

(Preliminary Subject to Change)



**Employees Retirement System** 

City of Philadelphia Employees Retirement System Executive Summary October 31, 2020 **Total Fund Composite** 

#### Ending October 31, 2020 3 Mo Net Cash Flows (\$) % of Portfolio Market Value Policy Difference Asset Class Policy % (\$) (\$) **Total Fund Composite** 5,768,473,515 -67,474,183 100.0 100.0 0 Total Fund w/o Alternative Assets 4,283,773,740 -68,414,495 74.3 71.0 188,157,544 Investment Grade Fixed Income Composite 743,069,943 5,218 12.9 13.0 -6,831,614 Brandywine Global Investment Management **Global Fixed Income** 148,417,619 0 2.6 0 3.2 Int. Govt. Fixed Income 187,016,457 Garcia Hamilton & Associates MetLife Investment Management Core Plus Fixed Income 51,822,704 5,218 0.9 Longfellow Core Plus Fixed Income 183,945,843 0 3.2 RhumbLine Core Bond Index Core Fixed Income 171,867,319 0 3.0 **Opportunistic Fixed Income Composite** 230,121,973 -410,179 4.0 4.0 -616,967 Opportunistic Fixed T - Apollo Franklin Partnership, L.P. 7,202,071 0 0.1 Income Opportunistic Fixed T - Avenue Coppers Opportunity Fund LP 0 0.2 13,757,060 Income Opportunistic Fixed T - KKR-PBPR Capital Partners LP 20,779,602 -418,326 0.4 Income MetLife Investment Management - EMD 77,820,123 90,000 1.3 EM Fixed Income 0.9 High Yield Fixed Income 54,385,743 0 Strategic Income Management Lord Abbett High Yield High Yield Fixed Income 55,720,631 -97,655 1.0 U.S. Equity Composite 1,833,911,321 0 31.8 28.0 218.738.736 RhumbLine Russell 1000 Index 23.5 Large-Cap Core 1.356.712.688 0 O'Shaughnessy Asset Management 27,052,798 0 0.5 Large-Cap Value RhumbLine MidCap Index Mid-Cap Core 165,999,739 -12,655 2.9 RhumbLine Russell 2000 Index Small-Cap Core 99,094,139 -7,510 1.7 **Emerald Advisors** Small-Cap Growth 96,468,944 0 1.7 Fiera Capital Smid-Cap Growth 36,171,265 0 0.6 Ariel Smid-Cap Value 52,242,555 0 0.9 Non-U.S. Equity Developed Composite 23.0 -285,963,483 1,040,785,425 0 18.0 Non-U.S. Large-Cap 0 Causeway Capital Management 68,100,127 1.2 Core Non-U.S. Large-Cap Northern Trust MSCI EAFE+Canada 768,603,773 0 13.3 Core Non-U.S. Small-Cap Northern Trust International Small Cap 103,261,584 0 1.8 Core Non-U.S. Small-Cap 0 0.5 Strategic Global Advisors 31,348,191 Core Non-U.S. Small-Cap Mackenzie Investments 65,355,118 0 1.1 Core 237,628,883 4.1 3.0 64,574,678 Non-U.S. Equity Emerging Composite 0 RhumbLine Emerging Markets Index **Emerging Markets** 237,624,406 0 4.1

