

#### (Preliminary Subject to Change)



#### **Employees Retirement System**

City of Philadelphia
Employees Retirement System
Executive Summary

May 31, 2019

# **Total Fund Composite**

Market Value: \$5,503.8 Million and 100.0% of Fund

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	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)		
Total Fund Composite		5,503,844,235	474,087,836	100.0	100.0	0		
Total Fund w/o Alternative Assets		4,024,868,902	360,594,858	73.1	69.0	227,216,380		
Investment Grade Fixed Income Composite		678,333,877	-1,535	12.3	10.0	127,949,453		
Brandywine Global Investment Management	Global Fixed Income	137,329,827	0	2.5				
Garcia Hamilton & Associates	Int. Govt. Fixed Income	172,639,133	-704	3.1				
Logan Circle	Core Plus Fixed Income	46,634,014	-148	0.8				
Longfellow	Core Plus Fixed Income	165,683,290	0	3.0				
Rhumbline Core Bond Index	Core Fixed Income	156,047,613	-683	2.8				
Opportunistic Fixed Income Composite		259,286,707	-3,476,672	4.7	4.0	39,132,938		
T - Apollo Franklin Partnership, L.P.	Opportunistic Fixed Income	11,518,012	-1,090,978	0.2				
T - Avenue Coppers Opportunity Fund LP	Opportunistic Fixed Income	19,816,196	0	0.4				
T - KKR-PBPR Capital Partners LP	Opportunistic Fixed Income	50,548,410	-2,385,679	0.9				
Logan Circle - EMD	EM Fixed Income	73,478,098	0	1.3				
Strategic Income Management	High Yield Fixed Income	51,449,404	-15	0.9				
Lord Abbett High Yield	High Yield Fixed Income	52,048,885	0	0.9				
U.S. Equity Composite		1,538,903,800	43,381,699	28.0	30.0	-112,249,470		
Rhumbline Russell 1000 Index	Large-Cap Core	1,116,729,320	87,931,271	20.3				
O'Shaughnessy Asset Management	Large-Cap Value	27,193,910	0	0.5				
Rhumbline MidCap Index	Mid-Cap Core	146,844,309	-6,059	2.7				
Rhumbline Russell 2000 Index	Small-Cap Core	38,803,243	-1,672	0.7				
Emerald Advisors	Small-Cap Growth	78,499,112	0	1.4				
Fisher Asset Management	Small-Cap Value	52,535,491	0	1.0				
Fiera Capital	Smid-Cap Growth	26,891,374	0	0.5				
Ariel	Smid-Cap Value	51,307,155	0	0.9				
Non-U.S. Equity Developed Composite		1,044,305,965	83,999,582	19.0	21.0	-111,501,324		
Causeway Capital Management	Non-U.S. Large-Cap Core	104,839,357	0	1.9				
Northern Trust MSCI EAFE+Canada	Non-U.S. Large-Cap Core	752,159,675	84,000,000	13.7				
Northern Trust International Small Cap	Non-U.S. Small-Cap Core	96,167,534	0	1.7				
Strategic Global Advisors	Non-U.S. Small-Cap Core	30,267,530	341	0.5				
Mackenzie Investments	Non-U.S. Small-Cap Core	57,059,302	0	1.0				
Non-U.S. Equity Emerging Composite		207,911,839	1,774	3.8	4.0	-12,241,931		
Rhumbline Emerging Markets Index	Emerging Markets	207,907,487	1,774	3.8				

# **Total Fund Composite**

Market Value: \$5,503.8 Million and 100.0% of Fund

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Cash Composite		296,126,714	236,690,011	5.4	0.0	296,126,714
Cash	Cash & Equivalents	295,460,947	236,701,331	5.4		
Directed Commissions	Cash & Equivalents	665,767	-11,320	0.0		
Absolute Return		28,061,343	0	0.5	0.0	28,061,343
Elizabeth Park Capital Management	Long/Short Hedge Fund	26,097,308	0	0.5		
T - Archview Offshore Fund. LTD	Credit Hedge Fund	1,964,035	0	0.0		
Real Assets Composite		983,784,298	122,475,716	17.9	19.0	-61,946,107
Real Assets - Public Real Estate Composite		60,736,399	0	1.1	1.0	5,697,956
Rhumbline FTSE NAREIT	Real Assets	60,736,399	0	1.1		
Real Assets - Open-End Real Estate Composite		552,813,109	68,861,168	10.0	11.0	-52,609,756
UBS Trumbull Fund	Core Real Estate	416,699,152	45,092,607	7.6		
Clarion Lion Properties Fund	Core Real Estate	136,113,957	23,768,561	2.5		
Real Assets - Infrastructure Composite		259,848,934	55,999,984	4.7	5.0	-15,343,278
Rhumbline Infrastructure Index	Publicly-Traded Infrastructure	174,679,287	27,999,984	3.2		
Rreef Global Infrastructure	Global Infrastructure	85,169,647	28,000,000	1.5		
Real Assets - Private Real Estate Composite		97,639,448	-2,953,233	1.8	2.0	-12,437,437
Real Assets - Private Energy/Infrastructure Composite		12,746,408	567,797	0.2		12,746,408
Private Assets Composite		467,129,692	-8,982,739	8.5	12.0	-193,331,616
Private Assets - Private Equity	U.S. Private Equity FoF	437,618,186	-8,858,667	8.0		
Private Assets - Private Debt	Mezz. Private Equity	29,511,507	-124,072	0.5		

