Yield Fund	PRA Group, Inc.	2/1/2028	8.38	Fixed Income	5,190,000	5,457,432	1.047%
JNLUT Rowe Price U.S. High Yield Fund	Ascant Resources - Marcellus, LLC			Equity	5,214	5,475	0.001%
JNLUT Rowe Price U.S. High Yield Fund	T. Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	17,648,914	17,693,430	3.395%
JNLUT Rowe Price U.S. High Yield Fund	Sigma Holdco B.V.	5/15/2026	7.88	Fixed Income	2,734,000	2,797,232	0.537%
JNLUT Rowe Price U.S. High Yield Fund	Clarios Global LP	5/15/2027	8.50	Fixed Income	5,120,000	5,307,633	1.018%
JNLUT Rowe Price U.S. High Yield Fund	Trivium Packaging Finance B.V.	8/15/2027	8.50	Fixed Income	5,120,000	5,185,440	0.995%
JNLUT Rowe Price U.S. High Yield Fund	Osceola Holdings, Inc.	8/1/2027	10.75	Fixed Income	9,980,000	10,327,916	1.982%
JNLUT Rowe Price U.S. High Yield Fund	Telusat Canada	10/15/2027	6.50	Fixed Income	4,210,979	1,523,281	0.292%
JNLUT Rowe Price U.S. High Yield Fund	Osac Financial Services, Inc.	11/30/2027	6.50	Equity	197,951	3,881,819	0.745%
JNLUT Rowe Price U.S. High Yield Fund	Harvest Midstream L.P.	9/1/2028	7.50	Fixed Income	3,200,000	3,293,006	0.632%
JNLUT Rowe Price U.S. High Yield Fund	First Quantum Minerals Ltd	10/15/2027	6.88	Fixed Income	5,113,000	5,210,227	1.000%
JNLUT Rowe Price U.S. High Yield Fund	Vistra Corp.	1/1/2200	8.25	Fixed Income	10,034,000	10,630,789	2.075%
JNLUT Rowe Price U.S. High Yield Fund	Tenet Healthcare Corporation	2/1/2027	6.25	Fixed Income	4,795,000	4,853,199	0.931%
JNLUT Rowe Price U.S. High Yield Fund	TransDigm Inc.	8/15/2028	6.75	Fixed Income	5,050,000	5,246,054	1.007%
JNLUT Rowe Price U.S. High Yield Fund	Ritchie Bros. Holdings Inc.	3/15/2028	6.75	Fixed Income	2,925,000	3,029,520	0.581%
JNLUT Rowe Price U.S. High Yield Fund	Ritchie Bros. Holdings Inc.	1/15/2031	7.75	Fixed Income	2,565,000	2,745,812	0.529%
JNLUT Rowe Price U.S. High Yield Fund	NRG Energy, Inc.	1/1/2200	10.25	Fixed Income	3,753,000	4,248,029	0.815%
JNLUT Rowe Price U.S. High Yield Fund	Talen Energy Supply, LLC	6/1/2030	8.63	Fixed Income	5,110,000	5,718,195	1.097%
JNLUT Rowe Price U.S. High Yield Fund	VistaJet Group Holding SA	6/1/2028	9.50	Fixed Income	5,285,000	5,327,492	1.022%
JNLUT Rowe Price U.S. High Yield Fund	Heartland Dental, LLC	4/30/2028	10.50	Fixed Income	9,346,000	9,680,880	1.850%
JNLUT Rowe Price U.S. High Yield Fund	KVNA Inc.	5/15/2030	6.50	Fixed Income	5,245,000	5,603,184	1.075%
JNLUT Rowe Price U.S. High Yield Fund	Civitas Resources, Inc.	7/1/2031	8.75	Fixed Income	4,745,000	5,133,557	0.985%
JNLUT Rowe Price U.S. High Yield Fund	Adient Global Holdings Ltd	4/15/2031	8.25	Fixed Income	3,975,000	4,371,226	0.839%
JNLUT Rowe Price U.S. High Yield Fund	Coby Inc.	7/15/2030	7.00	Fixed Income	5,102,000	5,212,437	1.001%
JNLUT Rowe Price U.S. High Yield Fund	LCM Investments Holdings II, LLC	8/1/2031	8.25	Fixed Income	4,910,000	5,280,413	1.013%
JNLUT Rowe Price U.S. High Yield Fund	PBF Holding Company LLC	9/15/2030	7.88	Fixed Income	4,980,000	5,146,328	0.988%
JNLUT Rowe Price U.S. High Yield Fund	Six Flags Operations Inc.	5/15/2031	7.25	Fixed Income	7,548,000	8,018,346	1.539%
JNLUT Rowe Price U.S. High Yield Fund	Permian Resources Operating, LLC	11/15/2032	7.00	Fixed Income	5,315,000	5,605,150	1.076%
JNLUT Rowe Price U.S. High Yield Fund	NCR Atleos Escrow Corporation	4/1/2029	9.50	Fixed Income	435,000	499,561	0.096%
JNLUT Rowe Price U.S. High Yield Fund	Aetrex Escrow Issuer 2 Inc.	8/15/2030	10.00	Fixed Income	9,189,000	9,907,617	1.901%
JNLUT Rowe Price U.S. High Yield Fund	Williams Scotsman, Inc.	10/1/2031	7.38	Fixed Income	8,036,000	8,785,014	1.686%
JNLUT Rowe Price U.S. High Yield Fund	GIP II Sertson L.P.	10/5/2028	8.75	Fixed Income	4,906,296	4,801,355	0.914%
JNLUT Rowe Price U.S. High Yield Fund	Outfront Media Capital Corporation	1/15/2031	7.38	Fixed Income	4,870,000	5,534,455	1.042%
JNLUT Rowe Price U.S. High Yield Fund	EG Global Finance PLC	11/30/2028	12.00	Fixed Income	5,110,000	5,905,033	1.133%
JNLUT Rowe Price U.S. High Yield Fund	LGI Homes, Inc.	12/15/2028	8.75	Fixed Income	4,800,000	5,263,355	1.010%
JNLUT Rowe Price U.S. High Yield Fund	Kinekt Holdings LP	12/15/2028	6.63	Fixed Income	3,160,000	3,344,087	0.642%
JNLUT Rowe Price U.S. High Yield Fund	Credit Acceptance Corporation	12/15/2028	8.00	Fixed Income	5,105,000	5,602,788	1.072%
JNLUT Rowe Price U.S. High Yield Fund	PennyMac Financial Services, Inc.	12/15/2029	7.88	Fixed Income	4,928,000	5,366,364	1.030%
JNLUT Rowe Price U.S. High Yield Fund	Alliant Holdings Intermediate, LLC	1/15/2031	7.00	Fixed Income	5,195,000	5,416,768	1.039%
JNLUT Rowe Price U.S. High Yield Fund	CVR Energy, Inc.	1/15/2029	8.50	Fixed Income	5,565,000	5,691,041	1.092%
JNLUT Rowe Price U.S. High Yield Fund	Enbridge Inc.	1/15/2084	8.25	Fixed Income	8,665,000	9,122,088	1.739%
JNLUT Rowe Price U.S. High Yield Fund	OneMain Finance Corporation	3/15/2030	7.88	Fixed Income	4,785,000	5,021,341	0.964%
JNLUT Rowe Price U.S. High Yield Fund	Energy Transfer LP	5/15/2054	8.00	Fixed Income	5,983,000	6,593,849	1.265%
JNLUT Rowe Price U.S. High Yield Fund	Tallgrass Energy Partners, LP	2/15/2029	7.38	Fixed Income	1,797,000	1,833,785	0.352%
JNLUT Rowe Price U.S. High Yield Fund	NGL Energy Operating LLC	2/15/2029	8.13	Fixed Income	5,384,000	5,676,460	1.070%
JNLUT Rowe Price U.S. High Yield Fund	Magnite Inc.	1/31/2031	9.75	Fixed Income	3,809,372	3,834,212	0.736%
JNLUT Rowe Price U.S. High Yield Fund	Applied Systems, Inc.	2/7/2031	8.29	Fixed Income	5,191,988	5,193,857	0.997%
JNLUT Rowe Price U.S. High Yield Fund	AAR Escrow Issuer, LLC	3/15/2029	6.75	Fixed Income	5,085,000	5,302,378	1.017%
JNLUT Rowe Price U.S. High Yield Fund	Magnite Inc.	1/31/2031	9.75	Fixed Income	721,233	725,936	0.139%
JNLUT Rowe Price U.S. High Yield Fund	Magnite Inc.	1/31/2031	9.75	Fixed Income	721,233	725,936	0.139%
JNLUT Rowe Price U.S. High Yield Fund	FirstCash, Inc.	3/1/2032	6.88	Fixed Income	5,295,000	5,486,270	1.053%
JNLUT Rowe Price U.S. High Yield Fund	Aston Martin Capital Holdings Limited	3/31/2029	10.00	Fixed Income	5,369,000	5,581,266	1.071%
JNLUT Rowe Price U.S. High Yield Fund	Advisor Group, Inc.	8/16/2028	9.25	Fixed Income	2,743,193	2,711,884	0.520%
JNLUT Rowe Price U.S. High Yield Fund	Encore Capital Group, Inc.	4/1/2029	9.25	Fixed Income	4,555,000	5,114,474	0.981%
JNLUT Rowe Price U.S. High Yield Fund	Miter Brands Acquisition Holdco, Inc.	4/1/2032	6.75	Fixed Income	2,235,000	2,393,496	0.459%
JNLUT Rowe Price U.S. High Yield Fund	Bombardier Inc.	7/1/2031	7.25	Fixed Income	5,155,000	5,639,870	1.082%
JNLUT Rowe Price U.S. High Yield Fund	Parthier Escrow Issuer LLC	8/1/2031	7.13	Fixed Income	6,100,000	6,604,415	1.267%
JNLUT Rowe Price U.S. High Yield Fund	Level 3 Financing, Inc.	4/15/2029	10.50	Fixed Income	6,540,000	7,213,203	1.384%
JNLUT Rowe Price U.S. High Yield Fund	Cloud Software Group, Inc.	3/19/2031	9.83	Fixed Income	2,265,000	2,270,330	0.436%
JNLUT Rowe Price U.S. High Yield Fund	Herbalife International, Inc.	4/15/2029	12.25	Fixed Income	5,381,000	5,677,642	1.089%
JNLUT Rowe Price U.S. High Yield Fund	Endo Finance Holdings, Inc.	4/15/2031	8.50	Fixed Income	2,700,000	2,994,541	0.575%
JNLUT Rowe Price U.S. High Yield Fund	Sunoco LP	5/1/2029	7.00	Fixed Income	5,200,000	5,588,458	1.072%
JNLUT Rowe Price U.S. High Yield Fund	Encino Acquisition Partners Holdings, LLC	5/1/2031	8.75	Fixed Income	5,256,000	5,722,229	1.088%
JNLUT Rowe Price U.S. High Yield Fund	Endo Luxembourg Finance Company I S.a r.l.	4/2/2031	9.78	Fixed Income	2,600,000	2,645,663	0.508%
JNLUT Rowe Price U.S. High Yield Fund	Cougar JV Subsidiary, LLC	5/15/2032	8.00	Fixed Income	3,899,000	4,238,289	0.813%
JNLUT Rowe Price U.S. High Yield Fund	Cloud Software Group, Inc.	6/30/2032	8.25	Fixed Income	5,285,000	5,681,254	1.090%
JNLUT Rowe Price U.S. High Yield Fund	Howard Midstream Energy Partners, LLC	7/15/2032	7.38	Fixed Income	4,459,000	4,711,660	0.904%
JNLUT Rowe Price U.S. High Yield Fund	SM Energy Company	8/1/2032	7.00	Fixed Income	5,024,000	5,109,796	0.981%
JNLUT Rowe Price U.S. High Yield Fund	Surgery Center Holdings, Inc.	12/5/2030	8.67	Fixed Income	5,223,750	5,233,404	1.004%
JNLUT Rowe Price U.S. High Yield Fund	JetBlue Airways Corporation	9/20/2031	9.88	Fixed Income	4,865,000	5,275,772	1.012%
JNLUT Rowe Price U.S. High Yield Fund	Midcontinent Communications	8/15/2032	8.00	Fixed Income	5,161,000	5,310,773	1.019%
JNLUT Rowe Price U.S. High Yield Fund	South Bow Canadian Infrastructure Holdings Ltd.	3/1/2055	7.50	Fixed Income	5,025,000	5,317,363	1.020%
JNLUT Rowe Price U.S. High Yield Fund	Varsity Brands, Inc.	7/30/2031	8.82	Fixed Income	5,230,000	5,218,786	1.001%
JNLUT Rowe Price U.S. High Yield Fund	LSFJ Atlantis Holdings, LLC	12/31/2049		Fixed Income	1,835,000	1,848,763	0.355%
JNLUT Rowe Price U.S. High Yield Fund	Victoria Holdings LLC	9/15/2029	8.75	Fixed Income	4,570,000	4,812,929	0.924%
JNLUT Rowe Price U.S. High Yield Fund	Avis Budget Car Rental, LLC	1/15/2030	8.25	Fixed Income	5,370,000	5,516,944	1.059%
JNLUT Rowe Price U.S. High Yield Fund	Icon Parent Inc.	12/31/2049		Fixed Income	3,635,000	3,642,961	0.699%
JNLUT Rowe Price U.S. High Yield Fund	Arthon United BIR LP	10/1/2029	7.50	Fixed Income	5,320,000	5,392,819	1.035%
JNLUT Rowe Price U.S. High Yield Fund	LSFJ Atlantis Holdings, LLC	9/10/2029	10.26	Fixed Income	3,195,606	3,220,484	0.618%
JNLUT Rowe Price U.S. High Yield Fund	Venture Global LNG, Inc.	1/1/2200	9.00	Fixed Income	5,670,000	5,748,772	1.103%
Total Non Derivatives						521,134,863	
Derivatives							
Total Derivatives						0	
Total All Investments						521,134,863	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/T Rowe Price Value Fund	Cash			Cash Equivalent	2,055,637	2,055,637	0.042%
JNL/T Rowe Price Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	3,008,092	3,021,903	0.062%
JNL/T Rowe Price Value Fund	Chesapeake Energy Corporation			Equity	141,900	11,671,275	0.240%
JNL/T Rowe Price Value Fund	General Electric Company			Equity	278,716	52,638,304	1.084%
JNL/T Rowe Price Value Fund	Conbridge Financial, Inc.			Equity	621,525	18,123,669	0.373%
JNL/T Rowe Price Value Fund	Annaly Capital Management, Inc.			Equity	831,300	17,136,322	0.353%
JNL/T Rowe Price Value Fund	GE HealthCare Technologies Inc.			Equity	201,277	18,889,846	0.389%
JNL/T Rowe Price Value Fund	FedEx Corporation			Equity	103,115	28,374,128	0.584%
JNL/T Rowe Price Value Fund	Comcast Corporation			Equity	1,161,346	48,509,422	0.999%
JNL/T Rowe Price Value Fund	Ameren Corporation			Equity	577,578	58,614,972	1.040%
JNL/T Rowe Price Value Fund	Analog Devices, Inc.			Equity	140,300	32,292,851	0.665%
JNL/T Rowe Price Value Fund	Boeing Company, The			Equity	39,400	5,990,376	0.123%
JNL/T Rowe Price Value Fund	Berkshire Hathaway Inc.			Equity	389,135	179,103,275	3.688%
JNL/T Rowe Price Value Fund	Brady-Meyers Sealth Company			Equity	585,385	26,146,620	0.538%
JNL/T Rowe Price Value Fund	Advanced Micro Devices, Inc.			Equity	275,900	45,269,672	0.932%
JNL/T Rowe Price Value Fund	AutoZone, Inc.			Equity	14,285	44,998,321	0.926%
JNL/T Rowe Price Value Fund	American Express Company			Equity	242,633	65,802,070	1.355%
JNL/T Rowe Price Value Fund	Allstate Corporation, The			Equity	214,536	40,934,209	0.843%
JNL/T Rowe Price Value Fund	AMETEK, Inc.			Equity	387,527	66,542,261	1.370%
JNL/T Rowe Price Value Fund	Amphenol Corporation			Equity	376,305	24,582,124	0.506%
JNL/T Rowe Price Value Fund	Becton, Dickinson and Company			Equity	158,200	38,142,020	0.785%
JNL/T Rowe Price Value Fund	Home Depot, Inc., The			Equity	127,660	51,727,332	1.065%
JNL/T Rowe Price Value Fund	Halliburton Company			Equity	38,204	1,109,826	0.023%
JNL/T Rowe Price Value Fund	Deere & Company			Equity	112,300	47,031,240	0.968%
JNL/T Rowe Price Value Fund	Freight-McMorgan Inc.			Equity	48,000	2,446,080	0.050%
JNL/T Rowe Price Value Fund	Cummins Inc.			Equity	110,870	35,898,597	0.739%
JNL/T Rowe Price Value Fund	JPMorgan Chase & Co.			Equity	698,707	147,329,358	3.033%
JNL/T Rowe Price Value Fund	Almos Energy Corporation			Equity	221,582	30,735,639	0.633%
JNL/T Rowe Price Value Fund	General Dynamics Corporation			Equity	120,190	36,321,418	0.748%
JNL/T Rowe Price Value Fund	Dollar Tree, Inc.			Equity	312,942	22,006,081	0.452%
JNL/T Rowe Price Value Fund	Danaher Corporation			Equity	145,842	40,588,570	0.836%
JNL/T Rowe Price Value Fund	EQT Corporation			Equity	1,312,866	48,103,410	0.990%
JNL/T Rowe Price Value Fund	Fiserv, Inc.			Equity	488,693	87,793,697	1.808%
JNL/T Rowe Price Value Fund	NexEra Energy, Inc.			Equity	273,470	23,116,419	0.476%
JNL/T Rowe Price Value Fund	Exxon Mobil Corporation			Equity	670,941	80,590,124	1.655%
JNL/T Rowe Price Value Fund	CSX Corporation			Equity	1,266,195	43,721,713	0.900%
JNL/T Rowe Price Value Fund	Republic Services, Inc.			Equity	159,200	31,973,728	0.658%
JNL/T Rowe Price Value Fund	Colgate-Palmolive Company			Equity	557,968	57,122,658	1.133%
JNL/T Rowe Price Value Fund	Coca-Cola Company, The			Equity	1,111,066	80,390,517	1.652%
JNL/T Rowe Price Value Fund	Revvity, Inc.			Equity	364,856	46,610,354	0.960%
JNL/T Rowe Price Value Fund	Huntington Bancshares Incorporated			Equity	850,871	12,639,689	0.260%
JNL/T Rowe Price Value Fund	Dover Corporation			Equity	26,520	5,084,445	0.105%
JNL/T Rowe Price Value Fund	International Paper Company			Equity	1,053,011	51,639,140	1.062%
JNL/T Rowe Price Value Fund	Citigroup Inc.			Equity	371,245	23,239,937	0.478%
JNL/T Rowe Price Value Fund	Bank of America Corporation			Equity	2,439,577	96,802,415	1.993%
JNL/T Rowe Price Value Fund	Range Resources Corporation			Equity	1,683,520	51,785,075	1.066%
JNL/T Rowe Price Value Fund	Mett, Inc.			Equity	193,937	15,995,924	0.328%
JNL/T Rowe Price Value Fund	XCEL Energy Inc.			Equity	1,027,059	67,629,268	1.392%
JNL/T Rowe Price Value Fund	Travelers Companies, Inc., The			Equity	176,620	41,350,274	0.851%
JNL/T Rowe Price Value Fund	Schlumberger Limited			Equity	1,325,068	55,950,996	1.152%
JNL/T Rowe Price Value Fund	Johnson & Johnson			Equity	719,341	116,676,402	2.400%
JNL/T Rowe Price Value Fund	Lam Research Corporation			Equity	17,184	14,063,042	0.290%
JNL/T Rowe Price Value Fund	KeyCorp			Equity	1,333,800	22,341,150	0.460%
JNL/T Rowe Price Value Fund	Exelon Corporation			Equity	1,078,200	43,721,010	0.900%
JNL/T Rowe Price Value Fund	Merck & Co., Inc.			Equity	257,687	29,627,521	0.610%
JNL/T Rowe Price Value Fund	McDonald's Corporation			Equity	182,870	58,720,844	1.209%
JNL/T Rowe Price Value Fund	Qualcomm Incorporated			Equity	83,300	14,165,165	0.292%
JNL/T Rowe Price Value Fund	Parker-Hannifin Corporation			Equity	34,900	22,050,518	0.454%
JNL/T Rowe Price Value Fund	ConocoPhillips			Equity	650,979	68,535,069	1.411%
JNL/T Rowe Price Value Fund	Norfolk Southern Corporation			Equity	205,586	50,590,121	1.042%
JNL/T Rowe Price Value Fund	Rockwell Automation, Inc.			Equity	180,800	48,537,568	0.999%
JNL/T Rowe Price Value Fund	Martin Marietta Materials, Inc.			Equity	45,849	24,678,224	0.508%
JNL/T Rowe Price Value Fund	Goldman Sachs Group, Inc., The			Equity	47,841	23,686,558	0.488%
JNL/T Rowe Price Value Fund	Procter & Gamble Company, The			Equity	382,074	89,375,217	1.852%
JNL/T Rowe Price Value Fund	Charles Schwab Corporation, The			Equity	1,387,975	89,954,660	1.852%
JNL/T Rowe Price Value Fund	Old Dominion Freight Line, Inc.			Equity	189,000	37,542,960	0.773%
JNL/T Rowe Price Value Fund	Microsoft Corporation			Equity	54,459	23,433,708	0.482%
JNL/T Rowe Price Value Fund	East West Bancorp., Inc.			Equity	138,035	11,421,015	0.235%
JNL/T Rowe Price Value Fund	The Progressive Corporation			Equity	116,172	29,479,807	0.607%
JNL/T Rowe Price Value Fund	Northrop Grumman Corporation			Equity	27,502	14,522,981	0.299%
JNL/T Rowe Price Value Fund	Texas Instruments Incorporated			Equity	350,516	72,406,090	1.491%
JNL/T Rowe Price Value Fund	Tractor Supply Company			Equity	43,000	12,594,924	0.258%
JNL/T Rowe Price Value Fund	Union Pacific Corporation			Equity	210,716	51,937,280	1.069%
JNL/T Rowe Price Value Fund	Thermo Fisher Scientific Inc.			Equity	95,352	59,019,074	1.215%
JNL/T Rowe Price Value Fund	Walmart Inc.			Equity	969,791	78,310,623	1.612%
JNL/T Rowe Price Value Fund	Chevron Corporation			Equity	367,637	54,141,961	1.115%
JNL/T Rowe Price Value Fund	Westinghouse Air Brake Technologies Corporation			Equity	392,164	71,283,650	1.468%
JNL/T Rowe Price Value Fund	Cencora, Inc.			Equity	302,618	68,113,259	1.402%
JNL/T Rowe Price Value Fund	UnitedHealth Group Incorporated			Equity	188,846	110,414,479	2.273%
JNL/T Rowe Price Value Fund	The Sherwin-Williams Company			Equity	126,000	48,090,420	0.990%
JNL/T Rowe Price Value Fund	Starbucks Corporation			Equity	163,300	15,920,117	0.328%
JNL/T Rowe Price Value Fund	Williams Companies, Inc., The			Equity	534,575	24,403,349	0.502%
JNL/T Rowe Price Value Fund	CME Group Inc.			Equity	134,567	29,692,209	0.611%
JNL/T Rowe Price Value Fund	Southern Copper Corporation			Equity	118,188	13,670,806	0.281%
JNL/T Rowe Price Value Fund	Owens Corning			Equity	98,900	10,397,028	0.214%
JNL/T Rowe Price Value Fund	Franco-Nevada Corporation			Equity	222,772	27,679,421	0.570%
JNL/T Rowe Price Value Fund	HCA Healthcare, Inc.			Equity	33,601	13,656,454	0.281%
JNL/T Rowe Price Value Fund	Visa Inc.			Equity	131,320	36,106,434	0.743%
JNL/T Rowe Price Value Fund	Mosaic Company, The			Equity	771,400	20,656,092	0.425%
JNL/T Rowe Price Value Fund	Chubb Limited			Equity	86,866	25,130,334	0.517%
JNL/T Rowe Price Value Fund	Diamondback Energy, Inc.			Equity	150,200	25,894,480	0.533%
JNL/T Rowe Price Value Fund	Compagnie Financiere Richemont SA			Equity	204,481	32,290,420	0.665%
JNL/T Rowe Price Value Fund	Wheaton Precious Metals Corp.			Equity	329,074	20,038,760	0.413%
JNL/T Rowe Price Value Fund	Tenet Healthcare Corporation			Equity	311,053	51,697,009	1.064%
JNL/T Rowe Price Value Fund	T-Mobile US, Inc.			Equity	262,780	54,227,281	1.116%
JNL/T Rowe Price Value Fund	Mondelēz International, Inc.			Equity	471,239	34,937,659	0.719%
JNL/T Rowe Price Value Fund	The Cigna Group			Equity	121,617	42,132,993	0.867%
JNL/T Rowe Price Value Fund	AstraZeneca PLC			Equity	1,044,873	81,406,055	1.676%
JNL/T Rowe Price Value Fund	Booking Holdings Inc.			Equity	9,257	38,991,595	0.803%
JNL/T Rowe Price Value Fund	Elevance Health, Inc.			Equity	177,847	92,480,440	1.904%
JNL/T Rowe Price Value Fund	Keyight Technologies, Inc.			Equity	455,095	72,328,248	1.489%
JNL/T Rowe Price Value Fund	Hilton Worldwide Holdings Inc.			Equity	62,200	14,337,100	0.295%
JNL/T Rowe Price Value Fund	Equinix, Inc.			Equity	21,500	19,084,045	0.393%
JNL/T Rowe Price Value Fund	Public Storage Operating Company			Equity	150,992	54,941,459	1.131%
JNL/T Rowe Price Value Fund	Equity Lifestyle Properties, Inc.			Equity	196,958	14,289,912	0.294%
JNL/T Rowe Price Value Fund	T Rowe Price Government Reserve Fund	12/1/2099	4.97	Cash Equivalent	23,585,500	23,627,606	0.486%
JNL/T Rowe Price Value Fund	Keurig Dr Pepper Inc.			Equity	1,091,000	41,141,610	0.847%
JNL/T Rowe Price Value Fund	L3Harris Technologies, Inc.			Equity	172,875	41,121,776	0.847%
JNL/T Rowe Price Value Fund	Linde Public Limited Company			Equity	97,142	46,323,134	0.954%
JNL/T Rowe Price Value Fund	Kenvue Inc.			Equity	6,129,345	141,771,750	2.919%
JNL/T Rowe Price Value Fund	Corsys Inc.			Equity	82,704	25,866,503	0.533%
JNL/T Rowe Price Value Fund	Viper Energy, Inc.			Equity	120,450	5,433,500	0.112%
JNL/T Rowe Price Value Fund	Ferguson Enterprises Inc.			Equity	135,000	26,909,097	0.554%
JNL/T Rowe Price Value Fund	Te Connectivity Public Limited Company			Equity	306,128	46,722,267	0.962%
Total Non Derivatives						4,857,001,811	
Derivatives							
Total Derivatives						0	
Total All Investments						4,857,001,811	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Vanguard Growth ETF Allocation Fund	Cash			Cash Equivalent	1,657,442	1,657,442	0.078%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Intermediate-Term Treasury ETF			Fund	823,048	49,728,560	2.325%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Total Bond Market ETF			Fund	1,864,721	140,059,194	6.550%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Emerging Markets Government Bond ETF			Fund	616,456	40,914,185	1.913%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard FTSE Emerging Markets ETF			Fund	1,742,662	83,386,377	3.899%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Value ETF			Fund	1,613,474	281,664,156	13.172%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard FTSE Developed Markets ETF			Fund	5,158,702	272,431,053	12.740%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Small-Cap ETF			Fund	268,781	63,946,951	2.990%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Intermediate-Term Corporate Bond ETF			Fund	480,967	40,280,986	1.884%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Mid-Cap ETF			Fund	285,268	75,262,256	3.520%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Mortgage-Backed Securities ETF			Fund	2,552,291	120,493,658	5.635%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Growth ETF			Fund	465,769	178,822,692	8.362%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Total Stock Market ETF			Fund	1,550,977	440,525,083	20.601%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Real Estate ETF			Fund	226,277	22,277,823	1.038%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard Dividend Appreciation ETF			Fund	870,535	173,145,146	8.097%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard S&P Small-Cap 600 Growth ETF			Fund	535,085	64,283,025	3.006%
