



Quarterly Investment Performance Analysis

Oklahoma State Pension Commission

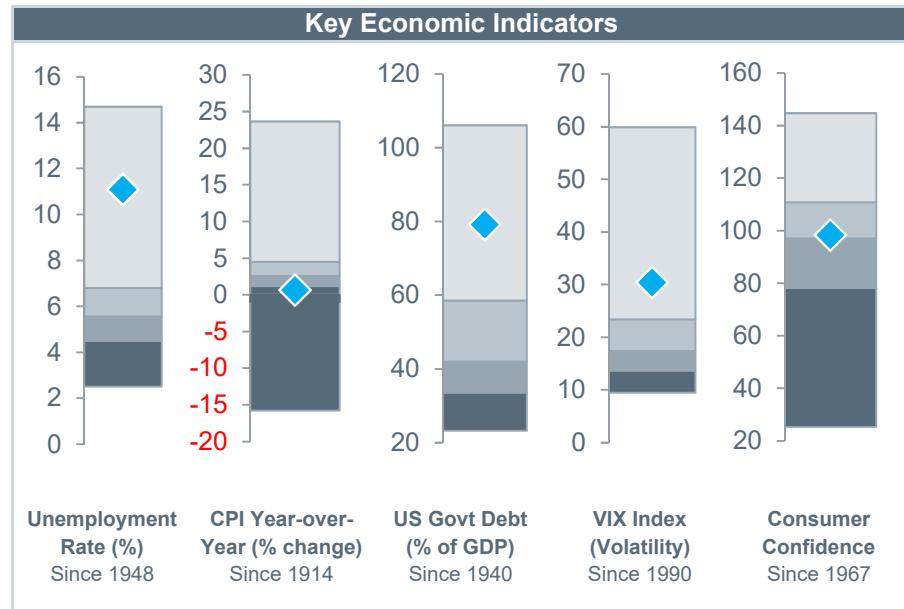
Period Ended: June 30, 2020

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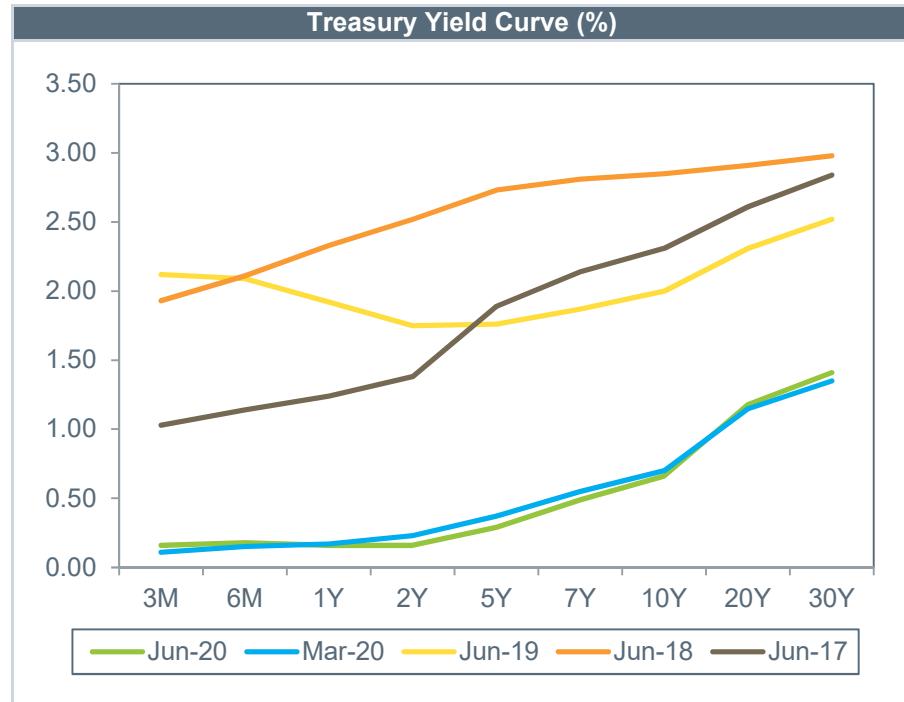
Capital Markets Metrics

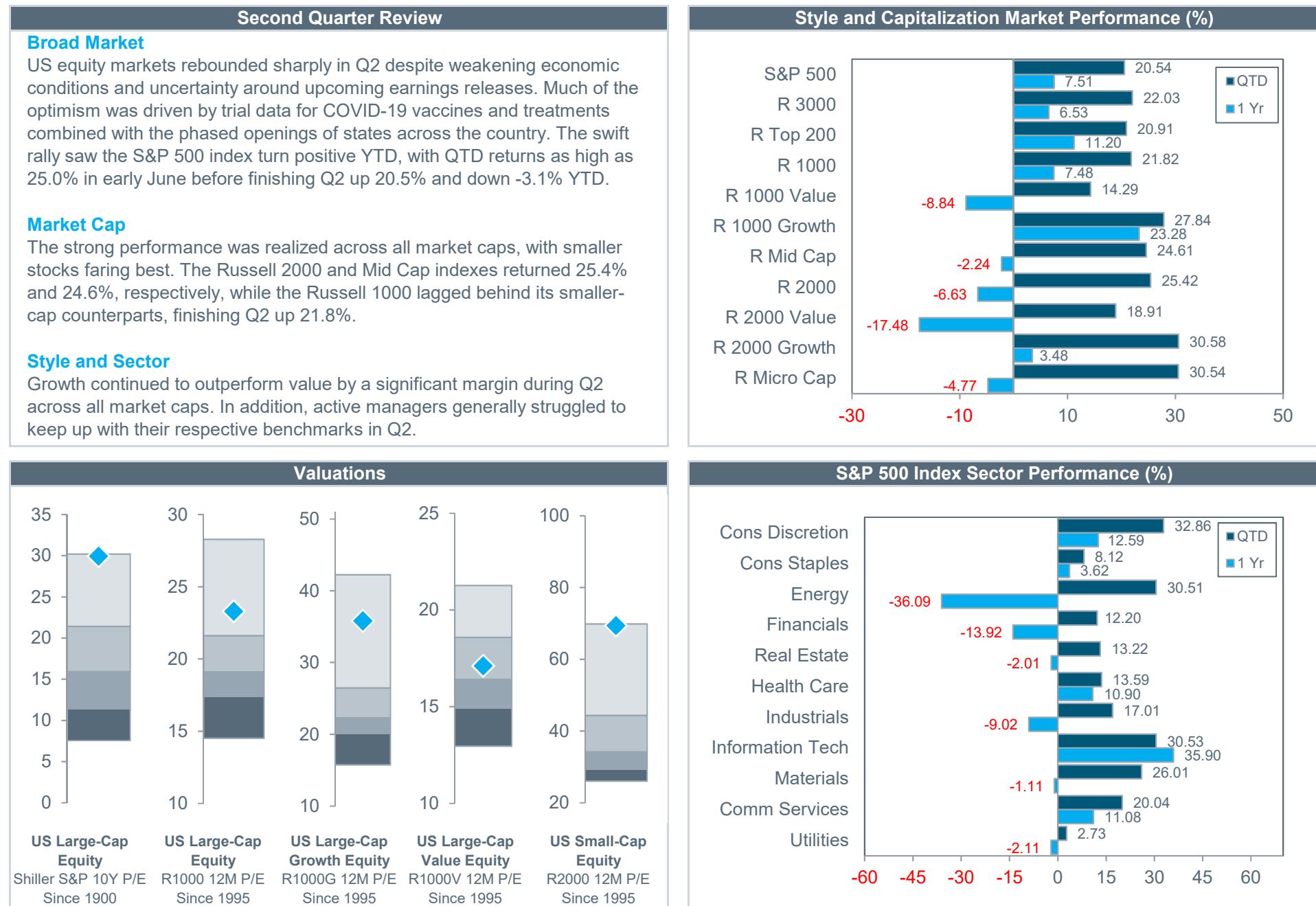
Second Quarter Economic Environment					
Key Economic Indicators					
<p>The disconnect between investor risk appetite and on-the-ground economic conditions reached staggering levels during the second quarter, fueled in large part by a myriad of fiscal relief and liquidity reinforcing programs implemented by governments and global central banks. The S&P 500 returned 20.5%, bringing its YTD returns to -3.1%, as forward P/E ratios reached levels last seen during the dot-com era tech bubble. In general, the funding pressures markets experienced in the first quarter abated, as various programs enacted by the Federal Reserve proved successful in restoring normal capital markets activity amid the unprecedented economic shutdowns. While economic data generally pointed to a bottoming of global GDP growth during the month of April, the modest economic recoveries in May and June lagged significantly behind the "V" shaped recovery seen in the pricing of risk assets. The Atlanta Fed's popular GDPNow estimates for Q2-2020 growth in the US indicated a 36.8% annualized economic contraction. However, Q2 saw capital markets activity much more consistent with boom times. The NASDAQ and DJIA experienced their best quarters since 2001 and 1987, respectively, while US equity issuance hit a record of \$184 billion.</p>					



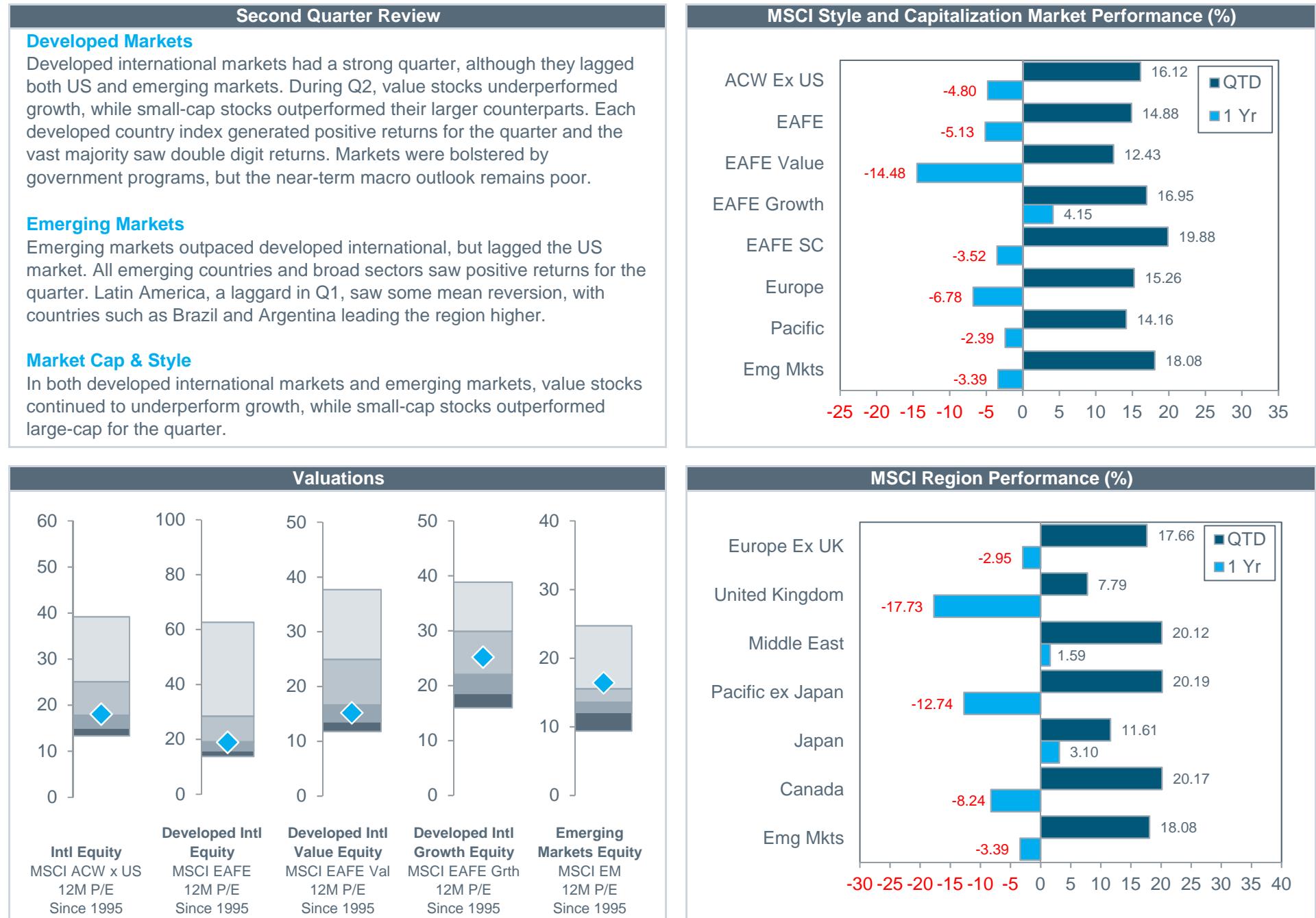
Economic Indicators	Jun-20	Mar-20	Jun-19	Jun-17	20 Yr	
Federal Funds Rate (%)	0.08	—	0.08	2.40	1.06	1.65
Breakeven Infl. - 5 Yr (%)	1.17	▲	0.53	1.54	1.66	1.82
Breakeven Infl. - 10 Yr (%)	1.34	▲	0.93	1.70	1.74	2.01
CPI YoY (Headline) (%)	0.6	▼	1.5	1.6	1.6	2.1
Unemployment Rate (%)	11.1	▲	4.4	3.7	4.3	6.0
Real GDP YoY (%)	-9.5	▼	0.3	2.0	2.2	1.9
PMI - Manufacturing	52.6	▲	49.1	51.6	56.4	52.5
USD Total Wtd Idx	120.86	▼	122.82	114.56	111.97	103.13
WTI Crude Oil per Barrel (\$)	39.3	▲	20.5	58.5	46.0	62.1
Gold Spot per Oz (\$)	1,781	▲	1,577	1,410	1,242	969

Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	20.54	-3.08	7.51	10.73	13.99
Russell 2000	25.42	-12.98	-6.63	4.29	10.50
MSCI EAFE (Net)	14.88	-11.34	-5.13	2.05	5.73
MSCI EAFE SC (Net)	19.88	-13.11	-3.52	3.81	8.02
MSCI Emg Mkts (Net)	18.08	-9.78	-3.39	2.86	3.27
Bloomberg US Agg Bond	2.90	6.14	8.74	4.30	3.82
ICE BofAML 3 Mo US T-Bill	0.02	0.60	1.63	1.19	0.64
NCREIF ODCE (Gross)	-1.56	-0.60	2.22	7.31	10.80
FTSE NAREIT Eq REIT (TR)	11.82	-18.71	-13.04	4.06	9.05
HFRX FOF Comp	7.89	-1.59	0.48	1.49	2.79
Bloomberg Cmdty (TR)	5.08	-19.40	-17.38	-7.69	-5.82





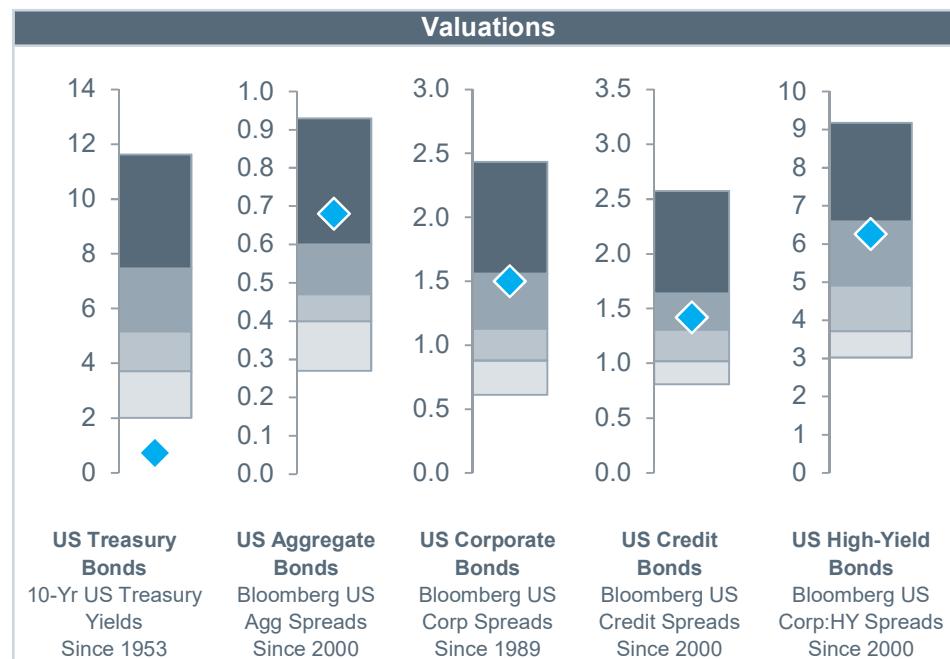
Valuation data courtesy of Bloomberg Professional Service and Robert J. Shiller, Irrational Exuberance, Second Edition.
 P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Valuation data courtesy of Bloomberg Professional Service.