### Annualized Performance (Net of Fees)

Market Value: \$5,503.8 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
<b>Total Fund Composite</b>	-3.0%	-0.4%	6.6%	0.3%	1.2%	5.3%	7.7%	4.4%	4.3%	7.0%	8.0%	7.4%	Jul-88
Total Fund Policy Benchmark	-2.9%	-0.3%	6.5%	1.2%	2.3%	5.6%	7.9%	5.0%	5.1%	7.8%	9.0%	8.2%	Jul-88
Total Fund w/o Alternative Assets	-4.0%	-0.9%	7.8%	-0.5%	-0.9%	4.1%	7.2%	4.0%	3.8%	-	-	4.7%	Jan-14
Investment Grade Fixed Income Composite	1.4%	2.8%	4.1%	4.9%	4.6%	2.7%	2.7%	2.4%	1.8%	2.4%	3.8%	6.0%	Jul-88
Fixed Income Custom Benchmark	1.8%	3.4%	4.3%	6.1%	5.9%	2.7%	2.3%	2.5%	2.6%	2.4%	3.8%	6.2%	Jul-88
Brandywine Global Investment Management	0.8%	0.6%	2.9%	0.9%	-0.1%	1.4%	2.9%	2.2%	1.1%	3.0%	5.4%	6.5%	Jan-09
FTSE WGBI TR	1.7%	2.5%	3.0%	3.1%	2.8%	2.4%	1.5%	2.8%	0.5%	0.6%	2.0%	2.2%	Jan-09
Garcia Hamilton & Associates	1.2%	2.4%	3.5%	5.0%	5.0%	2.5%	2.3%	2.5%	2.5%	3.2%	4.4%	5.1%	Aug-00
BBgBarc US Govt/Credit Int TR	1.3%	2.9%	3.9%	5.8%	5.7%	2.5%	2.1%	2.1%	2.2%	2.0%	3.2%	4.3%	Aug-00
Logan Circle	1.7%	3.8%	5.5%	6.7%	6.4%	3.5%	3.5%	3.2%				3.2%	Oct-14
BBgBarc US Aggregate TR	1.8%	3.8%	4.8%	6.5%	6.4%	3.0%	2.5%	2.6%	2.7%	2.4%	3.8%	2.7%	Oct-14
Longfellow	1.8%	3.8%	5.0%	6.5%	6.3%	3.4%	3.0%	2.9%		-		3.0%	Sep-14
BBgBarc US Aggregate TR	1.8%	3.8%	4.8%	6.5%	6.4%	3.0%	2.5%	2.6%	2.7%	2.4%	3.8%	2.9%	Sep-14
Rhumbline Core Bond Index	1.8%	3.6%	4.5%	6.3%	6.1%	2.8%	2.3%	2.4%	2.5%	2.1%	3.7%	4.0%	Jun-07
BBgBarc US Aggregate TR	1.8%	3.8%	4.8%	6.5%	6.4%	3.0%	2.5%	2.6%	2.7%	2.4%	3.8%	4.2%	Jun-07
Opportunistic Fixed Income Composite	-0.4%	0.4%	3.5%	0.1%	-0.4%	1.7%	4.1%	2.1%	1.8%			3.0%	Dec-12
Opportunistic FI Custom Benchmark	-0.4%	1.4%	6.7%	4.6%	4.9%	4.1%	6.2%	4.6%	4.1%	5.5%		4.7%	Dec-12
T - Apollo Franklin Partnership, L.P.	0.0%	2.0%	3.9%	-0.4%	1.4%	0.7%	-0.1%	-3.5%	-5.0%			-3.0%	May-13
50% BarCap HY / 50% CSFB Lev Loans	-0.7%	1.2%	6.3%	4.5%	4.8%	4.1%	6.2%	4.6%	4.2%	5.6%	8.0%	4.5%	<i>May-13</i>
T - Avenue Coppers Opportunity Fund LP	0.0%	-0.5%	-1.0%	-12.0%	-12.7%	-3.8%	-1.1%	-1.5%	-0.6%	-		0.5%	Dec-13
Actuarial Rate	0.6%	1.9%	3.1%	7.0%	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%	-2.1%	-7.5%	-7.4%	-1.1%	2.8%	2.2%	1.8%	-		4.6%	Jun-12
Actuarial Rate	0.6%	1.9%	3.1%	7.0%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Jun-12
Logan Circle - EMD	0.1%	0.5%	6.3%	5.9%	3.9%	2.6%	6.5%	5.1%	-			5.1%	Feb-15
JP Morgan EMBI Global TR	0.6%	2.2%	7.3%	8.0%	6.9%	2.5%	4.9%	4.8%	4.0%	5.0%	7.2%	5.0%	Feb-15
Strategic Income Management	-1.4%	1.4%	5.2%	3.3%	4.1%	4.2%	6.8%			-		8.1%	Mar-16
ICE BofAML US High Yield TR	-1.3%	1.1%	7.5%	5.0%	5.4%	3.8%	7.1%	5.0%	4.4%	6.3%	9.3%	8.3%	Mar-16

