

(Preliminary Subject to Change)



Employees Retirement System

City of Philadelphia
Employees Retirement System
Executive Summary
July 31, 2019

Total Fund Composite

Market Value: \$5,506.2 Million and 100.0% of Fund

			inding July 31,					
	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)		
Total Fund Composite		5,506,230,315	-181,550,227	100.0	100.0	0		
Total Fund w/o Alternative Assets		4,056,423,752	-150,291,233	73.7	69.0	257,124,835		
Investment Grade Fixed Income Composite		688,653,479	-759	12.5	10.0	138,030,447		
Brandywine Global Investment Management	Global Fixed Income	140,512,989	0	2.6				
Garcia Hamilton & Associates	Int. Govt. Fixed Income	174,417,998	0	3.2				
Logan Circle	Core Plus Fixed Income	47,441,876	-75	0.9				
Longfellow	Core Plus Fixed Income	168,112,946	0	3.1				
Rhumbline Core Bond Index	Core Fixed Income	158,167,670	-683	2.9				
Opportunistic Fixed Income Composite		261,193,629	-5,763,833	4.7	4.0	40,944,416		
T - Apollo Franklin Partnership, L.P.	Opportunistic Fixed Income	10,619,959	-1,363,706	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	46,561,630	-3,934,784	0.8				
Logan Circle - EMD	EM Fixed Income	77,514,262	0	1.4				
Strategic Income Management	High Yield Fixed Income	52,719,268	-15	1.0				
Lord Abbett High Yield	High Yield Fixed Income	53,981,635	0	1.0				
U.S. Equity Composite		1,672,256,766	0	30.4	30.0	20,387,672		
Rhumbline Russell 1000 Index	Large-Cap Core	1,213,723,840	0	22.0				
O'Shaughnessy Asset Management	Large-Cap Value	29,817,702	0	0.5				
Rhumbline MidCap Index	Mid-Cap Core	159,175,718	-6,252	2.9				
Rhumbline Russell 2000 Index	Small-Cap Core	41,804,820	-1,664	0.8				
Emerald Advisors	Small-Cap Growth	84,640,878	0	1.5				
Fisher Asset Management	Small-Cap Value	58,049,030	0	1.1				
Fiera Capital	Smid-Cap Growth	29,485,554	0	0.5				
Ariel	Smid-Cap Value	55,450,550	0	1.0				
Non-U.S. Equity Developed Composite		1,091,223,679	14	19.8	21.0	-65,084,687		
Causeway Capital Management	Non-U.S. Large-Cap Core	108,195,964	0	2.0				
Northern Trust MSCI EAFE+Canada	Non-U.S. Large-Cap Core	788,267,539	0	14.3				
Northern Trust International Small Cap	Non-U.S. Small-Cap Core	99,567,193	0	1.8				
Strategic Global Advisors	Non-U.S. Small-Cap Core	31,565,458	14	0.6				
Mackenzie Investments	Non-U.S. Small-Cap Core	59,768,270	0	1.1				
Non-U.S. Equity Emerging Composite		217,973,718	-35	4.0	4.0	-2,275,494		
Rhumbline Emerging Markets Index	Emerging Markets	217,969,460	-35	4.0				

Total Fund Composite

Market Value: \$5,506.2 Million and 100.0% of Fund

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Cash Composite		125,122,481	-144,526,620	2.3	0.0	125,122,481
Cash	Cash & Equivalents	124,457,610	-144,522,249	2.3		
Directed Commissions	Cash & Equivalents	664,871	-4,371	0.0		
Absolute Return		29,413,174	0	0.5	0.0	29,413,174
Elizabeth Park Capital Management	Long/Short Hedge Fund	27,614,139	0	0.5		
T - Archview Offshore Fund. LTD	Credit Hedge Fund	1,799,035	0	0.0		
Real Assets Composite		973,828,243	-10,746,960	17.7	19.0	-72,355,517
Real Assets - Public Real Estate Composite		62,575,631	0	1.1	1.0	7,513,327
Rhumbline FTSE NAREIT	Real Assets	62,575,631	0	1.1		
Real Assets - Open-End Real Estate Composite		534,455,545	-4,715,735	9.7	11.0	-71,229,790
UBS Trumbull Fund	Core Real Estate	396,867,343	-4,428,096	7.2		
Clarion Lion Properties Fund	Core Real Estate	137,588,202	-287,639	2.5		
Real Assets - Infrastructure Composite		269,438,351	0	4.9	5.0	-5,873,165
Rhumbline Infrastructure Index	Publicly-Traded Infrastructure	180,744,604	0	3.3		
Rreef Global Infrastructure	Global Infrastructure	88,693,746	0	1.6		
Real Assets - Private Real Estate Composite		95,100,812	-5,542,722	1.7	2.0	-15,023,794
Real Assets - Private Energy/Infrastructure Composite		12,257,905	-488,503	0.2		12,257,905
Private Assets Composite		446,565,146	-20,512,034	8.1	12.0	-214,182,492
Private Assets - Private Equity	U.S. Private Equity FoF	417,307,695	-20,302,138	7.6		
Private Assets - Private Debt	Mezz. Private Equity	29,257,451	-209,896	0.5		