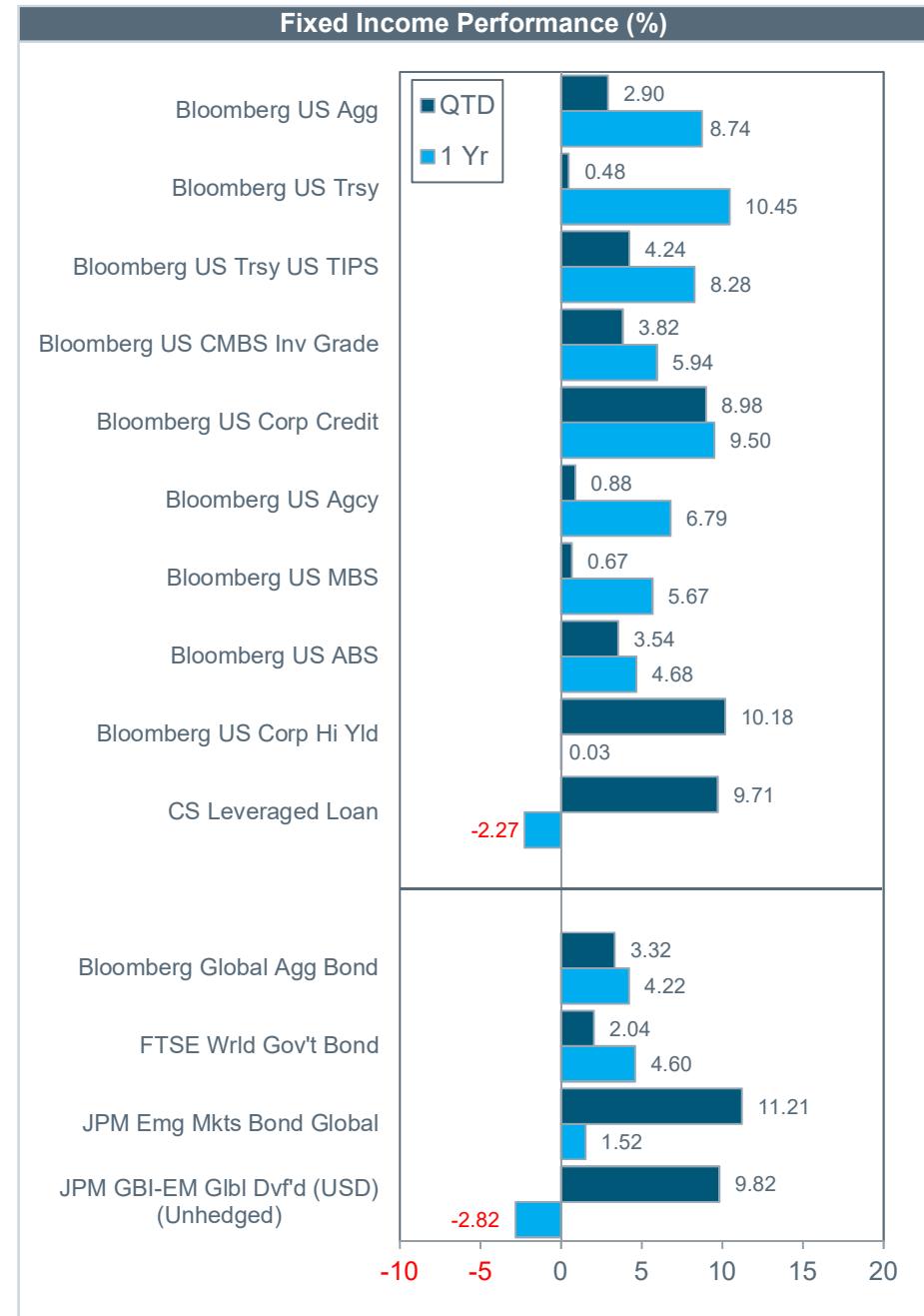
P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers.

All returns are shown net of foreign taxes on dividends.



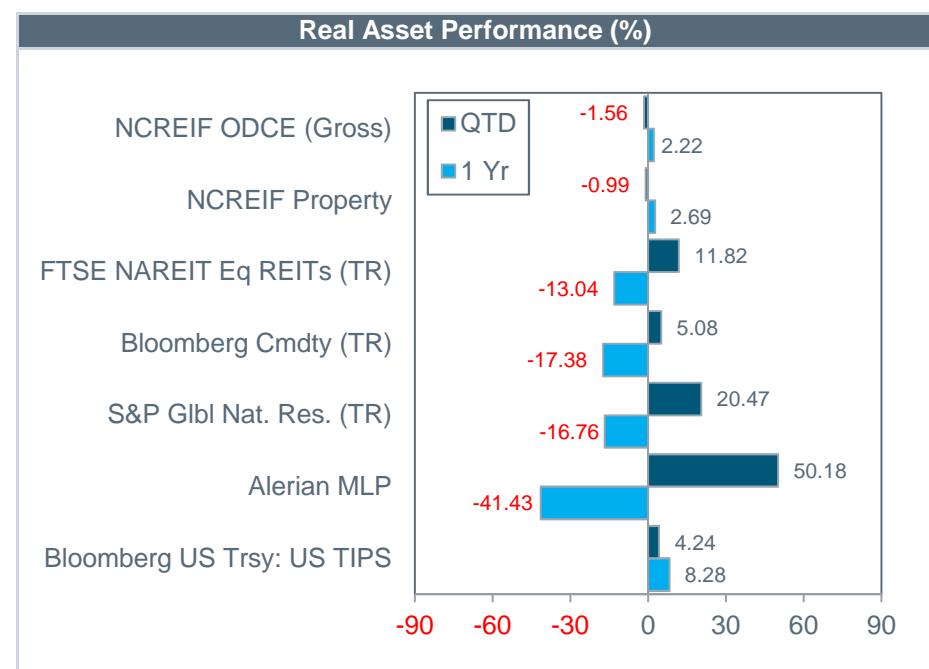
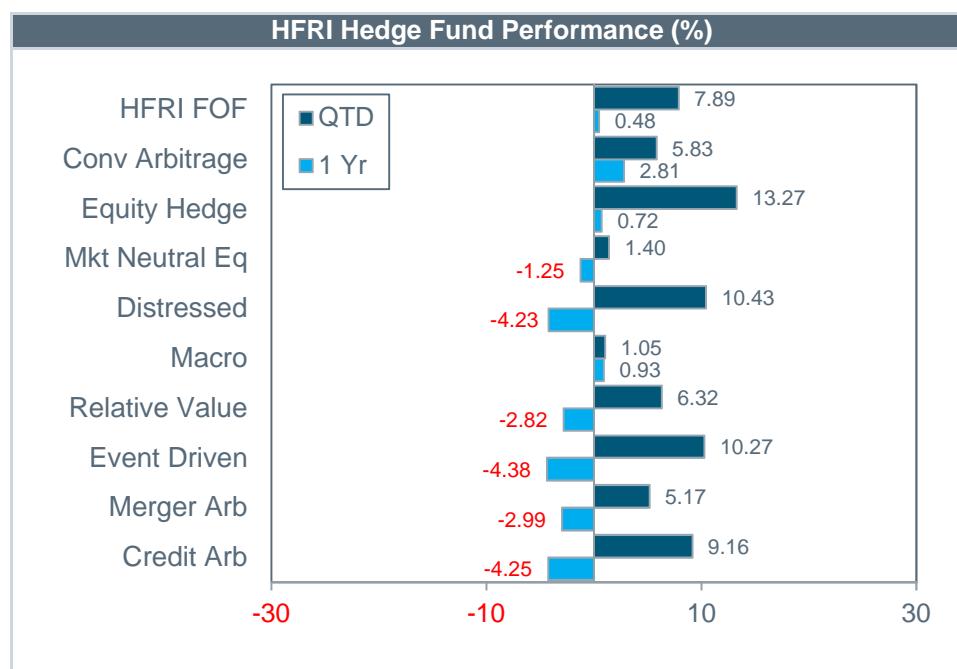
Valuation data courtesy of Bloomberg Professional Service.

Valuations shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Second Quarter Review - Absolute Return		
General Market - Hedge Funds		
<p>Broad hedge fund benchmarks indicate the industry recovered relatively well from Q1-2020 drawdowns. The HFRI Fund Weighted Composite Index is down just 3.5% YTD after a 9.0% gain in Q2, led higher by the HFRI Hedged Equity Index, which finished the quarter up 13.6%. Still, YTD the vast majority of hedge fund strategies remain at least marginally negative, with those that pursue event oriented and special situations strategies, particularly within credit markets, still off from 5.0% to 7.0% YTD on average.</p>		
General Market - Global Tactical Asset Allocation (GTAA)		
<p>GTAA managers largely provided positive absolute returns during Q2. Even with positive absolute returns, long-biased strategies reported mixed performance versus a static and less diversified blend of 60% US equity and 40% US fixed income. Long-biased strategies that had relatively weaker performance versus peers tended to have more exposure to EM equities which slightly underperformed US and other developed markets. Within EM equities, growth equities once again out-paced value by a significant margin, detracting from performance for managers.</p>		

Second Quarter Review - Real Assets		
General Market - Diversified Inflation Strategies (DIS)		
<p>Performance across DIS managers RVK tracks was largely positive during Q2, ranging from the high single digits to the high teens. With the relatively strong performance across a number of risk assets, managers with larger TIPS allocations tended to underperform peers as generally riskier assets saw a bounce back from poor Q1 performance. These strategies also tended to hold higher relative allocations to commodities. Though commodities provided positive absolute returns in Q2, the asset class did not keep up with other parts of the market.</p>		
General Market - Real Estate		
<p>Core private real estate returned -1.6% during the second quarter, as reported by the NFI-ODCE Index, with the total return comprised of 0.9% from income and -2.5% from price appreciation. While the income component remained relatively healthy and in-line with historical levels, price appreciation experienced a further meaningful decrease from Q1. Investors in publicly traded real estate outperformed their private market counterparts by a wide margin.</p>		



Annual Asset Class Performance

As of June 30, 2020

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD
Best ↑	35.03	39.38	8.44	78.51	27.94	22.49	20.00	38.82	30.14	15.02	21.31	37.28	8.35	31.49	12.82
	32.18	16.23	5.24	58.21	26.85	15.99	18.23	32.39	19.31	9.59	17.13	33.01	1.87	26.00	6.14
	26.34	15.97	2.06	46.78	22.04	13.56	18.06	29.30	13.69	3.20	11.96	25.03	0.01	25.53	6.01
	19.31	11.63	-2.35	31.78	18.88	8.29	17.32	22.78	12.50	1.38	11.77	21.83	-1.26	24.96	0.60
	18.37	11.17	-10.01	28.01	16.83	7.84	16.35	13.94	5.97	0.55	11.19	14.65	-2.08	22.01	-0.60
	16.32	10.25	-21.37	27.17	16.36	4.98	16.00	8.96	4.89	0.05	8.77	10.71	-4.02	19.59	-1.59
	15.79	6.97	-26.16	26.46	15.12	2.11	15.81	7.44	3.64	-0.27	8.52	7.77	-4.38	18.44	-3.08
	11.86	6.60	-33.79	18.91	15.06	0.10	10.94	2.47	3.37	-0.81	6.67	7.62	-4.62	14.32	-3.80
	10.39	5.49	-35.65	11.47	10.16	-4.18	8.78	0.07	2.45	-1.44	4.68	7.50	-4.68	8.72	-9.78
	4.85	5.00	-37.00	11.41	7.75	-5.72	6.98	-2.02	0.04	-3.30	2.65	5.23	-11.01	8.43	-11.34
	4.34	1.87	-37.74	5.93	6.54	-12.14	4.79	-2.60	-2.19	-4.41	2.18	3.54	-11.25	8.39	-12.98
	2.72	1.45	-43.38	1.92	6.31	-13.32	4.21	-8.61	-4.90	-4.47	1.00	3.01	-13.79	7.69	-13.11
	2.07	-1.57	-47.01	0.21	5.70	-15.94	0.11	-8.83	-4.95	-14.92	0.51	1.70	-14.58	5.34	-18.71
	0.49	-15.70	-53.33	-29.76	0.13	-18.42	-1.06	-9.52	-17.01	-24.66	0.33	0.86	-17.89	2.28	-19.40
S&P 500 - US Large Cap	R 2000 - US Small Cap	MSCI EAFE (Net) - Int'l Dev.	MSCI EAFE SC (Net) - Int'l SC	MSCI EM (Net) - Int'l Emg Mkts	Bloomberg US Agg Bond - FI	Bloomberg US Corp Hi Yield - FI	Bloomberg US Trsy US TIPS - FI	Bloomberg US Gov Credit Lng - FI	NCREIF ODCE (Gross) - Real Estate	FTSE NAREIT Eq REITs Index (TR)	HFRI FOF Comp Index - ARS	Bloomberg Cmdty (TR) - Commod.	ICE BofAML 3 Mo T-Bill - Cash Equiv		

NCREIF ODCE (Gross) performance is reported quarterly; performance is shown N/A in interim-quarter months.