### Annualized Performance (Net of Fees)

Market Value: \$5,503.8 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	-0.9%	1.9%										3.5%	Jan-19
ICE BofAML US High Yield TR	-1.3%	1.1%	7.5%	5.0%	5.4%	3.8%	7.1%	5.0%	4.4%	6.3%	9.3%	2.8%	Jan-19
U.S. Equity Composite	-6.6%	-1.7%	11.6%	0.9%	1.6%	8.2%	11.3%	7.6%	8.3%	12.4%	13.6%	9.5%	Jul-88
U.S. Equity Custom Benchmark	-6.6%	-2.1%	11.0%	1.9%	2.5%	8.6%	11.6%	8.6%	9.3%	13.3%	13.9%	10.2%	Jul-88
Rhumbline Russell 1000 Index	-6.4%	-0.9%	11.1%	2.8%	3.5%	9.0%	11.9%	8.9%	9.5%	13.5%	13.8%	7.5%	May-07
Rhumbline Russell 1000 Custom Benchmark	-6.4%	-0.9%	11.1%	2.8%	3.5%	9.0%	11.8%	8.9%	9.5%	13.6%			<i>May-</i> 07
O'Shaughnessy Asset Management	-8.7%	-3.7%	9.5%	-4.7%	-5.6%	6.5%	10.5%	5.4%	6.0%	-		12.0%	Jun-12
Russell 1000 Value	-6.4%	-2.5%	8.5%	1.2%	1.4%	4.8%	8.0%	5.9%	6.5%	11.8%	12.3%	11.1%	Jun-12
Rhumbline MidCap Index	-6.1%	-1.6%	13.6%	1.0%	1.7%	7.0%						8.7%	Dec-16
Rhumbline Russell Mid Cap Custom Benchmark	-6.1%	-1.6%	13.7%	1.1%	1.8%	7.1%						8.8%	Dec-16
Rhumbline Russell 2000 Index	-7.8%	-6.6%	9.2%	-9.4%	-8.9%	5.0%			-	-		4.8%	Dec-16
Rhumbline Russell 2000 Custom Benchmark	-7.8%	-6.6%	9.3%	-9.6%	-9.0%	4.9%						4.7%	Dec-16
Emerald Advisors	-5.1%	-2.8%	18.8%	-1.3%	0.0%	12.2%	15.7%	8.1%	11.8%	15.1%	16.8%	9.7%	Dec-04
Russell 2000 Growth	-7.4%	-5.9%	11.8%	-7.6%	-6.9%	7.9%	11.7%	6.1%	8.3%	12.5%	13.9%	8.1%	Dec-04
Fisher Asset Management	-10.0%	-8.4%	7.3%	-10.9%	-10.1%	2.1%	8.2%	5.6%	7.2%	11.4%	13.0%	8.6%	May-08
Russell 2000 Value	-8.2%	-7.4%	6.7%	-11.8%	-11.3%	1.6%	7.7%	5.0%	5.0%	10.1%	11.7%	7.0%	<i>May-08</i>
Fiera Capital	-6.4%	-2.4%	15.5%	-0.8%	-1.4%	9.7%	11.7%	5.6%	7.7%	12.6%		13.6%	Dec-09
Russell 2500 Growth	-6.6%	-3.6%	15.0%	-1.5%	-0.7%	10.6%	13.0%	7.5%	9.5%	13.4%	15.1%	13.2%	Dec-09
Ariel	-10.2%	-5.5%	10.0%	-6.9%	-5.0%	2.2%	6.7%	-	-	-		9.0%	Jan-16
Russell 2500 Value	-7.5%	-5.6%	8.3%	-7.9%	-7.4%	2.7%	6.9%	4.8%	5.1%	10.6%	12.6%	10.5%	Jan-16
Non-U.S. Equity Developed Composite	-4.9%	-2.0%	8.1%	-5.7%	-6.8%	0.7%	5.5%	1.2%	0.6%	6.2%	5.9%	5.3%	Jan-89
Non-U.S. Equity Developed Custom Benchmark	-4.8%	-1.7%	8.1%	-5.6%	-6.8%	1.0%	5.8%	2.0%	1.5%	7.5%	6.6%		Jan-89
Causeway Capital Management	-7.4%	-6.7%	5.0%	-9.2%	-10.3%	-1.3%	4.0%	0.0%	0.1%	7.2%		6.7%	Nov-11
MSCI EAFE	-4.8%	-1.5%	7.6%	-4.6%	-5.7%	0.9%	5.8%	1.7%	1.3%	7.5%	6.2%	6.3%	Nov-11
Northern Trust MSCI EAFE+Canada	-4.5%	-1.2%	8.7%	-3.4%	-4.5%	1.8%	6.2%	2.1%	1.5%	7.3%	6.6%	2.6%	Mar-07
Northern Trust MSCI EAFE + Canada Custom Benchmark	-4.5%	-1.1%	8.7%	-3.4%	-4.4%	1.9%	6.5%	2.3%	2.0%	8.1%	7.0%	2.2%	Mar-07

