

(Preliminary Subject to Change)



**Employees Retirement System** 

City of Philadelphia Employees Retirement System Executive Summary April 30, 2019

# Total Fund Composite

	Ending April 30, 2019										
	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)					
Total Fund Composite		5,728,612,377	467,969,928	100.0	100.0	0					
Total Fund w/o Alternative Assets		4,252,139,265	345,495,562	74.2	69.0	299,396,724					
Investment Grade Fixed Income Composite		668,597,370	228,509	11.7	10.0	95,736,132					
Brandywine Global Investment Management	Global Fixed Income	136,226,560	229,467	2.4							
Garcia Hamilton & Associates	Int. Govt. Fixed Income	170,554,200	-704	3.0							
Logan Circle	Core Plus Fixed Income	45,826,990	-255	0.8							
Longfellow	Core Plus Fixed Income	162,730,442	0	2.8							
Rhumbline Core Bond Index	Core Fixed Income	153,259,179	0	2.7							
Opportunistic Fixed Income Composite		260,235,687	-3,476,588	4.5	4.0	31,091,192					
T - Apollo Franklin Partnership, L.P.	Opportunistic Fixed Income	11,518,082	-1,090,909	0.2							
T - Avenue Coppers Opportunity Fund LP	Opportunistic Fixed Income	19,768,359	0	0.3							
T - KKR-PBPR Capital Partners LP	Opportunistic Fixed Income	50,494,389	-2,385,679	0.9							
Logan Circle - EMD	EM Fixed Income	73,365,717	0	1.3							
Strategic Income Management	High Yield Fixed Income	52,172,125	0	0.9							
Lord Abbett High Yield	High Yield Fixed Income	52,507,047	0	0.9							
U.S. Equity Composite		1,648,096,415	43,381,699	28.8	30.0	-70,487,298					
Rhumbline Russell 1000 Index	Large-Cap Core	1,192,965,196	87,931,271	20.8							
O'Shaughnessy Asset Management	Large-Cap Value	29,782,363	0	0.5							
Rhumbline MidCap Index	Mid-Cap Core	156,388,892	-6,059	2.7							
Rhumbline Russell 2000 Index	Small-Cap Core	42,075,330	-1,672	0.7							
Emerald Advisors	Small-Cap Growth	82,643,962	0	1.4							
Fisher Asset Management	Small-Cap Value	58,315,024	0	1.0							
Fiera Capital	Smid-Cap Growth	28,711,004	0	0.5							
Ariel	Smid-Cap Value	57,113,453	0	1.0							
Non-U.S. Equity Developed Composite		1,097,529,452	84,000,327	19.2	21.0	-105,479,148					
Causeway Capital Management	Non-U.S. Large-Cap Core	113,140,979	0	2.0							
Northern Trust MSCI EAFE+Canada	Non-U.S. Large-Cap Core	787,806,295	84,000,000	13.8							
Northern Trust International Small Cap	Non-U.S. Small-Cap Core	101,344,195	0	1.8							
Strategic Global Advisors	Non-U.S. Small-Cap Core	31,962,538	327	0.6							
Investors Group	Non-U.S. Small-Cap Core	59,402,030	0	1.0							
Non-U.S. Equity Emerging Composite		225,265,243	1,774	3.9	4.0	-3,879,252					
Rhumbline Emerging Markets Index	Emerging Markets	225,260,911	1,774	3.9							

#### Market Value: \$5,728.6 Million and 100.0% of Fund

# Marquette Associates

Total Fund Composite

Market Value: \$5,728.6 Million and 100.0% of Fund

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Cash Composite		352,415,098	221,359,841	6.2	0.0	352,415,098
Cash	Cash & Equivalents	351,749,635	221,393,555	6.1		
Directed Commissions	Cash & Equivalents	665,464	-33,714	0.0		
Absolute Return		28,961,659	0	0.5	0.0	28,961,659
Elizabeth Park Capital Management	Long/Short Hedge Fund	27,102,823	0	0.5		
T - Archview Offshore Fund. LTD	Credit Hedge Fund	1,858,836	0	0.0		
Real Assets Composite		982,289,799	123,093,943	17.1	19.0	-106,146,553
Real Assets - Public Real Estate Composite		60,369,891	0	1.1	1.0	3,083,767
Rhumbline FTSE NAREIT	Real Assets	60,369,891	0	1.1		
Real Assets - Open-End Real Estate Composite		552,813,109	68,861,168	9.7	11.0	-77,334,252
UBS Trumbull Fund	Core Real Estate	416,699,152	45,092,607	7.3		
Clarion Lion Properties Fund	Core Real Estate	136,113,957	23,768,561	2.4		
Real Assets - Infrastructure Composite		260,162,144	55,999,984	4.5	5.0	-26,268,475
Rhumbline Infrastructure Index	Publicly-Traded Infrastructure	174,868,327	27,999,984	3.1		
Rreef Global Infrastructure	Global Infrastructure	85,293,817	28,000,000	1.5		
Real Assets - Private Real Estate Composite		96,995,416	-2,394,231	1.7	2.0	-17,576,831
Real Assets - Private Energy/Infrastructure Composite		11,949,238	627,022	0.2	-	11,949,238
Private Assets Composite		465,221,655	-619,576	8.1	12.0	-222,211,830
Private Assets - Private Equity	U.S. Private Equity FoF	435,532,368	580,499	7.6		
Private Assets - Private Debt	Mezz. Private Equity	29,689,287	-1,200,075	0.5		