JNL/Vanguard Growth ETF Allocation Fund	Vanguard International Dividend Appreciation ETF			Fund	1,014,717	89,579,217	4.189%
Total Non Derivatives						2,138,407,804	
Derivatives							
Total Derivatives						0	
Total All Investments						2,138,407,804	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Intermediate-Term Treasury ETF			Fund	550,041	32,233,477	5.760%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Total Bond Market ETF			Fund	1,372,291	103,072,777	17.866%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Emerging Markets Government Bond ETF			Fund	428,050	28,409,679	4.924%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard FTSE Emerging Markets ETF			Fund	258,804	12,383,771	2.147%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Value ETF			Fund	290,582	43,340,608	7.582%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard FTSE Developed Markets ETF			Fund	745,863	39,389,025	6.827%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Small-Cap ETF			Fund	31,182	7,418,674	1.286%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Intermediate-Term Corporate Bond ETF			Fund	267,670	22,417,363	3.886%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Mid-Cap ETF			Fund	45,402	11,978,410	2.076%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Short-Term Inflation-Protected Securities ETF			Fund	168,399	8,303,755	1.439%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Mortgage-Backed Securities ETF			Fund	2,013,661	95,064,936	16.478%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Growth ETF			Fund	81,061	31,121,750	5.394%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Short-Term Corporate Bond ETF			Fund	448,808	35,723,751	6.192%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Total Stock Market ETF			Fund	205,143	38,267,034	10.100%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Real Estate ETF			Fund	31,504	3,094,726	0.536%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard Dividend Appreciation ETF			Fund	121,203	24,106,754	4.179%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard S&P Small-Cap 600 Growth ETF			Fund	62,083	7,458,433	1.293%
JNL/Vanguard Moderate ETF Allocation Fund	Vanguard International Dividend Appreciation ETF			Fund	132,967	11,788,327	2.035%
Total Non Derivatives						576,923,250	
Derivatives							
Total Derivatives						0	
Total All Investments						576,923,250	

Total Derivatives	0
Total All Investments	974,497,332

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWCM China Quality Growth Fund	Cash			Cash Equivalent	106,698	106,698	1.736%
JNLWCM China Quality Growth Fund	Yadea Group Holdings Ltd			Equity	92,000	162,355	2,641%
JNLWCM China Quality Growth Fund	NARI Technology Co., Ltd.			Equity	49,500	193,946	3,155%
JNLWCM China Quality Growth Fund	Kanzhun Limited			Equity	8,824	153,185	2,492%
JNLWCM China Quality Growth Fund	Full Truck Alliance Co. Ltd.			Equity	13,695	123,392	2,007%
JNLWCM China Quality Growth Fund	Meituan			Equity	12,700	270,379	4,399%
JNLWCM China Quality Growth Fund	Asynchem Laboratories (Tianjin) Co., Ltd.			Equity	1	8	0.000%
JNLWCM China Quality Growth Fund	Zhejiang Jiemei Electronic and Technology Co.,Ltd.			Equity	59,769	174,506	2,839%
JNLWCM China Quality Growth Fund	Bordex Supply Chain Management Co.,Ltd.			Equity	15,700	165,176	2,687%
JNLWCM China Quality Growth Fund	Hangzhou Oxygen Plant Group Co., Ltd.			Equity	36,000	170,416	1,959%
JNLWCM China Quality Growth Fund	Kweichow Moutai Co.,Ltd.			Equity	1,000	246,206	4,005%
JNLWCM China Quality Growth Fund	MediaTek Inc.			Equity	3,955	147,691	2,403%
JNLWCM China Quality Growth Fund	TravelSky Technology Limited			Equity	92,000	135,384	2,202%
JNLWCM China Quality Growth Fund	Hong Kong Exchanges and Clearing Limited			Equity	2,200	90,391	1,471%
JNLWCM China Quality Growth Fund	Teclonic Industries Company Limited			Equity	4,822	72,462	1,179%
JNLWCM China Quality Growth Fund	China Communications Services Corporation Limited			Equity	284,000	152,433	2,480%
JNLWCM China Quality Growth Fund	China Merchants Bank Co., Ltd.			Equity	35,500	172,086	2,800%
JNLWCM China Quality Growth Fund	Shenzhen International Group Holdings Limited			Equity	5,800	51,418	0,836%
JNLWCM China Quality Growth Fund	AIA Group Limited			Equity	25,400	221,002	3,595%
JNLWCM China Quality Growth Fund	Tencent Holdings Limited			Equity	12,600	699,497	11,380%
JNLWCM China Quality Growth Fund	Fuyao Glass Industry Group Co., Ltd.			Equity	17,600	118,412	1,926%
JNLWCM China Quality Growth Fund	BOC Aviation Limited			Equity	21,500	182,000	2,961%
JNLWCM China Quality Growth Fund	Li Ning Company Limited			Equity	77,500	190,934	3,106%
JNLWCM China Quality Growth Fund	Shenzhen Inovance Technology Co., Ltd.			Equity	20,000	176,706	2,875%
JNLWCM China Quality Growth Fund	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.			Equity	6,000	248,448	4,042%
JNLWCM China Quality Growth Fund	Contemporary Amperex Technology Co., Limited			Equity	5,800	204,938	3,332%
JNLWCM China Quality Growth Fund	Prosus N.V.			Equity	42,756	371,977	6,051%
JNLWCM China Quality Growth Fund	Trip.com Group Limited			Equity	3,296	195,881	3,187%
JNLWCM China Quality Growth Fund	HUYA Inc.			Equity	42,890	218,739	3,559%
JNLWCM China Quality Growth Fund	Pinshuo (Shanghai) Network Technology Co., Ltd.			Equity	1,121	151,122	2,458%
JNLWCM China Quality Growth Fund	Sieyuan Electric Co., Ltd.			Equity	12,300	125,422	2,105%
JNLWCM China Quality Growth Fund	Warom Technology Incorporated Company			Equity	66,900	189,209	3,078%
JNLWCM China Quality Growth Fund	Allied Supreme Corp.			Equity	10,000	105,487	1,716%
JNLWCM China Quality Growth Fund	Cloud Village Inc.			Equity	12,000	205,129	3,337%
Total Non Derivatives						6,146,935	
Derivatives							
JNLWCM China Quality Growth Fund	Bought USD / Sold HKD			Derivative		7	0.000%
Total Derivatives						7	
Total All Investments						6,146,942	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWCM Focused International Equity Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	76,427,900	76,639,037	4.298%
JNLWCM Focused International Equity Fund	Coupaang, Inc.			Equity	1,882,236	46,208,694	2.591%
JNLWCM Focused International Equity Fund	Meituan			Equity	816,000	17,372,389	0.974%
JNLWCM Focused International Equity Fund	NU Holdings Ltd.			Equity	3,290,245	44,911,844	2.519%
JNLWCM Focused International Equity Fund	Monday.com Ltd.			Equity	146,917	41,364,675	2.320%
JNLWCM Focused International Equity Fund	Adiasian Corporation			Equity	168,693	26,790,135	1.502%
JNLWCM Focused International Equity Fund	BAE Systems PLC			Equity	2,724,993	45,184,081	2.534%
JNLWCM Focused International Equity Fund	Canadian Natural Resources Limited			Equity	912,738	30,663,057	1.720%
JNLWCM Focused International Equity Fund	AstraZeneca PLC			Equity	421,211	65,706,718	3.685%
JNLWCM Focused International Equity Fund	Arch Capital Group Ltd.			Equity	517,006	57,943,323	3.249%
JNLWCM Focused International Equity Fund	L'Oréal			Equity	80,567	36,068,308	2.023%
JNLWCM Focused International Equity Fund	Schneider Electric SE			Equity	154,606	40,757,724	2.286%
JNLWCM Focused International Equity Fund	Mitsubishi Heavy Industries, Ltd.			Equity	3,679,800	53,216,526	2.990%
JNLWCM Focused International Equity Fund	Saffron			Equity	304,169	71,651,296	4.017%
JNLWCM Focused International Equity Fund	Experian PLC			Equity	868,522	45,772,104	2.567%
JNLWCM Focused International Equity Fund	MercadoLibre, Inc.			Equity	19,685	40,392,833	2.265%
JNLWCM Focused International Equity Fund	3i Group PLC			Equity	1,167,577	51,733,393	2.901%
JNLWCM Focused International Equity Fund	EPAM Systems, Inc.			Equity	85,090	16,935,463	0.950%
JNLWCM Focused International Equity Fund	Rolls-Royce Holdings PLC			Equity	2,305,531	16,326,554	0.916%
JNLWCM Focused International Equity Fund	Ferrari N.V.			Equity	153,190	71,782,644	4.026%
JNLWCM Focused International Equity Fund	Icon Public Limited Company			Equity	244,658	70,292,690	3.942%
JNLWCM Focused International Equity Fund	Compass Group PLC			Equity	1,085,601	34,823,626	1.953%
JNLWCM Focused International Equity Fund	Sea Limited			Equity	665,183	62,713,453	3.517%
JNLWCM Focused International Equity Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	451,879	78,760,702	4.417%
JNLWCM Focused International Equity Fund	ICICI Bank Limited			Equity	1,519,101	45,345,165	2.543%
JNLWCM Focused International Equity Fund	ASML Holding N.V.			Equity	59,282	49,396,727	2.770%
JNLWCM Focused International Equity Fund	Spotify Technology S.A.			Equity	140,964	51,949,463	2.913%
JNLWCM Focused International Equity Fund	Waste Connections, Inc.			Equity	201,263	35,989,850	2.018%
JNLWCM Focused International Equity Fund	UBS Group AG			Equity	1,121,431	34,728,130	1.948%
JNLWCM Focused International Equity Fund	Adyen N.V.			Equity	32,215	50,479,112	2.831%
JNLWCM Focused International Equity Fund	Steris Public Limited Company			Equity	173,249	42,019,812	2.356%
JNLWCM Focused International Equity Fund	ASM International N.V.			Equity	92,373	60,860,173	3.413%
JNLWCM Focused International Equity Fund	AON Public Limited Company			Equity	115,513	39,966,343	2.241%
JNLWCM Focused International Equity Fund	Linde Public Limited Company			Equity	79,254	37,793,062	2.119%
JNLWCM Focused International Equity Fund	Canadian Pacific Kansas City Limited			Equity	646,927	55,429,020	3.108%
JNLWCM Focused International Equity Fund	Novo Nordisk A/S			Equity	848,423	100,538,740	5.638%
JNLWCM Focused International Equity Fund	Ferguson Enterprises Inc.			Equity	174,237	34,584,449	1.940%
Total Non Derivatives						1,783,171,515	
Derivatives							
JNLWCM Focused International Equity Fund	Bought HKD / Sold USD			Derivative		(20,507)	-0.001%
Total Derivatives						(20,507)	
Total All Investments						1,783,151,008	

Non Derivatives	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWestchester Capital Event Driven Fund	Cash			Cash Equivalent	9,510,382	9,510,382	16.878%
JNLWestchester Capital Event Driven Fund	JNL Government Money Market Fund			Cash Equivalent	2,851,186	2,862,936	5.081%
JNLWestchester Capital Event Driven Fund	Vector Group Ltd.	2/1/2029	5.75	Fixed Income	624,000	639,058	1.134%
JNLWestchester Capital Event Driven Fund	California Resources Corporation	2/1/2026	7.13	Fixed Income	402,000	406,603	0.722%
JNLWestchester Capital Event Driven Fund	Entertainment Studios, Inc.	2/15/2028	10.50	Fixed Income	1,365,000	599,464	1.064%
JNLWestchester Capital Event Driven Fund	Catalent Pharma Solutions, Inc.	2/15/2029	3.13	Fixed Income	232,000	228,902	0.406%
JNLWestchester Capital Event Driven Fund	Silicon Motion, Inc.			Equity	9,800	595,252	1.056%
JNLWestchester Capital Event Driven Fund	Vizio Holding Corp.			Equity	16,015	178,888	0.317%
JNLWestchester Capital Event Driven Fund	Endeavor Group Holdings, Inc.			Equity	115,497	3,298,594	5.854%
JNLWestchester Capital Event Driven Fund	RMG Acquisition Corp. III	2/8/2026		Equity	9,204	0	0.000%
JNLWestchester Capital Event Driven Fund	Goat Acquisitions Corp.	2/11/2026		Equity	118,634	1,186	0.002%
JNLWestchester Capital Event Driven Fund	Frontier Communications Parent, Inc.			Equity	895	31,799	0.056%
JNLWestchester Capital Event Driven Fund	Clear Channel Outdoor Holdings, Inc.	6/1/2029	7.50	Fixed Income	1,024,000	906,603	1.609%
JNLWestchester Capital Event Driven Fund	O-Si Operations Inc.	6/10/2026		Equity	13,236	908	0.002%
JNLWestchester Capital Event Driven Fund	Even Holdings Inc.	7/15/2029	5.00	Fixed Income	308,000	309,938	0.550%
JNLWestchester Capital Event Driven Fund	Federal Home Loan Mortgage Corporation		8.38	Equity	225,735	923,256	1.638%
JNLWestchester Capital Event Driven Fund	Capli Lilly	8/26/2026		Equity	14,385	0	0.000%
JNLWestchester Capital Event Driven Fund	Monoclon Technologies Inc.	9/22/2026		Equity	33,616	1,563	0.003%
JNLWestchester Capital Event Driven Fund	Catalent Pharma Solutions, Inc.	4/1/2030	3.50	Fixed Income	298,000	298,340	0.529%
JNLWestchester Capital Event Driven Fund	Vector Group Ltd.	11/1/2026	10.50	Fixed Income	1,025,000	1,081,995	1.920%
JNLWestchester Capital Event Driven Fund	Buzzfeed, Inc.	12/3/2026		Equity	6,576	559	0.001%
JNLWestchester Capital Event Driven Fund	HashCorp, Inc.			Equity	7,455	252,426	0.448%
JNLWestchester Capital Event Driven Fund	Getty Images, Inc.	3/1/2027	9.75	Fixed Income	1,229,000	1,237,233	2.196%
JNLWestchester Capital Event Driven Fund	Corporacion Nuvei			Equity	17,329	577,922	1.026%
JNLWestchester Capital Event Driven Fund	Franklin Universal Trust			Fund	39,585	299,263	0.531%
JNLWestchester Capital Event Driven Fund	Vista Outdoor Inc.	3/15/2029	4.50	Fixed Income	524,000	521,574	0.926%
JNLWestchester Capital Event Driven Fund	Invesco Value Municipal Income Trust			Fund	11,064	142,504	0.253%
JNLWestchester Capital Event Driven Fund	Nuveen Municipal Value Fund		1.795	Fund	16,247	16,247	0.029%
JNLWestchester Capital Event Driven Fund	Earthstone Energy Holdings, LLC	4/15/2027	8.00	Fixed Income	195,000	207,959	0.369%
JNLWestchester Capital Event Driven Fund	Bausch & Lomb Corporation	12/31/2049		Fixed Income	563,000	560,399	0.995%
JNLWestchester Capital Event Driven Fund	Saba Capital Income & Opportunities Fund			Fund	4,286	32,531	0.058%
JNLWestchester Capital Event Driven Fund	Syniverse Holdings, Inc.	5/6/2027	12.33	Fixed Income	1,078,000	1,063,008	1.886%
JNLWestchester Capital Event Driven Fund	Grove Collaborative Holdings, Inc.	6/16/2027		Equity	5,007	98	0.000%
JNLWestchester Capital Event Driven Fund	Pershing Square Tonline Holdings, Ltd.			Equity	16,286	0	0.000%
JNLWestchester Capital Event Driven Fund	Ampuris Technologies Operating, Inc.	9/14/2027		Equity	10,881	1,411	0.003%
JNLWestchester Capital Event Driven Fund	Xerox Technologies Inc.	8/1/2027		Equity	11,441	15	0.000%
JNLWestchester Capital Event Driven Fund	Slam Corp.	2/23/2026		Equity	9,736	1,460	0.003%
JNLWestchester Capital Event Driven Fund	Cartica Acquisition Corp.			Equity	3,359	38,393	0.068%
JNLWestchester Capital Event Driven Fund	Cero Therapeutics Holdings, Inc.	2/13/2029		Equity	1,871	10	0.000%
JNLWestchester Capital Event Driven Fund	Corner Growth Acquisition Corp.	1/1/2027		Equity	4,023	845	0.001%
JNLWestchester Capital Event Driven Fund	Akousis, Inc.	1/7/2031		Equity	10,837	5,419	0.010%
JNLWestchester Capital Event Driven Fund	LATAM Airlines Group S.A.	10/15/2027	13.38	Fixed Income	899,000	1,045,364	1.855%
JNLWestchester Capital Event Driven Fund	Vaso Holding Corporation	1/1/2026		Equity	30,066	198	0.000%
JNLWestchester Capital Event Driven Fund	Getaround Operating, Inc.	3/9/2026		Equity	4,900	11	0.000%
JNLWestchester Capital Event Driven Fund	International Media Acquisition Corp.	7/21/2026		Equity	19,131	359	0.001%
JNLWestchester Capital Event Driven Fund	ECARX Holdings Inc.	12/20/2027		Equity	12,200	246	0.000%
JNLWestchester Capital Event Driven Fund	Hercules Capital Funding Trust 2019-1	10/1/2025	3.65	Fixed Income	279,714	278,131	0.484%
JNLWestchester Capital Event Driven Fund	Target Global Acquisition I Corp.	12/8/2026		Equity	5,791	285	0.001%
JNLWestchester Capital Event Driven Fund	Volato Group, Inc.	12/4/2028		Equity	5,014	26	0.000%
JNLWestchester Capital Event Driven Fund	Bridger Aerospace Group Holdings, Inc.	12/4/2028		Equity	11,750	411	0.001%
JNLWestchester Capital Event Driven Fund	Freightos Ltd	12/3/2028		Equity	1,617	113	0.000%
JNLWestchester Capital Event Driven Fund	Ball Corporation			Equity	1,800	122,238	0.217%
JNLWestchester Capital Event Driven Fund	Baxter International Inc.			Equity	3,200	122,432	0.217%
JNLWestchester Capital Event Driven Fund	Hess Corporation			Equity	3,559	483,312	0.858%
JNLWestchester Capital Event Driven Fund	Juniper Networks, Inc.			Equity	2,863	111,600	0.198%
JNLWestchester Capital Event Driven Fund	Schlumberger Limited			Equity	798	63,476	0.059%
JNLWestchester Capital Event Driven Fund	Kellanova			Equity	2,170	175,141	0.311%
JNLWestchester Capital Event Driven Fund	McGraw Hill Financial			Equity	2,433	256,146	0.455%
JNLWestchester Capital Event Driven Fund	UMB Financial Corporation			Equity	780	82,240	0.146%
JNLWestchester Capital Event Driven Fund	Chevron Corporation			Equity	1,493	219,874	0.396%
JNLWestchester Capital Event Driven Fund	Southwestern Energy Company			Equity	320,755	2,280,568	4.047%
JNLWestchester Capital Event Driven Fund	Stericycle, Inc.			Equity	24,703	1,506,883	2.674%
JNLWestchester Capital Event Driven Fund	Heartland Financial USA, Inc.			Equity	12,977	735,796	1.306%
JNLWestchester Capital Event Driven Fund	United States Steel Corporation			Equity	95	3,356	0.006%
JNLWestchester Capital Event Driven Fund	Haymes International, Inc.			Equity	15,297	910,783	1.616%
JNLWestchester Capital Event Driven Fund	Discover Financial Services			Equity	2,043	286,612	0.509%
JNLWestchester Capital Event Driven Fund	Envestnet, Inc.			Equity	1,875	117,413	0.208%
JNLWestchester Capital Event Driven Fund	Berry Global Group, Inc.			Equity	11,000	147,780	0.270%
JNLWestchester Capital Event Driven Fund	Independent Bank Group, Inc.			Equity	5,289	304,964	0.541%
JNLWestchester Capital Event Driven Fund	CONSOL Energy Inc.			Equity	-30	(3,140)	-0.006%
JNLWestchester Capital Event Driven Fund	Vale S.A.			Equity	36,665	428,247	0.760%
JNLWestchester Capital Event Driven Fund	Atlantica Sustainable Infrastructure PLC			Equity	12,814	281,652	0.500%
JNLWestchester Capital Event Driven Fund	Catalent, Inc.			Equity	14,906	902,856	1.602%
JNLWestchester Capital Event Driven Fund	Vista Outdoor Inc.			Equity	21,190	830,224	1.473%
JNLWestchester Capital Event Driven Fund	Even Holdings Inc.			Equity	29,508	387,735	0.688%
JNLWestchester Capital Event Driven Fund	Capri Holdings Limited			Equity	9,236	391,976	0.696%
JNLWestchester Capital Event Driven Fund	Federal National Mortgage Association, Inc.	8.25	Equity	18,859	80,717	0.143%	
JNLWestchester Capital Event Driven Fund	Fox Corporation			Equity	4,007	155,472	0.276%
JNLWestchester Capital Event Driven Fund	Axonic, Inc.			Equity	3,924	273,110	0.485%
JNLWestchester Capital Event Driven Fund	DuPont de Nemours, Inc.			Equity	9,500	846,545	1.502%
JNLWestchester Capital Event Driven Fund	Smartsheet Inc.			Equity	9,487	525,200	0.932%
JNLWestchester Capital Event Driven Fund	GrubHub Holdings Inc.	7/1/2027	5.50	Fixed Income	99,000	93,251	0.165%
JNLWestchester Capital Event Driven Fund	Connect Finco SARL	10/1/2026	6.75	Fixed Income	426,000	440,378	0.782%
JNLWestchester Capital Event Driven Fund	Calumet Specialty Products Partners, L.P.	4/15/2025	11.00	Fixed Income	2,129,000	2,234,133	3.965%
JNLWestchester Capital Event Driven Fund	Nuveen New York AMT-Free Quality Municipal Income Fund			Fund	11,517	129,785	0.230%
JNLWestchester Capital Event Driven Fund	Nuveen AMT-Free Quality Municipal Income Fund			Fund	36,299	437,149	0.776%
JNLWestchester Capital Event Driven Fund	BlackRock MuniYield Quality Fund III, Inc.			Fund	9,881	119,120	0.211%
JNLWestchester Capital Event Driven Fund	Nuveen Enhanced Municipal Credit Income Fund			Fund	15,624	205,917	0.365%
JNLWestchester Capital Event Driven Fund	Altaba Inc.			Equity	838,925	1,187,079	2.107%
JNLWestchester Capital Event Driven Fund	Light and Wonder International, Inc.	5/15/2028	7.00	Fixed Income	947,000	979,315	1.738%
JNLWestchester Capital Event Driven Fund	First Bancshares Inc.			Equity	4,166	133,854	0.238%
JNLWestchester Capital Event Driven Fund	Bristol-Myers Squibb Company	12/31/2049		Equity	92,099	78,284	0.139%
JNLWestchester Capital Event Driven Fund	KLDiscovery Outrck, LLC	12/1/2025		Fund	77,730	78	0.000%
JNLWestchester Capital Event Driven Fund	Pan American Silver Corp.	2/22/2029		Equity	428,816	182,247	0.323%
JNLWestchester Capital Event Driven Fund	Invesco Municipal Opportunity Trust			Fund	26,702	274,230	0.487%
JNLWestchester Capital Event Driven Fund	Arch Resources, Inc.			Equity	22	3,040	0.005%
JNLWestchester Capital Event Driven Fund	ChampionX Corporation			Equity	18,622	561,453	0.996%
JNLWestchester Capital Event Driven Fund	Illuminate Buyer LLC	7/1/2028	9.00	Fixed Income	517,000	533,759	0.947%
JNLWestchester Capital Event Driven Fund	Albertsons Companies, Inc.			Equity	30,428	562,309	0.998%