### Annualized Performance (Net of Fees)

Market Value: \$5,503.8 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	-5.1%	-2.0%	8.2%	-9.7%	-12.2%							-10.7%	Mar-18
Northern Trust EAFE Small Cap Custom Benchmark	-5.1%	-2.0%	8.3%	-9.8%	-11.5%							-10.1%	Mar-18
Strategic Global Advisors	-5.4%	-4.9%	6.8%	-13.5%	-16.2%							-9.1%	Nov-17
MSCI World ex USA Small Cap	-5.2%	-2.7%	8.0%	-10.2%	-11.8%	0.4%	5.2%	3.8%	2.9%	8.6%	8.8%	-6.1%	Nov-17
Mackenzie Investments	-4.0%	-2.4%	5.9%	-14.1%	-16.2%							-8.0%	Nov-17
MSCI EAFE Small Cap	-5.3%	-2.3%	8.0%	-10.2%	-11.9%	0.5%	5.6%	4.3%	3.8%	9.9%	9.4%	-6.1%	Nov-17
Non-U.S. Equity Emerging Composite	-7.7%	-5.1%	3.7%	-4.8%	-8.9%	2.2%	9.7%	2.6%	2.0%	2.8%	4.5%	8.2%	Jan-09
MSCI Emerging Markets	-7.3%	-4.5%	4.1%	-4.7%	-8.7%	2.0%	9.9%	2.2%	1.8%	3.8%	5.0%	8.9%	Jan-09
Rhumbline Emerging Markets Index	-7.7%	-5.1%	3.7%	-4.7%	-8.8%	2.2%	9.7%	2.6%	2.1%			1.3%	Feb-13
MSCI Emerging Markets	-7.3%	-4.5%	4.1%	-4.7%	-8.7%	2.0%	9.9%	2.2%	1.8%	3.8%	5.0%	1.3%	Feb-13

