

### (Preliminary Subject to Change)



#### **Employees Retirement System**

City of Philadelphia
Employees Retirement System
Executive Summary

**December 31, 2019** 

# **Total Fund Composite**

Market Value: \$5,798.6 Million and 100.0% of Fund

		LIIG	ing December	*				
	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)		
Total Fund Composite		5,798,586,808	72,589,998	100.0	100.0	0		
Total Fund w/o Alternative Assets		4,292,730,376	77,440,882	74.0	69.0	291,705,478		
Investment Grade Fixed Income Composite		705,166,760	5,918	12.2	10.0	125,308,079		
Brandywine Global Investment Management	Global Fixed Income	145,558,967	0	2.5				
Garcia Hamilton & Associates	Int. Govt. Fixed Income	177,316,547	0	3.1				
MetLife Investment Management	Core Plus Fixed Income	48,670,145	5,918	0.8				
Longfellow	Core Plus Fixed Income	172,034,797	0	3.0				
RhumbLine Core Bond Index	Core Fixed Income	161,586,305	0	2.8				
Opportunistic Fixed Income Composite		258,572,988	-3,290,896	4.5	4.0	26,629,516		
T - Apollo Franklin Partnership, L.P.	Opportunistic Fixed Income	9,402,580	0	0.2				
T - Avenue Coppers Opportunity Fund LP	Opportunistic Fixed Income	16,519,249	0	0.3				
T - KKR-PBPR Capital Partners LP	Opportunistic Fixed Income	42,670,818	-2,579,527	0.7				
MetLife Investment Management - EMD	EM Fixed Income	79,041,677	-340,103	1.4				
Strategic Income Management	High Yield Fixed Income	54,477,590	-371,266	0.9				
Lord Abbett High Yield	High Yield Fixed Income	56,023,966	0	1.0				
U.S. Equity Composite		1,788,139,520	-271,106	30.8	30.0	48,563,478		
RhumbLine Russell 1000 Index	Large-Cap Core	1,305,541,466	0	22.5				
0101	Larga Can Value		•	0.6				
O'Shaughnessy Asset Management	Large-Cap Value	31,962,828	0	0.0				
RhumbLine MidCap Index	Mid-Cap Core	31,962,828 168,735,611	-6,391	2.9				
RhumbLine MidCap Index	Mid-Cap Core	168,735,611	-6,391	2.9				
RhumbLine MidCap Index RhumbLine Russell 2000 Index	Mid-Cap Core Small-Cap Core	168,735,611 106,207,867	-6,391 56,508,521	2.9 1.8				
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors	Mid-Cap Core Small-Cap Core Small-Cap Growth	168,735,611 106,207,867 86,018,559	-6,391 56,508,521 0	2.9 1.8 1.5				
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth	168,735,611 106,207,867 86,018,559 30,729,608	-6,391 56,508,521 0	2.9 1.8 1.5 0.5	21.0	-72,569,256		
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital Ariel	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth	168,735,611 106,207,867 86,018,559 30,729,608 58,807,362	-6,391 56,508,521 0 0	2.9 1.8 1.5 0.5 1.0	21.0	-72,569,256		
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital Ariel Non-U.S. Equity Developed Composite	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth Smid-Cap Value	168,735,611 106,207,867 86,018,559 30,729,608 58,807,362 <b>1,145,133,974</b>	-6,391 56,508,521 0 0 0	2.9 1.8 1.5 0.5 1.0	21.0	-72,569,256		
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital Ariel  Non-U.S. Equity Developed Composite  Causeway Capital Management	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth Smid-Cap Value  Non-U.S. Large-Cap Core Non-U.S. Large-Cap	168,735,611 106,207,867 86,018,559 30,729,608 58,807,362 <b>1,145,133,974</b> 84,053,087	-6,391 56,508,521 0 0 -35,000,000 -35,000,000	2.9 1.8 1.5 0.5 1.0 19.7	21.0	-72,569,256		
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital Ariel  Non-U.S. Equity Developed Composite  Causeway Capital Management  Northern Trust MSCI EAFE+Canada	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth Smid-Cap Value  Non-U.S. Large-Cap Core Non-U.S. Large-Cap Core Non-U.S. Small-Cap	168,735,611 106,207,867 86,018,559 30,729,608 58,807,362 <b>1,145,133,974</b> 84,053,087 844,316,672	-6,391 56,508,521 0 0 -35,000,000 -35,000,000	2.9 1.8 1.5 0.5 1.0 19.7 1.4	21.0	-72,569,256		
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital Ariel  Non-U.S. Equity Developed Composite  Causeway Capital Management  Northern Trust MSCI EAFE+Canada  Northern Trust International Small Cap	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth Smid-Cap Value  Non-U.S. Large-Cap Core Non-U.S. Large-Cap Core Non-U.S. Small-Cap Core Non-U.S. Small-Cap	168,735,611 106,207,867 86,018,559 30,729,608 58,807,362 <b>1,145,133,974</b> 84,053,087 844,316,672 111,365,217	-6,391 56,508,521 0 0 0 -35,000,000 -35,000,000	2.9 1.8 1.5 0.5 1.0 19.7 1.4 14.6 1.9	21.0	-72,569,256		
RhumbLine MidCap Index RhumbLine Russell 2000 Index Emerald Advisors Fiera Capital Ariel  Non-U.S. Equity Developed Composite  Causeway Capital Management  Northern Trust MSCI EAFE+Canada  Northern Trust International Small Cap  Strategic Global Advisors	Mid-Cap Core Small-Cap Core Small-Cap Growth Smid-Cap Growth Smid-Cap Value  Non-U.S. Large-Cap Core Non-U.S. Small-Cap Core Non-U.S. Small-Cap Core Non-U.S. Small-Cap Core Non-U.S. Small-Cap	168,735,611 106,207,867 86,018,559 30,729,608 58,807,362 <b>1,145,133,974</b> 84,053,087 844,316,672 111,365,217 34,451,508	-6,391 56,508,521 0 0 -35,000,000 -35,000,000 0	2.9 1.8 1.5 0.5 1.0 19.7 1.4 14.6 1.9 0.6	21.0	-72,569,256 6,269,772		