JNLWestchester Capital Event Driven Fund	TechTarget, Inc.	12/15/2026		Fixed Income	498,000	481,832	0.855%
JNLWestchester Capital Event Driven Fund	Instructure Holdings, Inc.			Equity	856	20,159	0.036%
JNLWestchester Capital Event Driven Fund	Global Blockchain Acquisition Corp.	5/9/2027		Equity	23,470	397	0.001%
JNLWestchester Capital Event Driven Fund	Movella Holdings Inc.	2/10/2028		Equity	4,871	0	0.000%
JNLWestchester Capital Event Driven Fund	Mausser Packaging Solutions Holding Company	4/15/2027	9.25	Fixed Income	1,304,000	1,393,447	2.473%
JNLWestchester Capital Event Driven Fund	Newbury Street Acquisition Corporation	4/30/2028		Equity	12,542	1,129	0.002%
JNLWestchester Capital Event Driven Fund	Phyphox Acquisition Corp.	5/3/2028		Equity	2,530	152	0.000%
JNLWestchester Capital Event Driven Fund	Alteryx Acquisition Corp.	10/29/2026		Equity	1,900	21	0.000%
JNLWestchester Capital Event Driven Fund	Cartesian Growth Corporation II	7/1/2028		Equity	2,258	113	0.000%
JNLWestchester Capital Event Driven Fund	Direct Selling Acquisition Corp.			Equity	6,106	68,265	0.121%
JNLWestchester Capital Event Driven Fund	Zapp Electric Vehicles Group Limited	4/28/2028		Equity	5,044	50	0.000%
JNLWestchester Capital Event Driven Fund	TMT Acquisition Corp.			Equity	11,040	124,145	0.220%
JNLWestchester Capital Event Driven Fund	Jaws Mustang Acquisition Corp.	1/30/2026		Equity	8,148	188	0.000%
JNLWestchester Capital Event Driven Fund	Oak Woods Acquisition Corporation			Equity	8,289	88,692	0.157%
JNLWestchester Capital Event Driven Fund	Oak Woods Acquisition Corporation	3/23/2028		Equity	21,151	846	0.002%
JNLWestchester Capital Event Driven Fund	TMT Acquisition Corp.	3/27/2028		Equity	8,275	2,259	0.004%
JNLWestchester Capital Event Driven Fund	Spring Valley Acquisition Corp. II	2/25/2026		Equity	2,699	246	0.000%
JNLWestchester Capital Event Driven Fund	Spring Valley Acquisition Corp. II	2/25/2026		Equity	1,349	50	0.000%
JNLWestchester Capital Event Driven Fund	MoneyGram International, Inc.	6/1/2030	9.00	Fixed Income	188,000	186,088	0.330%
JNLWestchester Capital Event Driven Fund	Ares Acquisition Corp II	6/12/2028		Equity	11,111	1,778	0.003%
JNLWestchester Capital Event Driven Fund	Alchemi Investments Acquisition Corp I	11/30/2027		Equity	6,147	436	0.001%
JNLWestchester Capital Event Driven Fund	Alchemi Investments Acquisition Corp I			Equity	12,295	133,831	0.238%
JNLWestchester Capital Event Driven Fund	Gold Flora Corporation			Equity	8,635	830	0.001%
JNLWestchester Capital Event Driven Fund	ESH Acquisition Corp.	12/14/2024		Equity	11,410	930	0.002%
JNLWestchester Capital Event Driven Fund	Aimfinity Investment Corp. I			Equity	3,407	39,317	0.070%
JNLWestchester Capital Event Driven Fund	Alurion Technologies, Inc.	8/1/2030		Equity	5,56,0		

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWestchester Capital Event Driven Fund	iLearningEngines, Inc.	4/16/2029		Equity	15,905	4,215	0.007%
JNLWestchester Capital Event Driven Fund	ihixx, Inc.	3/7/2031		Equity	4,165	2,124	0.006%
JNLWestchester Capital Event Driven Fund	Grif Global Corp.			Equity	4,014	40,260	0.071%
JNLWestchester Capital Event Driven Fund	Kronos Acquisition Holdings Inc	6/30/2031	8.25	Fixed Income	60,000	61,384	0.109%
JNLWestchester Capital Event Driven Fund	Kronos Acquisition Holdings Inc	6/30/2032	10.75	Fixed Income	29,000	28,812	0.051%
JNLWestchester Capital Event Driven Fund	MKRWELL Tech Inc	7/31/2029		Equity	17,425	321	0.001%
JNLWestchester Capital Event Driven Fund	Voyager Acquisition Corp.			Equity	9,782	97,820	0.174%
JNLWestchester Capital Event Driven Fund	SilverBox Corp IV			Equity	9,190	92,176	0.164%
JNLWestchester Capital Event Driven Fund	Werner Finco LP	6/15/2028	11.50	Fixed Income	364,000	413,456	0.734%
JNLWestchester Capital Event Driven Fund	Andretti Acquisition Corp. II			Equity	9,298	92,980	0.165%
JNLWestchester Capital Event Driven Fund	Vvea Inc	3/18/2026		Equity	5,034	1,221	0.002%
JNLWestchester Capital Event Driven Fund	Cayson Acquisition Corp.			Equity	3,077	30,832	0.055%
Total Non Derivatives							56,018.380
Derivatives							
JNLWestchester Capital Event Driven Fund	Bought AUD / Sold USD			Derivative		81,890	0.145%
JNLWestchester Capital Event Driven Fund	Bought EUR / Sold USD			Derivative		5	0.000%
JNLWestchester Capital Event Driven Fund	Bought EUR / Sold USD			Derivative		(442)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought EUR / Sold USD			Derivative		(699)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought EUR / Sold USD			Derivative		(1,171)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought EUR / Sold USD			Derivative		(351)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought GBP / Sold USD			Derivative		(76)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(4,787)	-0.008%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,145)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,572)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(63)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,696)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(2,127)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(3,895)	-0.007%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(2,737)	-0.005%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(13,442)	-0.024%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(8,322)	-0.009%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,470)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(2,904)	-0.005%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(3,541)	-0.006%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(719)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(3,093)	-0.005%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(735)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(4,648)	-0.008%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(13,404)	-0.024%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,688)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(438)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(127)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(6,284)	-0.011%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(9,353)	-0.016%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,225)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(132)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(377)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,581)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(134)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(5,322)	-0.009%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(3,117)	-0.006%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(1,160)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(3,200)	-0.006%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(1,513)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(1,031)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(3,546)	-0.006%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(3,744)	-0.007%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(9,897)	-0.018%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(688)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(748)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(653)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold SEK			Derivative		(619)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(3,817)	-0.007%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold AUD			Derivative		(2,109)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(2,457)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(2,648)	-0.005%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(2,165)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(2,773)	-0.005%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,174)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,887)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(646)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(696)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(403)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(2)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(86,690)	-0.154%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,880)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(241)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,346)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(525)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(374)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(2,335)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(159)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(2,059)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(5,174)	-0.009%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(948)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(79)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(484)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(348)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(371)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold JPY			Derivative		(515)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,846)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(19,780)	-0.035%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(2,298)	-0.004%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,176)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(3,155)	-0.006%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(639)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(206)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(640)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(183)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(182)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(1,449)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(744)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(5,665)	-0.010%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(98)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(629)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(237)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		6	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(623)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(115)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		84	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		79	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(546)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(303)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(689)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(951)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(164)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(484)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(2,532)	-0.005%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(896)	-0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(295)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(150)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(280)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(253)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(500)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(340)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(3,607)	-0.006%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(1,421)	-0.003%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(451)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		1,347	0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		(574)	-0.001%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(232)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		228	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(119)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		(190)	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		7	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		9	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		139	0.000%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold EUR			Derivative		1,263	0.002%
JNLWestchester Capital Event Driven Fund	Bought USD / Sold GBP			Derivative		123	0.000%
JNLWestchester Capital Event Driven Fund	Ball Corporation OPTION			Derivative	-130	(143,630)	-0.255%
JNLWestchester Capital Event Driven Fund	Ball Corporation OPTION			Derivative	-18	(12,870)	-0.023%
JNLWestchester Capital Event Driven Fund	Ball Corporation OPTION			Derivative	130	905	0.002%
JNLWestchester Capital Event Driven Fund	Ball Corporation OPTION			Derivative	18	585	0.001%
JNLWestchester Capital Event Driven Fund	Baxter International Inc. OPTION			Derivative	-367	(143,131)	-0.254%
JNLWestchester Capital Event Driven Fund	Baxter International Inc. OPTION			Derivative	367	5,505	0.010%
JNLWestchester Capital Event Driven Fund	Berry Global Group, Inc. OPTION			Derivative	-110	(86,350)	-0.153%
JNLWestchester Capital Event Driven Fund	Berry Global Group, Inc. OPTION			Derivative	110	13,475	0.024%
JNLWestchester Capital Event Driven Fund	DuPont de Nemours, Inc. OPTION			Derivative	-95	(111,150)	-0.197%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNL/Westchester Capital Event Driven Fund	DuPont de Nemours, Inc. OPTION			Derivative	95	2,813	0.005%
JNL/Westchester Capital Event Driven Fund	Endeavor Group Holdings, Inc. OPTION			Derivative	-58	(8,990)	-0.016%
JNL/Westchester Capital Event Driven Fund	International Game Technology PLC OPTION			Derivative	-670	(13,400)	-0.024%
JNL/Westchester Capital Event Driven Fund	International Game Technology PLC OPTION			Derivative	670	5,360	0.010%
JNL/Westchester Capital Event Driven Fund	Kellanova OPTION			Derivative	-62	(7,171)	-0.009%
JNL/Westchester Capital Event Driven Fund	Siemens Aktiengesellschaft OPTION			Derivative	-7	(9,171)	-0.017%
JNL/Westchester Capital Event Driven Fund	Siemens Aktiengesellschaft OPTION			Derivative	-30	(47,721)	-0.085%
JNL/Westchester Capital Event Driven Fund	Siemens Aktiengesellschaft OPTION			Derivative	-30	968	0.002%
JNL/Westchester Capital Event Driven Fund	Silicon Motion, Inc. OPTION			Derivative	-98	(4,900)	-0.009%
JNL/Westchester Capital Event Driven Fund	Silicon Motion, Inc. OPTION			Derivative	98	3,185	0.006%
JNL/Westchester Capital Event Driven Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-19	(25,555)	-0.045%
JNL/Westchester Capital Event Driven Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	12	1,908	0.003%
JNL/Westchester Capital Event Driven Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	-26	(3,241)	-0.006%
JNL/Westchester Capital Event Driven Fund	SPDR S&P 500 ETF Trust OPTION			Derivative	36	9,828	0.017%
JNL/Westchester Capital Event Driven Fund	Vale S.A. OPTION			Derivative	-239	(10,516)	-0.019%
JNL/Westchester Capital Event Driven Fund	Vale S.A. OPTION			Derivative	949	1,898	0.003%
JNL/Westchester Capital Event Driven Fund	Visa Outdoor Inc. OPTION			Derivative	-46	(2,180)	-0.013%
JNL/Westchester Capital Event Driven Fund	Pan American Silver Corp. TOTAL RETURN SWAP			Derivative	329,894	(114,380)	-20.20%
JNL/Westchester Capital Event Driven Fund	Bristol-Myers Squibb Company TOTAL RETURN SWAP			Derivative	38,538	32,718	0.058%
JNL/Westchester Capital Event Driven Fund	Brookfield Property Preferred LP TOTAL RETURN SWAP			Derivative	1,636	7,900	0.014%
JNL/Westchester Capital Event Driven Fund	ABOMED, Inc. TOTAL RETURN SWAP			Derivative	1,530	2,676	0.005%
JNL/Westchester Capital Event Driven Fund	Chesapeake Energy Corporation TOTAL RETURN SWAP			Derivative	2,280,872	36,673	0.065%
JNL/Westchester Capital Event Driven Fund	Capital One Financial Corporation TOTAL RETURN SWAP			Derivative	290,600	(20,741)	-0.037%
JNL/Westchester Capital Event Driven Fund	ConocoPhillips TOTAL RETURN SWAP			Derivative	1,094	2,396	0.004%
JNL/Westchester Capital Event Driven Fund	Chevron Corporation TOTAL RETURN SWAP			Derivative	6,749,150	568,524	1.009%
JNL/Westchester Capital Event Driven Fund	Fox Corporation TOTAL RETURN SWAP			Derivative	162,871	(9,739)	-0.017%
JNL/Westchester Capital Event Driven Fund	International Paper Company TOTAL RETURN SWAP			Derivative	1,087,057	(128,357)	-0.228%
JNL/Westchester Capital Event Driven Fund	Renasant Corporation TOTAL RETURN SWAP			Derivative	134,312	(1,816)	-0.003%
JNL/Westchester Capital Event Driven Fund	Schlumberger Limited TOTAL RETURN SWAP			Derivative	1,795,732	187,462	0.337%
JNL/Westchester Capital Event Driven Fund	Synovis, Inc. TOTAL RETURN SWAP			Derivative	280,603	28,298	0.050%
JNL/Westchester Capital Event Driven Fund	Southstate Corporation TOTAL RETURN SWAP			Derivative	251,845	(47,953)	-0.085%
JNL/Westchester Capital Event Driven Fund	UMB Financial Corporation TOTAL RETURN SWAP			Derivative	605,737	(63,415)	-0.113%
JNL/Westchester Capital Event Driven Fund	Willcott Holdings Corporation TOTAL RETURN SWAP			Derivative	34,483	238	0.000%
JNL/Westchester Capital Event Driven Fund	Covestro AG TOTAL RETURN SWAP			Derivative	5,621	32,990	0.059%
JNL/Westchester Capital Event Driven Fund	Shinko Electric Industries Co. Ltd. TOTAL RETURN SWAP			Derivative	30,955	48,179	0.086%
JNL/Westchester Capital Event Driven Fund	Amedys, Inc. TOTAL RETURN SWAP			Derivative	25,106	(35,805)	-0.064%
JNL/Westchester Capital Event Driven Fund	ANSYS, Inc. TOTAL RETURN SWAP			Derivative	1,443	3,554	0.006%
JNL/Westchester Capital Event Driven Fund	Avonics, Inc. TOTAL RETURN SWAP			Derivative	25,172	44,238	0.080%
JNL/Westchester Capital Event Driven Fund	Ball Corporation TOTAL RETURN SWAP			Derivative	13,000	133,827	0.237%
JNL/Westchester Capital Event Driven Fund	Baxter International Inc. TOTAL RETURN SWAP			Derivative	33,500	(69,242)	-0.123%
JNL/Westchester Capital Event Driven Fund	Saba Capital Income & Opportunities Fund TOTAL RETURN SWAP			Derivative	10,097	0	0.000%
JNL/Westchester Capital Event Driven Fund	Brivac PLC TOTAL RETURN SWAP			Derivative	57,624	10,031	0.018%
JNL/Westchester Capital Event Driven Fund	ChampionX Corporation TOTAL RETURN SWAP			Derivative	35,000	(24,892)	-0.044%
JNL/Westchester Capital Event Driven Fund	Catalent, Inc. TOTAL RETURN SWAP			Derivative	20,000	113,178	0.201%
JNL/Westchester Capital Event Driven Fund	Darkestate PLC TOTAL RETURN SWAP			Derivative	57,913	17,448	0.031%
JNL/Westchester Capital Event Driven Fund	Enviroline PLC TOTAL RETURN SWAP			Derivative	10,217	6,919	0.012%
JNL/Westchester Capital Event Driven Fund	HashCorp, Inc. TOTAL RETURN SWAP			Derivative	54,306	(37)	0.000%
JNL/Westchester Capital Event Driven Fund	Hess Corporation TOTAL RETURN SWAP			Derivative	38,903	(376,279)	-0.668%
JNL/Westchester Capital Event Driven Fund	Hargreaves Lansdown PLC TOTAL RETURN SWAP			Derivative	26,962	7,366	0.013%
JNL/Westchester Capital Event Driven Fund	International Game Technology PLC TOTAL RETURN SWAP			Derivative	67,001	(7,743)	-0.014%
JNL/Westchester Capital Event Driven Fund	Juniper Networks, Inc. TOTAL RETURN SWAP			Derivative	24,858	38,977	0.068%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWestern Asset Global Multi-Sector Bond Fund	Cash			Cash Equivalent	1,042,311	1,042,311	0.298%
JNLWestern Asset Global Multi-Sector Bond Fund	Joint Stock Company National Company Kazmunaygas	4/14/2033	3.50	Fixed Income	1,130,000	1,001,567	0.274%
JNLWestern Asset Global Multi-Sector Bond Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	15,822,639	15,878,137	4.351%
JNLWestern Asset Global Multi-Sector Bond Fund	EOT Corporation	1/15/2029	5.00	Fixed Income	2,120,000	2,164,072	0.593%
JNLWestern Asset Global Multi-Sector Bond Fund	Targa Resources Partners LP	3/1/2030	5.50	Fixed Income	1,000,000	1,022,046	0.280%
JNLWestern Asset Global Multi-Sector Bond Fund	Charles Schwab Corporation, The	1/1/2200	4.00	Fixed Income	640,000	574,234	0.157%
JNLWestern Asset Global Multi-Sector Bond Fund	Mercadolibre, Inc.	3/14/2031	3.13	Fixed Income	2,280,000	2,069,961	0.576%
JNLWestern Asset Global Multi-Sector Bond Fund	UFC Holdings, LLC	4/29/2026	8.29	Fixed Income	1,336,993	1,358,162	0.372%
JNLWestern Asset Global Multi-Sector Bond Fund	The Arab Republic of Egypt	2/16/2026	3.88	Fixed Income	2,800,000	2,698,063	0.739%
JNLWestern Asset Global Multi-Sector Bond Fund	Kaaba Holding	12/15/2024	3.38	Fixed Income	1,200,000	1,335,720	0.369%
JNLWestern Asset Global Multi-Sector Bond Fund	Charter Communications Operating, LLC	6/1/2041	3.50	Fixed Income	670,000	477,227	0.131%
JNLWestern Asset Global Multi-Sector Bond Fund	The Republic of Indonesia, The Government of	4/15/2026	5.50	Fixed Income	42,084,000,000	2,824,120	0.774%
JNLWestern Asset Global Multi-Sector Bond Fund	Adhaghi Metal Packaging Finance Public Limited Company	9/1/2029	4.00	Fixed Income	200,000	181,559	0.050%
JNLWestern Asset Global Multi-Sector Bond Fund	American Airlines, Inc.	4/20/2029	5.75	Fixed Income	3,620,000	3,868,925	1.064%
JNLWestern Asset Global Multi-Sector Bond Fund	Sasol Financing USA LLC	3/18/2031	5.50	Fixed Income	3,080,000	2,755,392	0.755%