#### Market Value: \$5,768.5 Million and 100.0% of Fund

Total Fund Composite

Market Value: \$5,768.5 Million and 100.0% of Fund

Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
	198,256,194	-68,009,534	3.4	0.0	198,256,194
Cash & Equivalents	197,620,133	-68,007,089	3.4		
Cash & Equivalents	636,060	-2,445	0.0		
	20,453,119	0	0.4	0.0	20,453,119
Long/Short Hedge Fund	19,288,208	0	0.3		
Credit Hedge Fund	1,164,910	0	0.0		
	886,852,374	-12,812,964	15.4	17.0	-93,788,124
	52,136,834	0	0.9	1.0	-5,547,901
Real Assets	52,136,834	0	0.9		
	514,190,665	-4,640,111	8.9	10.0	-62,656,686
Core Real Estate	372,612,866	-4,349,387	6.5		
Core Real Estate	141,577,799	-290,724	2.5		
	254,992,832	0	4.4	5.0	-33,430,844
Publicly-Traded Infrastructure	166,838,742	0	2.9		
Global Infrastructure	88,154,091	0	1.5		
	65,532,042	-8,172,853	1.1	1.0	7,847,307
	577,394,283	13,753,276	10.0	12.0	-114,822,538
U.S. Private Equity FoF	534,788,172	13,765,316	9.3		
Mezz. Private Equity	42,606,111	-12,039	0.7		
	Cash & Equivalents Cash & Equivalents Cash & Equivalents Coredit Hedge Fund Credit H	Asset Class       Market Value (\$)         198,256,194       198,256,194         Cash & Equivalents       197,620,133         Cash & Equivalents       636,060         Cash & Equivalents       636,060         Long/Short Hedge Fund       19,288,208         Credit Hedge Fund       19,288,208         Credit Hedge Fund       1,164,910         Real Assets       52,136,834         Core Real Estate       372,612,866         Core Real Estate       372,612,866         Core Real Estate       372,612,866         Core Real Estate       141,577,799         Publicly-Traded       166,838,742         Infrastructure       88,154,091         Global Infrastructure       88,154,091         U.S. Private Equity FoF       534,788,172	Asset Class     Market Value (\$)     3 Mo Net Cash Flows (\$)       198,256,194     -68,009,534       Cash & Equivalents     197,620,133     -68,007,089       Cash & Equivalents     636,060     -2,445       Core Sport Hedge Fund     19,288,208     00       Credit Hedge Fund     1,164,910     0       Real Assets     52,136,834     0       Core Real Estate     372,612,866     -4,349,387       Global Infrastructure     88,154,091     0       Global Infrastructure     88,154,091     0       Global Infrastructure     534,788,172     13,765,316       U.S. Private Equity FoF     534,788,172     13,765,316	Asset Class     Market Value (\$)     3 Mo Net Cash Flows (\$)     % of Portfolio       198,256,194     -68,009,534     3.4       Cash & Equivalents     197,620,133     -68,007,089     3.4       Cash & Equivalents     636,060     -2,445     0.0       Cash & Equivalents     636,060     -2,445     0.0       Long/Short Hedge Fund     19,288,208     0     0.3       Credit Hedge Fund     19,288,208     0     0.3       Credit Hedge Fund     11,164,910     0     0.0       Real Assets     52,136,834     0     0.9       Real Assets     52,136,834     0     0.9       Core Real Estate     372,612,866     -4,349,387     6.5       Core Real Estate     372,612,866     -4,349,387     6.5       Core Real Estate     372,612,866     -4,349,387     6.5       Publicity-Traded     166,838,742     0     2.9       Infrastructure     88,154,091     0     1.5       Global Infrastructure     88,154,091     0     1.5       INS. Private Equity FoF     534,788,172     13,765,316     9.3	Asset Class       Market Value (\$)       3 Mo Net Cash Flows (\$)       % of Portfolio       Policy %         198,256,194       -68,009,534       3.4       0.0         Cash & Equivalents       197,620,133       -68,007,089       3.4         Cash & Equivalents       636,060       -2,445       0.0         Cash & Equivalents       636,060       -2,445       0.0         Long/Short Hedge Fund       19,288,208       0.0       0.0         Credit Hedge Fund       1,164,910       0.0       0.0         Credit Hedge Fund       1,164,910       0.0       0.0         Real Assets       52,136,834       0       0.9       1.0         Core Real Estate       372,612,866       -4,349,387       6.5       .0         Core Real Estate       372,612,866       -4,349,387       6.5       .0       .0         Core Real Estate       141,577,799       -290,724       2.5       .0       .0       .0         Publicly-Traded Infrastructure       166,838,742       0       1.6       .0       .0       .0       .0         Global Infrastructure       88,154,091       0       1.0