# **Total Fund Composite**

Market Value: \$5,798.6 Million and 100.0% of Fund

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Cash Composite		157,503,889	115,996,966	2.7	0.0	157,503,889
Cash	Cash & Equivalents	156,843,131	116,003,776	2.7		
Directed Commissions	Cash & Equivalents	660,758	-6,810	0.0		
Absolute Return		30,114,255	0	0.5	0.0	30,114,255
Elizabeth Park Capital Management	Long/Short Hedge Fund	28,685,873	0	0.5		
T - Archview Offshore Fund. LTD	Credit Hedge Fund	1,428,382	0	0.0		
Real Assets Composite		988,520,956	-14,715,956	17.0	19.0	-113,210,538
Real Assets - Public Real Estate Composite		61,444,245	0	1.1	1.0	3,458,377
RhumbLine FTSE NAREIT	Real Assets	61,444,245	0	1.1		
Real Assets - Open-End Real Estate Composite		539,325,906	-3,744,033	9.3	11.0	-98,518,642
UBS Trumbull Fund	Core Real Estate	397,025,643	-3,744,033	6.8		
Clarion Lion Properties Fund	Core Real Estate	142,300,263	0	2.5		
Real Assets - Infrastructure Composite		290,074,277	0	5.0	5.0	144,937
RhumbLine Infrastructure Index	Publicly-Traded Infrastructure	194,099,324	0	3.3		
Rreef Global Infrastructure	Global Infrastructure	95,974,953	0	1.7		
Real Assets - Private Real Estate Composite		80,380,231	-10,910,833	1.4	2.0	-35,591,505
Real Assets - Private Energy/Infrastructure Composite		17,296,296	-61,089	0.3		17,296,296
Private Assets Composite		487,221,222	9,865,071	8.4	12.0	-208,609,195
Private Assets - Private Equity	U.S. Private Equity FoF	461,011,243	9,943,263	8.0		
Private Assets - Private Debt	Mezz. Private Equity	26,209,979	-78,192	0.5		