Annualized Performance (Net of Fees)

Market Value: \$5,506.2 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	0.2%	0.6%	11.2%	0.2%	3.7%	6.3%	8.2%	5.9%	5.1%	7.3%	8.0%	7.5%	Jul-88
Total Fund Policy Benchmark	0.2%	0.8%	11.4%	0.2%	4.8%	6.9%	8.4%	6.7%	6.0%	7.9%	8.9%	8.3%	Jul-88
Total Fund w/o Alternative Assets	0.3%	1.0%	13.5%	0.3%	2.7%	5.4%	7.9%	5.6%	4.8%	-		5.5%	Jan-14
Investment Grade Fixed Income Composite	-0.1%	3.0%	5.7%	-0.1%	6.1%	2.8%	2.2%	3.0%	2.1%	2.2%	3.7%	6.0%	Jul-88
Fixed Income Custom Benchmark	0.0%	3.4%	6.0%	0.0%	7.7%	3.4%	2.1%	3.0%	3.0%	2.4%	3.7%	6.2%	Jul-88
Brandywine Global Investment Management	-1.3%	3.0%	5.2%	-1.3%	1.8%	0.4%	2.1%	3.3%	1.5%	2.4%	5.2%	6.6%	Jan-09
FTSE WGBI TR	-0.5%	3.6%	4.9%	-0.5%	5.4%	2.5%	0.7%	3.2%	0.9%	0.7%	2.0%	2.3%	Jan-09
Garcia Hamilton & Associates	0.2%	2.2%	4.5%	0.2%	6.1%	3.0%	2.0%	2.8%	2.7%	2.9%	4.1%	5.2%	Aug-00
BBgBarc US Govt/Credit Int TR	0.0%	2.4%	4.9%	0.0%	6.9%	2.9%	1.9%	2.5%	2.4%	2.0%	3.1%	4.4%	Aug-00
Logan Circle	0.3%	3.5%	7.3%	0.3%	8.2%	4.0%	3.1%	3.8%		_		3.4%	Oct-14
BBgBarc US Aggregate TR	0.2%	3.3%	6.3%	0.2%	8.1%	3.5%	2.2%	3.1%	3.0%	2.5%	3.8%	2.9%	Oct-14
Longfellow	0.3%	3.2%	6.5%	0.3%	8.0%	3.8%	2.7%	3.3%				3.2%	Sep-14
BBgBarc US Aggregate TR	0.2%	3.3%	6.3%	0.2%	8.1%	3.5%	2.2%	3.1%	3.0%	2.5%	3.8%	3.1%	Sep-14
Rhumbline Core Bond Index	0.2%	3.2%	6.0%	0.2%	7.8%	3.4%	2.0%	2.9%	2.8%	2.1%	3.6%	4.1%	Jun-07
BBgBarc US Aggregate TR	0.2%	3.3%	6.3%	0.2%	8.1%	3.5%	2.2%	3.1%	3.0%	2.5%	3.8%	4.3%	Jun-07
Opportunistic Fixed Income Composite	0.5%	2.5%	6.6%	0.5%	2.5%	2.7%	4.3%	3.0%	2.2%	-	-	3.4%	Dec-12
Opportunistic FI Custom Benchmark	0.8%	2.1%	9.4%	0.8%	6.3%	4.9%	6.2%	5.5%	4.6%	5.4%		5.0%	Dec-12
T - Apollo Franklin Partnership, L.P.	0.0%	4.3%	8.3%	0.0%	5.0%	2.9%	1.1%	-1.9%	-4.4%			-2.3%	May-13
50% BarCap HY / 50% CSFB Lev Loans	0.7%	1.2%	8.4%	0.7%	5.5%	4.6%	6.0%	5.4%	4.6%	5.4%	7.3%	4.7%	<i>May-13</i>
T - Avenue Coppers Opportunity Fund LP	0.0%	0.1%	-0.9%	0.0%	-8.7%	-3.9%	-1.0%	-1.6%	-0.9%	-		0.5%	Dec-13
Actuarial Rate	0.6%	1.9%	4.4%	0.6%	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%	-2.2%	0.0%	-7.7%	-1.6%	1.8%	1.9%	1.6%	4.4%		4.4%	Jun-12
Actuarial Rate	0.6%	1.9%	4.4%	0.6%	7.6%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	Jun-12
Logan Circle - EMD	1.1%	5.6%	12.1%	1.1%	8.8%	4.3%	6.3%	7.0%				6.2%	Feb-15
JP Morgan EMBI Global TR	1.2%	4.8%	11.9%	1.2%	10.3%	4.5%	4.5%	6.2%	4.7%	4.5%	7.2%	5.8%	Feb-15
Strategic Income Management	0.3%	0.9%	7.8%	0.3%	4.9%	5.1%	6.8%					8.5%	Mar-16
ICE BofAML US High Yield TR	0.5%	1.7%	10.8%	0.5%	7.0%	4.7%	6.9%	6.4%	5.1%	6.2%	8.6%	8.8%	Mar-16