#### Ending October 31, 2020

2 Marquette Associates, Inc.

## Investment Manager

### Annualized Performance (Net of Fees)

Market Value: \$5,768.5 Million and 100.0% of Fund

### Ending October 31, 2020

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	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	-1.2%	0.1%	-2.8%	3.2%	1.4%	6.2%	4.8%	7.3%	6.2%	5.4%	6.5%	7.3%	Jul-88
Total Fund Policy Benchmark	-1.2%	0.2%	-1.4%	3.2%	2.8%	7.5%	5.9%	7.8%	7.0%	6.3%	7.2%	8.2%	Jul-88
Total Fund w/o Alternative Assets	-1.4%	0.4%	-1.8%	4.5%	2.7%	6.7%	4.0%	7.2%	6.1%			5.2%	Jan-14
Investment Grade Fixed Income Composite	-0.1%	-1.1%	5.2%	1.3%	5.4%	7.7%	4.4%	3.8%	4.0%	3.2%	3.4%	6.0%	Jul-88
Fixed Income Custom Benchmark	-0.4%	-1.2%	6.5%	0.8%	6.1%	8.5%	4.9%	3.9%	4.0%	3.7%	3.5%	6.2%	Jul-88
Brandywine Global Investment Management	0.6%	-1.4%	1.6%	4.4%	2.8%	6.5%	2.5%	3.2%	4.0%	2.7%	3.7%	6.3%	Jan-09
FTSE WGBI TR	-0.2%	-0.8%	6.9%	2.8%	6.0%	7.9%	4.5%	3.4%	3.9%	2.1%	1.7%	2.8%	Jan-09
Garcia Hamilton & Associates	-0.1%	-0.5%	5.4%	0.4%	5.3%	6.5%	4.3%	3.4%	3.5%	3.4%	3.6%	5.2%	Aug-00
BBgBarc US Govt/Credit Int TR	-0.2%	-0.3%	5.7%	0.4%	5.7%	7.2%	4.4%	3.4%	3.4%	3.0%	2.8%	4.5%	Aug-00
MetLife Investment Management	-0.5%	-1.2%	6.2%	0.5%	6.1%	9.0%	5.4%	4.6%	4.7%			4.2%	Oct-14
BBgBarc US Aggregate TR	-0.4%	-1.3%	6.3%	0.2%	6.2%	8.8%	5.1%	4.0%	4.1%	3.8%	3.6%	3.7%	Oct-14
Longfellow	-0.2%	-1.1%	6.7%	1.4%	6.6%	8.9%	5.3%	4.4%	4.4%			4.0%	Sep-14
BBgBarc US Aggregate TR	-0.4%	-1.3%	6.3%	0.2%	6.2%	8.8%	5.1%	4.0%	4.1%	3.8%	3.6%	3.8%	Sep-14
RhumbLine Core Bond Index	-0.5%	-1.4%	6.3%	0.0%	6.1%	8.6%	5.0%	3.9%	3.9%	3.6%	3.3%	4.4%	Jun-07
BBgBarc US Aggregate TR	-0.4%	-1.3%	6.3%	0.2%	6.2%	8.8%	5.1%	4.0%	4.1%	3.8%	3.6%	4.5%	Jun-07
Opportunistic Fixed Income Composite	0.5%	0.7%	-9.9%	4.2%	-8.1%	-2.2%	-1.5%	0.5%	1.3%	1.3%		1.8%	Dec-12
Opportunistic FI Custom Benchmark	0.2%	0.7%	0.3%	4.1%	2.5%	4.4%	3.8%	4.6%	5.4%	4.4%	5.3%	4.6%	Dec-12
T - Apollo Franklin Partnership, L.P.	0.0%	11.8%	-22.9%	12.1%	-23.6%	-12.7%	-6.6%	-5.8%	-5.8%	-6.0%		-5.3%	May-13
50% BarCap HY / 50% CSFB Lev Loans	0.3%	1.4%	0.3%	4.7%	2.5%	4.0%	3.6%	4.5%	5.2%	4.3%	5.3%	4.3%	May-13
T - Avenue Coppers Opportunity Fund LP	0.0%	-3.4%	-10.2%	-3.9%	-9.4%	-6.3%	-6.4%	-3.5%	-2.8%			-0.8%	Dec-13
Actuarial Rate	0.6%	1.8%	6.3%	2.5%	7.6%	7.6%	7.6%	7.7%	7.7%	7.7%	7.7%	7.7%	Dec-13
T - KKR-PBPR Capital Partners LP	1.0%	1.0%	-48.4%	1.0%	-49.1%	-31.3%	-21.4%	-15.2%	-11.0%	-7.4%		-4.4%	Jun-12
Actuarial Rate	0.6%	1.8%	6.3%	2.5%	7.6%	7.6%	7.6%	7.7%	7.7%	7.7%	7.7%	7.7%	Jun-12
MetLife Investment Management - EMD	0.6%	-0.4%	-1.4%	3.3%	2.0%	6.9%	2.5%	4.4%	6.1%			5.0%	Feb-15
JP Morgan EMBI Global TR	-0.1%	-1.5%	0.3%	2.2%	2.0%	7.7%	3.2%	3.8%	5.3%	4.8%	5.0%	4.9%	Feb-15
Strategic Income Management	0.1%	2.7%	-0.5%	6.4%	2.3%	4.2%	3.9%	5.2%				6.9%	Mar-16
ICE BofA US High Yield TR	0.5%	0.4%	0.1%	5.2%	2.5%	5.4%	3.9%	5.2%	6.1%	4.9%	6.1%	7.1%	Mar-16