## Annualized Performance (Net of Fees)

Market Value: \$5,798.6 Million and 100.0% of Fund

	1 Mo	3 Mo	YTD	Fiscal YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception Date
Total Fund Composite	2.3%	5.5%	18.2%	5.8%	18.2%	6.4%	9.6%	8.9%	6.4%	7.3%	7.7%	7.6%	Jul-88
Total Fund Policy Benchmark	2.1%	5.2%	18.4%	5.5%	18.4%	7.2%	9.6%	9.5%	7.2%	8.0%	8.6%	8.4%	Jul-88
Total Fund w/o Alternative Assets	2.7%	7.0%	21.1%	7.1%	21.1%	5.6%	9.6%	8.8%	6.2%	-		6.3%	Jan-14
Investment Grade Fixed Income Composite	0.6%	0.9%	8.1%	2.2%	8.1%	3.6%	4.2%	4.0%	2.6%	2.3%	3.7%	6.0%	Jul-88
Fixed Income Custom Benchmark	0.0%	0.0%	8.0%	2.0%	8.0%	3.9%	3.8%	3.5%	2.9%	2.6%	3.7%	6.2%	Jul-88
Brandywine Global Investment Management	3.3%	3.8%	8.8%	2.0%	8.8%	1.9%	5.4%	5.2%	2.5%	2.1%	5.0%	6.7%	Jan-09
FTSE WGBI TR	0.3%	-0.4%	5.9%	0.5%	5.9%	2.5%	4.1%	3.5%	2.0%	0.8%	1.9%	2.3%	Jan-09
Garcia Hamilton & Associates	0.0%	0.3%	6.2%	1.8%	6.2%	3.7%	3.2%	3.1%	2.8%	2.7%	3.9%	5.1%	Aug-00
BBgBarc US Govt/Credit Int TR	0.1%	0.4%	6.8%	1.7%	6.8%	3.8%	3.2%	2.9%	2.6%	2.2%	3.1%	4.4%	Aug-00
MetLife Investment Management	0.0%	0.2%	9.9%	2.8%	9.9%	4.7%	4.8%	4.6%	3.6%	-		3.6%	Oct-14
BBgBarc US Aggregate TR	-0.1%	0.2%	8.7%	2.5%	8.7%	4.3%	4.0%	3.7%	3.0%	2.7%	3.7%	3.1%	Oct-14
Longfellow	-0.2%	0.1%	8.9%	2.5%	8.9%	4.4%	4.3%	3.9%	3.4%	-		3.4%	Sep-14
BBgBarc US Aggregate TR	-0.1%	0.2%	8.7%	2.5%	8.7%	4.3%	4.0%	3.7%	3.0%	2.7%	3.7%	3.2%	Sep-14
RhumbLine Core Bond Index	-0.2%	0.0%	8.2%	2.4%	8.2%	4.1%	3.9%	3.4%	2.8%	2.4%	3.5%	4.1%	Jun-07
BBgBarc US Aggregate TR	-0.1%	0.2%	8.7%	2.5%	8.7%	4.3%	4.0%	3.7%	3.0%	2.7%	3.7%	4.3%	Jun-07
Opportunistic Fixed Income Composite	2.1%	2.9%	9.1%	2.9%	9.1%	2.7%	4.1%	5.0%	3.0%	3.5%		3.5%	Dec-12
Opportunistic FI Custom Benchmark	1.8%	2.2%	12.2%	3.4%	12.2%	5.5%	5.6%	7.5%	5.4%	5.1%	6.4%	5.1%	Dec-12
T - Apollo Franklin Partnership, L.P.	0.0%	0.3%	8.9%	0.5%	8.9%	4.3%	1.5%	1.2%	-2.5%	-		-2.1%	May-13
50% BarCap HY / 50% CSFB Lev Loans	1.8%	2.1%	11.2%	3.3%	11.2%	5.2%	5.4%	7.4%	5.3%	5.1%	6.4%	4.9%	<i>May-13</i>
T - Avenue Coppers Opportunity Fund LP	0.0%	-0.4%	0.0%	0.9%	0.0%	-5.6%	-2.1%	-0.4%	-0.3%			0.6%	Dec-13
Actuarial Rate	0.6%	1.8%	7.6%	3.7%	7.6%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Dec-13
T - KKR-PBPR Capital Partners LP	0.0%	0.2%	-3.2%	-1.0%	-3.2%	-2.5%	0.6%	2.7%	1.8%	3.7%		4.1%	Jun-12
Actuarial Rate	0.6%	1.8%	7.6%	3.7%	7.6%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Jun-12
MetLife Investment Management - EMD	3.5%	5.3%	15.0%	3.7%	15.0%	4.0%	7.0%	8.8%		-		6.2%	Feb-15
JP Morgan EMBI Global TR	1.9%	2.1%	14.4%	3.5%	14.4%	4.5%	6.1%	7.1%	5.9%	4.0%	6.6%	5.7%	Feb-15
Strategic Income Management	2.9%	3.3%	12.0%	4.2%	12.0%	5.6%	6.2%					8.6%	Mar-16
ICE BofAML US High Yield TR	2.1%	2.6%	14.4%	3.9%	14.4%	5.8%	6.3%	9.0%	6.1%	5.8%	7.5%	8.7%	Mar-16