Annualized Performance (Net of Fees)

Market Value: \$5,506.2 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%	2.8%		0.9%								7.4%	Jan-19
ICE BofAML US High Yield TR	0.5%	1.7%	10.8%	0.5%	7.0%	4.7%	6.9%	6.4%	5.1%	6.2%	8.6%	5.9%	Jan-19
U.S. Equity Composite	1.5%	1.4%	21.2%	1.5%	6.4%	11.1%	13.0%	9.9%	10.1%	13.1%	13.7%	9.7%	Jul-88
U.S. Equity Custom Benchmark	1.3%	1.3%	20.3%	1.3%	6.9%	11.6%	13.1%	10.8%	10.9%	13.9%	14.0%	10.4%	Jul-88
Rhumbline Russell 1000 Index	1.6%	1.7%	20.7%	1.6%	8.0%	12.1%	13.4%	11.2%	11.2%	14.1%	13.9%	8.2%	May-07
Rhumbline Russell 1000 Custom Benchmark	1.6%	1.7%	20.8%	1.6%	8.0%	12.1%	13.4%	11.2%	11.2%	14.1%			<i>May-</i> 07
O'Shaughnessy Asset Management	1.5%	0.0%	20.0%	1.5%	0.2%	8.5%	12.8%	8.5%	7.7%	13.5%	-	13.1%	Jun-12
Russell 1000 Value	0.8%	1.1%	17.2%	0.8%	5.2%	7.3%	9.4%	8.4%	8.0%	12.1%	12.4%	12.1%	Jun-12
Rhumbline MidCap Index	1.4%	1.8%	23.1%	1.4%	6.8%	10.1%						11.6%	Dec-16
Rhumbline Russell Mid Cap Custom Benchmark	1.4%	1.8%	23.3%	1.4%	6.9%	10.1%						11.6%	Dec-16
Rhumbline Russell 2000 Index	0.6%	-0.6%	17.7%	0.6%	-4.1%	6.7%		-		-	-	7.5%	Dec-16
Rhumbline Russell 2000 Custom Benchmark	0.6%	-0.7%	17.7%	0.6%	-4.3%	6.6%						7.4%	Dec-16
Emerald Advisors	2.0%	2.3%	28.0%	2.0%	5.6%	14.2%	16.3%	8.5%	13.8%	16.0%	16.4%	10.2%	Dec-04
Russell 2000 Growth	1.0%	0.7%	21.5%	1.0%	-1.2%	10.2%	12.7%	7.9%	10.2%	13.3%	13.7%	8.7%	Dec-04
Fisher Asset Management	1.9%	-0.7%	18.4%	1.9%	-2.5%	5.2%	10.7%	8.1%	9.7%	12.5%	13.0%	9.4%	May-08
Russell 2000 Value	0.2%	-2.2%	13.6%	0.2%	-7.7%	2.7%	8.0%	7.4%	6.7%	10.5%	11.2%	7.5%	<i>May-08</i>
Fiera Capital	1.4%	2.6%	26.6%	1.4%	6.8%	13.4%	13.9%	7.8%	9.2%	14.0%		14.5%	Dec-09
Russell 2500 Growth	1.6%	2.2%	25.8%	1.6%	5.8%	13.7%	14.5%	9.8%	11.5%	14.5%	15.0%	14.0%	Dec-09
Ariel	0.6%	-3.0%	18.8%	0.6%	-1.9%	5.2%	9.0%	-		-		11.0%	Jan-16
Russell 2500 Value	0.7%	-0.9%	16.0%	0.7%	-3.2%	4.5%	7.6%	7.3%	6.7%	11.2%	12.3%	12.2%	Jan-16
Non-U.S. Equity Developed Composite	-1.0%	-0.6%	12.9%	-1.0%	-3.4%	1.3%	6.6%	2.6%	1.8%	5.8%	5.6%	5.4%	Jan-89
Non-U.S. Equity Developed Custom Benchmark	-1.1%	-0.6%	12.9%	-1.1%	-3.4%	1.7%	6.8%	3.6%	2.5%	7.1%	6.2%		Jan-89
Causeway Capital Management	-2.3%	-4.5%	8.3%	-2.3%	-8.4%	-1.3%	5.5%	1.0%	1.1%	6.4%		6.9%	Nov-11
MSCI EAFE	-1.3%	-0.4%	12.6%	-1.3%	-2.6%	1.8%	6.9%	3.1%	2.4%	6.9%	5.8%	6.7%	Nov-11
Northern Trust MSCI EAFE+Canada	-1.0%	0.0%	13.9%	-1.0%	-1.3%	2.5%	7.3%	3.6%	2.6%	6.9%	6.3%	2.9%	Mar-07
Northern Trust MSCI EAFE + Canada Custom Benchmark	-1.0%	0.1%	14.0%	-1.0%	-1.1%	2.7%	7.4%	3.9%	2.9%	7.7%	6.6%	2.6%	Mar-07