JNLWestern Asset Global Multi-Sector Bond Fund	United Airlines Pass Through Certificates, Series 2015-1	4/15/2029	4.63	Fixed Income	2,550,000	2,518,238	0.690%
JNLWestern Asset Global Multi-Sector Bond Fund	JPMorgan Chase & Co.	4/22/2052	3.33	Fixed Income	1,270,000	999,141	0.274%
JNLWestern Asset Global Multi-Sector Bond Fund	SFO Commercial Mortgage Trust 2021-555	5/15/2028	6.36	Fixed Income	280,000	266,805	0.073%
JNLWestern Asset Global Multi-Sector Bond Fund	Atlas LuxCo 4 S.a.r.l.	6/1/2028	4.63	Fixed Income	1,500,000	1,433,478	0.393%
JNLWestern Asset Global Multi-Sector Bond Fund	CCO Holdings, LLC	5/1/2032	4.50	Fixed Income	1,800,000	1,589,461	0.436%
JNLWestern Asset Global Multi-Sector Bond Fund	SMB Private Education Loan Trust 2021-B	7/1/2051	1.31	Fixed Income	1,005,323	934,241	0.256%
JNLWestern Asset Global Multi-Sector Bond Fund	T-Mobile USA, Inc.	4/15/2030	3.88	Fixed Income	1,480,000	1,466,255	0.402%
JNLWestern Asset Global Multi-Sector Bond Fund	OCF S.A.	6/23/2031	3.75	Fixed Income	3,800,000	3,458,031	0.948%
JNLWestern Asset Global Multi-Sector Bond Fund	Credit Agricole SA	1/1/2200	7.50	Fixed Income	2,090,000	2,833,747	0.777%
JNLWestern Asset Global Multi-Sector Bond Fund	Goldman Sachs Group, Inc., The	1/1/2200	3.65	Fixed Income	1,340,000	1,278,267	0.350%
JNLWestern Asset Global Multi-Sector Bond Fund	DIRECTVY Financing, LLC	8/15/2027	5.98	Fixed Income	1,430,000	1,430,763	0.394%
JNLWestern Asset Global Multi-Sector Bond Fund	United Rentals (North America), Inc.	11/15/2032	3.75	Fixed Income	4,010,000	3,691,258	1.012%
JNLWestern Asset Global Multi-Sector Bond Fund	Neinet Loan Trust 2021-C	4/20/2062	4.44	Fixed Income	1,400,000	1,191,076	0.326%
JNLWestern Asset Global Multi-Sector Bond Fund	American Aile & Manufacturing, Inc.	10/1/2029	5.00	Fixed Income	1,090,000	1,025,187	0.281%
JNLWestern Asset Global Multi-Sector Bond Fund	Gobierno de la Provincia de Buenos Aires	9/1/2037	6.63	Fixed Income	2,659,984	1,294,284	0.352%
JNLWestern Asset Global Multi-Sector Bond Fund	Premier Foods Finance PLC	10/15/2036	4.75	Fixed Income	1,030,000	1,363,829	0.374%
JNLWestern Asset Global Multi-Sector Bond Fund	Connecticut Avenue Securities Trust 2021-R01	10/25/2041	8.38	Fixed Income	960,000	986,356	0.270%
JNLWestern Asset Global Multi-Sector Bond Fund	AerCap Ireland Capital Designated Activity Company	1/30/2032	3.30	Fixed Income	720,000	653,820	0.179%
JNLWestern Asset Global Multi-Sector Bond Fund	Lorca Telecom Bonifico S.A.	9/18/2027	4.00	Fixed Income	1,210,000	1,340,672	0.367%
JNLWestern Asset Global Multi-Sector Bond Fund	Ford Motor Company	4/25/2026	3.16	Fixed Income	2,000,000	1,912,724	0.524%
JNLWestern Asset Global Multi-Sector Bond Fund	DISH DBS Corporation	12/1/2028	5.75	Fixed Income	3,020,000	2,709,613	0.743%
JNLWestern Asset Global Multi-Sector Bond Fund	Chemiere Energy Partners, L.P.	3/1/2031	4.00	Fixed Income	950,000	901,963	0.247%
JNLWestern Asset Global Multi-Sector Bond Fund	Southwestern Energy Company	2/1/2032	4.75	Fixed Income	3,150,000	3,076,839	0.843%
JNLWestern Asset Global Multi-Sector Bond Fund	Range Resources Corporation	1/15/2027	4.75	Fixed Income	4,080,000	3,983,105	1.084%
JNLWestern Asset Global Multi-Sector Bond Fund	Wells Fargo & Company	4/25/2053	4.61	Fixed Income	940,000	888,253	0.243%
JNLWestern Asset Global Multi-Sector Bond Fund	Viking Ocean Cruises Ship VII Ltd	2/15/2029	5.63	Fixed Income	1,050,000	1,054,835	0.289%
JNLWestern Asset Global Multi-Sector Bond Fund	Prosus N.V.	28/0/2051	3.83	Fixed Income	2,770,000	1,959,839	0.537%
JNLWestern Asset Global Multi-Sector Bond Fund	Kaifanagang	9/26/2027	4.16	Fixed Income	2,580,000	2,161,620	0.589%
JNLWestern Asset Global Multi-Sector Bond Fund	B3 S.A. - Brasil, Bolsa, Balcão	9/20/2031	4.13	Fixed Income	2,160,000	1,975,149	0.541%
JNLWestern Asset Global Multi-Sector Bond Fund	Petrobras do Peru - Petroperu S.A.	6/19/2047	5.63	Fixed Income	1,200,000	837,760	0.230%
JNLWestern Asset Global Multi-Sector Bond Fund	Diversified Healthcare Trust	6/15/2025	9.75	Fixed Income	766,000	787,904	0.216%
JNLWestern Asset Global Multi-Sector Bond Fund	Southern Natural Gas Company, L.L.C.	3/1/2032	8.00	Fixed Income	300,000	283,933	0.078%
JNLWestern Asset Global Multi-Sector Bond Fund	Cooperatieve Rabobank U.A.	4/6/2028	3.65	Fixed Income	500,000	499,942	0.137%
JNLWestern Asset Global Multi-Sector Bond Fund	Allianz SE	1/1/2200	3.20	Fixed Income	2,200,000	1,916,875	0.525%
JNLWestern Asset Global Multi-Sector Bond Fund	HSBC Holdings PLC	1/1/2200	6.38	Fixed Income	2,800,000	2,803,993	0.768%
JNLWestern Asset Global Multi-Sector Bond Fund	BNP Paribas	1/1/2200	7.38	Fixed Income	2,730,000	2,187,651	0.597%
JNLWestern Asset Global Multi-Sector Bond Fund	Glencore Finance (Canada) Limited	11/15/2041	6.00	Fixed Income	1,400,000	1,497,791	0.410%
JNLWestern Asset Global Multi-Sector Bond Fund	RIAL 2022-FL8 D	1/19/2037	9.65	Fixed Income	1,000,000	947,392	0.260%
JNLWestern Asset Global Multi-Sector Bond Fund	JPMorgan Chase Bank, N.A.	4/15/2037	7.26	Fixed Income	566,242	514,330	0.141%
JNLWestern Asset Global Multi-Sector Bond Fund	VZ Secured Financing B.V.	11/15/2032	5.00	Fixed Income	2,000,000	1,860,713	0.506%
JNLWestern Asset Global Multi-Sector Bond Fund	BX Trust 2021-SDM	9/15/2034	7.15	Fixed Income	1,177,400	1,137,028	0.312%
JNLWestern Asset Global Multi-Sector Bond Fund	Cooperatieve Rabobank U.A.	1/1/2200	3.25	Fixed Income	1,200,000	1,269,935	0.348%
JNLWestern Asset Global Multi-Sector Bond Fund	Federal Home Loan Mortgage Corporation	10/25/2050	9.87	Fixed Income	910,000	1,045,011	0.286%
JNLWestern Asset Global Multi-Sector Bond Fund	Federal Home Loan Mortgage Corporation	7/25/2056	4.00	Fixed Income	52,027	51,899	0.014%
JNLWestern Asset Global Multi-Sector Bond Fund	Anglo Oak Mortgage Trust 2022-3	4/25/2026	4.38	Fixed Income	935,188	899,729	0.247%
JNLWestern Asset Global Multi-Sector Bond Fund	Galwick Airport Finance PLC	4/7/2026	4.38	Fixed Income	1,700,000	2,269,719	0.622%
JNLWestern Asset Global Multi-Sector Bond Fund	Loxama	7/15/2026	3.75	Fixed Income	1,140,000	1,276,307	0.350%
JNLWestern Asset Global Multi-Sector Bond Fund	Whitbread PLC	5/31/2027	2.38	Fixed Income	2,340,000	2,933,790	0.804%
JNLWestern Asset Global Multi-Sector Bond Fund	Vertical Motor GmbH	1/15/2027	4.38	Fixed Income	1,180,000	1,311,127	0.359%
JNLWestern Asset Global Multi-Sector Bond Fund	TMNL Holding B.V.	11/15/2029	3.75	Fixed Income	1,220,000	1,339,869	0.367%
JNLWestern Asset Global Multi-Sector Bond Fund	United Group B.V.	2/1/2030	5.25	Fixed Income	1,280,000	1,410,515	0.387%
JNLWestern Asset Global Multi-Sector Bond Fund	VMEI DCL UK Financing I PLC	7/15/2031	5.50	Fixed Income	1,080,000	1,256,744	0.344%
JNLWestern Asset Global Multi-Sector Bond Fund	NextWest Group PLC	1/1/2200	1.78	Fixed Income	1,060,000	1,068,163	0.290%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	5/15/2032	2.88	Fixed Income	8,500,000	8,130,117	2.228%
JNLWestern Asset Global Multi-Sector Bond Fund	Goodgreen 2021-1 Trust	10/15/2056	3.01	Fixed Income	487,891	413,212	0.113%
JNLWestern Asset Global Multi-Sector Bond Fund	Carnival Corporation	6/1/2030	10.50	Fixed Income	1,140,000	1,277,988	0.350%
JNLWestern Asset Global Multi-Sector Bond Fund	HWY 2021-LW LLC	1/22/2041	1.94	Fixed Income	413,610	368,160	0.100%
JNLWestern Asset Global Multi-Sector Bond Fund	College Ave Student Loans 2021-B, LLC	6/25/2052	3.78	Fixed Income	1,069,495	979,769	0.268%
JNLWestern Asset Global Multi-Sector Bond Fund	Urzard Rady Ministrow	4/25/2032	1.75	Fixed Income	36,060,000	7,510,142	2.058%
JNLWestern Asset Global Multi-Sector Bond Fund	Nordea Bank Abp	1/1/2200	3.50	Fixed Income	1,100,000	1,237,181	0.339%
JNLWestern Asset Global Multi-Sector Bond Fund	Lloyds Banking Group PLC	8/11/2026	4.72	Fixed Income	2,630,000	2,442,712	0.674%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	8/15/2052	3.00	Fixed Income	750,000	605,686	0.166%
JNLWestern Asset Global Multi-Sector Bond Fund	AT&T Inc.	12/4/2026	2.90	Fixed Income	2,070,000	2,734,468	0.749%
JNLWestern Asset Global Multi-Sector Bond Fund	Telecom Italia S.p.A.	10/12/2027	3.38	Fixed Income	1,750,000	1,918,706	0.526%
JNLWestern Asset Global Multi-Sector Bond Fund	Enel Finance International N.V.	10/14/2025	6.80	Fixed Income	2,040,000	2,153,232	0.589%
JNLWestern Asset Global Multi-Sector Bond Fund	CPUK Mortgage Finance Limited	8/26/2035	3.59	Fixed Income	2,010,000	2,662,478	0.727%
JNLWestern Asset Global Multi-Sector Bond Fund	Enterprise Products Operating LLC	2/1/2049	4.80	Fixed Income	1,440,000	1,359,321	0.373%
JNLWestern Asset Global Multi-Sector Bond Fund	Morgan Stanley	11/18/2033	5.79	Fixed Income	1,000,000	1,469,854	0.403%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	11/15/2032	4.13	Fixed Income	1,970,000	2,057,332	0.564%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	11/15/2042	4.00	Fixed Income	2,948,000	2,948,728	0.802%
JNLWestern Asset Global Multi-Sector Bond Fund	Ecopetrol S.A.	11/3/2033	8.88	Fixed Income	1,030,000	1,132,729	0.308%
JNLWestern Asset Global Multi-Sector Bond Fund	Versaure Holding AB	2/1/2028	7.13	Fixed Income	1,330,000	1,554,098	0.426%
JNLWestern Asset Global Multi-Sector Bond Fund	Wells Fargo & Company	1/1/2200	5.88	Fixed Income	1,510,000	1,523,342	0.417%
JNLWestern Asset Global Multi-Sector Bond Fund	RIAL2024/2025 (South Africa) Ltd	5/7/2049	8.00	Fixed Income	4,042,017	7	0.000%
JNLWestern Asset Global Multi-Sector Bond Fund	Edcom Holdings Ltd.			Equity	124,902,461		
JNLWestern Asset Global Multi-Sector Bond Fund	Edcom Holdings Ltd.			Equity	14,398,939	1	0.000%
JNLWestern Asset Global Multi-Sector Bond Fund	Continental Resources, Inc.	6/1/2044	4.90	Fixed Income	2,830,000	2,453,221	0.672%
JNLWestern Asset Global Multi-Sector Bond Fund	Goldman Sachs Group, Inc., The	1/1/2200	6.04	Fixed Income	1,560,000	1,460,260	0.399%
JNLWestern Asset Global Multi-Sector Bond Fund	Sprint Capital Corporation	3/15/2032	8.75	Fixed Income	2,000,000	2,491,674	0.683%
JNLWestern Asset Global Multi-Sector Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	12/5/2024	10.00	Fixed Income	13,340,000	698,572	0.191%
JNLWestern Asset Global Multi-Sector Bond Fund	Presidencia da Republica	1/1/2025	10.00	Fixed Income	23,220,000	437,251	0.119%
JNLWestern Asset Global Multi-Sector Bond Fund	Western Midstream Operating, LP	6/1/2025	8.10	Fixed Income	210,000	713,048	0.195%
JNLWestern Asset Global Multi-Sector Bond Fund	CSC Holdings, LLC	2/1/2029	6.50	Fixed Income	2,500,000	2,095,108	0.574%
JNLWestern Asset Global Multi-Sector Bond Fund	Devon Energy Corporation	12/15/2025	5.85	Fixed Income	870,000	893,312	0.245%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	2/15/2026	1.63	Fixed Income	8,430,000	8,201,181	2.247%
JNLWestern Asset Global Multi-Sector Bond Fund	Teva Pharmaceutical Finance Netherlands III B.V.	10/1/2026	3.15	Fixed Income	2,200,000	2,149,172	0.589%
JNLWestern Asset Global Multi-Sector Bond Fund	Presidencia da Republica	1/1/2027	10.00	Fixed Income	3,000,000	541,158	0.148%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	11/15/2026	2.00	Fixed Income	11,610,000	11,309,497	3.099%
JNLWestern Asset Global Multi-Sector Bond Fund	The Republic of Indonesia, The Government of	5/15/2027	7.00	Fixed Income	9,470,000,000	653,605	0.179%
JNLWestern Asset Global Multi-Sector Bond Fund	Wing Chun United	9/15/2027	5.88	Fixed Income	1,000,000	1,000,891	0.274%
JNLWestern Asset Global Multi-Sector Bond Fund	NGPL PipeCo LLC	8/15/2027	4.38	Fixed Income	1,150,000	1,159,596	0.318%
JNLWestern Asset Global Multi-Sector Bond Fund	VOC Escrow Ltd.	2/15/2028	5.00	Fixed Income	1,860,000	1,848,824	0.507%
JNLWestern Asset Global Multi-Sector Bond Fund	Joint Stock Company National Company Kazmunaygas	4/24/2030	5.38	Fixed Income	980,000	1,010,941	0.277%
JNLWestern Asset Global Multi-Sector Bond Fund	BBVA Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero BBVA Mexico	11/18/2033	5.13	Fixed Income	2,980,000	2,864,594	0.785%
JNLWestern Asset Global Multi-Sector Bond Fund	Rockies Express Pipeline L.L.C.	4/15/2040	6.88	Fixed Income	1,430,000	1,440,793	0.395%
JNLWestern Asset Global Multi-Sector Bond Fund	South Africa, Parliament of	2/28/2041	6.50	Fixed Income	121,850,000	4,913,711	1.347%
JNLWestern Asset Global Multi-Sector Bond Fund	Departamento Administrativo De La Presidencia De La Republica	2/26/2044	5.63	Fixed Income	2,250,000	1,826,444	0.501%
JNLWestern Asset Global Multi-Sector Bond Fund	Devon Energy Corporation	6/15/2045	5.00	Fixed Income	470,000	427,065	0.117%
JNLWestern Asset Global Multi-Sector Bond Fund	Freeport-McMoran Inc.	3/15/2043	5.45	Fixed Income	1,140,000	1,138,511	0.312%
JNLWestern Asset Global Multi-Sector Bond Fund	Gobierno Federal de los Estados Unidos Mexicanos	6/3/2027	7.50	Fixed Income	235,910,000	11,815,181	3.238%
JNLWestern Asset Global Multi-Sector Bond Fund	Alice France Holding S.A.	2/1/2027	8.13	Fixed Income	820,000	676,758	0.185%
JNLWestern Asset Global Multi-Sector Bond Fund	Nigeria, Federal Government of	11/28/2027	6.50	Fixed Income	1,010,000	968,090	0.265%
JNLWestern Asset Global Multi-Sector Bond Fund	Triunvirato Packaging Finance B.V.	8/15/2026	5.50	Fixed Income	1,400,000	1,402,882	0.384%
JNLWestern Asset Global Multi-Sector Bond Fund	Adhaghi Packaging Finance Public Limited Company	8/15/2027	5.25	Fixed Income	1,503,000	1,099,526	0.301%
JNLWestern Asset Global Multi-Sector Bond Fund	Occidental Petroleum Corporation	8/15/2029	3.50	Fixed Income	1,000,000	944,457	0.259%
JNLWestern Asset Global Multi-Sector Bond Fund	Suzano Austria GmbH	11/15/2030	5.00	Fixed Income	950,000	960,068	0.263%
JNLWestern Asset Global Multi-Sector Bond Fund	The Cigna Group	8/15/2038	4.90	Fixed Income	1,620,000	1,590,038	0.437%
JNLWestern Asset Global Multi-Sector Bond Fund	Nexstar Broadcasting, Inc.	7/15/2026	7.86	Fixed Income	1,425,511	1,424,467	0.390%
JNLWestern Asset Global Multi-Sector Bond Fund	South Africa, Parliament of	9/30/2049	5.75	Fixed Income	4,030,000	3,345,540	0.917%
JNLWestern Asset Global Multi-Sector Bond Fund	Netflix, Inc.	6/15/2030	4.88	Fixed Income	1,830,000	1,914,73	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWestern Asset Global Multi-Sector Bond Fund	Teva Pharmaceutical Finance Netherlands III B.V.	9/15/2031	8.13	Fixed Income	520,000	598,107	0.164%
JNLWestern Asset Global Multi-Sector Bond Fund	Allico Financing S.A.	1/15/2025	2.25	Fixed Income	1,420,000	1,582,114	0.428%
JNLWestern Asset Global Multi-Sector Bond Fund	Sedgwick Claims Management Services, Inc.	2/16/2028	8.25	Fixed Income	2,449,612	2,478,914	0.679%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	3/31/2028	3.63	Fixed Income	5,350,000	5,361,400	1.469%
JNLWestern Asset Global Multi-Sector Bond Fund	Wells Fargo & Company	4/24/2034	5.39	Fixed Income	780,000	828,323	0.227%
JNLWestern Asset Global Multi-Sector Bond Fund	Bank of America Corporation	4/25/2034	5.29	Fixed Income	660,000	701,465	0.192%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	5/15/2053	3.63	Fixed Income	1,170,000	1,080,720	0.296%
JNLWestern Asset Global Multi-Sector Bond Fund	IPD 3 B.V.	6/15/2028	8.00	Fixed Income	260,000	312,703	0.086%
JNLWestern Asset Global Multi-Sector Bond Fund	Peu (Fin) PLC	7/1/2028	7.25	Fixed Income	430,000	506,715	0.139%
JNLWestern Asset Global Multi-Sector Bond Fund	Connecticut Avenue Securities Trust 2019-R06	6/25/2029	8.38	Fixed Income	670,000	702,872	0.193%
JNLWestern Asset Global Multi-Sector Bond Fund	Cornwall EREIT Lue Finco S a r l	11/19/2025	2.13	Fixed Income	361,000	398,421	0.109%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	8/15/2043	4.38	Fixed Income	5,381,000	5,564,089	1.525%
JNLWestern Asset Global Multi-Sector Bond Fund	Nidda Healthcare Holding GmbH	8/21/2026	7.50	Fixed Income	1,200,000	1,420,329	0.389%
JNLWestern Asset Global Multi-Sector Bond Fund	Banjay Entertainment	5/1/2029	7.00	Fixed Income	590,000	709,235	0.194%
JNLWestern Asset Global Multi-Sector Bond Fund	Federal Home Loan Mortgage Corporation	9/25/2042	11.03	Fixed Income	420,000	467,516	0.128%
JNLWestern Asset Global Multi-Sector Bond Fund	European Bank for Reconstruction and Development	10/26/2027	6.30	Fixed Income	311,600,000	3,905,564	1.070%
JNLWestern Asset Global Multi-Sector Bond Fund	International Bank for Reconstruction and Development	7/13/2029	6.75	Fixed Income	324,200,000	3,930,671	1.077%
JNLWestern Asset Global Multi-Sector Bond Fund	GTCR W-2 Merger Sub LLC	1/15/2031	7.50	Fixed Income	790,000	860,003	0.236%
JNLWestern Asset Global Multi-Sector Bond Fund	GTCR W-2 Merger Sub LLC	1/15/2031	8.50	Fixed Income	140,000	205,738	0.056%
JNLWestern Asset Global Multi-Sector Bond Fund	Pinnacle Bidco PLC	10/11/2028	10.00	Fixed Income	700,000	1,034,971	0.284%
JNLWestern Asset Global Multi-Sector Bond Fund	Peu (Fin) PLC	7/1/2028	7.25	Fixed Income	470,000	553,852	0.152%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	9/30/2030	4.63	Fixed Income	1,230,000	1,295,500	0.355%
JNLWestern Asset Global Multi-Sector Bond Fund	Puget Finance B.V.	1/31/2028	9.06	Fixed Income	699,368	709,117	0.194%
JNLWestern Asset Global Multi-Sector Bond Fund	Federal Home Loan Mortgage Corporation	7/25/2058	4.75	Fixed Income	779,786	758,778	0.208%
JNLWestern Asset Global Multi-Sector Bond Fund	Celtnex Telecom, S.A.	2/15/2033	2.00	Fixed Income	2,200,000	2,196,135	0.602%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	11/15/2053	4.75	Fixed Income	240,000	269,431	0.074%
JNLWestern Asset Global Multi-Sector Bond Fund	Connecticut Avenue Securities Trust 2023-R02	9/30/2029	4.00	Fixed Income	1,398,000	1,598,713	0.438%
JNLWestern Asset Global Multi-Sector Bond Fund	Connecticut Avenue Securities Trust 2021-R03	12/25/2041	8.03	Fixed Income	750,000	767,098	0.210%
JNLWestern Asset Global Multi-Sector Bond Fund	Venus Securitization Trust 2022-4	4/25/2067	4.47	Fixed Income	806,620	810,489	0.222%
JNLWestern Asset Global Multi-Sector Bond Fund	Arby's Funding, LLC	7/30/2027	3.24	Fixed Income	1,248,000	1,194,199	0.327%
JNLWestern Asset Global Multi-Sector Bond Fund	Neighbory Issuer 2023-1	4/29/2028	7.31	Fixed Income	1,310,050	1,361,689	0.372%
JNLWestern Asset Global Multi-Sector Bond Fund	CU Funding VI LLC	9/18/2030	3.82	Fixed Income	1,365,401	1,369,760	0.369%
JNLWestern Asset Global Multi-Sector Bond Fund	Servicemaster Brands L.L.C.	7/30/2031	3.11	Fixed Income	961,005	831,467	0.228%
JNLWestern Asset Global Multi-Sector Bond Fund	CSAA, 2016-C7 Commercial Mortgage Trust	11/18/2026	4.52	Fixed Income	930,000	844,143	0.231%
JNLWestern Asset Global Multi-Sector Bond Fund	GBX 2024-NOM1 Trust	12/25/2027	5.93	Fixed Income	830,571	843,057	0.231%
JNLWestern Asset Global Multi-Sector Bond Fund	CPM88 Commercial Mortgage Securities Trust 2015-C30	7/17/2025	4.13	Fixed Income	1,040,000	1,078,238	0.293%
JNLWestern Asset Global Multi-Sector Bond Fund	Energy Transfer LP	5/15/2054	8.00	Fixed Income	380,000	418,797	0.115%
JNLWestern Asset Global Multi-Sector Bond Fund	Ceasars Entertainment, Inc.	2/15/2032	6.50	Fixed Income	1,230,000	1,282,419	0.351%
JNLWestern Asset Global Multi-Sector Bond Fund	Goldstory	9/1/2030	8.00	Fixed Income	680,000	780,065	0.214%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	12/31/2029	4.92	Fixed Income	730,000	7,473,515	2.048%
JNLWestern Asset Global Multi-Sector Bond Fund	Kenya, Government of	2/16/2031	9.75	Fixed Income	940,000	959,881	0.263%
JNLWestern Asset Global Multi-Sector Bond Fund	Royal Caribbean Cruises Ltd.	3/15/2032	6.25	Fixed Income	500,000	520,097	0.143%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	2/15/2044	4.50	Fixed Income	3,680,000	3,861,000	1.058%
JNLWestern Asset Global Multi-Sector Bond Fund	Pinecroft Finco PLC	3/27/2030	6.00	Fixed Income	1,140,000	1,527,368	0.418%
JNLWestern Asset Global Multi-Sector Bond Fund	Air Lease Corporation	5/15/2030	3.70	Fixed Income	1,460,000	1,657,802	0.454%
JNLWestern Asset Global Multi-Sector Bond Fund	CT Investment GmbH	4/15/2030	6.38	Fixed Income	420,000	492,716	0.135%
JNLWestern Asset Global Multi-Sector Bond Fund	Alterra Mountain Company	8/17/2028	8.50	Fixed Income	2,443,624	2,446,202	0.670%
JNLWestern Asset Global Multi-Sector Bond Fund	Boels Topholding B.V.	5/15/2030	5.75	Fixed Income	660,000	770,362	0.209%
JNLWestern Asset Global Multi-Sector Bond Fund	Treasury, United States Department of	4/30/2029	4.63	Fixed Income	1,130,000	1,201,838	0.329%
JNLWestern Asset Global Multi-Sector Bond Fund	Pan American Energy S.L.	4/30/2032	8.50	Fixed Income	1,100,000	1,201,843	0.329%
JNLWestern Asset Global Multi-Sector Bond Fund	API Group DE, Inc.	1/3/2029	7.25	Fixed Income	1,498,522	1,487,182	0.408%
JNLWestern Asset Global Multi-Sector Bond Fund	Energy Transfer LP	9/1/2034	5.60	Fixed Income	1,440,000	1,505,609	0.413%
JNLWestern Asset Global Multi-Sector Bond Fund	IPD 3 B.V.	6/15/2031	7.09	Fixed Income	370,000	413,574	0.113%