### Annualized Performance (Net of Fees)

Market Value: \$5,798.6 Million and 100.0% of Fund

							•		•				
	1 Mo	3 Mo	YTD	Fiscal YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception Date
Lord Abbett High Yield	1.9%	3.1%		4.7%		-	-	-	-	-		11.4%	Jan-19
ICE BofAML US High Yield TR	d 2.1%	2.6%	14.4%	3.9%	14.4%	5.8%	6.3%	9.0%	6.1%	5.8%	7.5%	9.4%	Jan-19
U.S. Equity Composite	2.7%	9.0%	30.8%	9.5%	30.8%	10.5%	13.9%	13.3%	10.3%	13.4%	12.9%	9.8%	Jul-88
U.S. Equity Custom Benchmark	2.8%	9.0%	30.2%	9.6%	30.2%	11.1%	14.3%	13.9%	11.1%	14.3%	13.3%	10.5%	Jul-88
RhumbLine Russell 1000 Index	2.9%	9.0%	31.5%	10.6%	31.5%	12.0%	15.2%	14.4%	11.6%	14.6%	13.4%	8.6%	May-07
Rhumbline Russell 1000 Custom Benchmark	2.9%	9.1%	31.5%	10.6%	31.5%	12.0%	15.1%	14.3%	11.5%	14.7%			<i>May-07</i>
O'Shaughnessy Asset Management	1.7%	8.3%	28.4%	8.6%	28.4%	6.7%	12.1%	12.6%	8.3%	13.5%		13.4%	Jun-12
Russell 1000 Value	2.8%	7.4%	26.5%	8.9%	26.5%	7.7%	9.7%	11.5%	8.3%	12.2%	11.8%	12.5%	Jun-12
RhumbLine MidCap Index	2.3%	7.0%	30.5%	7.5%	30.5%	9.0%	12.0%					12.0%	Dec-16
Rhumbline Russell Mid Ca Custom Benchmark	ap 2.3%	7.0%	30.7%	7.6%	30.7%	9.0%	12.1%					12.1%	Dec-16
RhumbLine Russell 2000 Index	2.8%	9.9%	25.6%	7.3%	25.6%	5.9%	8.8%	-	-	-		8.8%	Dec-16
Rhumbline Russell 2000 Custom Benchmark	2.8%	8.7%	24.2%	6.2%	24.2%	5.2%	8.3%					8.3%	Dec-16
Emerald Advisors	2.2%	11.2%	29.7%	3.4%	29.7%	7.5%	14.0%	12.8%	10.9%	15.2%	14.9%	10.0%	Dec-04
Russell 2000 Growth	2.3%	11.4%	28.5%	6.7%	28.5%	7.9%	12.5%	12.2%	9.3%	13.1%	13.0%	8.8%	Dec-04
Fiera Capital	0.5%	11.4%	31.6%	5.5%	31.6%	9.3%	14.9%	11.8%	9.0%	13.0%	14.3%	14.3%	Dec-09
Russell 2500 Growth	0.9%	10.6%	32.7%	7.1%	32.7%	10.8%	15.2%	13.8%	10.8%	14.1%	14.0%	14.0%	Dec-09
Ariel	2.3%	9.2%	25.8%	6.5%	25.8%	4.2%	8.0%					11.4%	Jan-16
Russell 2500 Value	3.0%	7.1%	23.6%	7.2%	23.6%	4.1%	6.1%	10.6%	7.2%	10.6%	11.3%	12.6%	Jan-16
Non-U.S. Equity Developed Composite	3.4%	8.7%	23.2%	8.0%	23.2%	2.2%	9.3%	7.4%	5.2%	5.6%	5.2%	5.7%	Jan-89
Non-U.S. Equity Developed Custom Benchmark	3.4%	8.6%	22.9%	7.7%	22.9%	2.3%	9.7%	7.8%	5.9%	6.6%	5.9%	-	Jan-89
Causeway Capital Management	4.0%	11.4%	20.2%	8.5%	20.2%	-0.3%	8.2%	6.0%	4.3%	6.0%		8.0%	Nov-11
MSCI EAFE	3.2%	8.2%	22.0%	7.0%	22.0%	2.6%	9.6%	7.4%	5.7%	6.3%	5.5%	7.5%	Nov-11
MSCI EAFE Value	3.7%	7.8%	16.1%	5.9%	16.1%	-0.5%	6.3%	6.0%	3.5%	4.8%	4.0%	6.1%	Nov-11
Northern Trust MSCI EAFE+Canada	3.1%	7.9%	23.5%	7.3%	23.5%	3.4%	9.9%	8.1%	5.9%	6.3%	5.9%	3.5%	Mar-07
Northern Trust MSCI EAFI + Canada Custom Benchmark	E 3.1%	7.9%	23.7%	7.3%	23.7%	3.5%	10.1%	8.3%	6.1%	7.0%	6.2%	3.1%	<i>Mar-</i> 07