Annualized Performance (Net of Fees)

Market Value: \$5,506.2 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	-0.7%	-1.9%	11.9%	-0.7%	-7.3%			-	-	-		-7.1%	Mar-18
Northern Trust EAFE Small Cap Custom Benchmark	-0.7%	-1.8%	12.0%	-0.7%	-7.3%							-6.6%	Mar-18
Strategic Global Advisors	-0.7%	-1.5%	11.2%	-0.7%	-10.6%							-6.0%	Nov-17
MSCI World ex USA Small Cap	-0.4%	-1.4%	12.4%	-0.4%	-7.1%	0.5%	6.2%	5.2%	3.8%	8.6%	8.3%	-3.2%	Nov-17
Mackenzie Investments	1.2%	0.4%	10.8%	1.2%	-10.1%	-	-					-4.7%	Nov-17
MSCI EAFE Small Cap	-0.7%	-2.0%	11.7%	-0.7%	-7.6%	0.5%	6.7%	5.3%	4.7%	9.7%	8.8%	-3.5%	Nov-17
Non-U.S. Equity Emerging Composite	-1.4%	-3.3%	8.7%	-1.4%	-2.0%	1.2%	8.3%	6.5%	2.2%	2.9%	3.9%	8.5%	Jan-09
MSCI Emerging Markets	-1.2%	-2.7%	9.2%	-1.2%	-2.2%	1.0%	8.4%	6.1%	1.8%	3.7%	4.6%	9.2%	Jan-09
Rhumbline Emerging Markets Index	-1.4%	-3.3%	8.7%	-1.4%	-1.9%	1.2%	8.3%	6.5%	2.2%			2.0%	Feb-13
MSCI Emerging Markets	-1.2%	-2.7%	9.2%	-1.2%	-2.2%	1.0%	8.4%	6.1%	1.8%	3.7%	4.6%	2.0%	Feb-13

Annualized Performance (Net of Fees)