## Investment Manager

### Annualized Performance (Net of Fees)

Market Value: \$5,728.6 Million and 100.0% of Fund

#### Ending April 30, 2019

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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	1.8%	4.4%	9.8%	3.4%	4.6%	7.5%	8.9%	5.3%	5.3%	6.8%	8.9%	7.5%	Jul-88
Total Fund Policy Benchmark	1.8%	4.4%	9.6%	4.2%	5.7%	7.5%	9.0%	5.8%	6.1%	7.4%	9.9%	8.3%	Jul-88
Total Fund w/o Alternative Assets	2.4%	5.5%	12.3%	3.7%	3.5%	7.1%	8.7%	5.0%	5.0%			5.6%	Jan-14
Investment Grade Fixed Income Composite	-0.1%	1.1%	2.6%	3.4%	2.7%	2.4%	1.8%	1.8%	<b>1.9</b> %	2.2%	3.8%	6.0%	Jul-88
Fixed Income Custom Benchmark	-0.1%	1.4%	2.5%	4.2%	4.8%	2.2%	1.8%	2.0%	2.5%	2.3%	3.7%	6.1%	Jul-88
Brandywine Global Investment Management	-0.7%	-1.4%	2.1%	0.1%	-4.1%	1.8%	1.3%	1.4%	1.4%	2.4%	6.1%	6.4%	Jan-09
FTSE WGBI TR	-0.5%	-0.2%	1.2%	1.3%	-0.2%	2.4%	0.4%	1.8%	0.3%	0.2%	2.1%	2.0%	Jan-09
Garcia Hamilton & Associates	0.1%	1.3%	2.2%	3.7%	4.4%	2.1%	1.8%	2.1%	2.4%	2.9%	4.4%	5.1%	Aug-00
BBgBarc US Govt/Credit Int TR	0.2%	1.6%	2.5%	4.4%	5.0%	2.1%	1.6%	1.8%	2.1%	1.9%	3.1%	4.3%	Aug-00
Logan Circle	0.1%	2.2%	3.7%	4.8%	5.3%	3.1%	2.9%	2.7%				2.8%	Oct-14
BBgBarc US Aggregate TR	0.0%	1.9%	3.0%	4.7%	5.3%	2.4%	1.9%	2.1%	2.6%	2.3%	3.7%	2.3%	Oct-14
Longfellow	0.2%	2.1%	3.2%	4.6%	5.2%	2.8%	2.5%	2.4%				2.7%	Sep-14
BBgBarc US Aggregate TR	0.0%	1.9%	3.0%	4.7%	5.3%	2.4%	1.9%	2.1%	2.6%	2.3%	3.7%	2.5%	Sep-14
Rhumbline Core Bond Index	0.0%	1.7%	2.7%	4.4%	4.9%	2.3%	1.7%	1.9%	2.3%	2.0%	3.6%	3.9%	Jun-07
BBgBarc US Aggregate TR	0.0%	1.9%	3.0%	4.7%	5.3%	2.4%	1.9%	2.1%	2.6%	2.3%	3.7%	4.1%	Jun-07
Opportunistic Fixed Income Composite	0.8%	1.4%	3.9%	0.5%	-0.4%	2.1%	4.6%	2.6%	2.1%			3.1%	Dec-12
Opportunistic FI Custom Benchmark	1.2%	3.2%	7.1%	5.0%	5.4%	4.6%	6.6%	4.7%	4.4%	5.4%		4.9%	Dec-12
T - Apollo Franklin Partnership, L.P.	0.8%	1.8%	3.9%	-0.4%	2.4%	1.3%	0.0%	-3.3%	-5.0%			-3.1%	May-13
50% BarCap HY / 50% CSFB Lev Loans	1.5%	3.6%	7.1%	5.3%	5.6%	4.8%	6.7%	4.8%	4.5%	5.5%	8.7%	4.7%	May-13
T - Avenue Coppers Opportunity Fund LP	0.0%	-0.9%	-1.2%	-12.2%	-11.7%	-3.9%	-0.9%	-1.5%	-0.3%			0.5%	Dec-13
Actuarial Rate	0.6%	1.9%	2.5%	6.3%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Dec-13
T - KKR-PBPR Capital Partners LP	0.0%	-2.3%	-2.2%	-7.6%	-7.0%	-1.1%	3.2%	2.3%	1.8%			4.6%	Jun-12
Actuarial Rate	0.6%	1.9%	2.5%	6.3%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Jun-12
Logan Circle - EMD	0.2%	0.7%	6.2%	5.8%	0.6%	3.0%	5.9%	4.9%				5.2%	Feb-15
JP Morgan EMBI Global TR	0.1%	2.2%	6.7%	7.4%	5.2%	2.7%	4.6%	4.5%	4.5%	4.5%	7.6%	4.9%	Feb-15
Strategic Income Management	1.8%	4.3%	6.8%	4.8%	5.4%	5.1%	7.6%					8.8%	Mar-16
ICE BofAML US High Yield TR	1.4%	4.1%	8.9%	6.4%	6.7%	5.0%	7.8%	5.4%	4.9%	6.3%	10.2%	8.9%	Mar-16

