

#### (Preliminary Subject to Change)



#### **Employees Retirement System**

City of Philadelphia
Employees Retirement System
Executive Summary

August 31, 2019

# **Total Fund Composite**

Market Value: \$5,373.4 Million and 100.0% of Fund

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Total Fund Composite		5,373,444,523	-187,057,163	100.0	100.0	0
Total Fund w/o Alternative Assets		3,920,699,797	-159,816,051	73.0	69.0	213,023,076
Investment Grade Fixed Income Composite		701,128,982	0	13.0	10.0	163,784,530
Brandywine Global Investment Management	Global Fixed Income	140,109,061	0	2.6		, . ,
Garcia Hamilton & Associates	Int. Govt. Fixed Income	177,217,277	0	3.3		
Logan Circle	Core Plus Fixed Income	48,751,212	0	0.9		
Longfellow	Core Plus Fixed Income	172,611,692	0	3.2		
Rhumbline Core Bond Index	Core Fixed Income	162,439,741	0	3.0		
Opportunistic Fixed Income Composite		256,958,964	-7,276,476	4.8	4.0	42,021,183
T - Apollo Franklin Partnership, L.P.	Opportunistic Fixed Income	9,359,721	-2,636,364	0.2		
T - Avenue Coppers Opportunity Fund LP	Opportunistic Fixed Income	19,364,591	-465,328	0.4		
T - KKR-PBPR Capital Partners LP	Opportunistic Fixed Income	46,605,956	-3,934,784	0.9		
Logan Circle - EMD	EM Fixed Income	74,509,313	-240,000	1.4		
Strategic Income Management	High Yield Fixed Income	52,610,935	0	1.0		
Lord Abbett High Yield	High Yield Fixed Income	54,079,338	0	1.0		
U.S. Equity Composite		1,628,667,595	0	30.3	30.0	16,634,238
Rhumbline Russell 1000 Index	Large-Cap Core	1,191,757,928	0	22.2		
O'Shaughnessy Asset Management	Large-Cap Value	28,147,221	0	0.5		
Rhumbline MidCap Index	Mid-Cap Core	154,622,703	-6,252	2.9		
Rhumbline Russell 2000 Index	Small-Cap Core	39,761,257	-1,664	0.7		
Emerald Advisors	Small-Cap Growth	79,858,965	0	1.5		
Fisher Asset Management	Small-Cap Value	54,422,450	0	1.0		
Fiera Capital	Smid-Cap Growth	28,107,716	0	0.5		
Ariel	Smid-Cap Value	51,880,534	0	1.0		
Non-U.S. Equity Developed Composite		1,065,941,375	0	19.8	21.0	-62,481,975
Causeway Capital Management	Non-U.S. Large-Cap Core	103,666,193	0	1.9		
Northern Trust MSCI EAFE+Canada	Non-U.S. Large-Cap Core	771,779,446	0	14.4		
Northern Trust International Small Cap	Non-U.S. Small-Cap Core	96,970,648	0	1.8		
Strategic Global Advisors	Non-U.S. Small-Cap Core	30,349,085	0	0.6		
Mackenzie Investments	Non-U.S. Small-Cap Core	59,351,621	0	1.1		
Non-U.S. Equity Emerging Composite		207,488,144	-35	3.9	4.0	-7,449,637
Rhumbline Emerging Markets Index	Emerging Markets	207,483,955	-35	3.9		

# **Total Fund Composite**

Market Value: \$5,373.4 Million and 100.0% of Fund

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Cash Composite		60,514,738	-152,539,540	1.1	0.0	60,514,738
Cash	Cash & Equivalents	59,852,466	-152,532,416	1.1		
Directed Commissions	Cash & Equivalents	662,272	-7,124	0.0		
Absolute Return		27,682,965	0	0.5	0.0	27,682,965
Elizabeth Park Capital Management	Long/Short Hedge Fund	25,888,678	0	0.5		
T - Archview Offshore Fund. LTD	Credit Hedge Fund	1,794,286	0	0.0		
Real Assets Composite		985,471,282	-8,474,893	18.3	19.0	-35,483,177
Real Assets - Public Real Estate Composite		65,171,152	0	1.2	1.0	11,436,707
Rhumbline FTSE NAREIT	Real Assets	65,171,152	0	1.2		
Real Assets - Open-End Real Estate Composite		534,455,545	-4,715,735	9.9	11.0	-56,623,353
UBS Trumbull Fund	Core Real Estate	396,867,343	-4,428,096	7.4		
Clarion Lion Properties Fund	Core Real Estate	137,588,202	-287,639	2.6		
Real Assets - Infrastructure Composite		274,413,646	0	5.1	5.0	5,741,419
Rhumbline Infrastructure Index	Publicly-Traded Infrastructure	184,148,944	0	3.4		
Rreef Global Infrastructure	Global Infrastructure	90,264,701	0	1.7		
Real Assets - Private Real Estate Composite		96,973,432	-5,100,271	1.8	2.0	-10,495,459
Real Assets - Private Energy/Infrastructure Composite		14,457,508	1,341,114	0.3		14,457,508
Private Assets Composite		439,590,479	-18,766,219	8.2	12.0	-205,222,863
Private Assets - Private Equity	U.S. Private Equity FoF	410,431,332	-18,532,918	7.6		
Private Assets - Private Debt	Mezz. Private Equity	29,159,147	-233,301	0.5		