Market Value: \$5,506.2 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	1.2%	1.2%	7.2%	1.2%	-12.4%	-1.8%	3.3%	0.5%	0.2%	2.6%	2.8%	2.5%	Sep-05
HFRI Fund of Funds Composite Index	0.7%	1.3%	6.9%	0.7%	1.7%	3.0%	4.0%	1.9%	2.4%	3.7%	3.1%	2.6%	Sep-05
Elizabeth Park Capital Management	1.2%	1.9%	8.3%	1.2%	-11.5%	-0.7%	7.4%	6.0%	6.9%			6.4%	May-14
HFRX Event Driven Index	0.2%	1.4%	2.7%	0.2%	-4.5%	-4.4%	0.5%	0.0%	-1.5%	1.6%	1.7%	-1.4%	May-14
T - Archview Offshore Fund. LTD	0.0%	-8.4%	-7.7%	0.0%	-23.6%	-9.1%	-3.6%	-5.0%	-4.2%			-3.4%	Mar-14
HFRI ED: Distressed/Restructuring Index	0.0%	0.2%	4.7%	0.0%	-1.0%	2.6%	5.9%	3.8%	1.7%	4.8%	6.0%	2.1%	Mar-14
Real Assets Composite	0.0%	-0.3%	5.0%	0.0%	5.1%	4.9%	5.3%	3.5%	2.4%	-	-	6.2%	Dec-12
Real Assets Benchmark	0.0%	1.0%	6.5%	0.0%	6.5%	5.3%	4.6%	2.0%	-0.9%			2.7%	Dec-12
Real Assets - Public Real Estate Composite	1.6%	3.6%	21.1%	1.6%	14.1%	9.0%	5.1%	9.2%	9.8%	-	-	9.5%	Jan-13
FTSE NAREIT All Equity REIT Custom Benchmark	1.6%	3.6%	21.2%	1.6%	14.3%	9.1%	5.2%	9.2%	9.2%				Jan-13
Rhumbline FTSE NAREIT	1.6%	3.6%	21.1%	1.6%	14.1%	9.0%	5.1%	9.2%	9.2%			8.1%	May-13
FTSE NAREIT All Equity REIT Custom Benchmark	1.6%	3.6%	21.2%	1.6%	14.3%	9.1%	5.2%	9.2%	9.2%			8.1%	<i>May-</i> 13
Real Assets - Open-End Real Estate Composite	0.0%	-2.6%	-1.9%	0.0%	1.2%	4.1%					-	4.1%	Jan-17
NFI	0.0%	0.5%	2.0%	0.0%	4.8%	6.2%	6.4%	7.3%	8.6%	9.4%	9.2%	6.2%	Jan-17
UBS Trumbull Fund	0.0%	-3.9%	-3.4%	0.0%	-0.6%	3.0%						3.2%	Jan-17
NFI	0.0%	0.5%	2.0%	0.0%	4.8%	6.2%	6.4%	7.3%	8.6%	9.4%	9.2%	6.2%	Jan-17
Clarion Lion Properties Fund	0.0%	1.1%	2.9%	0.0%	7.0%							8.0%	Feb-18
NFI	0.0%	0.5%	2.0%	0.0%	4.8%	6.2%	6.4%	7.3%	8.6%	9.4%	9.2%	5.8%	Feb-18
Real Assets - Infrastructure Composite	-0.3%	3.5%	20.6%	-0.3%	11.2%	6.3%						8.6%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	-0.4%	2.1%	19.0%	-0.4%	9.1%	5.0%	6.7%	6.2%	4.4%	8.2%	11.3%	7.4%	Mar-17
Rhumbline Infrastructure Index	-0.4%	3.3%	20.6%	-0.4%	10.9%	6.3%	-	-		-	-	8.5%	Mar-17
Dow Jones Brookfield Global Infrastructure Index	-0.4%	2.1%	19.0%	-0.4%	9.1%	5.0%	6.7%	6.2%	4.4%	8.2%	11.3%	7.4%	Mar-17
Rreef Global Infrastructure	-0.3%	3.9%	21.2%	-0.3%	12.4%	-				-		13.9%	Mar-18
Dow Jones Brookfield Global Infrastructure Index	-0.4%	2.1%	19.0%	-0.4%	9.1%	5.0%	6.7%	6.2%	4.4%	8.2%	11.3%	11.6%	Mar-18



Annualized Performance (Net of Fees)

Market Value: \$5,506.2 Million and 100.0% of Fund

Ending July 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%	0.0%	1.3%	0.0%	4.3%	5.2%	6.6%	7.2%	7.5%	9.9%	7.9%	3.9%	May-06
Real Assets - Private Real Estate Benchmark	0.0%	0.0%	1.3%	0.0%	4.3%	5.2%	6.6%	7.2%	7.5%	9.9%			<i>May-</i> 06
Real Assets - Private Energy/Infrastructure Composite	0.0%	0.0%	7.0%	0.0%	18.3%	25.1%	16.9%	6.9%	-3.2%	8.5%		8.2%	May-12
Real Assets - Private Energy/Infrastructure Benchmark	0.0%	0.0%	7.0%	0.0%	18.3%	25.1%	16.9%	6.9%	-3.2%	8.5%		8.2%	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.