## Investment Manager

### Annualized Performance (Net of Fees)

Market Value: \$5,768.5 Million and 100.0% of Fund

#### Ending October 31, 2020

							ing ou		., 2020				
	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	0.8%	-0.1%	-0.4%	6.1%	2.2%							6.2%	Jan-19
ICE BofA US High Yield TR	0.5%	0.4%	0.1%	5.2%	2.5%	5.4%	3.9%	5.2%	6.1%	4.9%	6.1%	5.4%	Jan-19
U.S. Equity Composite	-1.5%	1.6%	2.5%	7.3%	9.4%	11.2%	9.3%	12.8%	10.6%	10.0%	12.1%	9.7%	Jul-88
U.S. Equity Custom Benchmark	-1.2%	1.7%	1.2%	7.1%	8.0%	10.4%	9.1%	12.7%	10.9%	10.7%	12.5%	10.3%	Jul-88
RhumbLine Russell 1000 Index	-2.4%	0.9%	3.9%	6.8%	10.9%	12.6%	10.7%	13.9%	11.9%	11.5%	12.9%	8.4%	May-07
Rhumbline Russell 1000 Custom Benchmark	-2.4%	0.9%	3.8%	6.8%	10.9%	12.6%	10.7%	13.8%	11.8%	11.5%			<i>May-</i> 07
O'Shaughnessy Asset Management	-0.7%	0.1%	-15.6%	3.5%	-10.2%	-1.3%	1.0%	6.3%	5.0%	5.6%		9.7%	Jun-12
Russell 1000 Value	-1.3%	0.2%	-12.7%	4.2%	-7.6%	1.4%	1.9%	5.7%	5.8%	6.5%	9.5%	9.4%	Jun-12
RhumbLine MidCap Index	0.6%	2.1%	-1.6%	8.2%	4.2%	8.9%	6.8%					8.8%	Dec-16
Rhumbline Russell Mid Cap Custom Benchmark	0.6%	2.2%	-1.6%	8.2%	4.2%	9.0%	6.9%					8.9%	Dec-16
RhumbLine Russell 2000 Index	2.1%	4.4%	-6.7%	7.2%	-0.1%	2.5%	2.3%					4.9%	Dec-16
Rhumbline Russell 2000 Custom Benchmark	2.1%	4.3%	-6.8%	7.2%	-0.1%	2.4%	2.2%					4.8%	Dec-16
Emerald Advisors	1.9%	4.5%	11.6%	11.2%	19.0%	13.9%	10.9%	16.4%	11.9%	11.1%	14.7%	10.2%	Dec-04
Russell 2000 Growth	0.8%	4.4%	4.7%	8.0%	13.4%	9.8%	7.9%	13.3%	10.4%	9.1%	12.0%	8.6%	Dec-04
Fiera Capital	0.6%	8.2%	17.2%	14.5%	27.0%	18.6%	13.6%	17.1%	12.6%	11.2%	13.8%	14.8%	Dec-09
Russell 2500 Growth	1.2%	4.9%	12.9%	10.7%	21.7%	16.6%	12.8%	16.9%	13.3%	11.5%	13.8%	14.1%	Dec-09
Ariel	2.7%	3.8%	-11.5%	7.7%	-5.8%	0.4%	0.9%	5.4%				6.5%	Jan-16
Russell 2500 Value	2.3%	2.8%	-16.5%	5.9%	-11.9%	-3.3%	-2.1%	3.0%	3.9%	4.1%	7.8%	6.2%	Jan-16
Non-U.S. Equity Developed Composite	-3.8%	-1.0%	-9.3%	2.3%	-4.8%	2.7%	-0.8%	4.8%	3.0%	1.8%	3.5%	5.2%	Jan-89
Non-U.S. Equity Developed Custom Benchmark	-3.8%	-0.9%	-10.1%	1.9%	-5.7%	2.1%	-1.0%	4.7%	3.5%	2.3%	4.1%		Jan-89
Causeway Capital Management	-3.9%	-4.0%	-19.4%	-2.8%	-13.9%	-5.3%	-6.1%	1.0%	-0.3%	-0.2%		4.6%	Nov-11
MSCI EAFE	-4.0%	-1.7%	-10.8%	0.6%	-6.9%	1.7%	-1.2%	4.4%	2.8%	1.9%	3.8%	5.4%	Nov-11
MSCI EAFE Value	-4.0%	-3.1%	-21.6%	-2.9%	-18.4%	-7.2%	-7.4%	-0.5%	-1.1%	-1.5%	1.3%	2.7%	Nov-11
Northern Trust MSCI EAFE+Canada	-3.8%	-1.5%	-9.0%	1.5%	-5.0%	3.4%	0.0%	5.2%	3.7%	2.3%	4.1%	2.5%	Mar-07
Northern Trust MSCI EAFE + Canada Custom Benchmark	-3.8%	-1.5%	-9.0%	1.4%	-4.9%	3.5%	0.1%	5.4%	3.9%	2.9%	4.6%	2.2%	Mar-07