Oklahoma State Pension Commission

Oklahoma State Pension Commission

As of June 30, 2020

All Plans Summary

Asset Allocation & Performance - Net of Fees

	Allocation					Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Oklahoma State Pension Commission	33,952,484,800	100.00												
OTRS (Teachers) Total Fund	16,897,902,887	49.77	12.49	-4.77	0.62	0.62	5.08	5.45	7.45	9.37	19.42	-5.33	15.82	11.28
OTRS Policy Index		15.80	-3.18	3.23	3.23	5.94	6.15	7.11	8.91	21.09	-5.12	14.05	10.61	
Difference		-3.31	-1.59	-2.61	-2.61	-0.86	-0.70	0.34	0.46	-1.67	-0.21	1.77	0.67	
OTRS Actual Allocation Index		14.94	-1.99	3.74	3.74	6.03	6.16	7.66	9.14	18.94	-4.70	14.35	10.93	
Difference		-2.45	-2.78	-3.12	-3.12	-0.95	-0.71	-0.21	0.23	0.48	-0.63	1.47	0.35	
Actuarial Discount Rate (7.5%)		1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference		10.67	-8.45	-6.88	-6.88	-2.42	-2.05	-0.05	1.87	11.92	-12.83	8.32	3.78	
OPERS (Public Employees) Total Fund	10,082,562,274	29.70	14.05	-2.09	4.58	4.58	6.25	6.27	7.43	8.64	21.18	-6.60	16.98	7.64
OPERS Policy Index		14.18	-2.06	4.72	4.72	6.50	6.55	7.46	8.57	21.46	-6.09	16.86	8.12	
Difference		-0.13	-0.03	-0.14	-0.14	-0.25	-0.28	-0.03	0.07	-0.28	-0.51	0.12	-0.48	
OPERS Actual Allocation Index		13.37	-2.56	4.07	4.07	5.98	6.23	7.24	8.28	20.87	-6.49	16.51	8.09	
Difference		0.68	0.47	0.51	0.51	0.27	0.04	0.19	0.36	0.31	-0.11	0.47	-0.45	
Actuarial Discount Rate (7.0%)		1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference		12.34	-5.53	-2.42	-2.42	-0.75	-0.73	0.43	1.64	14.18	-13.60	9.98	0.64	
OFPRS (Firefighters) Total Fund	2,904,632,636	8.55	12.52	-2.07	3.46	3.46	7.62	7.57	8.72	9.64	20.17	-2.39	18.70	7.32
OFPRS Policy Index		12.98	-3.11	3.92	3.92	6.92	7.41	8.48	9.83	21.76	-3.80	16.41	8.76	
Difference		-0.46	1.04	-0.46	-0.46	0.70	0.16	0.24	-0.19	-1.59	1.41	2.29	-1.44	
OFPRS Actual Allocation Index		12.92	-1.97	4.62	4.62	6.98	7.03	8.07	9.44	20.30	-3.93	15.64	9.45	
Difference		-0.40	-0.10	-1.16	-1.16	0.64	0.54	0.65	0.20	-0.13	1.54	3.06	-2.13	
Actuarial Discount Rate (7.5%)		1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference		10.70	-5.75	-4.04	-4.04	0.12	0.07	1.22	2.14	12.67	-9.89	11.20	-0.18	
OPPRS (Police) Total Fund	2,601,598,897	7.66	9.14	-3.01	2.23	2.23	4.93	5.01	6.16	7.37	15.37	-2.78	12.88	7.05
OPPRS Policy Index		12.02	-2.24	3.68	3.68	5.68	5.49	6.35	8.13	18.62	-5.34	15.45	7.07	
Difference		-2.88	-0.77	-1.45	-1.45	-0.75	-0.48	-0.19	-0.76	-3.25	2.56	-2.57	-0.02	
OPPRS Actual Allocation Index		12.02	-1.16	3.70	3.70	5.45	5.18	6.18	7.92	15.02	-3.70	13.78	6.66	
Difference		-2.88	-1.85	-1.47	-1.47	-0.52	-0.17	-0.02	-0.55	0.35	0.92	-0.90	0.39	
Actuarial Discount Rate (7.5%)		1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference		7.32	-6.69	-5.27	-5.27	-2.57	-2.49	-1.34	-0.13	7.87	-10.28	5.38	-0.45	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission

As of June 30, 2020

All Plans Summary

Asset Allocation & Performance - Net of Fees

	Allocation					Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
OLERS (Law Enforcement) Total Fund	997,043,603	2.94	11.29	-3.58	1.79	1.79	4.94	5.00	6.43	7.95	17.48	-4.74	14.53	7.07
OLERS Policy Index			12.63	-2.27	4.15	4.15	6.18	6.34	7.39	8.64	19.12	-3.67	13.36	8.64
Difference			-1.34	-1.31	-2.36	-2.36	-1.24	-1.34	-0.96	-0.69	-1.64	-1.07	1.17	-1.57
OLERS Actual Allocation Index			10.92	-1.80	4.35	4.35	6.09	6.25	7.20	8.45	17.33	-3.47	14.63	8.27
Difference			0.37	-1.78	-2.56	-2.56	-1.15	-1.25	-0.77	-0.50	0.15	-1.27	-0.10	-1.20
Actuarial Discount Rate (7.5%)			1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference			9.47	-7.26	-5.71	-5.71	-2.56	-2.50	-1.07	0.45	9.98	-12.24	7.03	-0.43
OURSJJ (Judges) Total Fund	350,348,363	1.03	13.69	-2.42	4.32	4.32	6.23	6.31	7.34	8.50	21.35	-6.45	16.83	8.05
OURSJJ Policy Index			14.18	-2.06	4.76	4.76	6.51	6.55	7.47	8.57	21.51	-6.09	16.86	8.12
Difference			-0.49	-0.36	-0.44	-0.44	-0.28	-0.24	-0.13	-0.07	-0.16	-0.36	-0.03	-0.07
OURSJJ Actual Allocation Index			13.43	-2.49	4.15	4.15	6.05	6.16	7.17	8.26	21.01	-6.52	16.63	7.90
Difference			0.26	0.07	0.17	0.17	0.18	0.15	0.17	0.24	0.34	0.07	0.20	0.15
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference			11.98	-5.86	-2.68	-2.68	-0.77	-0.69	0.34	1.50	14.35	-13.45	9.83	1.05
OWCRS (Wildlife) Total Fund	118,396,141	0.35	13.16	-0.24	5.58	5.58	6.83	6.35	7.25	7.98	19.24	-3.78	13.98	6.27
OWCRS Policy Index			12.37	-2.35	2.80	2.80	4.93	5.26	6.00	7.49	17.53	-4.95	12.96	7.34
Difference			0.79	2.11	2.78	2.78	1.90	1.09	1.25	0.49	1.71	1.17	1.02	-1.07
OWCRS Actual Allocation Index			12.44	-2.81	3.69	3.69	6.49	6.50	7.26	7.99	20.53	-3.71	14.38	8.04
Difference			0.72	2.57	1.89	1.89	0.34	-0.15	-0.01	-0.01	-1.29	-0.07	-0.40	-1.77
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference			11.45	-3.68	-1.42	-1.42	-0.17	-0.65	0.25	0.98	12.24	-10.78	6.98	-0.73

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission

As of June 30, 2020

All Plans Summary

Asset Allocation & Performance - Gross of Fees

	Allocation						Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	
Oklahoma State Pension Commission	33,952,484,800	100.00													
All Public Plans-Total Fund Median			12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	
OTRS (Teachers) Total Fund	16,897,902,887	49.77	12.54	-4.66	0.85	0.85	5.38	5.69	7.63	9.49	19.75	-5.03	16.16	11.39	
OTRS Policy Index			15.80	-3.18	3.23	3.23	5.94	6.15	7.11	8.91	21.09	-5.12	14.05	10.61	
Difference			-3.26	-1.48	-2.38	-2.38	-0.56	-0.46	0.52	0.58	-1.34	0.09	2.11	0.78	
OTRS Actual Allocation Index			14.94	-1.99	3.74	3.74	6.03	6.16	7.66	9.14	18.94	-4.70	14.35	10.93	
Difference			-2.40	-2.67	-2.89	-2.89	-0.65	-0.47	-0.03	0.35	0.81	-0.33	1.81	0.46	
Actuarial Discount Rate (7.5%)			1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	
Difference			10.72	-8.34	-6.65	-6.65	-2.12	-1.81	0.13	1.99	12.25	-12.53	8.66	3.89	
Rank			42	85	84	84	60	57	19	7	33	73	32	2	
OPERS (Public Employees) Total Fund	10,082,562,274	29.70	14.07	-2.06	4.71	4.71	6.36	6.36	7.49	8.71	21.34	-6.51	17.11	7.67	
OPERS Policy Index			14.18	-2.06	4.72	4.72	6.50	6.55	7.46	8.57	21.46	-6.09	16.86	8.12	
Difference			-0.11	0.00	-0.01	-0.01	-0.14	-0.19	0.03	0.14	-0.12	-0.42	0.25	-0.45	
OPERS Actual Allocation Index			13.37	-2.56	4.07	4.07	5.98	6.23	7.24	8.28	20.87	-6.49	16.51	8.09	
Difference			0.70	0.50	0.64	0.64	0.38	0.13	0.25	0.43	0.47	-0.02	0.60	-0.42	
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	
Difference			12.36	-5.50	-2.29	-2.29	-0.64	-0.64	0.49	1.71	14.34	-13.51	10.11	0.67	
Rank			20	38	24	24	29	27	23	26	12	93	16	42	
OFPRS (Firefighters) Total Fund	2,904,632,636	8.55	12.52	-2.07	3.46	3.46	7.62	7.57	8.73	9.65	20.17	-2.39	18.70	7.33	
OFPRS Policy Index			12.98	-3.11	3.92	3.92	6.92	7.41	8.48	9.83	21.76	-3.80	16.41	8.76	
Difference			-0.46	1.04	-0.46	-0.46	0.70	0.16	0.25	-0.18	-1.59	1.41	2.29	-1.43	
OFPRS Actual Allocation Index			12.92	-1.97	4.62	4.62	6.98	7.03	8.07	9.44	20.30	-3.93	15.64	9.45	
Difference			-0.40	-0.10	-1.16	-1.16	0.64	0.54	0.66	0.21	-0.13	1.54	3.06	-2.12	
Rank			43	39	45	45	5	3	2	4	28	18	6	53	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission

As of June 30, 2020

All Plans Summary

Asset Allocation & Performance - Gross of Fees

	Allocation						Performance (%)							
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
OPPRS (Police) Total Fund	2,601,598,897	7.66	9.15	-2.91	2.50	2.50	5.27	5.35	6.49	7.65	15.77	-2.45	13.22	7.45
OPPRS Policy Index		12.02	-2.24	3.68	3.68	3.68	5.68	5.49	6.35	8.13	18.62	-5.34	15.45	7.07
Difference		-2.87	-0.67	-1.18	-1.18	-0.41	-0.14	0.14	-0.48	-2.85	2.89	-2.23	0.38	
OPPRS Actual Allocation Index		12.02	-1.16	3.70	3.70	5.45	5.18	6.18	7.92	15.02	-3.70	13.78	6.66	
Difference		-2.87	-1.75	-1.20	-1.20	-0.18	0.17	0.31	-0.27	0.75	1.25	-0.56	0.79	
Actuarial Discount Rate (7.5%)		1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference		7.33	-6.59	-5.00	-5.00	-2.23	-2.15	-1.01	0.15	8.27	-9.95	5.72	-0.05	
Rank		82	54	59	59	63	72	64	64	83	19	77	49	
OLERS (Law Enforcement) Total Fund	997,043,603	2.94	11.29	-3.55	1.91	1.91	5.09	5.16	6.57	8.07	17.67	-4.56	14.65	7.24
OLERS Policy Index		12.63	-2.27	4.15	4.15	6.18	6.34	7.39	8.64	19.12	-3.67	13.36	8.64	
Difference		-1.34	-1.28	-2.24	-2.24	-1.09	-1.18	-0.82	-0.57	-1.45	-0.89	1.29	-1.40	
OLERS Actual Allocation Index		10.92	-1.80	4.35	4.35	6.09	6.25	7.20	8.45	17.33	-3.47	14.63	8.27	
Difference		0.37	-1.75	-2.44	-2.44	-1.00	-1.09	-0.63	-0.38	0.34	-1.09	0.02	-1.03	
Actuarial Discount Rate (7.5%)		1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference		9.47	-7.23	-5.59	-5.59	-2.41	-2.34	-0.93	0.57	10.17	-12.06	7.15	-0.26	
Rank		62	66	71	71	70	77	62	48	62	59	60	56	
OURSJJ (Judges) Total Fund	350,348,363	1.03	13.69	-2.42	4.34	4.34	6.28	6.35	7.38	8.54	21.39	-6.39	16.89	8.05
OURSJJ Policy Index		14.18	-2.06	4.76	4.76	6.51	6.55	7.47	8.57	21.51	-6.09	16.86	8.12	
Difference		-0.49	-0.36	-0.42	-0.42	-0.23	-0.20	-0.09	-0.03	-0.12	-0.30	0.03	-0.07	
OURSJJ Actual Allocation Index		13.43	-2.49	4.15	4.15	6.05	6.16	7.17	8.26	21.01	-6.52	16.63	7.90	
Difference		0.26	0.07	0.19	0.19	0.23	0.19	0.21	0.28	0.38	0.13	0.26	0.15	
Actuarial Discount Rate (7.0%)		1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference		11.98	-5.86	-2.66	-2.66	-0.72	-0.65	0.38	1.54	14.39	-13.39	9.89	1.05	
Rank		26	44	30	30	31	27	28	33	11	92	20	34	
OWCRS (Wildlife) Total Fund	118,396,141	0.35	13.22	-0.08	5.88	5.88	7.10	6.64	7.49	8.18	19.49	-3.52	14.27	6.59
OWCRS Policy Index		12.37	-2.35	2.80	2.80	4.93	5.26	6.00	7.49	17.53	-4.95	12.96	7.34	
Difference		0.85	2.27	3.08	3.08	2.17	1.38	1.49	0.69	1.96	1.43	1.31	-0.75	
OWCRS Actual Allocation Index		12.44	-2.81	3.69	3.69	6.49	6.50	7.26	7.99	20.53	-3.71	14.38	8.04	
Difference		0.78	2.73	2.19	2.19	0.61	0.14	0.23	0.19	-1.04	0.19	-0.11	-1.45	
Actuarial Discount Rate (7.0%)		1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference		11.51	-3.52	-1.12	-1.12	0.10	-0.36	0.49	1.18	12.49	-10.52	7.27	-0.41	
Rank		31	12	11	11	12	17	23	45	37	37	65	70	