## Annualized Performance (Net of Fees)

Market Value: \$5,373.4 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>	-1.2%	2.6%	9.9%	-0.9%	1.9%	5.6%	7.6%	6.6%	4.5%	6.8%	7.6%	7.4%	Jul-88
Total Fund Policy Benchmark	-1.1%	2.7%	10.2%	-0.9%	3.0%	6.2%	7.8%	7.2%	5.3%	7.5%	8.5%	8.3%	Jul-88
Total Fund w/o Alternative Assets	-1.7%	3.5%	11.5%	-1.4%	0.2%	4.3%	7.0%	6.5%	4.0%			5.1%	Jan-14
Investment Grade Fixed Income Composite	1.8%	3.3%	7.5%	1.7%	8.3%	3.3%	2.9%	3.7%	2.2%	2.4%	3.8%	6.1%	Jul-88
Fixed Income Custom Benchmark	2.6%	4.2%	8.7%	2.7%	9.8%	4.2%	3.0%	3.7%	3.3%	2.8%	3.9%	6.3%	Jul-88
Brandywine Global Investment Management	-0.3%	1.9%	4.9%	-1.6%	4.6%	-0.2%	2.2%	3.8%	1.1%	2.3%	4.9%	6.5%	Jan-09
FTSE WGBI TR	2.7%	4.6%	7.7%	2.2%	8.4%	3.2%	1.9%	3.8%	1.4%	1.0%	2.1%	2.6%	Jan-09
Garcia Hamilton & Associates	1.6%	2.6%	6.2%	1.8%	7.2%	3.5%	2.6%	3.2%	2.9%	3.0%	4.2%	5.2%	Aug-00
BBgBarc US Govt/Credit Int TR	1.8%	2.8%	6.8%	1.7%	8.1%	3.5%	2.6%	2.9%	2.6%	2.2%	3.2%	4.4%	Aug-00
Logan Circle	2.7%	4.5%	10.2%	3.1%	10.5%	5.0%	4.0%	4.6%				3.9%	Oct-14
BBgBarc US Aggregate TR	2.6%	4.1%	9.1%	2.8%	10.2%	4.4%	3.1%	3.8%	3.3%	2.8%	3.9%	3.4%	Oct-14
Longfellow	2.7%	4.1%	9.3%	2.9%	10.1%	4.7%	3.6%	4.1%				3.7%	Sep-14
BBgBarc US Aggregate TR	2.6%	4.1%	9.1%	2.8%	10.2%	4.4%	3.1%	3.8%	3.3%	2.8%	3.9%	3.5%	Sep-14
Rhumbline Core Bond Index	2.7%	4.1%	8.8%	2.9%	9.9%	4.3%	3.0%	3.6%	3.1%	2.5%	3.7%	4.3%	Jun-07
BBgBarc US Aggregate TR	2.6%	4.1%	9.1%	2.8%	10.2%	4.4%	3.1%	3.8%	3.3%	2.8%	3.9%	4.5%	Jun-07
Opportunistic Fixed Income Composite	-1.1%	1.7%	5.5%	-0.5%	2.2%	1.9%	3.5%	3.1%	1.9%			3.2%	Dec-12
Opportunistic FI Custom Benchmark	0.2%	2.7%	9.6%	1.0%	5.9%	5.0%	5.7%	5.9%	4.5%	5.3%		5.0%	Dec-12
T - Apollo Franklin Partnership, L.P.	0.0%	2.1%	8.4%	0.1%	1.1%	1.8%	0.7%	-1.4%	-4.4%			-2.2%	May-13
50% BarCap HY / 50% CSFB Lev Loans	0.1%	2.0%	8.5%	0.7%	5.0%	4.7%	5.5%	5.7%	4.4%	5.3%	7.1%	4.7%	May-13
T - Avenue Coppers Opportunity Fund LP	0.0%	-0.2%	-0.9%	0.0%	-9.8%	-4.2%	-1.5%	-1.3%	-1.1%	-		0.5%	Dec-13
Actuarial Rate	0.6%	1.9%	5.0%	1.2%	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%	-0.1%	-2.1%	0.1%	-7.6%	-1.6%	1.5%	2.0%	1.5%	4.3%		4.4%	Jun-12
Actuarial Rate	0.6%	1.9%	5.0%	1.2%	7.6%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Jun-12
Logan Circle - EMD	-3.6%	1.6%	8.1%	-2.6%	9.6%	1.5%	4.4%	6.7%	-			5.2%	Feb-15
JP Morgan EMBI Global TR	0.5%	4.8%	12.5%	1.7%	13.1%	3.9%	4.1%	6.7%	4.7%	4.4%	7.1%	5.8%	Feb-15
Strategic Income Management	-0.2%	2.2%	7.5%	0.1%	4.8%	5.2%	6.1%		-			8.2%	Mar-16
ICE BofAML US High Yield TR	0.4%	3.4%	11.2%	0.9%	6.7%	4.9%	6.2%	6.9%	4.9%	6.0%	8.5%	8.7%	Mar-16