## Annualized Performance (Net of Fees)

Market Value: \$5,798.6 Million and 100.0% of Fund

	1 Mo	3 Mo	YTD	Fiscal YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception Date
Northern Trust International Small Cap	4.3%	11.3%	25.0%	10.9%	25.0%							0.7%	Mar-18
Northern Trust EAFE Small Cap Custom Benchmark	4.3%	11.5%	25.7%	11.4%	25.7%							1.4%	Mar-18
Strategic Global Advisors	4.4%	10.3%	20.9%	8.0%	20.9%	-2.2%						-0.9%	Nov-17
MSCI World ex USA Small Cap	4.6%	11.4%	25.4%	11.1%	25.4%	1.4%	10.4%	8.9%	8.2%	8.4%	8.0%	2.7%	Nov-17
Mackenzie Investments	4.1%	11.0%	23.8%	13.0%	23.8%	0.0%		-				1.5%	Nov-17
MSCI EAFE Small Cap	4.4%	11.5%	25.0%	11.0%	25.0%	1.3%	10.9%	8.7%	8.9%	9.4%	8.7%	2.5%	Nov-17
Non-U.S. Equity Emerging Composite	7.8%	12.6%	18.8%	7.7%	18.8%	0.8%	12.2%	11.8%	5.7%	3.4%	3.0%	9.1%	Jan-09
MSCI Emerging Markets	7.5%	11.8%	18.4%	7.1%	18.4%	0.6%	11.6%	11.5%	5.6%	3.3%	3.7%	9.7%	Jan-09
RhumbLine Emerging Markets Index	7.8%	12.6%	18.8%	7.7%	18.8%	0.8%	12.2%	11.8%	6.0%			3.2%	Feb-13
MSCI Emerging Markets	7.5%	11.8%	18.4%	7.1%	18.4%	0.6%	11.6%	11.5%	5.6%	3.3%	3.7%	3.1%	Feb-13