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Oklahoma State Pension Commission
All Plans Summary
Asset Class Performance - Net of Fees

As of June 30, 2020

	Performance (%)											
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
US Equity												
OTRS US Equity	22.10	-10.62	-3.30	-3.30	5.56	6.61	9.36	12.02	29.14	-8.14	20.22	15.43
S&P 500 Index (Cap Wtd)	20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	31.49	-4.38	21.83	11.96
Difference	1.56	-7.54	-10.81	-10.81	-5.17	-4.12	-2.77	-1.97	-2.35	-3.76	-1.61	3.47
OPERS US Equity	23.00	-4.52	4.36	4.36	8.86	8.97	11.01	13.35	29.26	-6.44	21.21	12.82
OPERS US Equity Custom Index	22.27	-4.08	5.68	5.68	9.58	9.73	11.46	13.57	30.70	-5.54	20.81	13.21
Difference	0.73	-0.44	-1.32	-1.32	-0.72	-0.76	-0.45	-0.22	-1.44	-0.90	0.40	-0.39
OFPRS US Equity	24.46	-1.87	5.91	5.91	10.67	10.02	11.95	13.31	30.46	-4.57	22.68	10.97
Russell 3000 Index	22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	31.02	-5.24	21.13	12.74
Difference	2.43	1.61	-0.62	-0.62	0.63	-0.01	0.27	-0.41	-0.56	0.67	1.55	-1.77
OPPRS US Equity	24.57	-4.62	4.72	4.72	8.61	9.20	10.68	13.09	30.00	-5.57	18.65	15.43
S&P 500 Index (Cap Wtd)	20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	31.49	-4.38	21.83	11.96
Difference	4.03	-1.54	-2.79	-2.79	-2.12	-1.53	-1.45	-0.90	-1.49	-1.19	-3.18	3.47
OLERS US Equity	23.92	-7.41	1.69	1.69	7.15	7.67	10.26	12.88	32.84	-10.11	21.37	13.76
S&P 500 Index (Cap Wtd)	20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	31.49	-4.38	21.83	11.96
Difference	3.38	-4.33	-5.82	-5.82	-3.58	-3.06	-1.87	-1.11	1.35	-5.73	-0.46	1.80
OURSJJ US Equity	22.35	-4.96	4.59	4.59	9.06	9.40	11.22	13.40	30.50	-5.80	20.57	13.47
OURSJJ US Equity Custom Index	22.03	-3.48	6.54	6.54	10.04	9.75	N/A	N/A	31.02	-5.25	20.33	14.59
Difference	0.32	-1.48	-1.95	-1.95	-0.98	-0.35	N/A	N/A	-0.52	-0.55	0.24	-1.12
OWCRS US Equity	21.03	-2.23	6.13	6.13	9.93	9.48	11.62	13.21	28.92	-5.64	22.16	10.64
Russell 3000 Index	22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	31.02	-5.24	21.13	12.74
Difference	-1.00	1.25	-0.40	-0.40	-0.11	-0.55	-0.06	-0.51	-2.10	-0.40	1.03	-2.10

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Oklahoma State Pension Commission
All Plans Summary
Asset Class Performance - Net of Fees

As of June 30, 2020

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
International Equity												
OTRS International Equity	18.41	-10.96	-4.72	-4.72	0.63	2.21	4.20	6.06	21.07	-16.32	31.44	-1.19
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	2.29	0.04	0.08	0.08	-0.50	-0.05	0.49	1.09	-0.44	-2.12	4.25	-5.69
OPERS International Equity	16.77	-10.30	-3.31	-3.31	1.81	2.94	4.26	5.62	23.20	-13.79	27.26	3.87
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	0.65	0.70	1.49	1.49	0.68	0.68	0.55	0.65	1.69	0.41	0.07	-0.63
OFPRS International Equity	17.16	1.33	7.86	7.86	8.48	7.89	7.66	7.24	27.26	-13.22	35.99	1.44
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	1.04	12.33	12.66	12.66	7.35	5.63	3.95	2.27	5.75	0.98	8.80	-3.06
OPPRS International Equity	12.86	-12.35	-5.38	-5.38	0.27	2.18	3.47	4.46	20.91	-13.85	27.82	2.56
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	-3.26	-1.35	-0.58	-0.58	-0.86	-0.08	-0.24	-0.51	-0.60	0.35	0.63	-1.94
OLERS International Equity	17.61	-9.52	-1.44	-1.44	2.53	3.29	4.07	4.68	23.97	-14.43	30.46	1.37
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	1.49	1.48	3.36	3.36	1.40	1.03	0.36	-0.29	2.46	-0.23	3.27	-3.13
OURSJJ International Equity	16.25	-10.84	-4.58	-4.58	1.40	2.52	3.95	5.22	21.85	-13.97	27.47	4.80
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	0.13	0.16	0.22	0.22	0.27	0.26	0.24	0.25	0.34	0.23	0.28	0.30
OWCRS International Equity	18.56	-11.57	-4.52	-4.52	1.13	2.56	4.12	5.51	23.05	-13.82	29.05	4.22
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	2.44	-0.57	0.28	0.28	0.00	0.30	0.41	0.54	1.54	0.38	1.86	-0.28

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Oklahoma State Pension Commission
All Plans Summary
Asset Class Performance - Net of Fees

As of June 30, 2020

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Fixed Income												
OTRS Fixed Income	6.08	7.05	10.37	10.37	6.54	5.75	5.57	6.14	11.86	-1.50	6.46	7.72
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	3.18	0.91	1.63	1.63	1.22	1.45	1.61	2.32	3.14	-1.51	2.92	5.07
OPERS Fixed Income	3.45	8.60	11.64	11.64	6.61	5.19	4.77	4.78	10.11	-0.33	4.42	2.82
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.55	2.46	2.90	2.90	1.29	0.89	0.81	0.96	1.39	-0.34	0.88	0.17
OFPRS Fixed Income	2.19	-0.86	1.41	1.41	2.15	2.86	2.89	3.75	7.26	-1.78	7.24	3.19
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	-0.71	-7.00	-7.33	-7.33	-3.17	-1.44	-1.07	-0.07	-1.46	-1.79	3.70	0.54
OPPRS Fixed Income	6.64	2.77	4.78	4.78	4.10	4.04	3.77	4.54	8.81	-1.47	6.31	6.13
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	3.74	-3.37	-3.96	-3.96	-1.22	-0.26	-0.19	0.72	0.09	-1.48	2.77	3.48
OLERS Fixed Income	3.41	3.66	4.16	4.16	3.70	3.60	3.55	4.10	6.10	0.30	4.37	4.54
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.51	-2.48	-4.58	-4.58	-1.62	-0.70	-0.41	0.28	-2.62	0.29	0.83	1.89
OURSJJ Fixed Income	3.35	8.73	11.75	11.75	6.64	5.19	4.75	4.77	10.06	-0.31	4.37	2.78
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.45	2.59	3.01	3.01	1.32	0.89	0.79	0.95	1.34	-0.32	0.83	0.13
OWCRS Fixed Income	3.39	5.19	7.29	7.29	4.83	3.54	3.07	3.35	7.73	0.79	2.78	0.81
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.49	-0.95	-1.45	-1.45	-0.49	-0.76	-0.89	-0.47	-0.99	0.78	-0.76	-1.84

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Oklahoma State Pension Commission
All Plans Summary
Asset Class Performance - Net of Fees

As of June 30, 2020

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Real Estate												
OTRS Real Estate	-2.26	-1.56	-1.58	-1.58	4.73	6.98	8.31	N/A	5.56	7.45	6.50	9.55
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-0.51	-0.55	-2.91	-2.91	0.01	0.63	0.22	N/A	1.17	0.09	-0.16	1.76
OPERS Real Estate	-11.60	-10.16	-6.33	-6.33	-4.47	-0.87	N/A	N/A	2.89	-2.93	-2.13	9.00
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-9.85	-9.15	-7.66	-7.66	-9.19	-7.22	N/A	N/A	-1.50	-10.29	-8.79	1.21
OPPRS Real Estate	-0.99	0.70	2.91	2.91	6.21	7.81	9.13	9.06	4.89	9.38	8.02	9.41
NCREIF Property Index	-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	6.42	6.72	6.96	7.97
Difference	0.00	0.99	0.22	0.22	0.77	1.04	0.87	-0.64	-1.53	2.66	1.06	1.44
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	0.76	1.71	1.58	1.58	1.49	1.46	1.04	-0.72	0.50	2.02	1.36	1.62
OPPRS Real Estate	-2.88	-0.97	1.89	1.89	5.39	7.05	8.85	N/A	5.09	8.63	7.67	8.34
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-1.13	0.04	0.56	0.56	0.67	0.70	0.76	N/A	0.70	1.27	1.01	0.55
OLERS Real Estate	-2.00	-0.85	0.96	0.96	3.17	3.39	4.69	N/A	2.84	3.23	5.55	7.48
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-0.25	0.16	-0.37	-0.37	-1.55	-2.96	-3.40	N/A	-1.55	-4.13	-1.11	-0.31

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Oklahoma State Pension Commission
All Plans Summary
Asset Class Performance - Net of Fees

As of June 30, 2020

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Hedge Funds												
OFPRS Hedge Fund	-9.21	-9.86	-11.35	-11.35	-2.04	-0.36	0.51	2.18	3.52	-2.86	10.18	1.46
HFRI FOF: Cnsvt Index	5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	6.30	-0.87	4.12	1.89
Difference	-14.87	-7.92	-10.96	-10.96	-3.97	-1.85	-1.88	-0.39	-2.78	-1.99	6.06	-0.43
OPPRS Long/Short Equity	16.15	6.26	11.79	11.79	7.39	5.26	6.54	N/A	16.38	-4.94	11.59	2.08
HFRI FOF: Strategic Index	11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	10.52	-6.67	11.22	-0.05
Difference	5.12	8.40	11.27	11.27	5.33	3.82	3.59	N/A	5.86	1.73	0.37	2.13
OPPRS Absolute Return	2.33	-2.08	-1.01	-1.01	1.41	0.18	1.74	N/A	4.10	1.07	2.98	0.04
HFRI FOF: Cnsvt Index	5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	6.30	-0.87	4.12	1.89
Difference	-3.33	-0.14	-0.62	-0.62	-0.52	-1.31	-0.65	N/A	-2.20	1.94	-1.14	-1.85
OLERS Long/Short Equity	6.33	-3.65	-0.35	-0.35	2.40	2.15	4.27	N/A	12.36	-5.53	11.66	1.05
HFRI FOF: Strategic Index	11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	10.52	-6.67	11.22	-0.05
Difference	-4.70	-1.51	-0.87	-0.87	0.34	0.71	1.32	N/A	1.84	1.14	0.44	1.10

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
All Plans Summary
Asset Class Performance - Net of Fees

As of June 30, 2020

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Private Equity												
OTRS Private Equity	-3.35	-2.18	6.28	6.28	12.54	12.43	14.31	N/A	15.04	21.04	13.19	13.66
R 2000 Index+4%	26.65	-11.25	-2.89	-2.89	6.09	8.46	11.46	14.92	30.55	-7.45	19.23	26.16
Difference	-30.00	9.07	9.17	9.17	6.45	3.97	2.85	N/A	-15.51	28.49	-6.04	-12.50
OFPRS Private Equity	-5.19	-2.04	3.17	3.17	10.82	9.84	N/A	N/A	6.41	19.34	19.06	3.07
Cambridge US Prvt Eq Index	0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	13.89	10.15	17.99	13.33
Difference	-5.19	8.03	8.68	8.68	3.56	1.47	N/A	N/A	-7.48	9.19	1.07	-10.26
OPPRS Private Equity	-5.55	-3.57	2.27	2.27	9.52	7.76	9.86	10.42	11.35	14.99	9.51	5.32
Cambridge US Prvt Eq Index	0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	13.89	10.15	17.99	13.33
Difference	-5.55	6.50	7.78	7.78	2.26	-0.61	-0.53	-1.64	-2.54	4.84	-8.48	-8.01
OLERS Private Equity	-4.12	-2.84	4.50	4.50	8.78	6.21	8.98	N/A	6.95	15.92	7.59	2.46
Cambridge US Prvt Eq Index	0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	13.89	10.15	17.99	13.33
Difference	-4.12	7.23	10.01	10.01	1.52	-2.16	-1.41	N/A	-6.94	5.77	-10.40	-10.87
Other Alternatives												
OWCRS Alternative Investments	10.44	-5.29	-0.64	-0.64	2.48	3.08	2.50	N/A	15.27	-5.85	9.20	11.03
OWCRS Alternatives Custom Index	7.89	-1.59	0.48	0.48	2.24	1.40	N/A	N/A	8.38	-4.02	7.06	3.07
Difference	2.55	-3.70	-1.12	-1.12	0.24	1.68	N/A	N/A	6.89	-1.83	2.14	7.96

Performance shown is net of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission

As of June 30, 2020

All Plans Summary

Asset Class Performance - Gross of Fees

	QTD	CYTD	FYTD	Performance (%)								2019	2018	2017	2016
				1 Year	3 Years	5 Years	7 Years	10 Years							
US Equity															
OTRS US Equity	22.16	-10.53	-3.07	-3.07	5.89	6.86	9.55	12.16	29.52	-7.82	20.62	15.57			
S&P 500 Index (Cap Wtd)	20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	31.49	-4.38	21.83	11.96			
Difference	1.62	-7.45	-10.58	-10.58	-4.84	-3.87	-2.58	-1.83	-1.97	-3.44	-1.21	3.61			
OPERS US Equity	23.01	-4.50	4.55	4.55	8.98	9.09	11.12	13.45	29.50	-6.38	21.32	12.86			
OPERS US Equity Custom Index	22.27	-4.08	5.68	5.68	9.58	9.73	11.46	13.57	30.70	-5.54	20.81	13.21			
Difference	0.74	-0.42	-1.13	-1.13	-0.60	-0.64	-0.34	-0.12	-1.20	-0.84	0.51	-0.35			
OFPRS US Equity	24.46	-1.87	5.92	5.92	10.69	10.03	11.96	13.32	30.49	-4.56	22.70	10.98			
Russell 3000 Index	22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	31.02	-5.24	21.13	12.74			
Difference	2.43	1.61	-0.61	-0.61	0.65	0.00	0.28	-0.40	-0.53	0.68	1.57	-1.76			
OPPRS US Equity	24.53	-4.57	4.82	4.82	8.82	9.43	10.91	13.29	30.20	-5.35	18.93	15.68			
S&P 500 Index (Cap Wtd)	20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	31.49	-4.38	21.83	11.96			
Difference	3.99	-1.49	-2.69	-2.69	-1.91	-1.30	-1.22	-0.70	-1.29	-0.97	-2.90	3.72			
OLERS US Equity	23.92	-7.41	1.69	1.69	7.16	7.67	10.26	12.88	32.84	-10.10	21.37	13.76			
S&P 500 Index (Cap Wtd)	20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	31.49	-4.38	21.83	11.96			
Difference	3.38	-4.33	-5.82	-5.82	-3.57	-3.06	-1.87	-1.11	1.35	-5.72	-0.46	1.80			
OURSJJ US Equity	22.35	-4.96	4.59	4.59	9.06	9.41	11.23	13.41	30.51	-5.79	20.58	13.47			
OURSJJ US Equity Custom Index	22.03	-3.48	6.54	6.54	10.04	9.75	N/A	N/A	31.02	-5.25	20.33	14.59			
Difference	0.32	-1.48	-1.95	-1.95	-0.98	-0.34	N/A	N/A	-0.51	-0.54	0.25	-1.12			
OWCRS US Equity	21.05	-2.06	6.44	6.44	10.21	9.76	11.86	13.41	29.17	-5.38	22.45	10.96			
Russell 3000 Index	22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	31.02	-5.24	21.13	12.74			
Difference	-0.98	1.42	-0.09	-0.09	0.17	-0.27	0.18	-0.31	-1.85	-0.14	1.32	-1.78			

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
	Performance (%)											
International Equity												
OTRS International Equity	18.52	-10.73	-4.27	-4.27	1.11	2.58	4.47	6.25	21.59	-15.88	32.02	-1.06
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	2.40	0.27	0.53	0.53	-0.02	0.32	0.76	1.28	0.08	-1.68	4.83	-5.56
OPERS International Equity	16.79	-10.25	-3.22	-3.22	1.93	3.08	4.40	5.77	23.34	-13.70	27.47	4.01
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	0.67	0.75	1.58	1.58	0.80	0.82	0.69	0.80	1.83	0.50	0.28	-0.49
OFPRS International Equity	17.16	1.33	7.86	7.86	8.48	7.89	7.68	7.25	27.26	-13.22	35.99	1.44
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	1.04	12.33	12.66	12.66	7.35	5.63	3.97	2.28	5.75	0.98	8.80	-3.06
OPPRS International Equity	12.90	-12.26	-5.13	-5.13	0.52	2.48	3.81	4.82	21.27	-13.65	28.12	3.02
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	-3.22	-1.26	-0.33	-0.33	-0.61	0.22	0.10	-0.15	-0.24	0.55	0.93	-1.48
OLERS International Equity	17.61	-9.44	-1.16	-1.16	2.94	3.74	4.51	5.10	24.39	-14.03	31.03	1.84
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	1.49	1.56	3.64	3.64	1.81	1.48	0.80	0.13	2.88	0.17	3.84	-2.66
OURSJJ International Equity	16.25	-10.84	-4.58	-4.58	1.42	2.55	3.99	5.26	21.85	-13.93	27.51	4.86
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	0.13	0.16	0.22	0.22	0.29	0.29	0.28	0.29	0.34	0.27	0.32	0.36
OWCRS International Equity	18.70	-11.33	-3.93	-3.93	1.85	3.34	4.72	5.93	23.86	-13.14	30.11	5.09
MSCI ACW Ex US Index (USD) (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	21.51	-14.20	27.19	4.50
Difference	2.58	-0.33	0.87	0.87	0.72	1.08	1.01	0.96	2.35	1.06	2.92	0.59

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	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Fixed Income												
OTRS Fixed Income	6.13	7.15	10.59	10.59	6.75	5.91	5.68	6.22	12.06	-1.29	6.69	7.77
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	3.23	1.01	1.85	1.85	1.43	1.61	1.72	2.40	3.34	-1.30	3.15	5.12
OPERS Fixed Income	3.48	8.64	11.75	11.75	6.70	5.28	4.86	4.85	10.20	-0.23	4.51	2.91
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.58	2.50	3.01	3.01	1.38	0.98	0.90	1.03	1.48	-0.24	0.97	0.26
OFPRS Fixed Income	2.19	-0.86	1.41	1.41	2.15	2.87	2.90	3.76	7.26	-1.78	7.26	3.20
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	-0.71	-7.00	-7.33	-7.33	-3.17	-1.43	-1.06	-0.06	-1.46	-1.79	3.72	0.55
OPPRS Fixed Income	6.62	2.81	4.97	4.97	4.37	4.34	4.05	4.75	9.12	-1.15	6.59	6.49
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	3.72	-3.33	-3.77	-3.77	-0.95	0.04	0.09	0.93	0.40	-1.16	3.05	3.84
OLERS Fixed Income	3.41	3.69	4.26	4.26	3.80	3.66	3.59	4.13	6.25	0.41	4.38	4.54
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.51	-2.45	-4.48	-4.48	-1.52	-0.64	-0.37	0.31	-2.47	0.40	0.84	1.89
OURSJJ Fixed Income	3.35	8.75	11.81	11.81	6.72	5.26	4.83	4.86	10.15	-0.22	4.45	2.82
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.45	2.61	3.07	3.07	1.40	0.96	0.87	1.04	1.43	-0.23	0.91	0.17
OWCRS Fixed Income	3.43	5.23	7.44	7.44	4.98	3.72	3.26	3.51	7.90	0.94	2.99	1.01
Bloomberg US Agg Bond Index	2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	8.72	0.01	3.54	2.65
Difference	0.53	-0.91	-1.30	-1.30	-0.34	-0.58	-0.70	-0.31	-0.82	0.93	-0.55	-1.64

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	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Real Estate												
OTRS Real Estate	-2.25	-1.48	-1.43	-1.43	4.99	7.22	8.48	N/A	5.83	7.70	6.72	9.83
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-0.50	-0.47	-2.76	-2.76	0.27	0.87	0.39	N/A	1.44	0.34	0.06	2.04
OPERS Real Estate	-11.60	-10.16	-6.33	-6.33	-4.47	-0.87	N/A	N/A	2.89	-2.93	-2.13	9.00
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-9.85	-9.15	-7.66	-7.66	-9.19	-7.22	N/A	N/A	-1.50	-10.29	-8.79	1.21
OFPRS Real Estate	-0.99	0.70	2.91	2.91	6.21	7.81	9.13	9.06	4.89	9.38	8.02	9.41
NCREIF Property Index	-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	6.42	6.72	6.96	7.97
Difference	0.00	0.99	0.22	0.22	0.77	1.04	0.87	-0.64	-1.53	2.66	1.06	1.44
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	0.76	1.71	1.58	1.58	1.49	1.46	1.04	-0.72	0.50	2.02	1.36	1.62
OPPRS Real Estate	-2.79	-0.56	2.66	2.66	6.18	7.80	9.65	N/A	5.85	9.54	8.33	8.99
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-1.04	0.45	1.33	1.33	1.46	1.45	1.56	N/A	1.46	2.18	1.67	1.20
OLERS Real Estate	-2.00	-0.69	1.52	1.52	3.79	4.06	5.41	N/A	3.65	4.03	6.05	8.30
NCREIF ODCE Index (AWA) (Net)	-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.39	7.36	6.66	7.79
Difference	-0.25	0.32	0.19	0.19	-0.93	-2.29	-2.68	N/A	-0.74	-3.33	-0.61	0.51

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Oklahoma State Pension Commission

All Plans Summary

Asset Class Performance - Gross of Fees

As of June 30, 2020

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Hedge Funds												
OPPRS Hedge Fund	-9.21	-9.86	-11.35	-11.35	-2.04	-0.36	0.51	2.18	3.52	-2.86	10.18	1.46
HFRI FOF: Cnsvt Index	5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	6.30	-0.87	4.12	1.89
Difference	-14.87	-7.92	-10.96	-10.96	-3.97	-1.85	-1.88	-0.39	-2.78	-1.99	6.06	-0.43
OPPRS Long/Short Equity	16.15	6.26	12.04	12.04	7.77	5.63	6.88	N/A	16.84	-4.52	12.05	2.42
HFRI FOF: Strategic Index	11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	10.52	-6.67	11.22	-0.05
Difference	5.12	8.40	11.52	11.52	5.71	4.19	3.93	N/A	6.32	2.15	0.83	2.47
OPPRS Absolute Return	2.33	-1.93	-0.55	-0.55	2.02	0.87	2.38	N/A	4.74	1.77	3.68	0.89
HFRI FOF: Cnsvt Index	5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	6.30	-0.87	4.12	1.89
Difference	-3.33	0.01	-0.16	-0.16	0.09	-0.62	-0.01	N/A	-1.56	2.64	-0.44	-1.00
OLERS Long/Short Equity	6.33	-3.65	-0.35	-0.35	2.40	2.15	4.27	N/A	12.36	-5.53	11.66	1.05
HFRI FOF: Strategic Index	11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	10.52	-6.67	11.22	-0.05
Difference	-4.70	-1.51	-0.87	-0.87	0.34	0.71	1.32	N/A	1.84	1.14	0.44	1.10

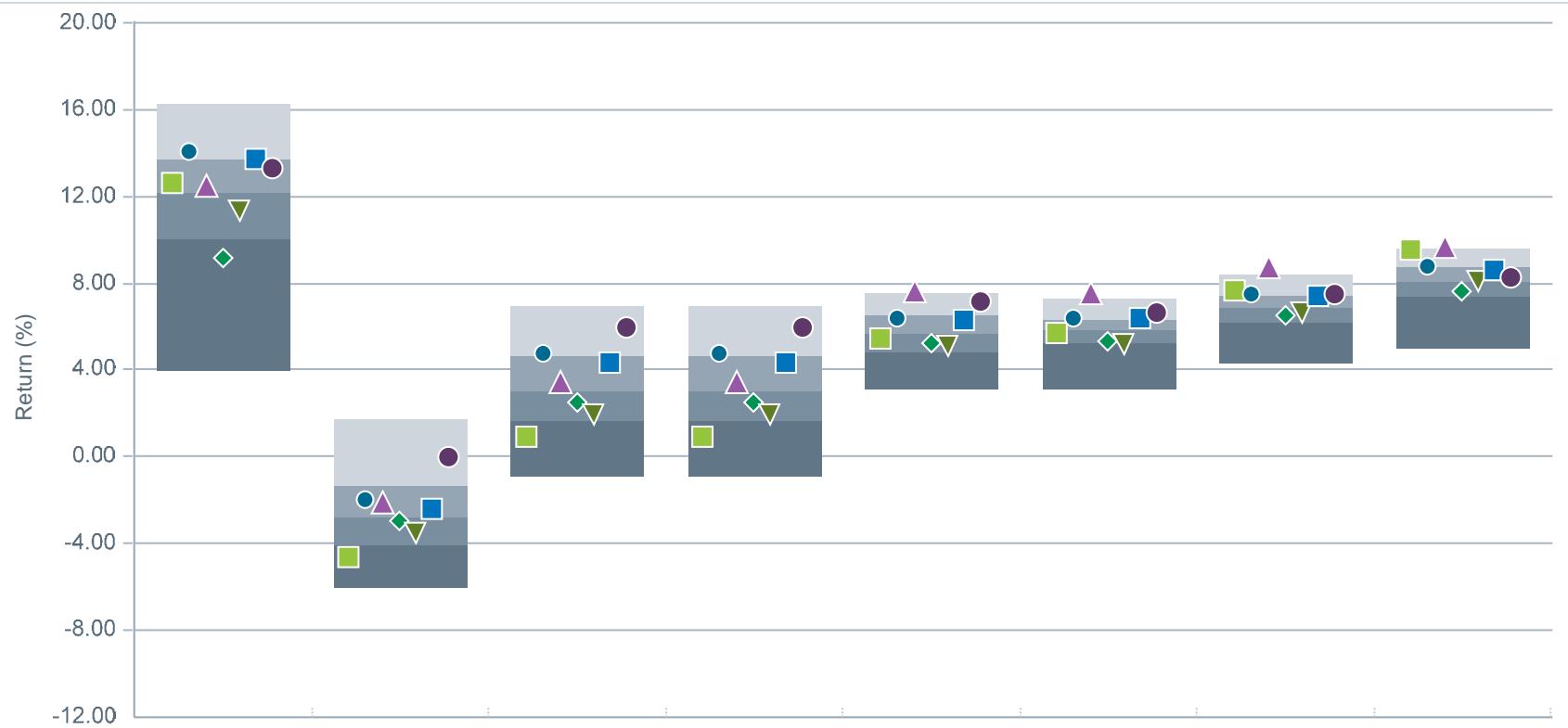
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	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016
Private Equity												
OTRS Private Equity	-3.35	-2.18	6.28	6.28	12.54	12.43	14.31	N/A	15.04	21.04	13.19	13.66
R 2000 Index+4%	26.65	-11.25	-2.89	-2.89	6.09	8.46	11.46	14.92	30.55	-7.45	19.23	26.16
Difference	-30.00	9.07	9.17	9.17	6.45	3.97	2.85	N/A	-15.51	28.49	-6.04	-12.50
OFPRS Private Equity	-5.19	-2.04	3.17	3.17	10.82	9.84	N/A	N/A	6.41	19.34	19.06	3.07
Cambridge US Prvt Eq Index	0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	13.89	10.15	17.99	13.33
Difference	-5.19	8.03	8.68	8.68	3.56	1.47	N/A	N/A	-7.48	9.19	1.07	-10.26
OPPRS Private Equity	-5.43	-3.44	2.41	2.41	9.57	7.81	9.92	10.56	11.35	14.99	9.51	5.34
Cambridge US Prvt Eq Index	0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	13.89	10.15	17.99	13.33
Difference	-5.43	6.63	7.92	7.92	2.31	-0.56	-0.47	-1.50	-2.54	4.84	-8.48	-7.99
OLERS Private Equity	-4.12	-2.84	4.50	4.50	8.78	6.21	8.98	N/A	6.95	15.92	7.59	2.46
Cambridge US Prvt Eq Index	0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	13.89	10.15	17.99	13.33
Difference	-4.12	7.23	10.01	10.01	1.52	-2.16	-1.41	N/A	-6.94	5.77	-10.40	-10.87
Other Alternatives												
OWCRS Alternative Investments	10.64	-4.95	0.07	0.07	3.25	3.90	3.08	N/A	16.09	-5.10	10.08	11.99
OWCRS Alternatives Custom Index	7.89	-1.59	0.48	0.48	2.24	1.40	N/A	N/A	8.38	-4.02	7.06	3.07
Difference	2.75	-3.36	-0.41	-0.41	1.01	2.50	N/A	N/A	7.71	-1.08	3.02	8.92