JNLWestern Asset Global Multi-Sector Bond Fund	Aeropuertos Dominicanos Siglo XXI	6/30/2034	7.00	Fixed Income	580,000	616,285	0.169%
JNLWestern Asset Global Multi-Sector Bond Fund	Ray Financing LLC	7/15/2031	6.50	Fixed Income	650,000	746,590	0.205%
JNLWestern Asset Global Multi-Sector Bond Fund	B&M European Value Retail S.A.	11/15/2028	4.00	Fixed Income	1,090,000	1,374,157	0.377%
JNLWestern Asset Global Multi-Sector Bond Fund	AerCap Ireland Capital Designated Activity Company	3/10/2055	6.95	Fixed Income	900,000	945,816	0.259%
JNLWestern Asset Global Multi-Sector Bond Fund	Telecom Argentina SA	7/18/2031	9.50	Fixed Income	1,100,000	1,157,043	0.317%
JNLWestern Asset Global Multi-Sector Bond Fund	Affleou	7/25/2029	6.00	Fixed Income	230,000	265,732	0.073%
JNLWestern Asset Global Multi-Sector Bond Fund	TeamSystem S.p.A.	7/31/2031	7.19	Fixed Income	780,000	861,849	0.242%
JNLWestern Asset Global Multi-Sector Bond Fund	Occidental Petroleum Corporation	1/1/2032	5.38	Fixed Income	520,000	532,225	0.146%
JNLWestern Asset Global Multi-Sector Bond Fund	Devon Energy Corporation	9/15/2034	5.20	Fixed Income	1,440,000	1,441,977	0.395%
JNLWestern Asset Global Multi-Sector Bond Fund	Kroger Co., The	9/15/2034	5.00	Fixed Income	380,000	384,484	0.105%
JNLWestern Asset Global Multi-Sector Bond Fund	Pampa Energia S.A.	9/10/2031	7.95	Fixed Income	610,000	622,591	0.171%
JNLWestern Asset Global Multi-Sector Bond Fund	Arcelis Finance	9/25/2029	4.75	Fixed Income	310,000	349,572	0.096%
JNLWestern Asset Global Multi-Sector Bond Fund	Accor	10/15/2029	6.38	Fixed Income	180,000	207,780	0.057%
Total Non Derivatives						364,550,676	
Derivatives							
JNLWestern Asset Global Multi-Sector Bond Fund	Bought AUD / Sold USD			Derivative		88,417	0.024%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought EUR / Sold USD			Derivative		19,427	0.005%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought EUR / Sold USD			Derivative		(6,393)	-0.002%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought JPY / Sold USD			Derivative		1,095,094	0.300%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought PLN / Sold EUR			Derivative		1,505,609	0.418%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought TRY / Sold USD			Derivative		13,473	0.004%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold MXN			Derivative		522,371	0.143%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold GBP			Derivative		(932,806)	-0.256%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold ZAR			Derivative		(121,749)	-0.033%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold PLN			Derivative		(73,170)	-0.020%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold CNH			Derivative		(129,995)	-0.036%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold TWD			Derivative		(115,759)	-0.032%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold EUR			Derivative		(921,260)	-0.252%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold EUR			Derivative		(13,617)	-0.004%
JNLWestern Asset Global Multi-Sector Bond Fund	Bought USD / Sold JPY			Derivative		91,454	0.025%
JNLWestern Asset Global Multi-Sector Bond Fund	United States 5 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	540	85,924	0.024%
JNLWestern Asset Global Multi-Sector Bond Fund	Long Gilt FUTURE - PHYSICALLY DELIVERED			Derivative	64	(36,042)	-0.010%
JNLWestern Asset Global Multi-Sector Bond Fund	Euro Bund FUTURE - PHYSICALLY DELIVERED			Derivative	237	535,348	0.147%
JNLWestern Asset Global Multi-Sector Bond Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-382	270,637	0.074%
JNLWestern Asset Global Multi-Sector Bond Fund	United States Long Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-10	(2,205)	-0.001%
JNLWestern Asset Global Multi-Sector Bond Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-97	(5,268)	-0.001%
JNLWestern Asset Global Multi-Sector Bond Fund	United States Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-3	1,364	0.001%
Total Derivatives						366,181	
Total All Investments						364,916,857	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWilliam Blar International Leaders Fund	Cash			Cash Equivalent	2,005	2,005	0.000%
JNLWilliam Blar International Leaders Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	30,841,647	30,810,043	2.733%
JNLWilliam Blar International Leaders Fund	Trip.com Group Limited			Equity	207,100	12,458,226	1.102%
JNLWilliam Blar International Leaders Fund	Atlas Copco Aktiebolag			Equity	1,078,451	20,846,205	1.843%
JNLWilliam Blar International Leaders Fund	Haleon PLC			Equity	3,466,352	18,239,020	1.613%
JNLWilliam Blar International Leaders Fund	TAU Umbilanco Holding SA			Equity	2,038,805	13,664,188	1.208%
JNLWilliam Blar International Leaders Fund	BAE Systems PLC			Equity	1,210,509	20,071,882	1.775%
JNLWilliam Blar International Leaders Fund	AstraZeneca PLC			Equity	168,486	26,282,937	2.324%
JNLWilliam Blar International Leaders Fund	Kingspan Group Public Limited Company			Equity	151,758	14,299,488	1.264%
JNLWilliam Blar International Leaders Fund	Infineon Technologies AG			Equity	304,987	10,713,091	0.947%
JNLWilliam Blar International Leaders Fund	SAP SE			Equity	104,818	23,950,003	2.118%
JNLWilliam Blar International Leaders Fund	Thales			Equity	83,635	13,307,930	1.177%
JNLWilliam Blar International Leaders Fund	Schneider Electric SE			Equity	93,831	24,736,026	2.187%
JNLWilliam Blar International Leaders Fund	LVMH Moët Hennessy Louis Vuitton			Equity	16,316	12,507,428	1.106%
JNLWilliam Blar International Leaders Fund	Airbus SE			Equity	68,340	10,003,802	0.885%
JNLWilliam Blar International Leaders Fund	ITOCHU Corporation			Equity	178,400	9,724,783	0.860%
JNLWilliam Blar International Leaders Fund	Keyence Corporation			Equity	32,900	15,745,237	1.392%
JNLWilliam Blar International Leaders Fund	SK Hynix Inc.			Equity	94,261	12,694,939	1.123%
JNLWilliam Blar International Leaders Fund	Hindustan Unilever Limited			Equity	363,778	12,850,599	1.136%
JNLWilliam Blar International Leaders Fund	Hoya Corporation			Equity	194,600	26,941,763	2.382%
JNLWilliam Blar International Leaders Fund	MediaTek Inc.			Equity	408,000	15,235,835	1.347%
JNLWilliam Blar International Leaders Fund	Chuang Pharmaceutical Co., Ltd.			Equity	372,700	18,187,680	1.608%
JNLWilliam Blar International Leaders Fund	Reliance Industries Limited			Equity	781,634	27,590,560	2.440%
JNLWilliam Blar International Leaders Fund	Tokio Marine Holdings, Inc.			Equity	530,000	19,679,650	1.740%
JNLWilliam Blar International Leaders Fund	Sumitomo Mitsui Financial Group, Inc.			Equity	572,400	12,426,092	1.099%
JNLWilliam Blar International Leaders Fund	Safran			Equity	83,239	19,602,647	1.733%
JNLWilliam Blar International Leaders Fund	ABB Ltd			Equity	317,854	18,442,514	1.631%
JNLWilliam Blar International Leaders Fund	Tokyo Electron Limited			Equity	78,900	14,151,028	1.251%
JNLWilliam Blar International Leaders Fund	Lonza Group AG			Equity	34,627	21,940,160	1.940%
JNLWilliam Blar International Leaders Fund	Samsung Electronics Co., Ltd.			Equity	385,420	17,200,475	1.521%
JNLWilliam Blar International Leaders Fund	Taiwan Semiconductor Manufacturing Company Limited			Equity	1,222,000	37,205,412	3.280%
JNLWilliam Blar International Leaders Fund	Shin-Etsu Chemical Co., Ltd.			Equity	336,700	14,215,567	1.257%
JNLWilliam Blar International Leaders Fund	Intact Financial Corporation			Equity	111,900	21,487,249	1.900%
JNLWilliam Blar International Leaders Fund	Experian PLC			Equity	340,390	17,938,943	1.586%
JNLWilliam Blar International Leaders Fund	Merck&L, Inc.			Equity	12,288	25,214,484	2.230%
JNLWilliam Blar International Leaders Fund	VINCI			Equity	117,384	13,721,467	1.213%
JNLWilliam Blar International Leaders Fund	Partners Group Holding AG			Equity	11,582	17,398,965	1.539%
JNLWilliam Blar International Leaders Fund	Constellation Software Inc.			Equity	6,070	22,682,918	2.006%
JNLWilliam Blar International Leaders Fund	Symrise AG			Equity	58,082	8,023,883	0.710%
JNLWilliam Blar International Leaders Fund	3i Group PLC			Equity	424,854	18,824,574	1.665%
JNLWilliam Blar International Leaders Fund	London Stock Exchange Group PLC			Equity	195,462	26,692,278	2.360%
JNLWilliam Blar International Leaders Fund	Relx PLC			Equity	354,953	16,748,800	1.481%
JNLWilliam Blar International Leaders Fund	Daichi Sankyo Company, Limited			Equity	545,100	18,023,421	1.594%
JNLWilliam Blar International Leaders Fund	DSV A/S			Equity	53,455	11,028,159	0.975%
JNLWilliam Blar International Leaders Fund	TotalEnergies SE			Equity	329,385	21,722,914	1.921%
JNLWilliam Blar International Leaders Fund	Dollarama Inc.			Equity	182,255	18,669,531	1.651%
JNLWilliam Blar International Leaders Fund	Amadeus IT Holding, S.A.			Equity	260,933	18,843,992	1.666%
JNLWilliam Blar International Leaders Fund	Ferrari N.V.			Equity	35,013	16,459,961	1.456%
JNLWilliam Blar International Leaders Fund	ASML Holding N.V.			Equity	29,504	24,647,533	2.180%
JNLWilliam Blar International Leaders Fund	Icon Public Limited Company			Equity	79,018	22,702,662	2.008%
JNLWilliam Blar International Leaders Fund	Compass Group PLC			Equity	827,563	26,546,350	2.347%
JNLWilliam Blar International Leaders Fund	KICICI Bank Limited			Equity	1,037,019	15,753,080	1.393%
JNLWilliam Blar International Leaders Fund	Moncler S.p.A.			Equity	20,574	1,308,109	0.116%
JNLWilliam Blar International Leaders Fund	Sika AG			Equity	56,902	18,882,029	1.670%
JNLWilliam Blar International Leaders Fund	Shopee Inc.			Equity	160,715	12,879,700	1.139%
JNLWilliam Blar International Leaders Fund	Industria de Diseño Textil, S.A.			Equity	395,460	23,415,124	2.071%
JNLWilliam Blar International Leaders Fund	BE Semiconductor Industries N.V.			Equity	25,662	3,261,825	0.288%
JNLWilliam Blar International Leaders Fund	HDFC Bank Limited			Equity	1,001,949	20,605,513	1.822%
JNLWilliam Blar International Leaders Fund	Malma Public Limited Company			Equity	361,230	12,629,971	1.117%
JNLWilliam Blar International Leaders Fund	Lindo Public Limited Company			Equity	39,763	18,961,384	1.677%
JNLWilliam Blar International Leaders Fund	Canadian Pacific Kansas City Limited			Equity	127,411	10,916,636	0.965%
JNLWilliam Blar International Leaders Fund	Novo Nordisk A/S			Equity	319,671	37,881,245	3.350%
JNLWilliam Blar International Leaders Fund	Sandoz Group AG			Equity	506,736	21,144,696	1.870%
Total Non Derivatives						1,130,848,110	
Derivatives							
Total Derivatives						0	
Total All Investments						1,130,848,110	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWMC Balanced Fund	Cash			Cash Equivalent	25.223	25.223	0.009%
JNLWMC Balanced Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	253,611.358	254,423,030	2.877%
JNLWMC Balanced Fund	Sutter Health	8/15/2030	2.29	Fixed Income	820,000	736.176	0.008%
JNLWMC Balanced Fund	WEA Finance LLC	1/15/2027	2.88	Fixed Income	855,000	822.479	0.009%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2050	2.00	Fixed Income	19,127,030	16,450,569	0.178%
JNLWMC Balanced Fund	Castlelake Aircraft Structured Trust 2021-1	11/15/2028	3.47	Fixed Income		434.187	0.004%
JNLWMC Balanced Fund	Government National Mortgage Association	1/20/2051	2.00	Fixed Income	4,254,405	3,617.873	0.038%
JNLWMC Balanced Fund	SCE Recovery Funding LLC	5/15/2038	1.94	Fixed Income	1,050,000	824.077	0.009%
JNLWMC Balanced Fund	SCE Recovery Funding LLC	11/15/2043	2.51	Fixed Income	605,000	440.580	0.005%
JNLWMC Balanced Fund	SCE Recovery Funding LLC	11/15/2031	0.86	Fixed Income	1,795,221	1,605.829	0.017%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2054	3.00	Fixed Income	9,566,000	8,585.485	0.090%
JNLWMC Balanced Fund	CF Hippolyta Issuer LLC	3/15/2026	1.53	Fixed Income	7,073,069	6,652.533	0.070%
JNLWMC Balanced Fund	CF Hippolyta Issuer LLC	3/15/2026	1.98	Fixed Income	819,929	754.893	0.008%
JNLWMC Balanced Fund	Crack Corporation	3/25/2041	3.65	Fixed Income		11,567.000	0.122%
JNLWMC Balanced Fund	Ford Credit Auto Owner Trust 2021-REV1	4/15/2026	1.61	Fixed Income	1,390,000	1,322.729	0.014%
JNLWMC Balanced Fund	Ford Credit Auto Owner Trust 2021-REV1	4/15/2026	1.91	Fixed Income	1,165,000	1,109.005	0.012%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2054	3.50	Fixed Income	17,695,000	16,532.987	0.175%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	9/25/2060	2.50	Fixed Income	10,593,305	8,912.008	0.094%
JNLWMC Balanced Fund	Government National Mortgage Association	12/20/2050	2.00	Fixed Income	16,159,064	13,721.192	0.144%
JNLWMC Balanced Fund	SBA Towers, LLC	5/15/2051	1.63	Fixed Income	2,570,000	2,405.734	0.025%
JNLWMC Balanced Fund	UBS Group AG	5/14/2032	3.09	Fixed Income	2,068,000	1,889.420	0.020%
JNLWMC Balanced Fund	Ginnie Mae II	3/20/2051	2.50	Fixed Income	3,987.357	3,523.448	0.037%
JNLWMC Balanced Fund	Treasury, United States Department of	5/31/2026	0.75	Fixed Income	1,245,000	1,189.001	0.013%
JNLWMC Balanced Fund	Treasury, United States Department of	6/30/2028	1.25	Fixed Income	2,060,000	1,899.132	0.020%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2054	4.50	Fixed Income	-8,812,000	(8,668.460)	-0.091%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2039	4.50	Fixed Income	16,459,000	(16,510.134)	-0.174%
JNLWMC Balanced Fund	Ashlead Capital, Inc.	8/12/2031	2.45	Fixed Income	11,939,000	10,192.817	0.107%
JNLWMC Balanced Fund	Ginnie Mae II	7/20/2051	3.00	Fixed Income	15,511.797	14,197.943	0.149%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2054	2.00	Fixed Income	-25,292,000	(20,929.130)	-0.220%
JNLWMC Balanced Fund	Ginnie Mae II	8/20/2051	2.50	Fixed Income	15,374.785	13,574.518	0.043%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2050	5.00	Fixed Income	33,284,000	33,345.378	0.351%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2041	1.75	Fixed Income	2,495,000	1,773.908	0.019%
JNLWMC Balanced Fund	AT&T Inc.	9/15/2053	3.50	Fixed Income	6,005,000	4,422.990	0.047%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2054	3.00	Fixed Income	8,774,000	8,001.643	0.084%
JNLWMC Balanced Fund	Flagstar Mortgage Trust 2013-0NRY	10/1/2050	2.00	Fixed Income	2,092.439	1,659.428	0.017%
JNLWMC Balanced Fund	Flagstar Mortgage Trust 2018-3	5/25/2038	4.00	Fixed Income	1,340.679	1,275.585	0.013%
JNLWMC Balanced Fund	Ginnie Mae II	10/20/2051	2.50	Fixed Income	9,141.680	8,072.836	0.085%
JNLWMC Balanced Fund	Treasury, United States Department of	9/30/2026	0.88	Fixed Income	10,525,000	9,969.401	0.105%
JNLWMC Balanced Fund	Golden State Tobacco Securitization Corporation	8/1/2046	3.00	Fixed Income	665,000	519.719	0.006%
JNLWMC Balanced Fund	BX Trust 2021-ARIA	10/15/2036	6.51	Fixed Income	7,510,000	7,480.142	0.079%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	3/1/2051	2.00	Fixed Income	6,957.864	5,797.887	0.061%
JNLWMC Balanced Fund	Connecticut Avenue Securities Trust 2021-R01	10/25/2041	6.83	Fixed Income	1,251.866	1,257.285	0.013%
JNLWMC Balanced Fund	New Economy Assets - Phase 1 Sponsor, LLC	10/20/2026	1.91	Fixed Income	9,485,000	8,752.140	0.092%
JNLWMC Balanced Fund	New Economy Assets - Phase 1 Sponsor, LLC	10/20/2026	2.41	Fixed Income	2,440,000	2,197.601	0.023%
JNLWMC Balanced Fund	Home Partners of America 2021-2 Trust	12/1/2026	2.30	Fixed Income	6,726.230	6,385.306	0.067%
JNLWMC Balanced Fund	Sempra	4/1/2052	4.13	Fixed Income	6,298,000	6,122.443	0.064%
JNLWMC Balanced Fund	CFMT 2021-ALL Trust	9/22/2031	1.39	Fixed Income	2,365.665	2,090.957	0.021%
JNLWMC Balanced Fund	Treasury, United States Department of	11/30/2026	1.25	Fixed Income	40,481,000	38,664.954	0.407%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2051	2.50	Fixed Income	2,242.435	1,953.252	0.021%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2050	2.50	Fixed Income	6,190.779	5,431.112	0.057%
JNLWMC Balanced Fund	Georgia Power Company	9/1/2040	4.75	Fixed Income	1,089,000	1,059.238	0.011%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2051	2.50	Fixed Income	19,503.191	17,079.491	0.180%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2051	2.00	Fixed Income	14,183.085	11,880.609	0.125%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2051	2.50	Fixed Income	13,260.258	11,674.537	0.123%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	3/1/2051	2.50	Fixed Income	5,550.366	4,586.752	0.048%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2050	2.00	Fixed Income	20,805.813	17,433.581	0.183%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2041	2.00	Fixed Income	5,263.736	4,600.034	0.048%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2041	2.00	Fixed Income	3,074.894	2,683.339	0.028%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2041	2.00	Fixed Income	2,657.094	2,318.741	0.024%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2041	2.00	Fixed Income	2,097.177	2,212.426	0.023%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2041	2.00	Fixed Income	2,772.228	2,427.877	0.026%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2041	1.50	Fixed Income	7,277.854	6,135.212	0.065%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2051	3.00	Fixed Income	25,386.453	23,169.406	0.244%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2041	2.00	Fixed Income	6,340.183	5,498.183	0.058%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/25/2045	3.00	Fixed Income	2,825.889	2,549.860	0.027%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/25/2045	3.00	Fixed Income	6,422.448	5,822.113	0.061%
JNLWMC Balanced Fund	Dallas-Fort Worth International Airport Facility Improvement Corporation	11/1/2051	4.51	Fixed Income	300,000	286.338	0.003%
JNLWMC Balanced Fund	Dallas-Fort Worth International Airport Facility Improvement Corporation	10/1/2051	4.09	Fixed Income	300,000	274.383	0.003%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/15/2054	4.00	Fixed Income	-22,714,000	(21,833.833)	-0.230%
JNLWMC Balanced Fund	Georgia Power Company	5/15/2052	5.13	Fixed Income	7,676,000	7,812.351	0.082%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/1/2041	2.50	Fixed Income	1,281,017	1,157.851	0.012%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/15/2041	4.39	Fixed Income	4,238.717	4,045.445	0.042%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2051	2.00	Fixed Income	3,725.134	3,120.397	0.033%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	2,129.082	1,786.109	0.019%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	9/15/2041	4.00	Fixed Income	4,047.639	3,959.455	0.042%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/1/2051	2.00	Fixed Income	8,808.484	7,898.982	0.077%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2052	2.88	Fixed Income	26,867.800	21,332.613	0.224%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2051	2.00	Fixed Income	4,688.364	3,933.118	0.041%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2042	3.25	Fixed Income	1,626,000	1,645.844	0.017%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	3/25/2032	4.60	Fixed Income	8,300,000	7,419.161	0.078%
JNLWMC Balanced Fund	Treasury, United States Department of	5/31/2027	2.63	Fixed Income	2,390,000	2,152.828	0.023%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	2/1/2042	2.50	Fixed Income	11,868.966	10,698.129	0.113%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2051	3.50	Fixed Income	15,470.195	14,571.719	0.153%
JNLWMC Balanced Fund	Texas Electric Market Stabilization Funding N LLC	8/1/2034	4.27	Fixed Income	6,969.515	7,018.186	0.074%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2041	2.50	Fixed Income	594.666	528.426	0.006%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	4/1/2052	2.00	Fixed Income	19,143.693	16,077.792	0.069%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2052	4.50	Fixed Income	13,061.534	12,893.036	0.136%
JNLWMC Balanced Fund	Wells Fargo & Company	7/25/2033	4.90	Fixed Income	9,999,000	10,191.588	0.107%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/25/2049	1.50	Fixed Income	3,881.981	3,257.523	0.034%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/25/2050	2.00	Fixed Income	7,999.730	7,106.349	0.075%
JNLWMC Balanced Fund	Ashlead Capital, Inc.	8/11/2032	5.50	Fixed Income	2,800,000	2,883.745	0.030%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2042	3.38	Fixed Income	18,040.300	16,356.315	0.172%
JNLWMC Balanced Fund	Government National Mortgage Association	2/20/2051	2.00	Fixed Income	3,747.232	3,181.263	0.033%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.00	Fixed Income	8,365.824	8,069.554	0.085%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2051	2.00	Fixed Income	43,645.389	36,644.542	0.384%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/1/2051	2.50	Fixed Income	14,661.692	12,825.073	0.135%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2052	2.50	Fixed Income	3,685.669	3,120.733	0.032%
JNLWMC Balanced Fund	Treasury, United States Department of	11/15/2052	4.00	Fixed Income	16,957.400	16,757.874	0.176%