### Annualized Performance (Net of Fees)

Market Value: \$5,768.5 Million and 100.0% of Fund

### Ending October 31, 2020

	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	-3.5%	2.9%	-7.5%	6.3%	-1.4%	3.7%						-2.5%	Mar-18
Northern Trust EAFE Small Cap Custom Benchmark	-3.5%	3.0%	-7.3%	6.4%	-1.1%	4.1%						-2.0%	Mar-18
Strategic Global Advisors	-6.0%	-0.1%	-9.7%	5.0%	-3.7%	0.5%						-4.1%	Nov-17
MSCI World ex USA Small Cap	-3.2%	2.6%	-7.2%	6.6%	-0.7%	3.9%	-0.2%	5.8%	5.4%	4.2%	5.8%	-0.6%	Nov-17
Mackenzie Investments	-2.8%	2.1%	-3.1%	10.3%	1.7%	6.0%						0.0%	Nov-17
MSCI EAFE Small Cap	-3.5%	3.0%	-7.5%	6.4%	-1.4%	3.6%	-0.4%	6.0%	5.4%	4.7%	6.5%	-0.9%	Nov-17
Non-U.S. Equity Emerging Composite	2.2%	4.0%	-0.3%	12.6%	7.5%	9.7%	1.7%	7.4%	7.9%	3.3%	1.4%	8.4%	Jan-09
MSCI Emerging Markets	2.1%	2.6%	0.9%	11.8%	8.3%	10.0%	1.9%	7.6%	7.9%	3.3%	2.4%	9.0%	Jan-09
RhumbLine Emerging Markets Index	2.2%	4.0%	-0.3%	12.6%	7.5%	9.7%	1.8%	7.5%	8.0%	3.3%		2.8%	Feb-13
MSCI Emerging Markets	2.1%	2.6%	0.9%	11.8%	8.3%	10.0%	1.9%	7.6%	7.9%	3.3%	2.4%	2.9%	Feb-13