### Annualized Performance (Net of Fees)

Market Value: \$5,373.4 Million and 100.0% of Fund

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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	0.2%	3.9%		1.0%	-					-		7.6%	Jan-19
IC TI	CE BofAML US High Yield R	0.4%	3.4%	11.2%	0.9%	6.7%	4.9%	6.2%	6.9%	4.9%	6.0%	8.5%	6.3%	Jan-19
U.S. Ed	quity Composite	-2.6%	5.8%	18.1%	-1.1%	0.0%	9.7%	11.8%	10.9%	8.6%	12.3%	13.0%	9.6%	Jul-88
	Equity Custom chmark	-2.6%	5.7%	17.3%	-1.2%	0.7%	10.0%	12.0%	11.9%	9.5%	13.0%	13.3%	10.3%	Jul-88
Rhur	mbline Russell 1000 Index	-1.8%	6.7%	18.6%	-0.3%	2.5%	10.8%	12.7%	12.4%	9.9%	13.4%	13.3%	7.9%	May-07
	humbline Russell 1000 ustom Benchmark	-1.8%	6.7%	18.6%	-0.3%	2.5%	10.8%	12.7%	12.4%	9.9%	13.4%			<i>May-</i> 07
	naughnessy Asset agement	-5.6%	3.4%	13.2%	-4.3%	-6.9%	6.3%	9.9%	8.4%	5.6%	11.9%	-	12.1%	Jun-12
R	ussell 1000 Value	-2.9%	4.9%	13.8%	-2.1%	0.6%	6.4%	8.1%	9.3%	6.6%	11.2%	11.5%	11.5%	Jun-12
Rhur	mbline MidCap Index	-2.9%	5.3%	19.6%	-1.5%	0.6%	8.9%						10.0%	Dec-16
R	humbline Russell Mid Cap ustom Benchmark	-2.9%	5.3%	19.7%	-1.5%	0.8%	9.0%						10.1%	Dec-16
Rhur	mbline Russell 2000 Index	-4.9%	2.5%	11.9%	-4.3%	-12.6%	4.7%	-	-	-	-		5.3%	Dec-16
	humbline Russell 2000 ustom Benchmark	-4.9%	2.5%	11.9%	-4.3%	-12.8%	4.6%						5.2%	Dec-16
Eme	rald Advisors	-5.7%	1.6%	20.7%	-3.8%	-8.7%	10.5%	13.6%	9.0%	11.0%	14.3%	15.3%	9.7%	Dec-04
R	ussell 2000 Growth	-4.3%	4.1%	16.3%	-3.4%	-11.0%	7.8%	10.6%	8.8%	8.1%	12.0%	13.1%	8.3%	Dec-04
	er Asset Management	-6.3%	3.4%	11.0%	-4.5%	-12.1%	2.9%	8.0%	8.3%	7.3%	10.9%	11.9%	8.7%	May-08
R	ussell 2000 Value	-5.6%	0.6%	7.3%	-5.4%	-14.9%	1.1%	5.0%	7.2%	4.6%	9.1%	10.0%	6.9%	<i>May-08</i>
Fiera	a Capital	-4.7%	4.4%	20.6%	-3.4%	-3.8%	10.7%	11.7%	8.5%	6.7%	12.4%	-	13.8%	Dec-09
R	ussell 2500 Growth	-2.8%	6.4%	22.3%	-1.3%	-3.7%	12.0%	13.2%	11.0%	9.6%	13.4%	14.4%	13.6%	Dec-09
Ariel		-6.5%	1.0%	11.1%	-5.9%	-8.7%	3.3%	5.6%					8.6%	Jan-16
R	ussell 2500 Value	-4.9%	1.9%	10.4%	-4.3%	-10.0%	2.8%	5.5%	7.3%	4.8%	9.9%	11.1%	10.4%	Jan-16
Non-U. Compo	S. Equity Developed posite	-2.3%	2.0%	10.2%	-3.3%	-4.1%	0.1%	5.6%	3.9%	1.3%	5.0%	5.0%	5.3%	Jan-89
	-U.S. Equity Developed tom Benchmark	-2.5%	1.8%	10.1%	-3.6%	-4.2%	0.3%	6.0%	4.8%	2.0%	6.3%	5.4%		Jan-89
	seway Capital agement	-4.2%	-1.3%	3.7%	-6.5%	-10.5%	-3.2%	3.4%	1.5%	0.1%	5.3%		6.3%	Nov-11
	SCI EAFE	-2.6%	1.9%	9.7%	-3.8%	-3.3%	0.5%	5.9%	4.4%	1.9%	6.1%	5.0%	6.3%	Nov-11
	hern Trust MSCI E+Canada	-2.1%	2.6%	11.5%	-3.1%	-1.7%	1.5%	6.5%	5.0%	2.1%	6.1%	5.7%	2.7%	Mar-07
+	orthern Trust MSCI EAFE Canada Custom enchmark	-2.1%	2.6%	11.6%	-3.1%	-1.6%	1.6%	6.6%	5.3%	2.5%	6.9%	5.8%	2.4%	Mar-07