### Annualized Performance (Net of Fees)

Market Value: \$5,728.6 Million and 100.0% of Fund

#### Ending April 30, 2019

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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
Lord Abbett High Yield	1.6%	4.5%										4.5%	Jan-19
ICE BofAML US High Yield TR	1.4%	4.1%	8.9%	6.4%	6.7%	5.0%	7.8%	5.4%	4.9%	6.3%	10.2%	4.1%	Jan-19
U.S. Equity Composite	4.1%	9.4%	19.5%	8.0%	11.9%	12.5%	14.5%	9.8%	10.2%	12.4%	14.9%	9.7%	Jul-88
U.S. Equity Custom Benchmark	3.9%	8.8%	18.8%	9.1%	12.9%	13.0%	14.8%	10.9%	11.2%	13.4%	15.3%	10.5%	Jul-88
Rhumbline Russell 1000 Index	4.1%	9.4%	18.7%	9.8%	13.5%	13.4%	15.0%	11.1%	11.4%	13.6%	15.2%	8.2%	May-07
Rhumbline Russell 1000 Custom Benchmark	4.1%	9.5%	18.7%	9.8%	13.4%	13.4%	14.9%	11.1%	11.5%	13.6%			May-07
O'Shaughnessy Asset Management	6.8%	9.9%	19.9%	4.4%	4.3%	12.4%	13.4%	7.7%	8.4%			13.7%	Jun-12
Russell 1000 Value	3.5%	7.5%	15.9%	8.2%	9.1%	8.3%	11.0%	8.0%	8.3%	11.9%	13.8%	12.4%	Jun-12
Rhumbline MidCap Index	3.8%	9.3%	21.0%	7.5%	10.8%	10.9%						12.0%	Dec-16
Rhumbline Russell Mid Cap Custom Benchmark	3.8%	9.3%	21.1%	7.6%	10.9%	11.0%						12.1%	Dec-16
Rhumbline Russell 2000 Index	3.4%	6.5%	18.5%	-1.8%	4.8%	8.3%						8.7%	Dec-16
Rhumbline Russell 2000 Custom Benchmark	3.4%	6.5%	18.5%	-2.0%	4.7%	8.1%						8.5%	Dec-16
Emerald Advisors	3.3%	9.5%	25.2%	4.0%	13.1%	16.3%	18.8%	11.2%	12.9%	14.1%	17.6%	10.2%	Dec-04
Russell 2000 Growth	3.0%	8.2%	20.7%	-0.2%	6.9%	11.6%	15.6%	9.1%	10.2%	12.5%	15.2%	8.8%	Dec-04
Fisher Asset Management	3.8%	7.5%	19.2%	-1.0%	4.0%	7.5%	13.3%	9.3%	9.6%	11.8%	14.7%	9.7%	May-08
Russell 2000 Value	3.8%	4.7%	16.2%	-4.0%	2.2%	4.3%	11.5%	7.5%	6.9%	10.4%	12.9%	7.9%	Мау-08
Fiera Capital	4.0%	10.5%	23.4%	6.0%	9.3%	13.5%	15.0%	8.5%	9.6%	12.2%		14.6%	Dec-09
Russell 2500 Growth	3.5%	10.0%	23.2%	5.5%	12.0%	14.5%	16.6%	10.2%	11.3%	13.3%	16.3%	14.2%	Dec-09
Ariel	4.8%	10.4%	22.5%	3.7%	6.9%	6.9%	10.9%					12.9%	Jan-16
Russell 2500 Value	3.5%	5.3%	17.1%	-0.4%	4.3%	5.6%	10.4%	7.2%	7.0%	10.9%	13.7%	13.5%	Jan-16
Non-U.S. Equity Developed Composite	2.8%	5.8%	13.6%	-0.8%	-3.7%	4.9%	7.0%	2.2%	1.9%	5.2%	7.7%	5.5%	Jan-89
Non-U.S. Equity Developed Custom Benchmark	2.9%	5.9%	13.6%	-0.8%	-3.8%	5.4%	7.3%	3.1%	2.8%	6.4%	8.5%		Jan-89
Causeway Capital Management	2.4%	5.4%	13.4%	-2.0%	-5.3%	4.1%	6.7%	1.7%	1.9%	6.7%		7.8%	Nov-11
MSCI EAFE	2.8%	6.1%	13.1%	0.2%	-3.2%	5.3%	7.2%	2.8%	2.6%	6.4%	8.0%	7.0%	Nov-11
Northern Trust MSCI EAFE+Canada	3.0%	6.2%	13.9%	1.1%	-1.7%	6.0%	7.5%	3.1%	2.8%	6.2%	8.5%	3.0%	Mar-07
Northern Trust MSCI EAFE + Canada Custom Benchmark	3.0%	6.2%	13.9%	1.2%	-1.6%	6.1%	7.8%	3.4%	3.3%	7.0%	8.8%	2.6%	Mar-07