JNLWMC Balanced Fund	Treasury, United States Department of	11/30/2027	3.88	Fixed Income	11,279,000	11,524.572	0.121%
JNLWMC Balanced Fund	Treasury, United States Department of	11/15/2042	4.00	Fixed Income	18,493.700	18,478.372	0.194%
JNLWMC Balanced Fund	Treasury, United States Department of	12/1/2027	3.98	Fixed Income	13,637.200	13,889.586	0.146%
JNLWMC Balanced Fund	Pacific Gas And Electric Company	11/15/2053	6.75	Fixed Income	5,648,000	6,518.970	0.069%
JNLWMC Balanced Fund	Credit Suisse AG	2/15/2028	7.50	Fixed Income	15,698,000	17,392.822	0.183%
JNLWMC Balanced Fund	Morgan Stanley	1/19/2038	5.95	Fixed Income	3,867,000	4,104.068	0.043%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2053	5.50	Fixed Income	7,289.941	7,418.150	0.078%
JNLWMC Balanced Fund	Ashlead Capital, Inc.	5/30/2033	5.55	Fixed Income	1,920,000	1,997.485	0.021%
JNLWMC Balanced Fund	Illinois Municipal Electric Agency	2/1/2035	6.83	Fixed Income	3,185,000	3,495.902	0.037%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2046	2.50	Fixed Income	28,515,200	21,758.145	0.229%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2047	3.00	Fixed Income	5,470,000	4,537.127	0.048%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/21/2046	4.00	Fixed Income	1,779.829	1,745.719	0.018%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2047	2.75	Fixed Income	6,825,000	5,348.537	0.056%
JNLWMC Balanced Fund	Treasury, United States Department of	11/15/2047	2.75	Fixed Income	14,669,000	11,573.563	0.122%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2046	3.00	Fixed Income	8,044.935	7,402.842	0.078%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2046	3.00	Fixed Income	2,040.483	1,877.925	0.020%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2046	4.00	Fixed Income	1,996.312	1,968.054	0.021%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2046	3.00	Fixed Income	6,266.734	5,760.085	0.061%
JNLWMC Balanced Fund	MettLife Securitization Trust 2017-1	6/25/2026	3.00	Fixed Income	540.254	516.801	0.005%
JNLWMC Balanced Fund	Municipal Electric Authority of Georgia	10/1/2051	6.64	Fixed Income	4,842,000	5,689.425	0.059%
JNLWMC Balanced Fund	Towd Point Mortgage Trust 2017-4	2/25/2025	2.75	Fixed Income	680.940	662.403	0.007%
JNLWMC Balanced Fund	Mill City Mortgage Loan Trust 2017-3	1/25/2061	2.75	Fixed Income	109.081	108.166	0.001%
JNLWMC Balanced Fund	Towd Point Mortgage Trust 2018-1	1/25/2058	3.00	Fixed Income	211.125	207.824	0.002%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2048	4.00	Fixed Income	111.540	108.715	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.00	Fixed Income	66.851	65.256	0.001%
JNLWMC Balanced Fund	Horizon Aircraft Finance I Limited	12/15/2025	4.46	Fixed Income	156.963	145.779	0.002%
JNLWMC Balanced Fund	Boeing Company, The			Equity	152.199	23,140.336	0.243%
JNLWMC Balanced Fund	American Electric Power Company, Inc.			Equity	31,786.877	32,813.154	0.349%
JNLWMC Balanced Fund	American Express Company			Equity	249.354	67,624.805	0.712%
JNLWMC Balanced Fund	Honeywell International Inc.			Equity	245.788	50,806.837	0.535%
JNLWMC Balanced Fund	Sempra			Equity	809.088	68,165.496	0.717%
JNLWMC Balanced Fund	Amazon.com, Inc.			Equity	1,561.060	280,872.310	3

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWMC Balanced Fund	Merck & Co. Inc.			Equity	854.190	87,666,387	1.028%
JNLWMC Balanced Fund	McDonald's Corporation			Equity	333.290	185,680,680	1.068%
JNLWMC Balanced Fund	Parker-Hannifin Corporation			Equity	126.880	80,165,322	0.843%
JNLWMC Balanced Fund	Eli Lilly and Company			Equity	42.477	37,632,073	0.396%
JNLWMC Balanced Fund	Procter & Gamble Company, The			Equity	401.295	69,504,294	0.731%
JNLWMC Balanced Fund	Microsoft Corporation			Equity	1,067.753	459,454,116	4.844%
JNLWMC Balanced Fund	The Progressive Corporation			Equity	460.367	118,622,730	1.229%
JNLWMC Balanced Fund	Wells Fargo & Company			Equity	2,581.727	145,841,758	1.534%
JNLWMC Balanced Fund	Cheniere Energy, Inc.			Equity	169.210	30,430,726	0.320%
JNLWMC Balanced Fund	Texas Instruments Incorporated			Equity	372.657	76,079,756	0.810%
JNLWMC Balanced Fund	Tractor Supply Company			Equity	128.604	37,414,762	0.394%
JNLWMC Balanced Fund	Nasdaq, Inc.			Equity	1,046,526	76,406,863	0.804%
JNLWMC Balanced Fund	UnitedHealth Group Incorporated			Equity	315.378	184,395,209	1.940%
JNLWMC Balanced Fund	Permot Ricard			Equity	403.170	60,851,149	0.640%
JNLWMC Balanced Fund	Starbucks Corporation			Equity	417.308	40,683,347	0.428%
JNLWMC Balanced Fund	Williams Companies, Inc., The			Equity	906.512	41,382,273	0.435%
JNLWMC Balanced Fund	Netflix, Inc.			Equity	99.749	70,748,873	0.744%
JNLWMC Balanced Fund	TDJ Companies, Inc., The			Equity	576.488	67,760,400	0.713%
JNLWMC Balanced Fund	Chugai Pharmaceutical Co., Ltd.			Equity	422.061	20,596,486	0.217%
JNLWMC Balanced Fund	Astellas Pharma Inc.			Equity	566.000	6,628,549	0.070%
JNLWMC Balanced Fund	Mercadolibre, Inc.			Equity	8.672	17,794,597	0.187%
JNLWMC Balanced Fund	Unilever PLC			Equity	1,342.126	87,064,871	0.916%
JNLWMC Balanced Fund	Daichi Sankyo Company, Limited			Equity	805.064	29,925,425	0.315%
JNLWMC Balanced Fund	Anglo American PLC			Equity	1,023.983	33,320,795	0.351%
JNLWMC Balanced Fund	Marathon Petroleum Corporation			Equity	212.151	34,561,519	0.364%
JNLWMC Balanced Fund	NXP Semiconductors N.V.			Equity	216.130	52,094,788	0.548%
JNLWMC Balanced Fund	Glencore PLC			Equity	8,019.430	45,157,026	0.481%
JNLWMC Balanced Fund	Tesla Inc.			Equity	82.683	21,632,353	0.228%
JNLWMC Balanced Fund	O'Reilly Automotive, Inc.			Equity	52.860	60,873,576	0.640%
JNLWMC Balanced Fund	Motorola Solutions, Inc.			Equity	306.552	138,138,523	1.453%
JNLWMC Balanced Fund	Targa Resources Corp.			Equity	236.198	34,859,814	0.368%
JNLWMC Balanced Fund	HCA Healthcare, Inc.			Equity	210.586	88,031,117	0.926%
JNLWMC Balanced Fund	Visa Inc.			Equity	147.035	40,427,273	0.425%
JNLWMC Balanced Fund	Meta Platforms, Inc.			Equity	294.164	168,391,240	1.772%
JNLWMC Balanced Fund	ServiceNow, Inc.			Equity	104.333	93,314,392	0.982%
JNLWMC Balanced Fund	KKR & Co. Inc.			Equity	603.581	67,816,129	0.709%
JNLWMC Balanced Fund	T-Mobile US, Inc.			Equity	316.834	65,381,864	0.688%
JNLWMC Balanced Fund	AstraZeneca PLC			Equity	1,020.248	79,487,522	0.836%
JNLWMC Balanced Fund	Broadcom Inc.			Equity	906.662	156,399,195	1.644%
JNLWMC Balanced Fund	SAP Global Inc.			Equity	244.046	126,079,045	1.377%
JNLWMC Balanced Fund	Novartis AG			Equity	529.990	60,959,450	0.641%
JNLWMC Balanced Fund	Alphabet Inc.			Equity	1,772.322	293,939,604	3.093%
JNLWMC Balanced Fund	Johnson Controls International Public Limited Company			Equity	656.210	51,171,256	0.538%
JNLWMC Balanced Fund	Crown Castle Inc.			Equity	387.432	87,949,185	0.923%
JNLWMC Balanced Fund	Welltower Inc.			Equity	465.127	59,550,210	0.627%
JNLWMC Balanced Fund	Government National Mortgage Association	4/15/2026	6.50	Fixed Income	593	610	0.000%
JNLWMC Balanced Fund	Liberty Mutual Insurance Company	10/15/2026	7.88	Fixed Income	475.000	619,223	0.005%
JNLWMC Balanced Fund	Illinois, State of	8/1/2033	5.10	Fixed Income	14,047.059	14,506,260	0.152%
JNLWMC Balanced Fund	Oregon School Boards Association	6/30/2028	4.76	Fixed Income	232.581	237,392	0.002%
JNLWMC Balanced Fund	New York State Thruway Authority	4/1/2030	5.88	Fixed Income	840.000	905,555	0.010%
JNLWMC Balanced Fund	ACE Capital Trust II	4/1/2030	9.70	Fixed Income	525.000	667,968	0.007%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2032	5.50	Fixed Income	10.247	10,247	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2033	7.00	Fixed Income	1.869	1,925	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	2/15/2033	6.00	Fixed Income	7.817	8.104	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	3/1/2033	6.00	Fixed Income	1.099	1.129	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	5/15/2033	7.00	Fixed Income	988	1,025	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	8/1/2037	5.50	Fixed Income	4.250	4,370	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	5/20/2033	5.50	Fixed Income	7.347	7.556	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	6/20/2033	5.00	Fixed Income	3.097	3.158	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	7/15/2033	5.50	Fixed Income	2.292	2.361	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	10/20/2033	6.00	Fixed Income	7.502	7.880	0.000%
JNLWMC Balanced Fund	Chicago Transit Authority	12/1/2040	6.90	Fixed Income	635.549	739,511	0.008%
JNLWMC Balanced Fund	Spectrum Management Holding Company, LLC	5/1/2037	6.55	Fixed Income	435.000	442,924	0.005%
JNLWMC Balanced Fund	Spectrum Management Holding Company, LLC	7/1/2038	7.30	Fixed Income	285.000	304,848	0.003%
JNLWMC Balanced Fund	JPMorgan Chase & Co.	5/15/2038	6.40	Fixed Income	244.046	126,079,045	1.377%
JNLWMC Balanced Fund	Spectrum Management Holding Company, LLC	6/15/2039	6.75	Fixed Income	285.000	290,468	0.003%
JNLWMC Balanced Fund	Government National Mortgage Association	9/16/2035	7.50	Fixed Income	1.249	1.308	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2030	7.00	Fixed Income	6.676	7.324	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	8/15/2033	5.50	Fixed Income	1.055	1,087	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	6/1/2031	7.00	Fixed Income	244	254	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2029	7.50	Fixed Income	1.375	1.440	0.000%
JNLWMC Balanced Fund	Dignity Health	11/1/2024	3.81	Fixed Income	1,703.000	1,729,347	0.018%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2033	7.00	Fixed Income	9.723	10,286	0.000%
JNLWMC Balanced Fund	Wells Fargo Commercial Mortgage Trust 2015-NX51	4/1/2025	3.15	Fixed Income	1,885.000	1,888,975	0.020%
JNLWMC Balanced Fund	Sprint Secured Co LLC	3/20/2025	4.74	Fixed Income	981.250	980,773	0.010%
JNLWMC Balanced Fund	Bank of America Merrill Lynch Commercial Mortgage Trust 2015-UBS7	9/17/2025	3.71	Fixed Income	1,145.000	1,132,242	0.012%
JNLWMC Balanced Fund	United Airlines Class B Pass Through Certificates, Series 2018-1	10/1/2035	4.60	Fixed Income	274.017	268,540	0.003%
JNLWMC Balanced Fund	Kansas Development Finance Authority	5/1/2026	5.37	Fixed Income	960.000	991,393	0.010%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/25/2024	6.05	Fixed Income	145.935	146,040	0.002%
JNLWMC Balanced Fund	KeySpan Gas East Corporation	8/15/2026	2.74	Fixed Income	3,690.000	3,581,359	0.038%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2026	4.00	Fixed Income	17.924	17,895	0.000%
JNLWMC Balanced Fund	Boston Gas Company	8/1/2036	3.15	Fixed Income	960.000	931,073	0.010%
JNLWMC Balanced Fund	The Cleveland Electric Illuminating Company	4/1/2028	3.50	Fixed Income	9,400.000	9,241,183	0.097%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2026	3.50	Fixed Income	1.128	1.127	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2026	3.50	Fixed Income	5.598	5.561	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2027	3.50	Fixed Income	23.387	23,316	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2026	4.00	Fixed Income	132.754	132,400	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2026	4.00	Fixed Income	31.146	31,052	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2027	4.50	Fixed Income	8.745	8,800	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2027	4.50	Fixed Income	46.629	46,424	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2027	3.00	Fixed Income	21.873	21,574	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2027	3.00	Fixed Income	12.278	12,111	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2033	6.00	Fixed Income	2.337	2,415	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2033	5.50	Fixed Income	1.264	1,289	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2033	6.00	Fixed Income	4.743	4,897	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	12/15/2033	6.00	Fixed Income	2.441	2,534	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	5/15/2034	5.50	Fixed Income	3.311	3,380	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	12/1/2031	2.50	Fixed Income	203.330	195,348	0.002%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2032	2.50	Fixed Income	1,028.100	990,467	0.010%
JNLWMC Balanced Fund	SF-AVE Commercial Mortgage Securities Trust 2015-SAVE	1/8/2035	4.14	Fixed Income	2,960.000	2,586,601	0.027%
JNLWMC Balanced Fund	Government National Mortgage Association	4/15/2035	5.00	Fixed Income	36.973	37,772	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	2/15/2036	6.00	Fixed Income	189.492	187,658	0.002%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2030	2.50	Fixed Income	35.818	35,810	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2030	2.50	Fixed Income	8.635	8,376	0.000%
JNLWMC Balanced Fund	Maps 2019-1 Limited	3/1/2026	4.46	Fixed Income	138.834	130,310	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2031	4.50	Fixed Income	83.875	80,493	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	4/15/2036	6.00	Fixed Income	1.678	1,748	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	8/15/2036	6.00	Fixed Income	657	685	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	9/15/2036	6.00	Fixed Income	1.152	1.199	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	12/15/2036	6.00	Fixed Income	77.733	81,281	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	2/15/2037	6.00	Fixed Income	117.909	123,250	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2031	2.50	Fixed Income	369.173	355,747	0.004%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2031	2.50	Fixed Income	304.277	292,939	0.003%
JNLWMC Balanced Fund	Government National Mortgage Association	6/15/2037	6.00	Fixed Income	488	512	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2031	2.50	Fixed Income	191.205	184,079	0.002%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	12/1/2031	2.50	Fixed Income	15.541	14,962	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2032	2.50	Fixed Income	208.955	201,140	0.002%
JNLWMC Balanced Fund	Government National Mortgage Association	12/15/2037	6.00	Fixed Income	918	959	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2038	6.00	Fixed Income	70.530	73,890	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	3/15/2038	6.00	Fixed Income	7.728	8,112	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	3/15/2038	6.00	Fixed Income	16.715	17,546	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	4/15/2038	6.00	Fixed Income	1.403	1,468	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	8/15/2038	6.00	Fixed Income	47.409	49,430	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	8/15/2038	6.00	Fixed Income	129.894	136,224	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	9/15/2038	6.00	Fixed Income	212	222	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2038	6.00	Fixed Income	258.623	271,490	0.003%
JNLWMC Balanced Fund	Government National Mortgage Association	12/15/2038	6.00	Fixed Income	80.236	82,256	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2038	6.00	Fixed Income	97.714	102,461	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2038	6.00	Fixed Income	756	794	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2038	6.00	Fixed Income	1.984	2,078	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2038	6.00	Fixed Income	2.886	3,046	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	12/15/2038	6.00	Fixed Income	4.589	4,634	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2039	6.00	Fixed Income	88.534	92,939	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	1/15/2039	6.00	Fixed Income	15.004	15,738	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2039	6.00	Fixed Income	1.704	1,787	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	3/15/2039	5.00	Fixed Income	315.301	302,690	0.003%
JNLWMC Balanced Fund	Government National Mortgage Association	3/15/2039	5.00	Fixed Income	34.528	35,445	0.000%
JNLWMC Balanced Fund	Metropolitan Transportation Authority	11/15/2040	6.81	Fixed Income	3,700.000	4,297,309	0.045%
JNLWMC Balanced Fund	Government National Mortgage Association	6/15/2039	5.00	Fixed Income	378.490	388,598	0.004%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2035	4.50	Fixed Income	209	212	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	12/15/2039	6.00	Fixed Income	26.315	27,601	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	4/15/2040	6.00	Fixed Income	5.654	5,944	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	4/15/2040	6.00	Fixed Income	11.976	12,561	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	6/15/2040	4.50	Fixed Income	139.139	140,230	0.001%
JNLWMC Balanced Fund	Government National Mortgage Association	7/15/2040	4.50	Fixed Income	9.402	9,476	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	12/1/2039	6.00	Fixed Income	11.056	11,680	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	12/1/2039	6				

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWMC Balanced Fund	Government National Mortgage Association	1/15/2041	4.00	Fixed Income	11,010	10,889	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	5/15/2041	4.00	Fixed Income	3,255	3,216	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	6/15/2041	4.00	Fixed Income	4,343	4,281	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	8/15/2041	4.00	Fixed Income	114,047	112,508	0.001%
JNLWMC Balanced Fund	Grant Parkway Transportation Corporation	10/1/2042	5.18	Fixed Income	220,000	237,154	0.002%
JNLWMC Balanced Fund	AT&T Inc.	12/15/2042	4.30	Fixed Income	9,753,000	8,818,421	0.003%
JNLWMC Balanced Fund	Government National Mortgage Association	11/15/2042	4.00	Fixed Income	2,220	2,200	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/1/2041	4.00	Fixed Income	9,863	9,789	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	2/15/2042	4.00	Fixed Income	44,875	44,243	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2038	5.50	Fixed Income	45,041	47,202	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	9/15/2041	3.50	Fixed Income	377,863	372,861	0.004%
JNLWMC Balanced Fund	Government National Mortgage Association	5/15/2042	4.50	Fixed Income	51,621	52,012	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2038	6.50	Fixed Income	20,005	21,120	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	9/15/2042	1.75	Fixed Income	3,293,261	3,104,000	0.033%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2039	4.50	Fixed Income	15,044	15,226	0.000%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	5/15/2043	3.00	Fixed Income	370,449	364,291	0.004%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2039	4.50	Fixed Income	1,499	1,515	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2039	4.50	Fixed Income	4,897	4,956	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2039	4.50	Fixed Income	353	357	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2039	4.50	Fixed Income	2,047	2,071	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.50	Fixed Income	5,613	5,681	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2039	4.50	Fixed Income	19,895	20,136	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2039	4.50	Fixed Income	1,398	1,415	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2039	4.50	Fixed Income	16,962	17,166	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.50	Fixed Income	509	515	0.000%
JNLWMC Balanced Fund	Treasury, United States Department of	2/15/2045	2.50	Fixed Income	18,570,000	14,247,933	0.150%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.50	Fixed Income	11,465	11,607	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2039	4.50	Fixed Income	12,294	12,446	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2039	4.50	Fixed Income	7,549	7,642	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2039	4.50	Fixed Income	7,385	7,476	0.000%
JNLWMC Balanced Fund	Government National Mortgage Association	12/20/2044	4.00	Fixed Income	156,733	156,299	0.002%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2039	6.50	Fixed Income	13,411	13,281	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2039	6.50	Fixed Income	22,364	23,740	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2040	4.50	Fixed Income	14,942	15,127	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	5/1/2040	4.50	Fixed Income	5,331	5,398	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2040	4.50	Fixed Income	64,157	66,107	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	1,402	1,419	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2040	4.50	Fixed Income	382,485	387,242	0.004%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2040	4.50	Fixed Income	319,404	323,382	0.003%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2045	2.88	Fixed Income	10,885,000	8,887,432	0.094%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2043	4.50	Fixed Income	73,684	74,829	0.001%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2044	4.50	Fixed Income	219,974	221,673	0.002%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	6/25/2044	3.50	Fixed Income	661,801	649,838	0.007%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2044	4.50	Fixed Income	27,665	27,878	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2044	4.50	Fixed Income	4,176	4,213	0.000%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	2/1/2045	3.00	Fixed Income	4,271,879	3,946,533	0.042%