## Annualized Performance (Net of Fees)

Market Value: \$5,373.4 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	-2.7%	0.7%	9.0%	-3.3%	-9.0%							-8.4%	Mar-18
Northern Trust EAFE Small Cap Custom Benchmark	-2.4%	1.1%	9.4%	-3.0%	-8.8%							-7.8%	Mar-18
Strategic Global Advisors	-4.1%	0.0%	6.8%	-4.6%	-12.1%							-7.9%	Nov-17
MSCI World ex USA Small Cap	-2.3%	1.7%	9.8%	-2.8%	-8.6%	-1.1%	5.6%	5.8%	3.3%	7.8%	7.3%	-4.3%	Nov-17
Mackenzie Investments	-0.8%	3.8%	10.0%	0.4%	-8.9%							-4.9%	Nov-17
MSCI EAFE Small Cap	-2.5%	0.9%	9.0%	-3.2%	-9.2%	-1.2%	6.0%	5.8%	4.3%	8.9%	7.7%	-4.7%	Nov-17
Non-U.S. Equity Emerging Composite	-4.8%	-0.2%	3.5%	-6.2%	-4.3%	-2.3%	5.7%	7.5%	0.9%	2.0%	3.2%	8.0%	Jan-09
MSCI Emerging Markets	-4.9%	-0.2%	3.9%	-6.0%	-4.4%	-2.5%	5.8%	7.2%	0.4%	3.0%	4.1%	8.6%	Jan-09
Rhumbline Emerging Markets Index	-4.8%	-0.2%	3.5%	-6.2%	-4.2%	-2.3%	5.7%	7.6%	0.6%			1.3%	Feb-13
MSCI Emerging Markets	-4.9%	-0.2%	3.9%	-6.0%	-4.4%	-2.5%	5.8%	7.2%	0.4%	3.0%	4.1%	1.2%	Feb-13

