

(Preliminary Subject to Change)



Employees Retirement System

City of Philadelphia
Employees Retirement System
Executive Summary
October 31, 2020

Total Fund Composite

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

		LII	uning October 3	*				
	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)		
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				
Garcia Hamilton & Associates	Int. Govt. Fixed Income	187,016,457	0	3.2				
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		
T - Apollo Franklin Partnership, L.P.	Opportunistic Fixed Income	7,202,071	0	0.1				
T - Avenue Coppers Opportunity Fund LP	Opportunistic Fixed Income	13,757,060	0	0.2				
T - KKR-PBPR Capital Partners LP	Opportunistic Fixed Income	20,779,602	-418,326	0.4				
MetLife Investment Management - EMD	EM Fixed Income	77,820,123	90,000	1.3				
Strategic Income Management	High Yield Fixed Income	54,385,743	0	0.9				
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	Large-Cap Core	1,356,712,688	0	23.5				
O'Shaughnessy Asset Management	Large-Cap Value	27,052,798	0	0.5				
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		1,040,785,425	0	18.0	23.0	-285,963,483		
Causeway Capital Management	Non-U.S. Large-Cap Core	68,100,127	0	1.2				
Northern Trust MSCI EAFE+Canada	Non-U.S. Large-Cap Core	768,603,773	0	13.3				
Northern Trust International Small Cap	Non-U.S. Small-Cap Core	103,261,584	0	1.8				
Strategic Global Advisors	Non-U.S. Small-Cap Core	31,348,191	0	0.5				
Mackenzie Investments	Non-U.S. Small-Cap Core	65,355,118	0	1.1				
Non-U.S. Equity Emerging Composite		237,628,883	0	4.1	3.0	64,574,678		
RhumbLine Emerging Markets Index	Emerging Markets	237,624,406	0	4.1				

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 (\$)
Cash Composite		198,256,194	-68,009,534	3.4	0.0	198,256,194
Cash	Cash & Equivalents	197,620,133	-68,007,089	3.4		
Directed Commissions	Cash & Equivalents	636,060	-2,445	0.0		
Absolute Return		20,453,119	0	0.4	0.0	20,453,119
Elizabeth Park Capital Management	Long/Short Hedge Fund	19,288,208	0	0.3		
T - Archview Offshore Fund. LTD	Credit Hedge Fund	1,164,910	0	0.0		
Real Assets Composite		886,852,374	-12,812,964	15.4	17.0	-93,788,124
Real Assets - Public Real Estate Composite		52,136,834	0	0.9	1.0	-5,547,901
RhumbLine FTSE NAREIT	Real Assets	52,136,834	0	0.9		
Real Assets - Open-End Real Estate Composite		514,190,665	-4,640,111	8.9	10.0	-62,656,686
UBS Trumbull Fund	Core Real Estate	372,612,866	-4,349,387	6.5		
Clarion Lion Properties Fund	Core Real Estate	141,577,799	-290,724	2.5		
Real Assets - Infrastructure Composite		254,992,832	0	4.4	5.0	-33,430,844
RhumbLine Infrastructure Index	Publicly-Traded Infrastructure	166,838,742	0	2.9		
Rreef Global Infrastructure	Global Infrastructure	88,154,091	0	1.5		
Real Assets - Private Real Estate Composite		65,532,042	-8,172,853	1.1	1.0	7,847,307
Private Assets Composite		577,394,283	13,753,276	10.0	12.0	-114,822,538
Private Assets - Private Equity	U.S. Private Equity FoF	534,788,172	13,765,316	9.3		
Private Assets - Private Debt	Mezz. Private Equity	42,606,111	-12,039	0.7		

Annualized Performance (Net of Fees)

Market Value: \$5,768.5 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	
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	

Annualized Performance (Net of Fees)

Market Value: \$5,768.5 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	0.8%	-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)

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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
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

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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	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%	<i>May-13</i>
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.