Investment Manager

### Annualized Performance (Net of Fees)

Market Value: \$5,728.6 Million and 100.0% of Fund

#### Ending April 30, 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
Northern Trust International Small Cap	3.0%	5.6%	14.0%	-4.9%	-8.4%							-7.1%	Mar-18
Northern Trust EAFE Small Cap Custom Benchmark	3.0%	5.6%	14.1%	-4.9%	-7.7%	-						-6.4%	Mar-18
Strategic Global Advisors	0.7%	3.4%	12.9%	-8.6%	-12.2%							-6.1%	Nov-17
MSCI World ex USA Small Cap	2.7%	5.0%	14.0%	-5.3%	-7.6%	4.8%	7.1%	5.3%	4.3%	7.5%	10.9%	-2.8%	Nov-17
Investors Group	2.7%	2.5%	10.4%	-10.5%	-13.1%							-5.8%	Nov-17
MSCI EAFE Small Cap	3.0%	5.5%	14.0%	-5.1%	-7.9%	5.2%	7.8%	6.0%	5.3%	8.7%	11.5%	-2.8%	Nov-17
Non-U.S. Equity Emerging Composite	2.1%	2.4%	12.4%	3.2%	-4.9%	8.4%	11.3%	3.6%	4.1%	2.2%	7.0%	9.1%	Jan-09
MSCI Emerging Markets	2.1%	3.2%	12.2%	2.7%	-5.0%	7.5%	11.3%	3.1%	4.0%	3.2%	7.5%	9.8%	Jan-09
Rhumbline Emerging Markets Index	2.1%	2.4%	12.4%	3.3%	-4.9%	8.4%	11.3%	3.5%	4.3%			2.7%	Feb-13
MSCI Emerging Markets	2.1%	3.2%	12.2%	2.7%	-5.0%	7.5%	11.3%	3.1%	4.0%	3.2%	7.5%	2.5%	Feb-13