### Annualized Performance (Net of Fees)

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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
Absolute Return	-5.8%	-1.3%	0.9%	-4.9%	-18.0%	-4.3%	0.5%	-0.7%	-1.0%	1.6%	2.0%	2.0%	Sep-05
HFRI Fund of Funds Composite Index	-0.7%	1.1%	5.7%	-0.5%	0.3%	2.0%	3.4%	2.1%	2.0%	3.4%	2.9%	2.5%	Sep-05
Elizabeth Park Capital Management	-6.2%	-0.8%	1.6%	-5.1%	-17.7%	-3.3%	4.2%	4.8%	5.3%			5.0%	May-14
HFRX Event Driven Index	0.5%	2.3%	3.2%	0.7%	-4.0%	-4.2%	0.2%	0.9%	-1.7%	1.6%	1.6%	-1.3%	May-14
T - Archview Offshore Fund. LTD	-1.2%	-7.9%	-8.0%	-1.6%	-22.9%	-8.7%	-4.2%	-4.5%	-4.3%			-3.3%	Mar-14
HFRI ED: Distressed/Restructuring Index	-1.9%	-1.5%	2.5%	-2.2%	-2.3%	1.5%	4.6%	4.0%	1.3%	4.3%	5.5%	1.6%	Mar-14
Real Assets Composite	0.8%	0.7%	6.0%	0.8%	6.0%	5.1%	5.9%	4.7%	1.9%			6.2%	Dec-12
Real Assets Benchmark	0.7%	1.8%	7.6%	0.7%	7.3%	5.5%	5.2%	3.0%	-1.4%			2.8%	Dec-12
Real Assets - Public Real Estate Composite	4.1%	7.3%	26.2%	5.8%	15.8%	10.9%	7.8%	11.9%	10.3%	-	-	10.1%	Jan-13
FTSE NAREIT All Equity REIT Custom Benchmark	4.1%	7.3%	26.2%	5.8%	15.8%	11.0%	7.9%	12.0%	9.4%				Jan-13
Rhumbline FTSE NAREIT	4.1%	7.3%	26.2%	5.8%	15.8%	10.9%	7.8%	11.9%	9.4%			8.7%	May-13
FTSE NAREIT All Equity REIT Custom Benchmark	4.1%	7.3%	26.2%	5.8%	15.8%	11.0%	7.9%	12.0%	9.4%			8.7%	May-13
Real Assets - Open-End Real Estate Composite	0.0%	-2.6%	-1.9%	0.0%	1.2%	4.1%	-	-	-	-	-	3.9%	Jan-17
NFI	0.0%	0.3%	2.0%	0.0%	4.2%	5.9%	6.2%	7.0%	8.3%	9.3%	9.4%	6.0%	Jan-17
UBS Trumbull Fund	0.0%	-3.9%	-3.4%	0.0%	-0.6%	3.0%				-		3.1%	Jan-17
NFI	0.0%	0.3%	2.0%	0.0%	4.2%	5.9%	6.2%	7.0%	8.3%	9.3%	9.4%	6.0%	Jan-17
Clarion Lion Properties Fund	0.0%	1.1%	2.9%	0.0%	7.0%					-		7.5%	Feb-18
NFI	0.0%	0.3%	2.0%	0.0%	4.2%	5.9%	6.2%	7.0%	8.3%	9.3%	9.4%	5.5%	Feb-18
Real Assets - Infrastructure Composite	1.8%	5.6%	22.8%	1.5%	14.3%	6.5%						9.1%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	1.8%	4.2%	21.2%	1.4%	12.6%	5.2%	8.0%	8.0%	3.9%	8.5%	11.4%	7.9%	Mar-17
Rhumbline Infrastructure Index	1.9%	5.4%	22.8%	1.5%	14.4%	6.5%						9.1%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	1.8%	4.2%	21.2%	1.4%	12.6%	5.2%	8.0%	8.0%	3.9%	8.5%	11.4%	7.9%	Mar-17
Rreef Global Infrastructure	1.8%	5.9%	23.4%	1.5%	14.6%							14.4%	Mar-18
Dow Jones Brookfield Global Infrastructure Index	1.8%	4.2%	21.2%	1.4%	12.6%	5.2%	8.0%	8.0%	3.9%	8.5%	11.4%	12.3%	Mar-18



### Annualized Performance (Net of Fees)

Market Value: \$5,373.4 Million and 100.0% of Fund

#### Ending August 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%	1.9%	3.3%	0.0%	6.3%	6.2%	7.2%	7.4%	7.7%	10.0%	8.3%	4.0%	May-06
Real Assets - Private Real Estate Benchmark	0.0%	1.9%	3.3%	0.0%	6.3%	6.2%	7.2%	7.4%	7.7%	10.0%			May-06
Real Assets - Private Energy/Infrastructure Composite	0.0%	2.4%	9.6%	0.0%	21.2%	26.6%	17.9%	9.2%	-2.7%	8.8%		8.5%	May-12
Real Assets - Private Energy/Infrastructure Benchmark	0.0%	2.4%	9.6%	0.0%	21.2%	26.6%	17.9%	9.2%	-2.7%	8.8%		8.5%	May-12
Private Assets Composite	0.0%	-0.6%	5.8%	0.0%	10.5%	15.6%	13.8%	11.6%	11.2%	12.4%	13.3%	8.7%	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.