### Annualized Performance (Net of Fees)

Market Value: \$5,503.8 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	-3.5%	-6.0%	2.3%	-16.5%	-17.3%	-3.1%	1.9%	-0.8%	-0.5%	1.8%	2.5%	2.1%	Sep-05
HFRI Fund of Funds Composite Index	-0.9%	1.0%	4.7%	-0.2%	-0.7%	2.4%	3.6%	1.1%	2.1%	3.4%	3.1%	2.4%	Sep-05
Elizabeth Park Capital Management	-3.7%	-6.8%	2.4%	-16.4%	-17.3%	-2.1%	5.3%	5.3%	5.4%			5.4%	May-14
HFRX Event Driven Index	-0.4%	-1.5%	0.8%	-6.8%	-7.2%	-4.8%	1.1%	-1.1%	-1.8%	1.3%	1.8%	-1.8%	May-14
T - Archview Offshore Fund. LTD	0.0%	4.7%	0.8%	-17.5%	-18.1%	-4.2%	0.0%	-3.7%	-2.2%			-1.8%	Mar-14
HFRI ED: Distressed/Restructuring Index	-0.2%	0.5%	4.3%	-0.4%	0.8%	2.8%	6.7%	3.1%	1.8%	4.8%	6.4%	2.0%	Mar-14
Real Assets Composite	0.0%	1.8%	5.2%	5.6%	8.1%	5.8%	6.8%	2.6%	3.0%			6.3%	Dec-12
Real Assets Benchmark	0.0%	1.4%	5.1%	5.7%	7.3%	5.7%	6.8%	0.2%	-0.9%			2.5%	Dec-12
Real Assets - Public Real Estate Composite	0.6%	4.9%	17.6%	11.4%	16.0%	9.1%	7.7%	8.5%	9.6%	-		9.3%	Jan-13
FTSE NAREIT All Equity REIT Custom Benchmark	0.6%	4.9%	17.6%	11.6%	16.2%	9.2%	7.8%	8.6%	8.8%				Jan-13
Rhumbline FTSE NAREIT	0.6%	4.9%	17.6%	11.4%	16.0%	9.1%	7.7%	8.5%	8.8%			7.8%	May-13
FTSE NAREIT All Equity REIT Custom Benchmark	0.6%	4.9%	17.6%	11.6%	16.2%	9.2%	7.8%	8.6%	8.8%			7.8%	<i>May-13</i>
Real Assets - Open-End Real Estate Composite	0.0%	0.8%	0.8%	4.0%	5.8%	6.0%	-	-	-	-		5.6%	Jan-17
NFI	0.0%	0.4%	1.2%	4.7%	5.3%	6.3%	6.6%	7.8%	8.8%	9.5%	8.4%	6.3%	Jan-17
UBS Trumbull Fund	0.0%	0.5%	0.5%	3.3%	5.0%	5.6%						5.2%	Jan-17
NFI	0.0%	0.4%	1.2%	4.7%	5.3%	6.3%	6.6%	7.8%	8.8%	9.5%	8.4%	6.3%	Jan-17
Clarion Lion Properties Fund	0.0%	1.8%	1.8%	5.9%	8.5%							8.1%	Feb-18
NFI	0.0%	0.4%	1.2%	4.7%	5.3%	6.3%	6.6%	7.8%	8.8%	9.5%	8.4%	5.9%	Feb-18
Real Assets - Infrastructure Composite	-0.1%	3.8%	16.3%	9.1%	12.1%	5.8%				-		7.5%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	-0.2%	3.7%	16.3%	8.6%	11.5%	5.2%	8.1%	4.4%	4.5%	9.0%	11.9%	6.8%	Mar-17
Rhumbline Infrastructure Index	-0.1%	3.9%	16.6%	9.2%	12.2%	5.9%						7.5%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	-0.2%	3.7%	16.3%	8.6%	11.5%	5.2%	8.1%	4.4%	4.5%	9.0%	11.9%	6.8%	Mar-17
Rreef Global Infrastructure	-0.1%	4.3%	16.4%	9.5%	12.6%							12.0%	Mar-18
Dow Jones Brookfield Global Infrastructure Index	-0.2%	3.7%	16.3%	8.6%	11.5%	5.2%	8.1%	4.4%	4.5%	9.0%	11.9%	11.1%	Mar-18



### Annualized Performance (Net of Fees)

Market Value: \$5,503.8 Million and 100.0% of Fund

#### **Ending May 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
	Real Assets - Private Real Estate Composite	0.0%	0.1%	0.1%	1.9%	3.4%	4.7%	6.5%	6.9%	7.4%	9.5%	7.1%	3.7%	May-06
	Real Assets - Private Real Estate Benchmark	0.0%	0.1%	0.1%	1.9%	3.4%	4.7%	6.5%	6.9%	7.4%	9.6%			<i>May-06</i>
	Real Assets - Private Energy/Infrastructure Composite	0.0%	7.0%	7.0%	18.3%	34.3%	29.9%	24.1%	6.2%	3.1%	8.4%		8.4%	May-12
	Real Assets - Private Energy/Infrastructure Benchmark	0.0%	7.0%	7.0%	18.3%	34.3%	29.9%	24.1%	6.2%	3.1%	8.4%		8.4%	<i>May-12</i>
Pri	ivate Assets Composite	0.0%	0.0%	0.0%	-1.6%	8.8%	12.1%	11.4%	9.9%					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.