Investment Manager

### Investment Manager

### Annualized Performance (Net of Fees)

Market Value: \$5,728.6 Million and 100.0% of Fund

#### Ending April 30, 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
Absolute Return	2.9%	1.3%	5.5%	-13.8%	-13.0%	-1.7%	3.3%	0.1%	0.2%	2.3%	3.1%	2.4%	Sep-05
HFRI Fund of Funds Composite Index	1.0%	3.0%	5.7%	0.7%	0.9%	3.1%	4.1%	1.6%	2.5%	3.3%	3.5%	2.5%	Sep-05
Elizabeth Park Capital Management	3.1%	1.5%	6.3%	-13.2%	-12.5%	-0.5%	7.1%	6.5%				6.3%	May-14
HFRX Event Driven Index	0.5%	-1.2%	1.3%	-6.3%	-6.4%	-4.2%	2.2%	-0.9%	-1.6%	1.1%	2.1%	-1.7%	May-14
T - Archview Offshore Fund. LTD	-0.3%	-1.2%	-4.6%	-21.9%	-20.6%	-7.1%	-1.3%	-4.6%	-3.2%			-2.9%	Mar-14
HFRI ED: Distressed/Restructuring Index	1.6%	1.7%	4.8%	0.1%	2.1%	2.9%	7.7%	3.3%	2.1%	4.6%	7.0%	2.2%	Mar-14
Real Assets Composite	0.2%	2.2%	5.0%	5.4%	8.4%	5.5%	7.2%	2.3%	3.5%			6.4%	Dec-12
Real Assets Benchmark	0.1%	1.9%	4.8%	5.4%	7.6%	4.3%	7.2%	-1.7%	-0.5%			2.5%	Dec-12
Real Assets - Public Real Estate Composite	-0.3%	4.8%	16.9%	10.3%	18.9%	8.5%	8.2%	8.2%	9.7%			9.3%	Jan-13
FTSE NAREIT All Equity REIT Custom Benchmark	-0.3%	4.8%	16.9%	10.9%	19.6%	8.8%	8.4%	8.4%	9.3%				Jan-13
Rhumbline FTSE NAREIT	-0.3%	4.8%	16.9%	10.7%	19.4%	8.7%	8.3%	8.3%	9.2%			7.8%	May-13
FTSE NAREIT All Equity REIT Custom Benchmark	-0.3%	4.8%	16.9%	10.9%	19.6%	8.8%	8.4%	8.4%	9.3%			7.8%	May-13
Real Assets - Open-End Real Estate Composite	0.0%	0.8%	0.8%	4.0%	5.8%	6.0%						5.8%	Jan-17
NFI	0.0%	0.8%	1.2%	4.7%	5.9%	6.6%	6.8%	8.1%	9.0%	9.6%	8.1%	6.5%	Jan-17
UBS Trumbull Fund	0.0%	0.5%	0.5%	3.3%	5.0%	5.6%						5.4%	Jan-17
NFI	0.0%	0.8%	1.2%	4.7%	5.9%	6.6%	6.8%	8.1%	9.0%	9.6%	8.1%	6.5%	Jan-17
Clarion Lion Properties Fund	0.0%	1.8%	1.8%	5.9%	8.5%							8.7%	Feb-18
NFI	0.0%	0.8%	1.2%	4.7%	5.9%	6.6%	6.8%	8.1%	9.0%	9.6%	8.1%	6.3%	Feb-18
Real Assets - Infrastructure Composite	0.8%	6.5%	16.4%	9.2%	12.4%	7.3%						7.8%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	0.7%	6.6%	16.5%	8.8%	11.7%	6.7%	8.2%	4.0%	5.2%	8.3%	12.8%	7.2%	Mar-17
Rhumbline Infrastructure Index	0.8%	6.7%	16.7%	9.4%	12.4%	7.4%						7.9%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	0.7%	6.6%	16.5%	8.8%	11.7%	6.7%	8.2%	4.0%	5.2%	8.3%	12.8%	7.2%	Mar-17
Rreef Global Infrastructure	0.9%	6.9%	16.6%	9.6%	13.3%							13.2%	Mar-18
Dow Jones Brookfield Global Infrastructure Index	0.7%	6.6%	16.5%	8.8%	11.7%	6.7%	8.2%	4.0%	5.2%	8.3%	12.8%	12.2%	Mar-18

#### **Investment Manager**

### Annualized Performance (Net of Fees)

Market Value: \$5,728.6 Million and 100.0% of Fund

#### Ending April 30, 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
Real Assets - Private Real Estate Composite	0.0%	-1.1%	-1.1%	0.7%	2.2%	4.1%	6.1%	6.7%	7.7%	9.3%	6.3%	3.7%	May-06
Real Assets - Private Real Estate Benchmark	0.0%	-1.1%	-1.1%	0.7%	2.2%	4.1%	6.1%	6.7%	7.7%	9.3%			<i>May-06</i>
Real Assets - Private Energy/Infrastructure Composite	0.0%	0.0%	0.0%	10.5%	25.5%	25.6%	21.3%	3.8%	2.4%			7.4%	May-12
Real Assets - Private Energy/Infrastructure Benchmark	0.0%	0.0%	0.0%	10.5%	25.5%	25.6%	21.3%	3.8%	2.4%	7.4%		7.4%	May-12
Private Assets Composite	0.0%	0.0%	0.0%	-2.0%	8.4%	11.9%	11.3%	9.8%				-	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.