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
All Public Plans-Total Fund
Plan Sponsor Peer Group Analysis

As of June 30, 2020

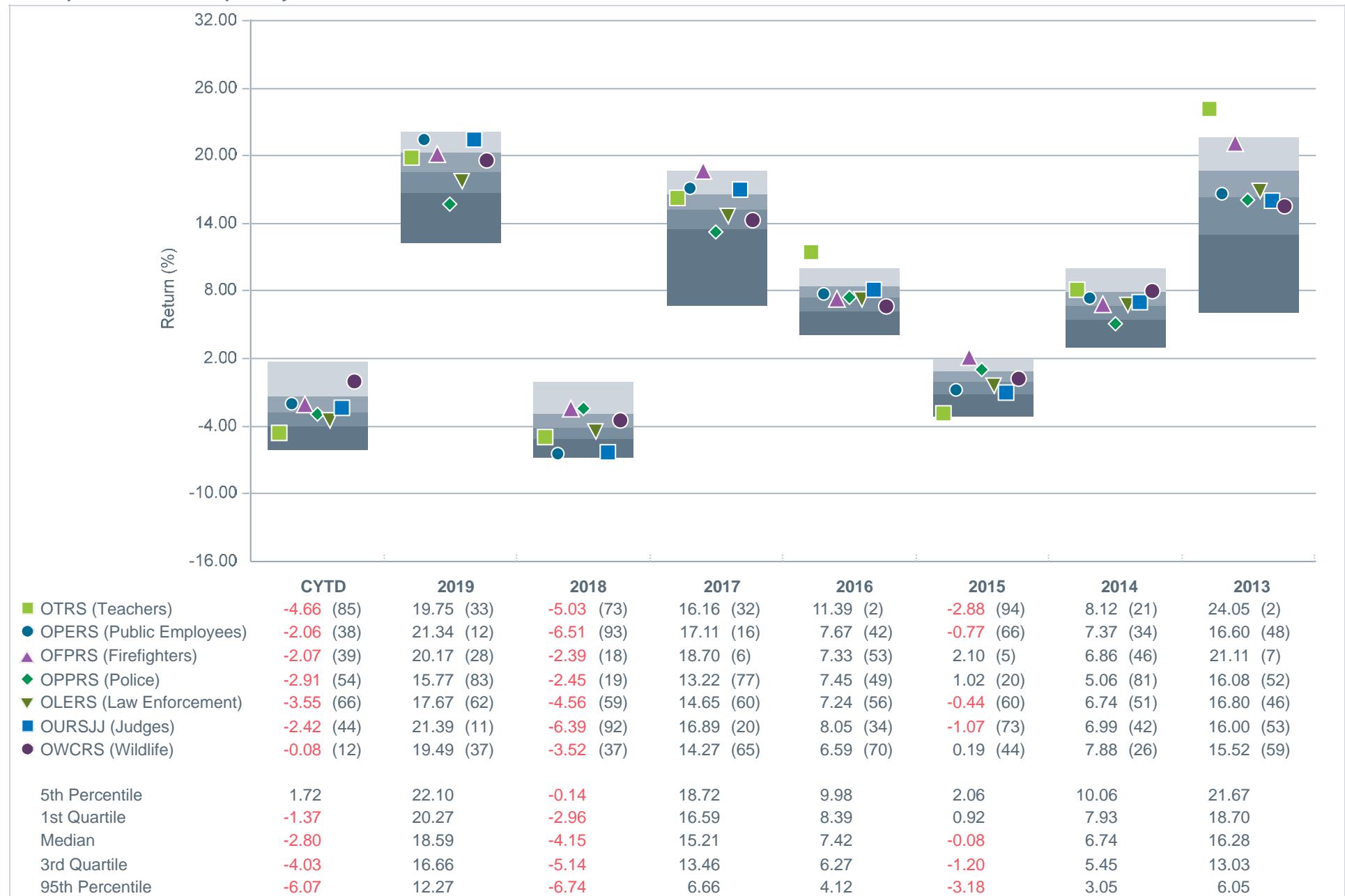


	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years
■ OTRS (Teachers)	12.54 (42)	-4.66 (85)	0.85 (84)	0.85 (84)	5.38 (60)	5.69 (57)	7.63 (19)	9.49 (7)
● OPERS (Public Employees)	14.07 (20)	-2.06 (38)	4.71 (24)	4.71 (24)	6.36 (29)	6.36 (27)	7.49 (23)	8.71 (26)
▲ OFPRS (Firefighters)	12.52 (43)	-2.07 (39)	3.46 (45)	3.46 (45)	7.62 (5)	7.57 (3)	8.73 (2)	9.65 (4)
◆ OPPRS (Police)	9.15 (82)	-2.91 (54)	2.50 (59)	2.50 (59)	5.27 (63)	5.35 (72)	6.49 (64)	7.65 (64)
▼ OLERS (Law Enforcement)	11.29 (62)	-3.55 (66)	1.91 (71)	1.91 (71)	5.09 (70)	5.16 (77)	6.57 (62)	8.07 (48)
■ OURSJJ (Judges)	13.69 (26)	-2.42 (44)	4.34 (30)	4.34 (30)	6.28 (31)	6.35 (27)	7.38 (28)	8.54 (33)
● OWCRS (Wildlife)	13.22 (31)	-0.08 (12)	5.88 (11)	5.88 (11)	7.10 (12)	6.64 (17)	7.49 (23)	8.18 (45)
5th Percentile	16.24	1.72	6.92	6.92	7.58	7.27	8.39	9.57
1st Quartile	13.69	-1.37	4.60	4.60	6.52	6.39	7.45	8.75
Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03
3rd Quartile	10.05	-4.03	1.63	1.63	4.84	5.22	6.14	7.36
95th Percentile	3.97	-6.07	-0.88	-0.88	3.12	3.11	4.27	4.96

Performance shown is gross of fees. Parentheses contain percentile ranks. Oklahoma State Pension Commission fiscal year begins on 07/01.

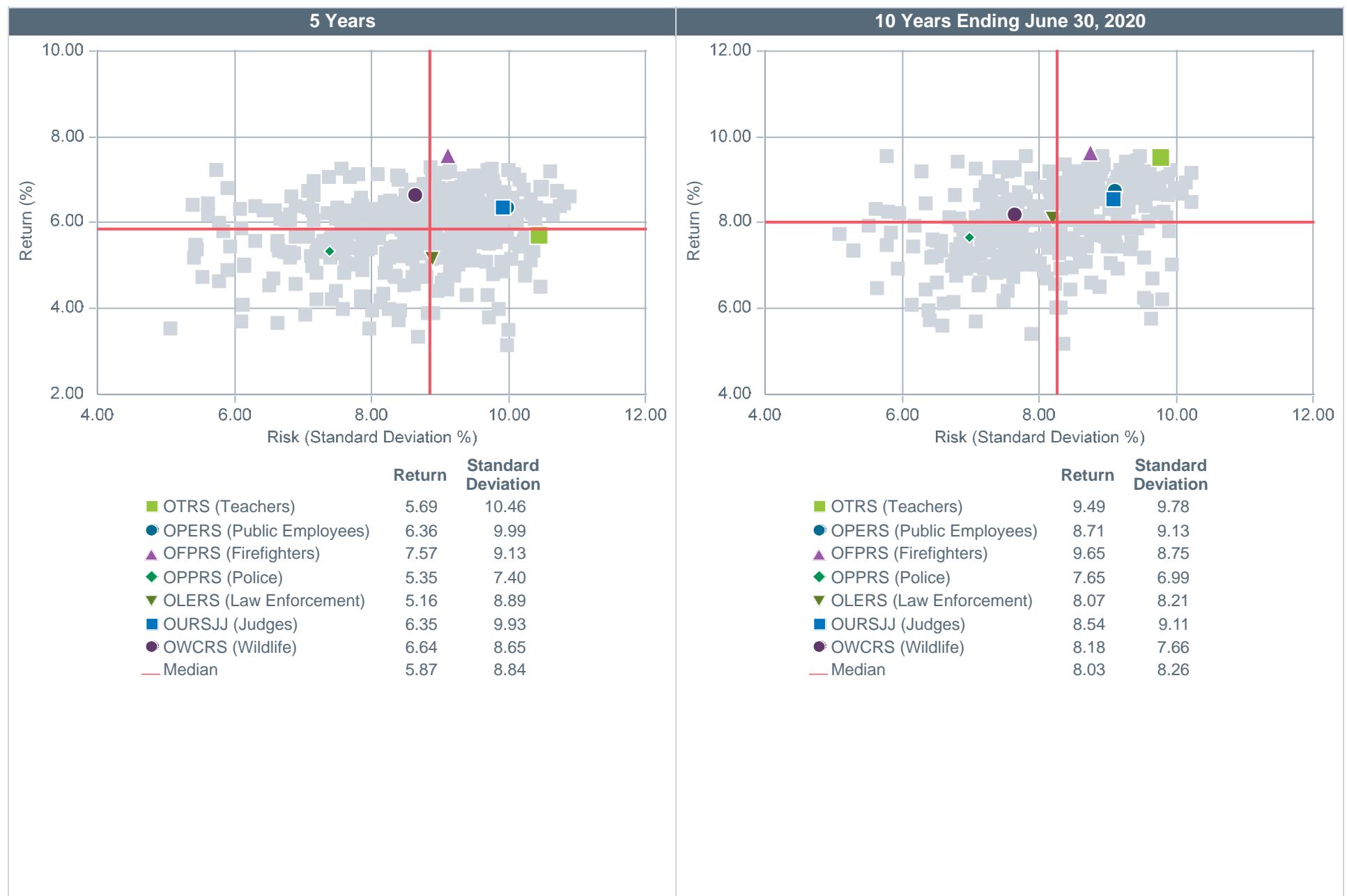
Oklahoma State Pension Commission
All Public Plans-Total Fund
Plan Sponsor Peer Group Analysis

As of June 30, 2020



Performance shown is gross of fees. Parentheses contain percentile ranks. Oklahoma State Pension Commission fiscal year begins on 07/01.

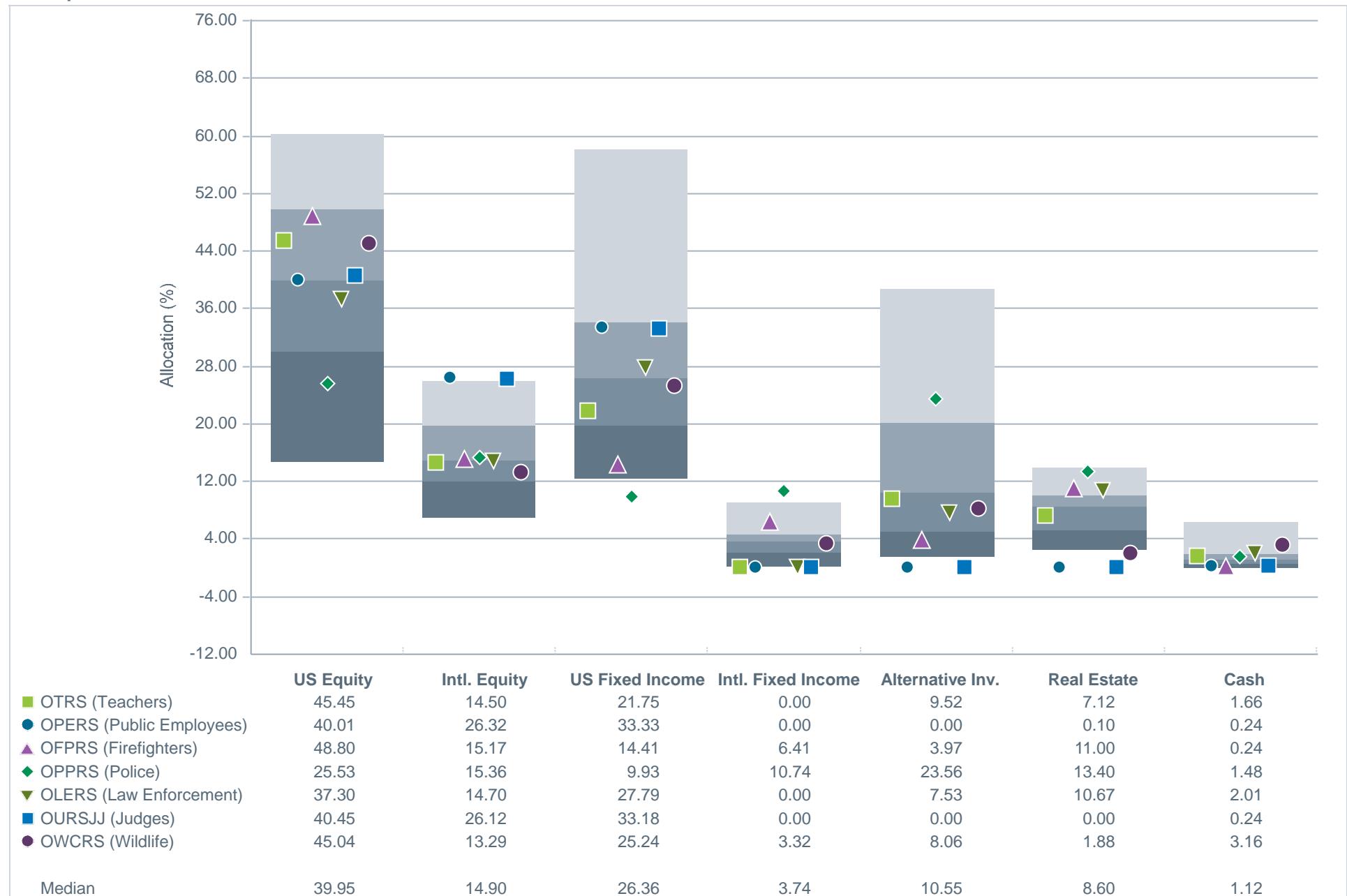
Total Fund Risk & Return vs. All Public Plans-Total Fund



Performance shown is gross of fees. Calculation is based on monthly periodicity.