JNLWMC Balanced Fund	Castlelake Aircraft Structured Trust 2019-1	4/1/2026	3.97	Fixed Income	1,278,189	1,184,408	0.012%
JNLWMC Balanced Fund	Star II Ltd	3/15/2026	4.09	Fixed Income	647,538	622,388	0.007%
JNLWMC Balanced Fund	Uber Technologies, Inc.			Equity	873,388	65,643,842	0.691%
JNLWMC Balanced Fund	AASET 2021-1 Trust	5/15/2026	3.84	Fixed Income	69,611	67,065	0.001%
JNLWMC Balanced Fund	Horizon Aircraft Finance II Limited	7/15/2026	3.72	Fixed Income	506,579	475,087	0.005%
JNLWMC Balanced Fund	Bank of America Corporation	7/1/2030	3.19	Fixed Income	2,110,000	2,106,170	0.020%
JNLWMC Balanced Fund	Brooklyn Union Gas Company, The	3/31/2026	3.41	Fixed Income	2,215,000	2,177,767	0.023%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/25/2028	11.29	Fixed Income	357,804	375,691	0.004%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/25/2026	3.50	Fixed Income	1,479,802	1,421,041	0.015%
JNLWMC Balanced Fund	SBA Towers, LLC	11/15/2025	3.84	Fixed Income	1,830,000	1,823,116	0.002%
JNLWMC Balanced Fund	Philadelphia City of	10/15/2025	6.55	Fixed Income	5,225,000	5,743,119	0.060%
JNLWMC Balanced Fund	Mach 1 Cayman Limited	8/1/2026	3.47	Fixed Income	490,426	456,452	0.005%
JNLWMC Balanced Fund	Horizon Aircraft Finance III Limited	11/15/2026	3.43	Fixed Income	1,053,641	936,071	0.010%
JNLWMC Balanced Fund	Amtek Oak Mortgage Trust 2019-5	11/25/2059	2.62	Fixed Income	188,711	184,636	0.002%
JNLWMC Balanced Fund	Southern California Edison Company	8/1/2028	3.70	Fixed Income	785,000	733,983	0.008%
JNLWMC Balanced Fund	Government National Mortgage Association	11/20/2049	3.00	Fixed Income	3,654,677	3,355,118	0.035%
JNLWMC Balanced Fund	The Toledo Hospital	11/15/2038	5.75	Fixed Income	1,475,000	1,537,468	0.016%
JNLWMC Balanced Fund	Oracle Corporation	4/1/2050	3.60	Fixed Income	1,072,000	835,886	0.009%
JNLWMC Balanced Fund	Metropolitan Transportation Authority	11/15/2026	4.00	Fixed Income	110,000	114,410	0.001%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2028	2.88	Fixed Income	625,000	611,279	0.006%
JNLWMC Balanced Fund	Emera US Holdings Inc.	6/15/2046	4.75	Fixed Income	1,620,000	1,469,722	0.015%
JNLWMC Balanced Fund	AT&T Inc.	6/1/2051	3.65	Fixed Income	344,000	266,971	0.003%
JNLWMC Balanced Fund	AT&T Inc.	6/1/2041	3.50	Fixed Income	4,841,200	4,841,209	0.049%
JNLWMC Balanced Fund	AT&T Inc.	6/1/2060	3.85	Fixed Income	606,000	465,951	0.005%
JNLWMC Balanced Fund	SBA Towers, LLC	1/15/2026	1.88	Fixed Income	1,520,000	1,466,071	0.015%
JNLWMC Balanced Fund	Pacific Gas And Electric Company	7/1/2040	4.50	Fixed Income	19,124,350	17,416,431	0.183%
JNLWMC Balanced Fund	Government National Mortgage Association	10/1/2044	2.50	Fixed Income	39,000,000	24,582,360	0.258%
JNLWMC Balanced Fund	Children's National Medical Center	7/15/2050	2.93	Fixed Income	1,895,000	1,317,780	0.014%
JNLWMC Balanced Fund	Government National Mortgage Association	10/15/2054	2.00	Fixed Income	9,350,000	7,925,357	0.083%
JNLWMC Balanced Fund	Danske Bank A/S	9/11/2026	1.62	Fixed Income	8,775,000	8,519,954	0.090%
JNLWMC Balanced Fund	Gray Oak Pipeline, LLC	10/15/2025	2.60	Fixed Income	2,861,000	2,822,610	0.009%
JNLWMC Balanced Fund	Gray Oak Pipeline, LLC	10/15/2027	3.45	Fixed Income	465,000	456,988	0.005%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	2/1/2053	5.50	Fixed Income	1,191,664	1,212,249	0.013%
JNLWMC Balanced Fund	Ginnie Mae II	8/20/2052	4.50	Fixed Income	24,387,875	24,634,800	0.259%
JNLWMC Balanced Fund	Treasury, United States Department of	1/31/2028	3.50	Fixed Income	10,221,500	10,259,414	0.108%
JNLWMC Balanced Fund	Oracle Corporation	2/8/2053	5.55	Fixed Income	909,000	838,845	0.010%
JNLWMC Balanced Fund	Treasury, United States Department of	2/15/2053	3.63	Fixed Income	19,516,100	17,834,760	0.188%
JNLWMC Balanced Fund	Treasury, United States Department of	2/29/2028	4.00	Fixed Income	18,445,200	18,762,004	0.197%
JNLWMC Balanced Fund	Treasury, United States Department of	2/15/2043	3.88	Fixed Income	21,555,500	20,907,737	0.220%
JNLWMC Balanced Fund	American Tower Trust II	5/15/2028	4.49	Fixed Income	12,460,000	12,780,123	0.134%
JNLWMC Balanced Fund	Texas Natural Gas Securitization Finance Corporation	4/1/2035	5.10	Fixed Income	4,607,691	4,883,204	0.051%
JNLWMC Balanced Fund	Texas Natural Gas Securitization Finance Corporation	4/1/2041	5.17	Fixed Income	3,600,000	3,885,056	0.041%
JNLWMC Balanced Fund	Ginnie Mae II	1/20/2052	3.50	Fixed Income	20,438,498	19,282,654	0.203%
JNLWMC Balanced Fund	Ginnie Mae I	3/20/2052	3.50	Fixed Income	122,541	112,410	0.001%
JNLWMC Balanced Fund	Ginnie Mae II	3/20/2052	3.50	Fixed Income	10,407,679	9,820,941	0.103%
JNLWMC Balanced Fund	Ginnie Mae II	5/20/2052	4.00	Fixed Income	11,090,613	10,771,553	0.113%
JNLWMC Balanced Fund	Ginnie Mae II	4/20/2052	4.00	Fixed Income	3,876,406	3,784,889	0.040%
JNLWMC Balanced Fund	Ginnie Mae I	12/20/2052	2.50	Fixed Income	7,439,809	7,481,172	0.078%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2052	4.00	Fixed Income	8,299,388	8,023,626	0.084%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2052	5.00	Fixed Income	8,006,620	8,061,290	0.085%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.00	Fixed Income	7,960,440	8,019,770	0.084%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2052	4.50	Fixed Income	13,105,524	13,036,569	0.136%
JNLWMC Balanced Fund	Pennsylvania Electric Company	3/30/2026	5.15	Fixed Income	305,000	307,952	0.003%
JNLWMC Balanced Fund	Treasury, United States Department of	3/31/2028	3.63	Fixed Income	21,107,300	21,152,275	0.223%
JNLWMC Balanced Fund	Metropolitan Edison Company	4/1/2028	5.20	Fixed Income	390,000	409,657	0.004%
JNLWMC Balanced Fund	Nawient Private Education Refi Loan Trust 2023-A	9/15/2071	5.61	Fixed Income	8,085,611	7,085,272	0.076%
JNLWMC Balanced Fund	Morgan Stanley	4/21/2034	5.25	Fixed Income	2,204,000	2,327,585	0.024%
JNLWMC Balanced Fund	Treasury, United States Department of	4/30/2028	3.50	Fixed Income	17,886,000	18,106,050	0.191%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2052	5.00	Fixed Income	18,876,595	18,975,993	0.200%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2051	2.50	Fixed Income	29,894,816	25,846,175	0.272%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2053	5.50	Fixed Income	10,612,995	10,799,651	0.114%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2053	5.50	Fixed Income	19,658,211	19,906,244	0.209%
JNLWMC Balanced Fund	Ginnie Mae II	8/20/2052	4.00	Fixed Income	8,528,754	8,280,730	0.087%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2053	3.63	Fixed Income	20,270,300	18,723,519	0.197%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2053	5.50	Fixed Income	17,264,901	17,563,146	0.185%
JNLWMC Balanced Fund	Southern California Edison Company	12/1/2053	5.88	Fixed Income	3,598,000	3,985,727	0.042%
JNLWMC Balanced Fund	Treasury, United States Department of	5/31/2028	3.63	Fixed Income	10,108,000	10,246,933	0.108%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2026	3.63	Fixed Income	5,470,000	5,536,350	0.058%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2043	3.88	Fixed Income	26,280,300	25,697,429	0.270%
JNLWMC Balanced Fund	Capital One Financial Corporation	6/8/2029	6.31	Fixed Income	3,662,000	3,926,327	0.041%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	1/1/2038	4.50	Fixed Income	3,145,788	3,156,468	0.033%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2038	4.50	Fixed Income	11,950,641	12,029,200	0.127%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2038	4.50	Fixed Income	3,292,233	3,313,876	0.035%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2038	4.50	Fixed Income	653,158	657,452	0.007%
JNLWMC Balanced Fund	SFS Auto Receivables Securitization Trust 2023- 1	6/20/2025	5.89	Fixed Income	1,268,705	1,275,480	0.013%
JNLWMC Balanced Fund	Treasury, United States Department of	6/30/2028	4.00	Fixed Income	19,138,000	19,618,530	0.206%
JNLWMC Balanced Fund	Treasury, United States Department of	6/15/2026	4.13	Fixed Income	1,290,520	1,314,369	0.014%
JNLWMC Balanced Fund	Treasury, United States Department of	6/30/2030	3.75	Fixed Income	3,459,000	3,514,480	0.037%
JNLWMC Balanced Fund	CF Hippolyta Issuer LLC	2/15/2027	5.95	Fixed Income	2,473,611	2,493,556	0.026%
JNLWMC Balanced Fund	Kubota Credit Owner Trust 2023-2	5/1/2027	5.28	Fixed Income	6,095,000	6,207,512	0.065%
JNLWMC Balanced Fund	HECO Corporation	8/1/2033	5.35	Fixed Income	8,637,000	8,940,497	0.095%
JNLWMC Balanced Fund	Achthead Capital, Inc.	10/15/2033	5.95	Fixed Income	2,605,000	2,807,598	0.030%
JNLWMC Balanced Fund	Treasury, United States Department of	7/31/2030	4.00	Fixed Income	2,349,100	2,410,812	0.025%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	8/1/2053	6.00	Fixed Income	12,056,965	12,368,153	0.130%
JNLWMC Balanced Fund	Treasury, United States Department of	7/31/2028	4.13	Fixed Income	19,280,200	19,739,434	0.208%
JNLWMC Balanced Fund	Columbia Pipelines Operating Company LLC	8/15/2033	5.93	Fixed Income	1,675,000	2,106,384	0.022%
JNLWMC Balanced Fund	Columbia Pipelines Operating Company LLC	8/15/2043	6.50	Fixed Income	3,557,000	3,994,485	0.042%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2053	4.13	Fixed Income	14,799,600	14,817,446	0.156%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/15/2054	6.00	Fixed Income	5,350,742	5,350,742	0.056%

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2053	6.00	Fixed Income	9,955,901	10,227,724	0.108%
JNLWMC Balanced Fund	Wells Fargo & Company	10/23/2029	6.30	Fixed Income	8,170,001	8,626,522	0.092%
JNLWMC Balanced Fund	Enterprise Fleet Financing 2023-3, LLC	2/22/2027	6.44	Fixed Income	8,864,373	9,070,694	0.095%
JNLWMC Balanced Fund	Wheels Fleet Lease Funding 1 LLC	1/19/2027	6.46	Fixed Income	6,179,566	6,274,260	0.066%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2051	4.00	Fixed Income	446,350	439,550	0.005%
JNLWMC Balanced Fund	Treasury, United States Department of	10/15/2026	4.63	Fixed Income	18,569,087	18,569,387	0.196%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	3/1/2046	4.00	Fixed Income	346,307	340,886	0.004%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	4/1/2047	4.00	Fixed Income	164,080	161,527	0.002%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	1/1/2049	4.00	Fixed Income	447,625	440,601	0.005%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	5/1/2049	4.00	Fixed Income	606,028	595,172	0.006%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2049	4.00	Fixed Income	152,462	150,251	0.002%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	7/1/2049	4.00	Fixed Income	714,333	703,543	0.007%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	570,394	574,823	0.006%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	1,176,567	1,185,336	0.012%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.50	Fixed Income	508,374	507,025	0.005%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.50	Fixed Income	609,988	602,500	0.006%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	5.00	Fixed Income	1,174,757	1,180,943	0.012%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	3/1/2053	5.50	Fixed Income	1,411,579	1,436,845	0.015%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	9/1/2053	5.50	Fixed Income	1,421,761	1,452,098	0.015%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2052	5.00	Fixed Income	1,149,746	1,158,675	0.012%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2053	5.50	Fixed Income	1,394,737	1,420,139	0.015%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2052	4.50	Fixed Income	1,161,004	1,159,088	0.012%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	7/1/2048	4.50	Fixed Income	1,151,107	1,158,920	0.012%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2048	4.50	Fixed Income	341,737	342,241	0.004%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	11/1/2048	4.50	Fixed Income	497,080	499,366	0.005%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2049	4.50	Fixed Income	800,301	802,732	0.008%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	10/1/2050	4.50	Fixed Income	253,085	253,378	0.003%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	10/1/2053	6.00	Fixed Income	14,448,784	14,843,274	0.156%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2048	4.00	Fixed Income	3,312,505	3,250,058	0.034%
JNLWMC Balanced Fund	Capital One Financial Corporation	10/29/2027	7.15	Fixed Income	2,840,000	3,079,797	0.032%
JNLWMC Balanced Fund	Capital One Financial Corporation	10/29/2031	7.62	Fixed Income	539,000	529,872	0.007%
JNLWMC Balanced Fund	Treasury, United States Department of	10/31/2045	4.88	Fixed Income	27,889,000	29,818,626	0.314%
JNLWMC Balanced Fund	Treasury, United States Department of	10/31/2030	4.88	Fixed Income	4,884,000	5,311,781	0.056%
JNLWMC Balanced Fund	Treasury, United States Department of	11/15/2053	4.75	Fixed Income	14,705,300	16,508,597	0.174%
JNLWMC Balanced Fund	GLP Financial, LLC	12/1/2033	6.75	Fixed Income	9,766,000	10,982,218	0.116%
JNLWMC Balanced Fund	Treasury, United States Department of	11/15/2026	4.63	Fixed Income	2,525,001	2,619,212	0.027%
JNLWMC Balanced Fund	Gobierno Federal de los Estados Unidos Mexicanos	9/27/2034	6.75	Fixed Income	7,788,000	8,443,967	0.089%
JNLWMC Balanced Fund	Treasury, United States Department of	11/15/2043	4.75	Fixed Income	17,895,800	19,618,000	0.206%
JNLWMC Balanced Fund	BNP Paribas	12/5/2034	5.89	Fixed Income	8,625,000	9,665,895	0.102%
JNLWMC Balanced Fund	Treasury, United States Department of	11/30/2029	4.38	Fixed Income	10,560,000	11,038,462	0.116%
JNLWMC Balanced Fund	Treasury, United States Department of	12/15/2026	4.38	Fixed Income	9,845,000	10,127,463	0.107%
JNLWMC Balanced Fund	Treasury, United States Department of	12/31/2028	3.75	Fixed Income	27,257,200	27,702,907	0.291%
JNLWMC Balanced Fund	Treasury, United States Department of	12/31/2030	3.75	Fixed Income	6,902,000	7,008,390	0.074%
JNLWMC Balanced Fund	Athens Global Funding	1/8/2029	5.58	Fixed Income	11,485,000	12,052,126	0.127%
JNLWMC Balanced Fund	Columbia Pipelines Holding Company LLC	1/15/2034	5.68	Fixed Income	1,635,000	1,703,366	0.018%
JNLWMC Balanced Fund	Treasury, United States Department of	1/15/2027	4.00	Fixed Income	2,156,000	2,192,133	0.023%
JNLWMC Balanced Fund	Moran Stanley	1/18/2035	5.47	Fixed Income	4,265,000	4,513,495	0.047%
JNLWMC Balanced Fund	Citizens Financial Group, Inc.	1/23/2030	5.94	Fixed Income	2,440,000	2,565,158	0.027%
JNLWMC Balanced Fund	Achthead Capital, Inc.	4/15/2034	5.80	Fixed Income	2,710,000	2,936,734	0.031%
JNLWMC Balanced Fund	Capital One Financial Corporation	2/1/2030	5.70	Fixed Income	2,125,000	2,219,007	0.023%
JNLWMC Balanced Fund	Treasury, United States Department of	1/31/2029	4.00	Fixed Income	44,684,500	45,746,665	0.481%
JNLWMC Balanced Fund	SRAC USA Finance LLC	10/30/2034	5.20	Fixed Income	4,855,000	5,166,065	0.054%
JNLWMC Balanced Fund	Constellation Software Inc.	2/16/2029	5.16	Fixed Income	1,215,000	1,260,213	0.013%
JNLWMC Balanced Fund	Constellation Software Inc.	2/16/2034	5.46	Fixed Income	15,432,000	16,233,098	0.171%
JNLWMC Balanced Fund	WEA Finance LLC	6/15/2029	3.50	Fixed Income	1,880,000	1,781,872	0.019%
JNLWMC Balanced Fund	Intel Corporation	2/21/2054	4.60	Fixed Income	10,080,000	9,884,040	0.104%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	9/1/2053	6.00	Fixed Income	32,582,640	33,512,963	0.353%
JNLWMC Balanced Fund	Treasury, United States Department of	2/15/2054	4.25	Fixed Income	12,740,100	13,054,103	0.137%
JNLWMC Balanced Fund	HCA Inc.	4/1/2031	5.45	Fixed Income	2,455,000	2,650,374	0.028%
JNLWMC Balanced Fund	Danske Bank AS	3/1/2030	5.71	Fixed Income	5,865,000	6,138,529	0.065%
JNLWMC Balanced Fund	Westinghouse Air Brake Technologies Corporation	3/1/2034	5.15	Fixed Income	2,215,000	2,451,212	0.026%
JNLWMC Balanced Fund	Treasury, United States Department of	2/15/2044	4.50	Fixed Income	18,712,800	19,633,185	0.207%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2053	5.50	Fixed Income	18,904,550	19,237,027	0.202%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2053	6.50	Fixed Income	15,763,512	16,350,036	0.172%
JNLWMC Balanced Fund	Treasury, United States Department of	2/28/2029	4.25	Fixed Income	36,104,700	37,248,700	0.394%
JNLWMC Balanced Fund	Israel, State of	3/1/2029	5.38	Fixed Income	8,850,000	9,007,204	0.095%
JNLWMC Balanced Fund	Tyson Foods, Inc.	3/15/2034	5.70	Fixed Income	12,264,000	12,957,411	0.136%
JNLWMC Balanced Fund	Federal Home Loan Mortgage Corporation	11/1/2053	5.50	Fixed Income	6,818,475	6,932,000	0.073%
JNLWMC Balanced Fund	Smith & Nephew PLC	3/20/2034	5.60	Fixed Income	8,675,000	9,032,268	0.095%
JNLWMC Balanced Fund	Volkswagen Auto Lease Trust 2024-A	10/20/2026	5.21	Fixed Income	5,090,000	5,172,147	0.054%
JNLWMC Balanced Fund	Emera US Holdings Inc.	6/15/2031	2.64	Fixed Income	5,370,000	4,703,657	0.049%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	6/1/2043	3.00	Fixed Income	4,084,925	3,762,097	0.040%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2043	3.80	Fixed Income	4,528,856	4,327,686	0.046%
JNLWMC Balanced Fund	Glencore Funding LLC	4/4/2054	5.89	Fixed Income	2,978,000	2,561,779	0.027%
JNLWMC Balanced Fund	Glencore Funding LLC	4/4/2029	5.37	Fixed Income	4,385,000	4,647,819	0.049%
JNLWMC Balanced Fund	Glencore Funding LLC	4/4/2034	5.63	Fixed Income	3,745,000	4,017,453	0.042%
JNLWMC Balanced Fund	Treasury, United States Department of	3/31/2026	4.50	Fixed Income	5,261,300	5,761,810	0.060%
JNLWMC Balanced Fund	Treasury, United States Department of	3/31/2029	4.13	Fixed Income	16,352,900	16,727,804	0.176%
JNLWMC Balanced Fund	Metropolitan Transportation Authority	11/15/2049	5.18	Fixed Income	100,000	94,932	0.001%
JNLWMC Balanced Fund	Treasury, United States Department of	4/30/2029	4.63	Fixed Income	30,955,200	32,923,128	0.346%
JNLWMC Balanced Fund	Treasury, United States Department of	4/30/2026	4.88	Fixed Income	8,309,900	8,820,000	0.093%
JNLWMC Balanced Fund	Treasury, United States Department of	4/30/2033	4.63	Fixed Income	9,252,200	9,954,600	0.105%
JNLWMC Balanced Fund	Foundry JV Holdco LLC	1/25/2030	5.90	Fixed Income	1,645,000	1,742,457	0.018%
JNLWMC Balanced Fund	Foundry JV Holdco LLC	1/25/2032	6.15	Fixed Income	7,080,000	7,539,202	0.079%
JNLWMC Balanced Fund	Foundry JV Holdco LLC	1/25/2035	6.25	Fixed Income	15,772,000	16,905,216	0.178%
JNLWMC Balanced Fund	Foundry JV Holdco LLC	1/25/2038	6.40	Fixed Income	7,592,000	8,189,177	0.086%
JNLWMC Balanced Fund	Dominion Energy, Inc.	6/1/2054	7.00	Fixed Income	6,324,000	7,075,474	0.074%
JNLWMC Balanced Fund	Eversource Energy	7/15/2034	5.95	Fixed Income	8,960,000	9,740,605	0.102%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	3.50	Fixed Income	6,639,430	6,233,597	0.066%
JNLWMC Balanced Fund	Treasury, United States Department of	5/1/2027	5.50	Fixed Income	6,224,500	6,740,500	0.071%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2054	4.63	Fixed Income	16,979,400	18,713,963	0.197%
JNLWMC Balanced Fund	BPCE	5/30/2029	5.28	Fixed Income	2,680,000	2,802,815	0.029%
JNLWMC Balanced Fund	Coca-Cola Consolidated, Inc.	6/1/2029	5.25	Fixed Income	10,782,000	11,397,415	0.120%
JNLWMC Balanced Fund	Coca-Cola Consolidated, Inc.	8/1/2034	5.00	Fixed Income	3,120,000	3,349,621	0.035%
JNLWMC Balanced Fund	BPCE	5/30/2035	5.94	Fixed Income	2,620,000	2,795,668	0.029%
JNLWMC Balanced Fund	CNO Global Funding	6/4/2027	5.88	Fixed Income	7,609,000	7,984,690	0.084%
JNLWMC Balanced Fund	Treasury, United States Department of	5/31/2029	4.50	Fixed Income	4,084,300	4,311,861	0.045%
JNLWMC Balanced Fund	Treasury, United States Department of	5/31/2031	4.63	Fixed Income	5,489,400	5,886,074	0.062%
JNLWMC Balanced Fund	Treasury, United States Department of	5/31/2026	4.88	Fixed Income	18,295,100	18,932,148	0.199%
JNLWMC Balanced Fund	Treasury, United States Department of	5/15/2044	4.63	Fixed Income	14,996,900	16,158,701	0.170%
JNLWMC Balanced Fund	Brighthouse Financial, Inc.	6/10/2029	5.65	Fixed Income	10,728,000	11,257,776	0.118%
JNLWMC Balanced Fund	CenterPoint Energy Resources Corp.	7/1/2034	5.40	Fixed Income	2,620,000	2,763,613	0.029%
JNLWMC Balanced Fund	AIG Global Funding	5/24/2029	5.20	Fixed Income	12,065,000	12,616,358	0.133%
JNLWMC Balanced Fund	Federal National Mortgage Association, Inc.	8/1/2052	4.00	Fixed Income	4,773,353	4,601,399	0.048%
JNLWMC Balanced Fund	Canadian Imperial Bank of Commerce	6/28/2027	5.24	Fixed Income	8,105,000	8,435,435	0.089%