### Annualized Performance (Net of Fees)

Market Value: \$5,798.6 Million and 100.0% of Fund

	1 Mo	3 Mo	YTD	Fiscal YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception Date
Absolute Return	1.8%	6.4%	9.8%	3.5%	9.8%	-3.2%	1.1%	2.5%	1.0%	2.5%	2.5%	2.5%	Sep-05
HFRI Fund of Funds Composite Index	1.3%	2.5%	7.8%	1.5%	7.8%	1.7%	3.7%	2.9%	2.2%	3.3%	2.8%	2.6%	Sep-05
Elizabeth Park Capital Management	1.9%	6.8%	12.5%	5.2%	12.5%	-1.7%	2.5%	6.4%	6.5%	-		6.6%	May-14
HFRX Event Driven Index	2.0%	5.4%	10.0%	7.3%	10.0%	-1.4%	1.1%	3.5%	1.3%	2.2%	1.8%	0.0%	May-14
T - Archview Offshore Fund. LTD	0.0%	-0.8%	-26.7%	-21.7%	-26.7%	-21.1%	-12.9%	-8.4%	-8.5%			-6.9%	Mar-14
HFRI ED: Distressed/Restructuring Index	1.2%	-0.1%	2.9%	-1.8%	2.9%	0.6%	2.4%	5.5%	2.6%	3.6%	4.5%	1.6%	Mar-14
Real Assets Composite	1.9%	1.6%	9.0%	3.6%	9.0%	5.5%	6.0%	7.1%	3.1%	6.4%		6.4%	Dec-12
Real Assets Benchmark	1.1%	0.8%	10.1%	2.8%	10.1%	5.7%	4.9%	7.1%	-0.1%	3.0%		3.0%	Dec-12
Real Assets - Public Real Estate Composite	0.6%	0.1%	28.6%	7.9%	28.6%	11.0%	10.2%	9.9%	8.4%			9.9%	Jan-13
FTSE NAREIT All Equity REIT Custom Benchmark	0.6%	0.1%	21.3%	1.7%	21.3%	7.9%	8.1%	8.3%	7.2%				Jan-13
RhumbLine FTSE NAREIT	0.6%	0.1%	28.6%	7.9%	28.6%	11.0%	10.2%	9.9%	8.4%	-		8.5%	May-13
FTSE NAREIT All Equity REIT Custom Benchmark	0.6%	0.1%	21.3%	1.7%	21.3%	7.9%	8.1%	8.3%	7.2%			7.6%	<i>May-</i> 13
Real Assets - Open-End Real Estate Composite	0.7%	0.7%	-0.3%	1.6%	-0.3%	3.2%	-	-	-	-	-	4.0%	Jan-17
NFI	0.0%	0.0%	3.1%	1.1%	3.1%	5.2%	5.7%	6.2%	7.7%	9.0%	10.3%	5.7%	Jan-17
UBS Trumbull Fund	0.3%	0.3%	-2.4%	1.0%	-2.4%	1.8%						3.1%	Jan-17
NFI	0.0%	0.0%	3.1%	1.1%	3.1%	5.2%	5.7%	6.2%	7.7%	9.0%	10.3%	5.7%	Jan-17
Clarion Lion Properties Fund	2.0%	2.0%	6.4%	3.4%	6.4%	-						8.1%	Feb-18
NFI	0.0%	0.0%	3.1%	1.1%	3.1%	5.2%	5.7%	6.2%	7.7%	9.0%	10.3%	5.1%	Feb-18
Real Assets - Infrastructure Composite	5.3%	4.3%	29.8%	7.3%	29.8%	9.8%	-					10.1%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	5.3%	4.0%	28.7%	6.6%	28.7%	8.9%	11.1%	11.5%	5.7%	8.6%	10.2%	9.3%	Mar-17
RhumbLine Infrastructure Index	5.4%	4.1%	29.4%	6.9%	29.4%	9.6%						10.0%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	5.3%	4.0%	28.7%	6.6%	28.7%	8.9%	11.1%	11.5%	5.7%	8.6%	10.2%	9.3%	Mar-17
Rreef Global Infrastructure	5.1%	4.7%	31.2%	7.9%	31.2%							15.5%	Mar-18
Dow Jones Brookfield Global Infrastructure Index	5.3%	4.0%	28.7%	6.6%	28.7%	8.9%	11.1%	11.5%	5.7%	8.6%	10.2%	13.7%	Mar-18



### Annualized Performance (Net of Fees)

Market Value: \$5,798.6 Million and 100.0% of Fund

#### **Ending December 31, 2019**

		1 Mo	3 Mo	YTD	Fiscal YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception Date
ı	Real Assets - Private Real Estate Composite	0.0%	0.0%	5.2%	1.8%	5.2%	5.4%	6.2%	6.4%	7.9%	9.7%	9.2%	4.0%	May-06
	Real Assets - Private Real Estate Benchmark	0.0%	0.0%	5.2%	1.8%	5.2%	5.4%	6.2%	6.4%	7.9%	9.7%			<i>May-</i> 06
	Real Assets - Private Energy/Infrastructure Composite	0.0%	0.0%	10.8%	1.1%	10.8%	20.5%	18.4%	15.2%	-2.0%	9.9%		8.2%	May-12
	Real Assets - Private Energy/Infrastructure Benchmark	0.0%	0.0%	10.8%	1.1%	10.8%	20.5%	18.4%	15.2%	-2.0%	9.9%		8.2%	May-12
ı	Private Assets Composite	0.0%	0.0%	14.2%	0.0%	14.2%	15.4%	15.0%	13.4%	12.2%	12.2%	13.1%	8.9%	Mar-87
	Private Assets Composite Benchmark	0.0%	0.0%	14.2%	0.0%	14.2%	15.4%	15.0%	13.4%	12.2%	12.2%	13.1%	8.9%	Mar-87

Please note: As of January 1, 2019, the total fund policy index incorporates the adjustments as approved by the Board of Trustees to reflect the fundamental changes adopted as a result of the approved asset allocation. T represents any investment terminated by the Board of Trustees.