Oklahoma State Pension Commission
 All Plans Total Fund vs. All Public Plans-Total Fund
 Plan Sponsor TF Asset Allocation

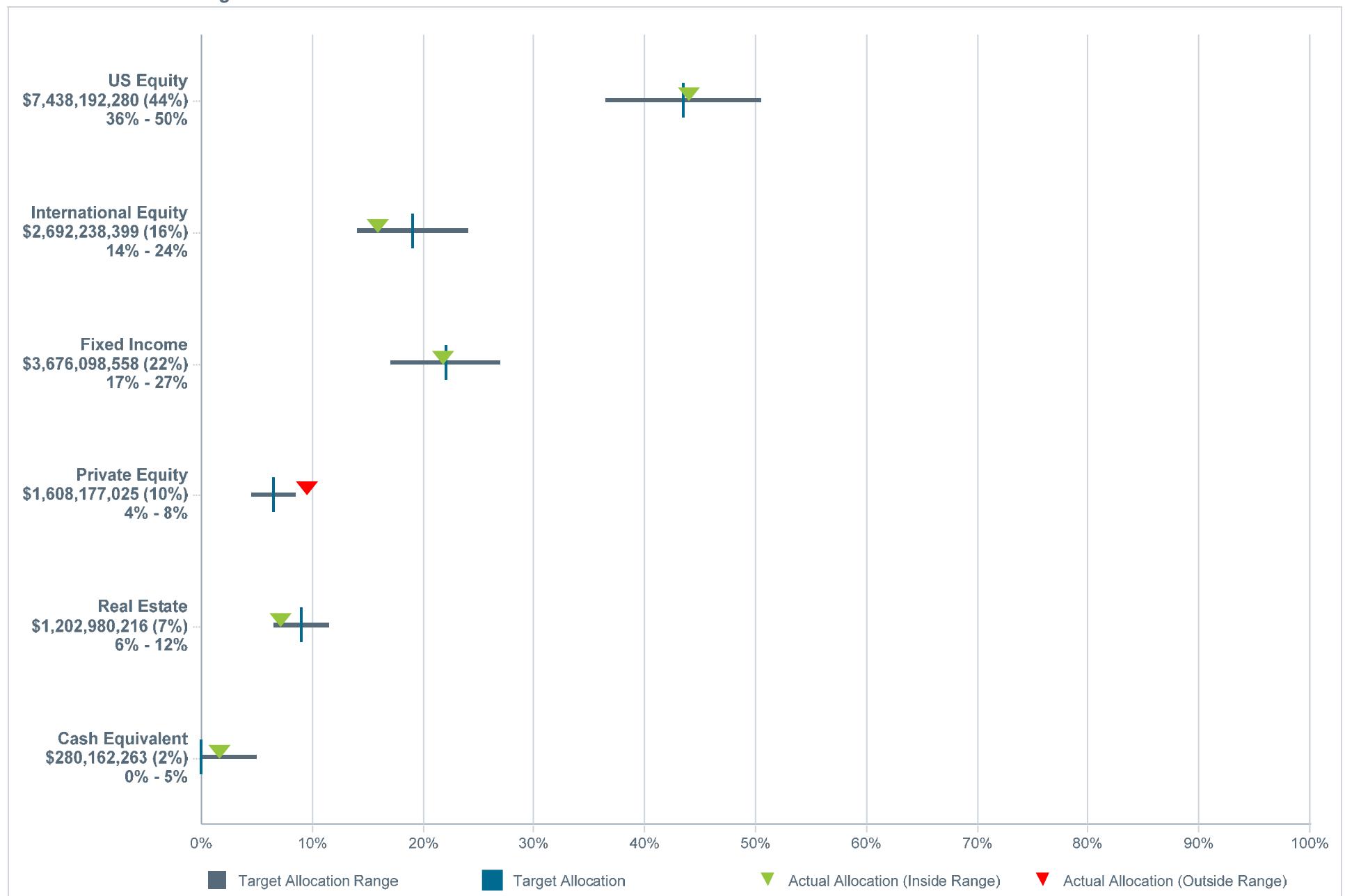
As of June 30, 2020



(Parentheses contain percentile ranks.)

Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation vs. Target Allocation

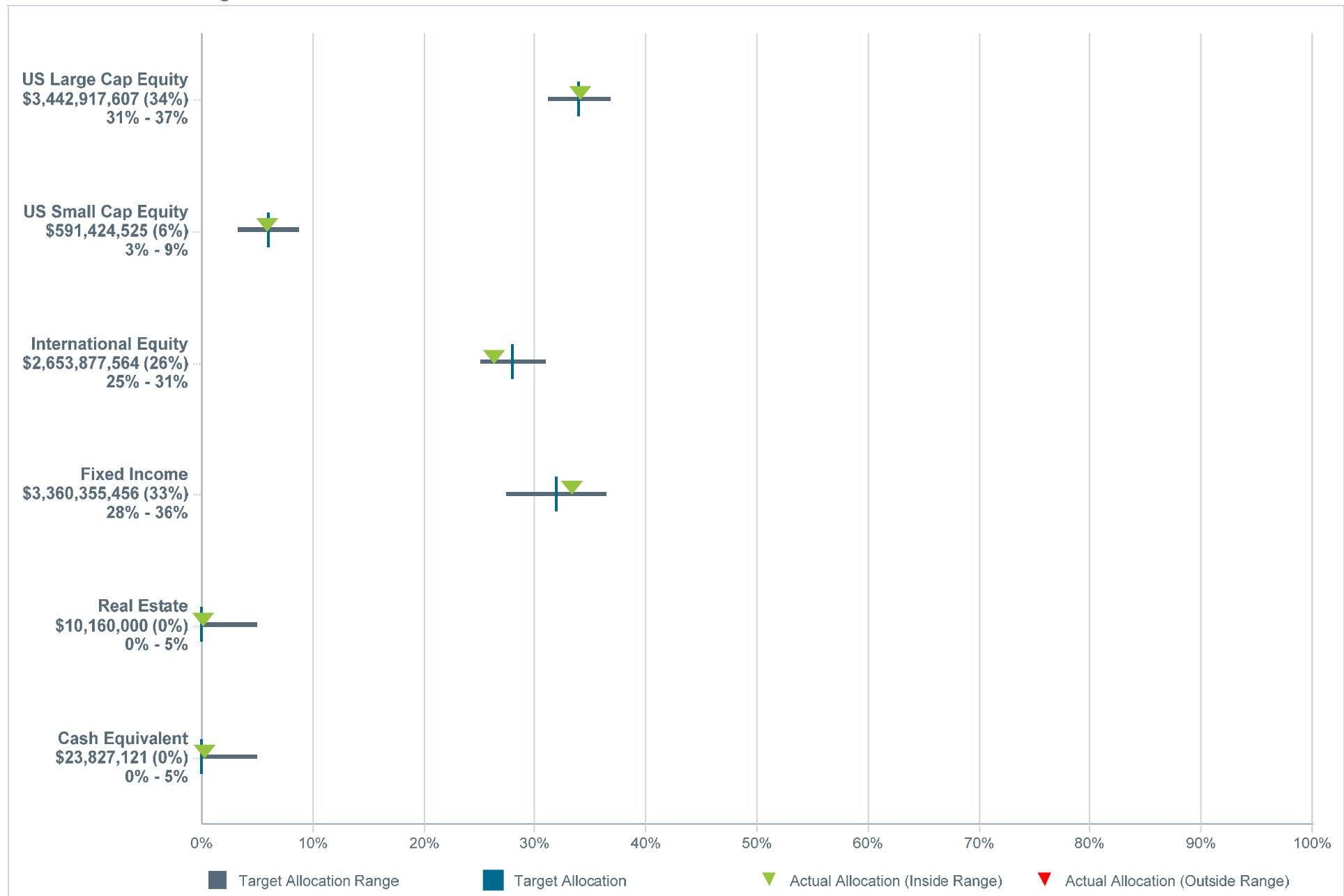
As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding. Allocation to Private Equity includes Private Credit.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation vs. Target Allocation

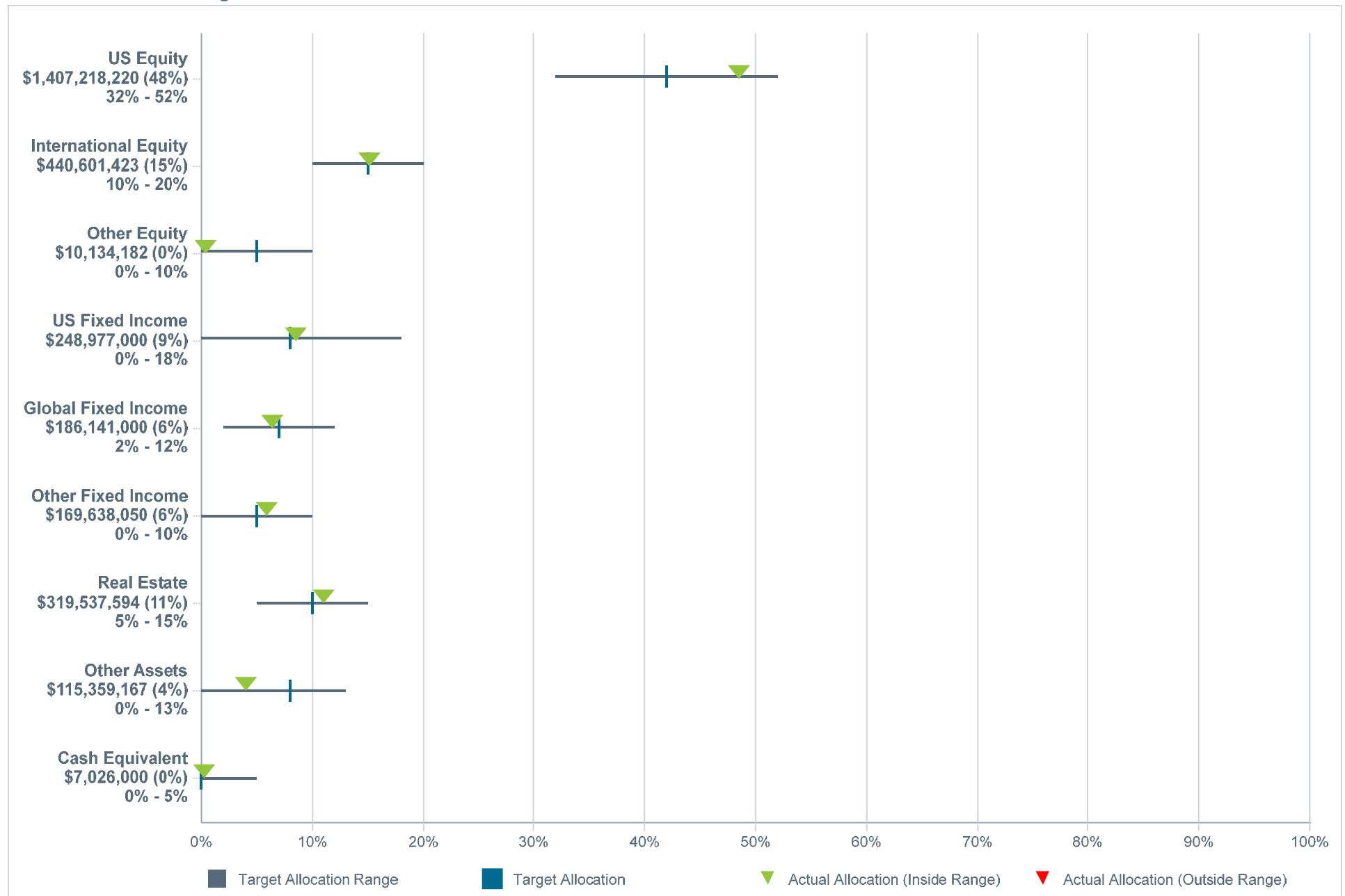
As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding.

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation vs. Target Allocation

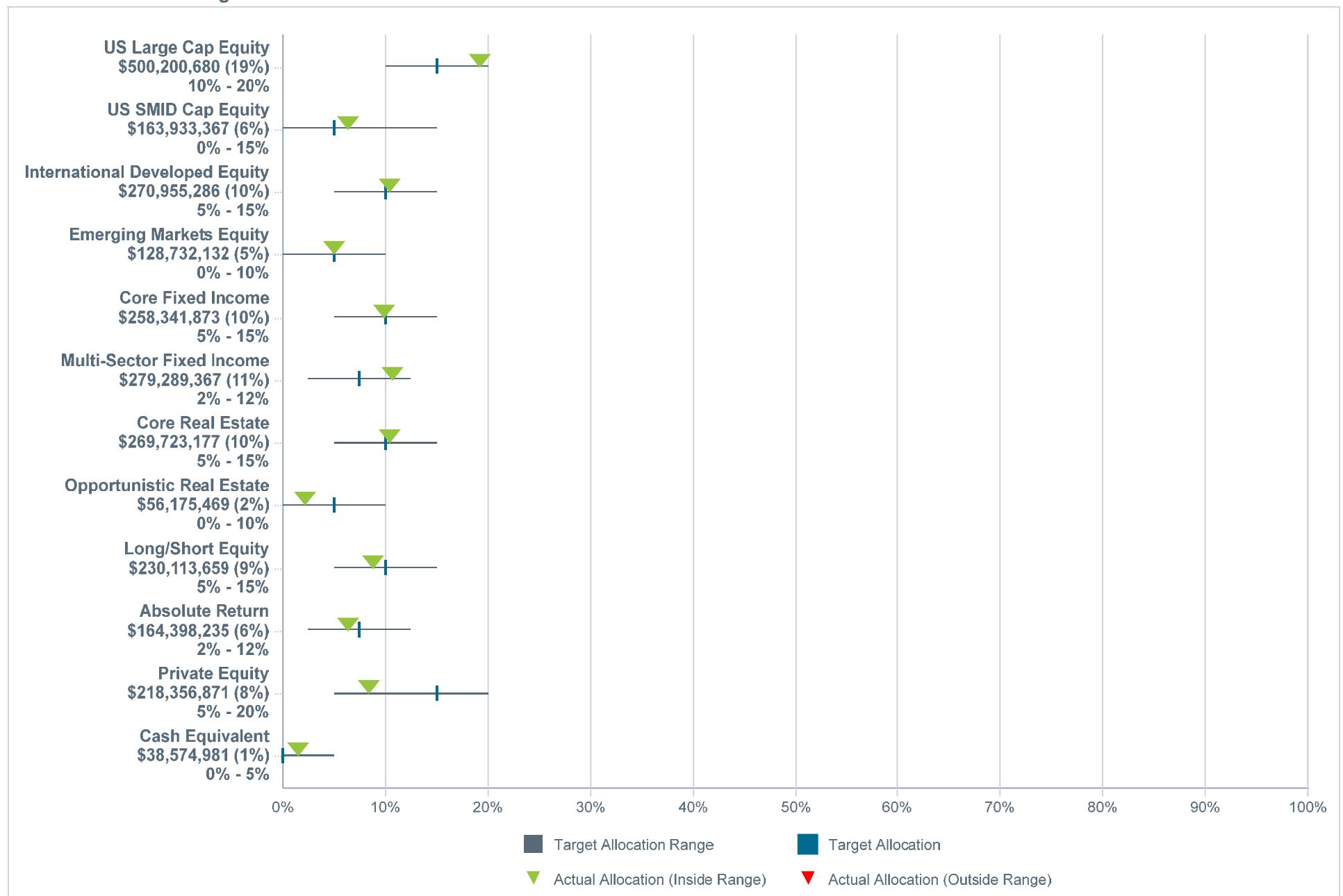
As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding. Allocation to Other Equity includes opportunistic equity; Other Fixed Income includes non-core Fixed Income; and Other Assets include Hedge Funds and Private Equity.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation vs. Target Allocation