JNLWMC Balanced Fund	Ginnie Mae II	6/20/2052	4.50	Fixed Income	6,726,515	6,873,621	0.073%
JNLWMC Balanced Fund	Treasury, United States Department of	6/30/2029	4.25	Fixed Income	38,786,300	40,342,231	0.424%
JNLWMC Balanced Fund	Treasury, United States Department of	6/30/2026	4.63	Fixed Income	60,667,100	62,305,153	0.656%
JNLWMC Balanced Fund	Saudi Arabian Oil Company	7/1/2034	5.25	Fixed Income	7,470,000	7,751,236	0.082%
JNLWMC Balanced Fund	GreenSaf Pipelines Bidco S a r l	2/23/2036	5.85	Fixed Income	5,145,000	5,366,892	0.056%
JNLWMC Balanced Fund	GreenSaf Pipelines Bidco S a r l	8/23/2042	6.10	Fixed Income	8,980,000	8,767,218	0.092%
JNLWMC Balanced Fund	UnitedHealth Group Incorporated	7/15/2054	5.63	Fixed Income	4,551,000	4,931,527	0.052%
JNLWMC Balanced Fund	UnitedHealth Group Incorporated	7/15/2064	5.75	Fixed Income	3,535,000	3,854,812	0.041%
JNLWMC Balanced Fund	UnitedHealth Group Incorporated	7/15/2044	5.50	Fixed Income	6,155,000	6,583,268	0.069%
JNLWMC Balanced Fund	Whistler Pipeline LLC	9/30/2029	5.40	Fixed Income	7,826,000	8,037,588	0.085%
JNLWMC Balanced Fund	Whistler Pipeline LLC	9/30/2031	5.70	Fixed Income	5,415,000	5,637,836	0.059%
JNLWMC Balanced Fund	Lineage, Inc.			Equity	42,516	3,350,840	0.035%
JNLWMC Balanced Fund	Treasury, United States Department of	7/31/2031	4.13	Fixed Income	4,708,500	4,872,914	0.051%
JNLWMC Balanced Fund	Treasury, United States Department of	7/31/2029	4.00	Fixed Income	26,172,100	26,847,383	0.282%
JNLWMC Balanced Fund	Treasury, United States Department of	7/31/2026	4.38	Fixed Income	2,550,000	2,599,475	0.027%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2034	3.88	Fixed Income	32,361,000	32,743,638	0.345%
JNLWMC Balanced Fund	Prologis Targeted U.S. Logistics Fund, L.P.	1/15/2035	5.25	Fixed Income	11,811,000	12,160,846	0.128%
JNLWMC Balanced Fund	Wheels Fleet Lease Funding 1 LLC	2/1/2027	4.87	Fixed Income	7,110,000	7,186,187	0.075%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2027	3.75	Fixed Income	19,791,100	19,978,658	0.210%
JNLWMC Balanced Fund	Prologis Targeted U.S. Logistics Fund, L.P.	8/27/2031	4.65	Fixed Income	6,301,000	6,391,662	0.067%
JNLWMC Balanced Fund	Capital One Financial Corporation	7/26/2035	5.88	Fixed Income	20,062,000	21,245,523	0.224%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2054	4.13	Fixed Income	15,820,000	15,970,497	0.167%
JNLWMC Balanced Fund	Treasury, United States Department of	8/15/2054	4.25	Fixed Income	18,833,500	19,323,351	0.203%
JNLWMC Balanced Fund	Treasury, United States Department of	8/31/2029	3.63	Fixed Income	33,464,900	33,673,362	0.354%
JNLWMC Balanced Fund	Treasury, United States Department of	8/31/2031	3.75	Fixed Income	3,070,100	3,096,269</	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
JNLWMC Balanced Fund	United States 10 Year Note FUTURE - PHYSICALLY DELIVERED			Derivative	-70	30.791	0.000%
JNLWMC Balanced Fund	United States 10 Year Ultra Bond FUTURE - PHYSICALLY DELIVERED			Derivative	-34	59.936	0.001%
Total Derivatives						90.727	
Total All Investments						9,504,198.891	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWMC Equity Income Fund	Cash			Cash Equivalent	300.300	300.300	0.027%
JNLWMC Equity Income Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	4,918,122	4,937,605	0.451%
JNLWMC Equity Income Fund	Archer-Daniels-Midland Company			Equity	271,777	16,235,958	1.482%
JNLWMC Equity Income Fund	American Electric Power Company, Inc.			Equity	113,587	11,654,026	1.063%
JNLWMC Equity Income Fund	American International Group, Inc.			Equity	240,938	17,643,743	1.610%
JNLWMC Equity Income Fund	Honeywell International Inc.			Equity	25,408	5,458,798	0.498%
JNLWMC Equity Income Fund	Barrick Gold Corporation			Equity	548,083	10,901,371	0.995%
JNLWMC Equity Income Fund	Sempra			Equity	228,660	19,264,605	1.758%
JNLWMC Equity Income Fund	Hess Corporation			Equity	77,942	10,584,524	0.969%
JNLWMC Equity Income Fund	DEX Corporation			Equity	26,373	5,657,009	0.516%
JNLWMC Equity Income Fund	M&T Bank Corporation			Equity	88,451	15,754,892	1.438%
JNLWMC Equity Income Fund	Cisco Systems, Inc.			Equity	449,963	23,947,031	2.185%
JNLWMC Equity Income Fund	Deere & Company			Equity	22,461	9,406,667	0.858%
JNLWMC Equity Income Fund	Citerna Energy Inc.			Equity	680,356	16,534,026	1.509%
JNLWMC Equity Income Fund	JPMorgan Chase & Co.			Equity	218,048	45,977,601	4.196%
JNLWMC Equity Income Fund	Canadian National Railway Company			Equity	76,932	9,008,629	0.822%
JNLWMC Equity Income Fund	Almos Energy Corporation			Equity	123,790	17,170,911	1.567%
JNLWMC Equity Income Fund	General Dynamics Corporation			Equity	62,418	18,862,120	1.721%
JNLWMC Equity Income Fund	Gilead Sciences, Inc.			Equity	310,331	26,018,151	2.374%
JNLWMC Equity Income Fund	Omnicom Group Inc.			Equity	75,157	7,823,092	0.714%
JNLWMC Equity Income Fund	EQT Corporation			Equity	532,637	19,515,820	1.781%
JNLWMC Equity Income Fund	Emerson Electric Co.			Equity	115,280	12,608,174	1.151%
JNLWMC Equity Income Fund	Corning Incorporated			Equity	316,474	14,288,801	1.304%
JNLWMC Equity Income Fund	Morgan Stanley			Equity	131,439	13,701,201	1.250%
JNLWMC Equity Income Fund	Bank of America Corporation			Equity	457,015	18,134,355	1.655%
JNLWMC Equity Income Fund	Mettl, Inc.			Equity	204,338	16,853,788	1.538%
JNLWMC Equity Income Fund	Royal Bank of Canada			Equity	85,786	10,706,996	0.977%
JNLWMC Equity Income Fund	Johnson & Johnson			Equity	195,369	31,661,500	2.889%
JNLWMC Equity Income Fund	Raymond James Financial, Inc.			Equity	111,411	13,643,391	1.245%
JNLWMC Equity Income Fund	Eckman Corporation			Equity	289,827	10,941,485	0.998%
JNLWMC Equity Income Fund	Merck & Co., Inc.			Equity	289,922	33,148,518	3.025%
JNLWMC Equity Income Fund	United Parcel Service, Inc.			Equity	93,579	12,758,561	1.164%
JNLWMC Equity Income Fund	Qualcomm Incorporated			Equity	61,404	10,441,750	0.953%
JNLWMC Equity Income Fund	PACCAR Inc			Equity	163,513	16,135,463	1.472%
JNLWMC Equity Income Fund	ConocoPhillips			Equity	296,217	31,689,123	2.846%
JNLWMC Equity Income Fund	PPIL Corporation			Equity	474,176	15,802,283	1.442%
JNLWMC Equity Income Fund	Dominion Energy, Inc.			Equity	198,168	11,452,129	1.045%
JNLWMC Equity Income Fund	Pfizer Inc.			Equity	1,005,333	29,084,337	2.655%
JNLWMC Equity Income Fund	Procter & Gamble Company, The			Equity	72,809	12,610,519	1.151%
JNLWMC Equity Income Fund	Ares Management Corporation			Equity	72,273	11,263,024	1.028%
JNLWMC Equity Income Fund	PPG Industries, Inc.			Equity	82,611	10,942,653	0.999%
JNLWMC Equity Income Fund	Wells Fargo & Company			Equity	135,960	7,680,380	0.701%
JNLWMC Equity Income Fund	Tractor Supply Company			Equity	40,464	11,772,192	1.074%
JNLWMC Equity Income Fund	Nasdaq, Inc.			Equity	159,195	11,622,827	1.061%
JNLWMC Equity Income Fund	Siemens Aktiengesellschaft			Equity	49,494	10,021,187	0.914%
JNLWMC Equity Income Fund	UnitedHealth Group Incorporated			Equity	26,987	15,778,759	1.440%
JNLWMC Equity Income Fund	Permot Ricard			Equity	117,548	17,741,724	1.619%
JNLWMC Equity Income Fund	Starbucks Corporation			Equity	93,196	9,085,678	0.829%
JNLWMC Equity Income Fund	Regions Financial Corporation			Equity	643,738	15,182,062	1.385%
JNLWMC Equity Income Fund	Roche Holding AG			Equity	44,381	14,138,104	1.290%
JNLWMC Equity Income Fund	Celenece Corporation			Equity	86,106	11,706,972	1.068%
JNLWMC Equity Income Fund	TotalEnergies SE			Equity	162,108	10,691,010	0.976%
JNLWMC Equity Income Fund	NXP Semiconductors N.V.			Equity	59,660	14,380,139	1.312%
JNLWMC Equity Income Fund	Targa Resources Corp.			Equity	70,786	10,477,036	0.956%
JNLWMC Equity Income Fund	Philips 66			Equity	40,859	5,370,916	0.490%
JNLWMC Equity Income Fund	Philip Morris International Inc.			Equity	148,365	18,211,804	1.662%
JNLWMC Equity Income Fund	T-Mobile US, Inc.			Equity	68,628	14,162,074	1.292%
JNLWMC Equity Income Fund	Rio Tinto PLC			Equity	235,177	16,737,547	1.527%
JNLWMC Equity Income Fund	AstraZeneca PLC			Equity	148,529	11,571,894	1.056%
JNLWMC Equity Income Fund	Knight-Swift Transportation Holdings Inc.			Equity	105,407	5,688,708	0.519%
JNLWMC Equity Income Fund	Broadcom Inc.			Equity	214,124	36,936,390	3.371%
JNLWMC Equity Income Fund	Booking Holdings Inc.			Equity	3,154	13,285,026	1.212%
JNLWMC Equity Income Fund	Intercontinental Exchange, Inc.			Equity	65,922	10,589,710	0.969%
JNLWMC Equity Income Fund	Elevance Health, Inc.			Equity	20,025	10,413,000	0.950%
JNLWMC Equity Income Fund	Eversource Energy			Equity	136,982	9,321,625	0.851%
JNLWMC Equity Income Fund	Johnson Controls International Public Limited Company			Equity	158,033	12,323,413	1.125%
JNLWMC Equity Income Fund	Crown Castle Inc.			Equity	151,606	17,985,020	1.641%
JNLWMC Equity Income Fund	Host Hotels & Resorts, Inc.			Equity	260,585	4,638,431	0.423%
JNLWMC Equity Income Fund	Weyerhaeuser Company			Equity	459,622	15,562,801	1.420%
JNLWMC Equity Income Fund	Keurig Dr Pepper Inc.			Equity	483,669	18,239,158	1.664%
JNLWMC Equity Income Fund	Unilever PLC			Equity	243,173	15,796,518	1.442%
JNLWMC Equity Income Fund	L3Harris Technologies, Inc.			Equity	67,022	15,942,523	1.455%
JNLWMC Equity Income Fund	Kenvue Inc.			Equity	683,690	15,813,750	1.443%
JNLWMC Equity Income Fund	Industria de Diseño Textil, S.A.			Equity	149,221	4,428,879	0.404%
JNLWMC Equity Income Fund	Te Connectivity Public Limited Company			Equity	82,751	12,494,573	1.140%
Total Non Derivatives						1,095,825,848	
Derivatives							
Total Derivatives						0	
Total All Investments						1,095,825,848	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWMC Global Real Estate Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,840,536	1,852,468	0.274%
JNLWMC Global Real Estate Fund	Centerspace			Equity	73,339	5,223,204	0.772%
JNLWMC Global Real Estate Fund	CTP N.V.			Equity	601,686	11,169,426	1.651%
JNLWMC Global Real Estate Fund	Phillips Edison & Company, Inc.			Equity	189,948	7,144,796	1.056%
JNLWMC Global Real Estate Fund	Essential Properties Realty Trust, Inc.			Equity	524,228	18,054,412	2.669%
JNLWMC Global Real Estate Fund	Cibus Nordic Real Estate AB (publ)			Equity	312,175	5,444,526	0.805%
JNLWMC Global Real Estate Fund	SL Green Realty Corp.			Equity	230,537	16,105,315	2.381%
JNLWMC Global Real Estate Fund	Boardwalk Real Estate Investment Trust			Equity	56,992	3,614,754	0.534%
JNLWMC Global Real Estate Fund	Plymouth Industrial REIT, Inc.			Equity	285,989	6,531,989	0.966%
JNLWMC Global Real Estate Fund	TAG Immobilien AG			Equity	847,699	15,740,617	2.327%
JNLWMC Global Real Estate Fund	Bellway p.l.c.			Equity	122,200	5,068,083	0.749%
JNLWMC Global Real Estate Fund	Taylor Wimpey PLC			Equity	4,531,672	9,982,709	1.476%
JNLWMC Global Real Estate Fund	Lennar Corporation			Equity	27,355	5,128,515	0.758%
JNLWMC Global Real Estate Fund	Acor			Equity	118,606	5,162,002	0.763%
JNLWMC Global Real Estate Fund	Mitsui Fudosan Co., Ltd.			Equity	2,455,275	23,236,078	3.436%
JNLWMC Global Real Estate Fund	Daito Trust Construction Co., Ltd.			Equity	102,727	12,677,347	1.874%
JNLWMC Global Real Estate Fund	Enmar Properties (P.J.S.C.)			Equity	3,182,850	7,556,710	1.117%
JNLWMC Global Real Estate Fund	Invincible Investment Corporation			Equity	4,052	1,754,260	0.259%
JNLWMC Global Real Estate Fund	Swire Pacific Limited			Equity	967,092	8,354,108	1.235%
JNLWMC Global Real Estate Fund	Sekisui House, Ltd.			Equity	477,466	13,271,601	1.962%
JNLWMC Global Real Estate Fund	Brookdale Senior Living Inc.			Equity	1,035,620	7,031,860	1.040%
JNLWMC Global Real Estate Fund	Hyatt Hotels Corporation			Equity	55,093	8,385,155	1.240%
JNLWMC Global Real Estate Fund	Tokyu Fudosan Holdings Co., Ltd.			Equity	498,034	3,500,578	0.518%
JNLWMC Global Real Estate Fund	EastGroup Properties, Inc.			Equity	45,894	8,645,800	1.278%
JNLWMC Global Real Estate Fund	Acadia Realty Trust			Equity	489,314	11,582,062	1.712%
JNLWMC Global Real Estate Fund	Iron Mountain Incorporated			Equity	132,469	15,826,600	2.340%
JNLWMC Global Real Estate Fund	Equinix, Inc.			Equity	41,943	37,229,865	5.505%
JNLWMC Global Real Estate Fund	Stockland Corporation Ltd			Equity	4,737,564	17,185,909	2.541%
JNLWMC Global Real Estate Fund	American Homes 4 Rent			Equity	301,918	11,590,632	1.714%
JNLWMC Global Real Estate Fund	Nippon Building Fund Inc.			Equity	7,700	7,068,354	1.045%
JNLWMC Global Real Estate Fund	CapitaLand Group Pte. Ltd.			Equity	4,176,912	6,942,087	1.026%
JNLWMC Global Real Estate Fund	Prologs Inc.			Equity	246,454	31,122,211	4.602%
JNLWMC Global Real Estate Fund	Tanger Inc.			Equity	217,701	7,223,319	1.068%
JNLWMC Global Real Estate Fund	Cubersmart, L.P.			Equity	127,335	6,854,443	1.013%
JNLWMC Global Real Estate Fund	Klepper			Equity	568,126	18,594,537	2.748%
JNLWMC Global Real Estate Fund	Brimor Property Group Inc.			Equity	386,111	10,757,052	1.590%
JNLWMC Global Real Estate Fund	Simon Property Group, Inc.			Equity	91,798	15,515,698	2.294%
JNLWMC Global Real Estate Fund	Essex Property Trust, Inc.			Equity	68,802	20,494,052	3.030%
JNLWMC Global Real Estate Fund	CBRE Group, Inc.			Equity	42,103	5,240,981	0.775%
JNLWMC Global Real Estate Fund	Ryman Hospitality Properties, Inc.			Equity	47,237	5,117,657	0.757%
JNLWMC Global Real Estate Fund	AvalonBay Communities, Inc.			Equity	119,172	27,046,085	3.999%
JNLWMC Global Real Estate Fund	Extra Space Storage Inc.			Equity	114,986	20,719,327	3.063%
JNLWMC Global Real Estate Fund	Big Yellow Group PLC			Equity	393,813	6,686,487	0.989%
JNLWMC Global Real Estate Fund	Independence Realty Trust, Inc.			Equity	354,791	7,329,982	1.084%
JNLWMC Global Real Estate Fund	Caretrust REIT, Inc.			Equity	375,842	11,707,478	1.731%
JNLWMC Global Real Estate Fund	Denwest London PLC			Equity	213,593	6,921,882	1.023%
JNLWMC Global Real Estate Fund	Digital Realty Trust, Inc.			Equity	40,049	6,481,130	0.958%
JNLWMC Global Real Estate Fund	Welltower Inc.			Equity	303,960	38,915,999	5.754%
JNLWMC Global Real Estate Fund	Empire State Realty Trust, Inc.			Equity	1,234,963	13,683,390	2.023%
JNLWMC Global Real Estate Fund	Goodman Funding Pty Ltd			Equity	530,389	13,619,163	2.014%
JNLWMC Global Real Estate Fund	Scentre Group Limited			Equity	2,815,737	7,119,020	1.054%
JNLWMC Global Real Estate Fund	Lamar Advertising Company			Equity	48,731	6,510,462	0.963%
JNLWMC Global Real Estate Fund	VICI Properties Inc.			Equity	98,068	3,309,498	0.489%
JNLWMC Global Real Estate Fund	Innovative Industrial Properties, Inc.			Equity	24,951	3,405,812	0.504%
JNLWMC Global Real Estate Fund	Shutterstock Capital PLC			Equity	5,593,631	11,186,636	1.651%
JNLWMC Global Real Estate Fund	Pandox Adtecbology			Equity	269,559	5,388,910	0.797%
JNLWMC Global Real Estate Fund	Catena AB			Equity	119,119	6,804,988	1.006%
JNLWMC Global Real Estate Fund	PSP Swiss Property AG			Equity	53,912	7,900,424	1.168%
JNLWMC Global Real Estate Fund	American Healthcare REIT, Inc.			Equity	537,539	14,190,122	2.089%
JNLWMC Global Real Estate Fund	Lineage, Inc.			Equity	137,090	10,797,208	1.586%
JNLWMC Global Real Estate Fund	Hammerson PLC			Equity	1,803,068	7,864,539	1.133%
Total Non Derivatives						676,350,323	
Derivatives							
JNLWMC Global Real Estate Fund	Bought HKD / Sold USD			Derivative		(2,381)	0.000%
Total Derivatives						(2,381)	
Total All Investments						676,347,942	

Fund Name	Investments	Maturity	Coupon %	Asset Type	Shares Par	Value (\$)	% Of Total Investments
Non Derivatives							
JNLWMC Value Fund	Cash			Cash Equivalent	218,717	218,717	0.017%
JNLWMC Value Fund	JNL Government Money Market Fund		4.82	Cash Equivalent	1,356,834	1,391,296	0.111%
JNLWMC Value Fund	Archer-Daniels-Midland Company			Equity	265,513	15,861,747	1.262%
JNLWMC Value Fund	Adobe Inc.			Equity	23,418	12,125,372	0.964%
JNLWMC Value Fund	American International Group, Inc.			Equity	277,517	20,322,570	1.617%
JNLWMC Value Fund	Boston Scientific Corporation			Equity	220,350	18,465,330	1.469%
JNLWMC Value Fund	Sempra			Equity	239,397	20,171,060	1.604%
JNLWMC Value Fund	Hess Corporation			Equity	78,904	10,715,163	0.852%
JNLWMC Value Fund	H & R Block, Inc.			Equity	196,790	12,708,993	1.011%
JNLWMC Value Fund	MAT Bank Corporation			Equity	123,380	21,976,446	1.748%
JNLWMC Value Fund	Cisco Systems, Inc.			Equity	588,186	31,303,259	2.490%
JNLWMC Value Fund	EOG Resources, Inc.			Equity	127,942	15,727,910	1.251%
JNLWMC Value Fund	Colerra Energy Inc.			Equity	618,504	14,837,121	1.180%
JNLWMC Value Fund	JPMorgan Chase & Co.			Equity	228,002	48,076,502	3.824%
JNLWMC Value Fund	Amos Energy Corporation			Equity	137,836	19,119,232	1.521%
JNLWMC Value Fund	General Dynamics Corporation			Equity	53,228	16,085,502	1.279%
JNLWMC Value Fund	Amdocs Limited			Equity	185,987	16,359,547	1.301%
JNLWMC Value Fund	Gilead Sciences, Inc.			Equity	256,085	21,470,166	1.708%
JNLWMC Value Fund	Gentex Corporation			Equity	572,804	17,006,551	1.353%
JNLWMC Value Fund	Omnicom Group Inc.			Equity	168,492	17,539,811	1.395%
JNLWMC Value Fund	Electronic Arts Inc.			Equity	126,583	18,157,066	1.444%
JNLWMC Value Fund	Emerson Electric Co.			Equity	175,926	19,241,027	1.530%
JNLWMC Value Fund	FS, Inc.			Equity	90,036	19,825,927	1.577%
JNLWMC Value Fund	Corning Incorporated			Equity	431,935	19,501,865	1.551%
JNLWMC Value Fund	Morgan Stanley			Equity	191,002	19,910,048	1.584%
JNLWMC Value Fund	MetLife, Inc.			Equity	298,525	24,632,342	1.956%
JNLWMC Value Fund	Johnson & Johnson			Equity	223,783	36,266,273	2.885%
JNLWMC Value Fund	Lennar Corporation			Equity	80,908	15,168,632	1.207%
JNLWMC Value Fund	Raymond James Financial, Inc.			Equity	169,442	20,749,867	1.651%
JNLWMC Value Fund	Merck & Co., Inc.			Equity	153,952	17,374,140	1.382%
JNLWMC Value Fund	United Parcel Service, Inc.			Equity	150,371	20,501,261	1.631%
JNLWMC Value Fund	Qualcomm Incorporated			Equity	70,024	11,907,581	0.947%
JNLWMC Value Fund	The PNC Financial Services Group, Inc.			Equity	102,746	18,992,598	1.511%
JNLWMC Value Fund	ConocoPhillips			Equity	179,774	18,926,607	1.505%
JNLWMC Value Fund	Pfizer Inc.			Equity	929,715	26,905,925	2.140%
JNLWMC Value Fund	3M Company			Equity	122,411	16,733,584	1.331%
JNLWMC Value Fund	Everest Group, Ltd.			Equity	38,244	14,985,147	1.192%
JNLWMC Value Fund	Ares Management Corporation			Equity	114,077	17,777,760	1.414%
JNLWMC Value Fund	Middleby Corporation, The			Equity	101,057	14,060,060	1.118%
JNLWMC Value Fund	LKQ Corporation			Equity	155,254	6,197,740	0.493%
JNLWMC Value Fund	Nasdaq, Inc.			Equity	181,097	13,221,892	1.052%
JNLWMC Value Fund	Centene Corporation			Equity	282,349	21,255,233	1.691%
JNLWMC Value Fund	UnitedHealth Group Incorporated			Equity	81,882	47,874,768	3.808%
JNLWMC Value Fund	Starbucks Corporation			Equity	159,511	15,560,727	1.237%
JNLWMC Value Fund	Roche Holding AG			Equity	47,961	15,278,556	1.215%
JNLWMC Value Fund	Celanese Corporation			Equity	100,527	13,667,651	1.087%
JNLWMC Value Fund	NXP Semiconductors N.V.			Equity	78,505	18,922,588	1.505%
JNLWMC Value Fund	LPL Financial Holdings Inc.			Equity	61,944	14,410,033	1.149%
JNLWMC Value Fund	Targa Resources Corp.			Equity	82,300	12,181,223	0.969%
JNLWMC Value Fund	Phillips 66			Equity	128,553	16,898,292	1.344%
JNLWMC Value Fund	Fortune Brands Innovations, Inc.			Equity	170,919	15,302,378	1.217%
JNLWMC Value Fund	US Foods Holding Corp.			Equity	268,461	16,510,352	1.313%
JNLWMC Value Fund	KKR & Co. Inc.			Equity	132,847	17,347,161	1.380%
JNLWMC Value Fund	AstraZeneca PLC			Equity	171,077	13,328,609	1.060%
JNLWMC Value Fund	Knight-Swift Transportation Holdings Inc.			Equity	233,228	12,562,651	1.001%
JNLWMC Value Fund	Ariano Resources Corporation			Equity	488,320	14,276,868	1.136%
JNLWMC Value Fund	Intercontinental Exchange, Inc.			Equity	107,859	17,326,470	1.378%
JNLWMC Value Fund	Wyndham Hotels & Resorts, Inc.			Equity	168,179	13,141,507	1.045%
JNLWMC Value Fund	Elevance Health, Inc.			Equity	48,185	25,056,200	1.993%
JNLWMC Value Fund	Avaya Coating Systems Ltd.			Equity	385,179	13,939,628	1.109%
JNLWMC Value Fund	Alphabet Inc.			Equity	81,365	13,603,414	1.082%
JNLWMC Value Fund	Johnson Controls International Public Limited Company			Equity	258,439	20,154,272	1.603%
JNLWMC Value Fund	Crown Castle Inc.			Equity	153,673	18,230,228	1.450%
JNLWMC Value Fund	WEC Energy Group Inc.			Equity	149,467	14,375,736	1.143%
JNLWMC Value Fund	Gaming and Leisure Properties, Inc.			Equity	347,659	17,887,056	1.423%
JNLWMC Value Fund	CBRE Group, Inc.			Equity	133,921	16,670,486	1.326%
JNLWMC Value Fund	Keurig Dr Pepper Inc.			Equity	452,877	17,078,361	1.358%
JNLWMC Value Fund	Unilever PLC			Equity	203,090	13,192,726	1.049%
JNLWMC Value Fund	L3Harris Technologies, Inc.			Equity	81,689	19,431,362	1.546%
JNLWMC Value Fund	Kenvue Inc.			Equity	696,221	16,103,592	1.281%
JNLWMC Value Fund	Permot Ricard			Equity	431,557	13,093,439	1.041%
Total Non Derivatives						1,257,181,552	
Derivatives							
Total Derivatives						0	
Total All Investments						1,257,181,552	