Investment Manager

# Investment Manager

### Annualized Performance (Net of Fees)

Market Value: \$5,768.5 Million and 100.0% of Fund

#### Ending October 31, 2020

	1 Mo	3 Mo	YTD	Fiscal	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception
				YTD									Date
Absolute Return	0.0%	-2.1%	-32.0%	-4.2%	-28.1%	-18.2%	-13.3%	-7.4%	-5.9%	-3.9%	-1.8%	-0.2%	Sep-05
HFRI Fund of Funds Composite Index	0.2%	2.2%	2.8%	4.5%	5.4%	4.5%	2.6%	3.9%	3.0%	2.9%	2.8%	2.6%	Sep-05
Elizabeth Park Capital Management	0.0%	-2.2%	-32.8%	-4.4%	-28.6%	-17.5%	-12.8%	-4.5%	-2.4%			-0.6%	May-14
HFRX Event Driven Index	-0.2%	1.8%	4.3%	2.7%	8.7%	6.0%	0.5%	2.9%	3.1%	1.1%	2.1%	0.6%	May-14
T - Archview Offshore Fund. LTD	0.0%	0.0%	-16.1%	-0.8%	-17.7%	-27.8%	-19.4%	-13.9%	-11.2%			-8.9%	Mar-14
HFRI ED: Distressed/Restructuring Index	1.4%	5.0%	2.4%	5.7%	2.7%	0.5%	1.7%	3.5%	4.1%	2.4%	3.8%	1.8%	Mar-14
Real Assets Composite	-0.6%	-1.5%	-5.8%	-0.7%	-4.4%	1.5%	2.3%	3.8%	3.7%	3.7%		4.9%	Dec-12
Real Assets Benchmark	-0.6%	-0.8%	-4.2%	-0.1%	-3.0%	3.1%	3.3%	4.1%	3.2%	0.8%		2.2%	Dec-12
Real Assets - Public Real Estate Composite	-3.3%	-5.8%	-15.2%	-2.2%	-16.0%	2.6%	2.3%	3.7%	4.5%	6.7%		6.5%	Jan-13
FTSE NAREIT All Equity REIT Custom Benchmark	-3.3%	-5.8%	-15.1%	-2.2%	-16.0%	2.7%	2.4%	3.8%	4.6%	6.6%			Jan-13
RhumbLine FTSE NAREIT	-3.3%	-5.8%	-15.2%	-2.2%	-16.0%	2.6%	2.3%	3.7%	4.5%	6.5%		5.2%	May-13
FTSE NAREIT All Equity REIT Custom Benchmark	-3.3%	-5.8%	-15.1%	-2.2%	-16.0%	2.7%	2.4%	3.8%	4.6%	6.6%		5.3%	May-13
Real Assets - Open-End Real Estate Composite	0.0%	-0.1%	-1.9%	-0.1%	-1.6%	-0.5%	2.0%					2.5%	Jan-17
NFI	0.0%	0.2%	-0.7%	0.3%	0.1%	2.3%	4.0%	4.7%	5.5%	7.5%	9.1%	4.5%	Jan-17
UBS Trumbull Fund	0.0%	-0.4%	-2.5%	-0.4%	-2.6%	-1.9%	0.9%					1.6%	Jan-17
NFI	0.0%	0.2%	-0.7%	0.3%	0.1%	2.3%	4.0%	4.7%	5.5%	7.5%	9.1%	4.5%	Jan-17
Clarion Lion Properties Fund	0.0%	0.5%	-0.4%	0.5%	1.4%	3.8%						5.4%	Feb-18
NFI	0.0%	0.2%	-0.7%	0.3%	0.1%	2.3%	4.0%	4.7%	5.5%	7.5%	9.1%	3.7%	Feb-18
Real Assets - Infrastructure Composite	-1.3%	-4.5%	-12.1%	-2.4%	-8.5%	5.0%	2.2%					3.9%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	-1.6%	-5.1%	-14.7%	-3.2%	-11.5%	3.0%	0.6%	3.5%	3.8%	4.2%	7.2%	2.4%	Mar-17
RhumbLine Infrastructure Index	-1.5%	-4.9%	-14.1%	-3.1%	-10.8%	3.7%	1.3%					3.1%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	-1.6%	-5.1%	-14.7%	-3.2%	-11.5%	3.0%	0.6%	3.5%	3.8%	4.2%	7.2%	2.4%	Mar-17
Rreef Global Infrastructure	-1.0%	-3.6%	-8.1%	-1.2%	-4.0%	8.0%						6.7%	Mar-18
Dow Jones Brookfield Global Infrastructure Index	-1.6%	-5.1%	-14.7%	-3.2%	-11.5%	3.0%	0.6%	3.5%	3.8%	4.2%	7.2%	2.6%	Mar-18

## Annualized Performance (Net of Fees)

Market Value: \$5,768.5 Million and 100.0% of Fund

#### Ending October 31, 2020

	1 Mo	3 Mo	YTD	Fiscal YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception Date
Real Assets - Private Real Estate Composite	0.0%	3.2%	-0.3%	3.2%	0.4%	3.5%	4.8%	5.3%	6.4%	8.1%	9.2%	3.8%	May-06
Real Assets - Private Real Estate Benchmark	0.0%	3.2%	-0.3%	3.2%	0.4%	3.5%	4.8%	5.3%	6.4%	8.1%	9.2%	3.8%	<i>May-</i> 06
Private Assets Composite	0.0%	0.0%	-4.8%	0.0%	1.1%	12.8%	15.8%	13.9%	12.9%	12.4%	13.1%	8.8%	Mar-87
Private Assets Composite Benchmark	0.0%	0.0%	-4.8%	0.0%	1.1%	12.8%	15.8%	13.9%	12.9%	12.4%	13.1%	8.8%	Mar-87
CPI +5%	0.4%	1.7%	5.5%	2.6%	6.2%	6.5%	6.9%	7.0%	6.9%	6.6%	6.8%		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.

**Investment Manager**