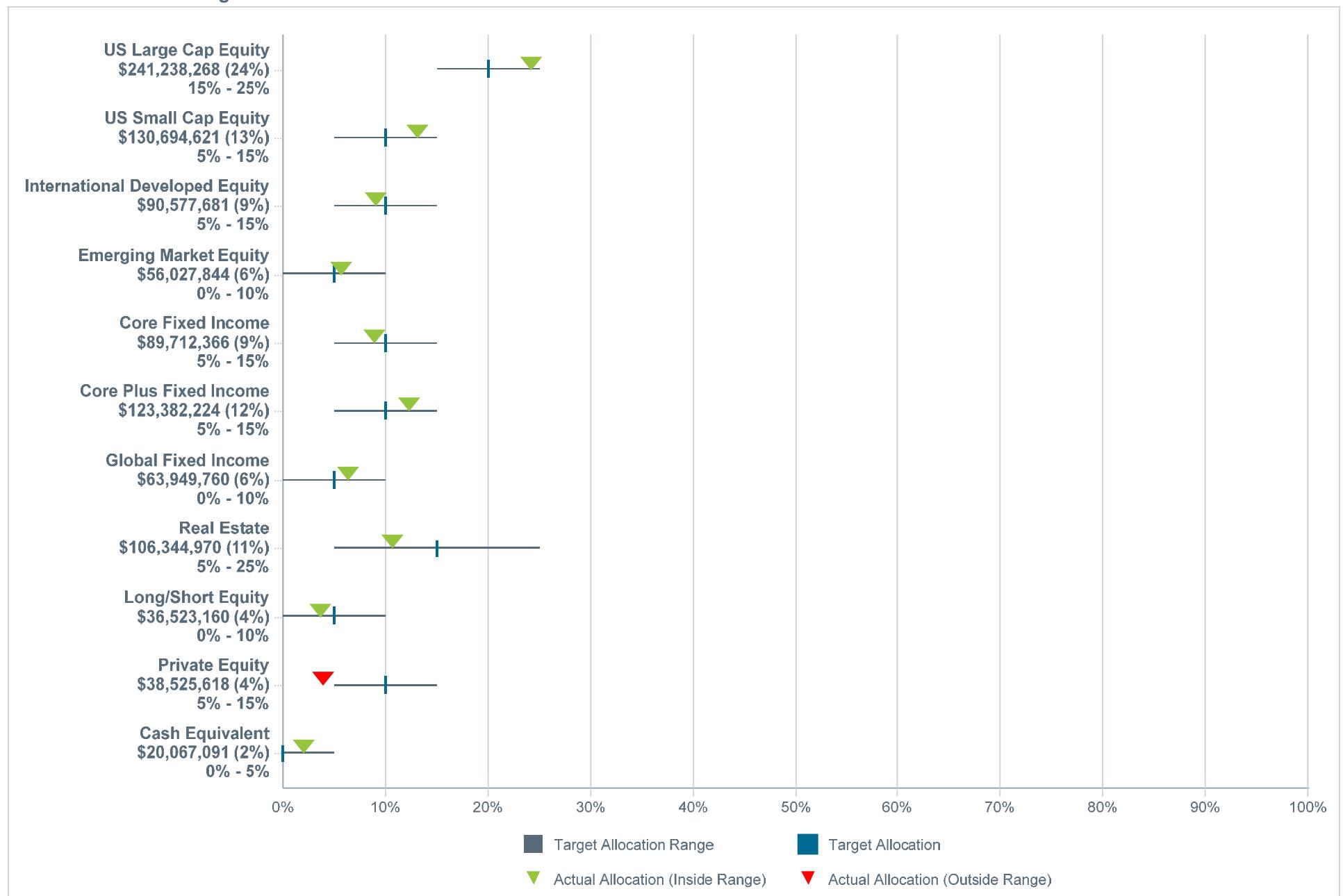
As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding. Allocation to Multi-Sector Fixed Income includes Private Credit.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation vs. Target Allocation

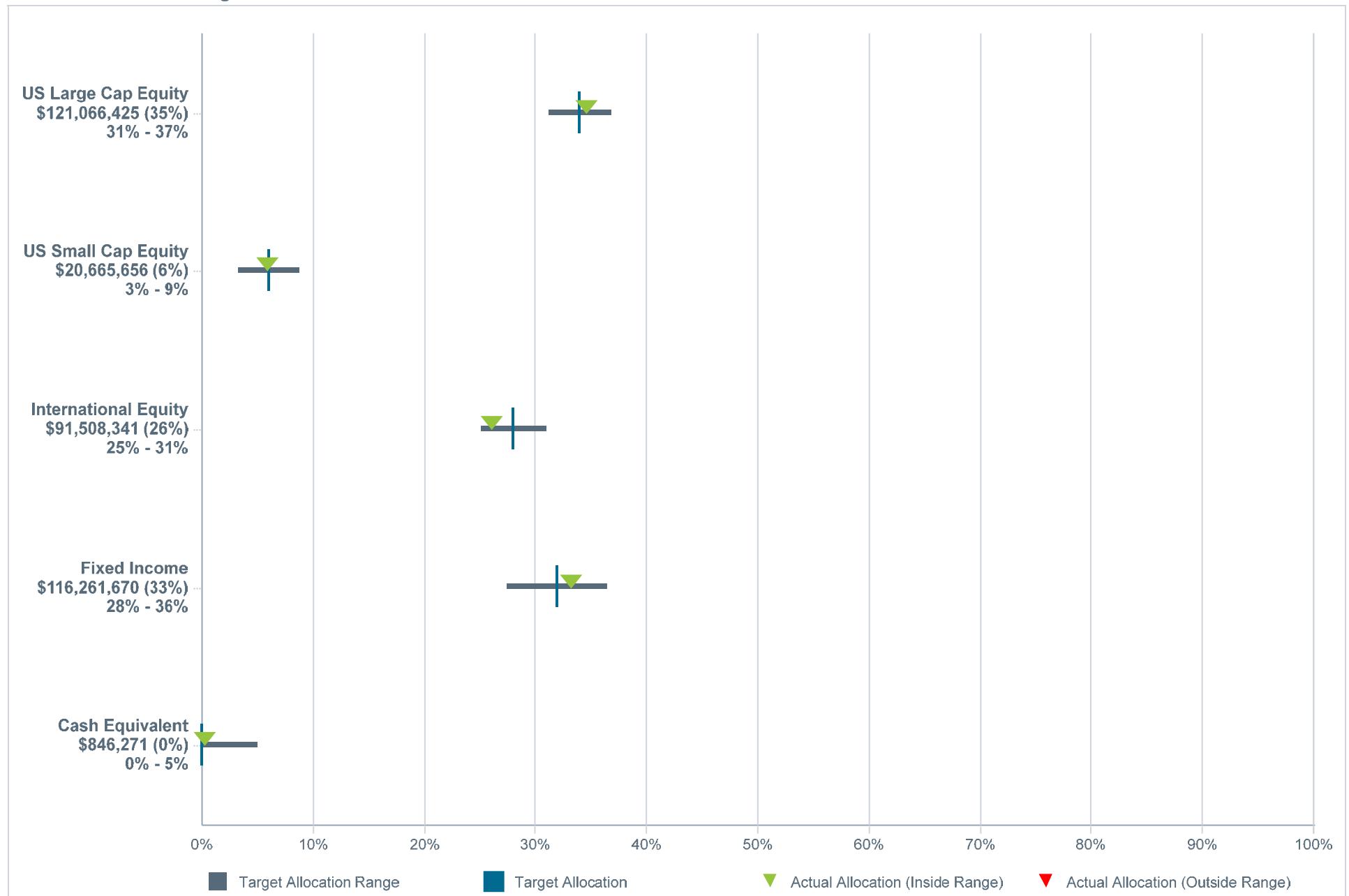
As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding.

Oklahoma State Pension Commission
 Oklahoma Uniform Retirement System for Justices & Judges
 Asset Allocation vs. Target Allocation

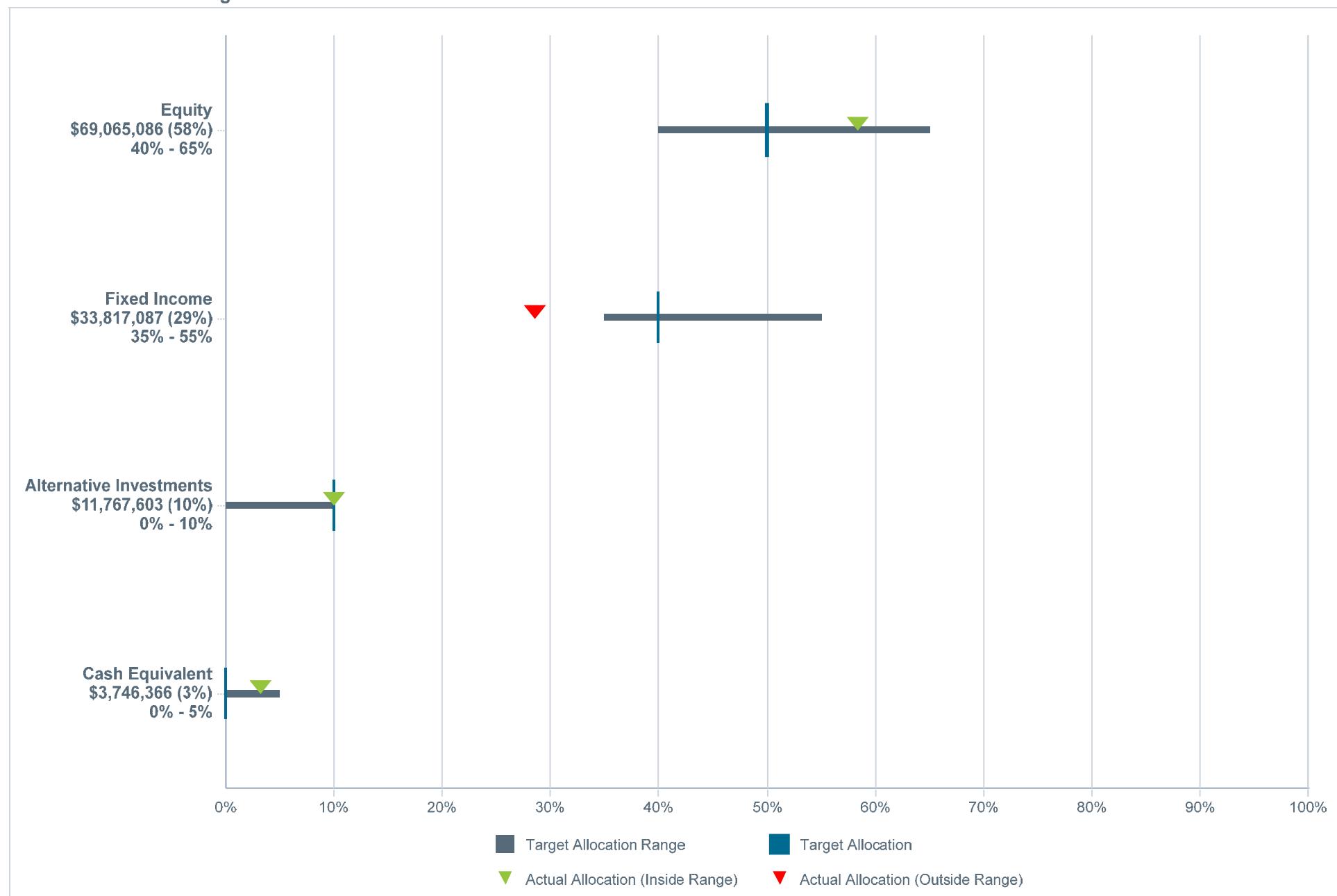
As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation vs. Target Allocation

As of June 30, 2020



Allocations shown may not sum up to 100% exactly due to rounding.

Oklahoma Teachers' Retirement System (OTRS)

	Performance (%)												
	Trailing							Calendar Year					
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015
OTRS Total Fund (Net)	12.49	-4.77	0.62	0.62	5.08	5.45	7.45	9.37	19.42	-5.33	15.82	11.28	-2.93
OTRS Policy Index	15.80	-3.18	3.23	3.23	5.94	6.15	7.11	8.91	21.09	-5.12	14.05	10.61	-2.49
Difference	-3.31	-1.59	-2.61	-2.61	-0.86	-0.70	0.34	0.46	-1.67	-0.21	1.77	0.67	-0.44
OTRS Actual Allocation Index	14.94	-1.99	3.74	3.74	6.03	6.16	7.66	9.14	18.94	-4.70	14.35	10.93	-1.95
Difference	-2.45	-2.78	-3.12	-3.12	-0.95	-0.71	-0.21	0.23	0.48	-0.63	1.47	0.35	-0.98
Actuarial Discount Rate (7.5%)	1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference	10.67	-8.45	-6.88	-6.88	-2.42	-2.05	-0.05	1.87	11.92	-12.83	8.32	3.78	-10.43
OTRS Total Fund (Gross)	12.54	-4.66	0.85	0.85	5.38	5.69	7.63	9.49	19.75	-5.03	16.16	11.39	-2.88
OTRS Policy Index	15.80	-3.18	3.23	3.23	5.94	6.15	7.11	8.91	21.09	-5.12	14.05	10.61	-2.49
Difference	-3.26	-1.48	-2.38	-2.38	-0.56	-0.46	0.52	0.58	-1.34	0.09	2.11	0.78	-0.39
OTRS Actual Allocation Index	14.94	-1.99	3.74	3.74	6.03	6.16	7.66	9.14	18.94	-4.70	14.35	10.93	-1.95
Difference	-2.40	-2.67	-2.89	-2.89	-0.65	-0.47	-0.03	0.35	0.81	-0.33	1.81	0.46	-0.93
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08
Rank	42	85	84	84	60	57	19	7	33	73	32	2	94
Asset Allocation vs. Target Allocation							Asset Allocation vs. Target Allocation Difference						
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)										
OTRS (Teachers)	16,897,902,887	100.00	100.00										
US Equity	7,438,192,280	44.02	43.50										
International Equity	2,692,238,399	15.93	19.00										
Fixed Income	3,676,098,558	21.75	22.00										
Private Equity	1,608,177,025	9.52	6.50										
Real Estate	1,202,980,216	7.12	9.00										
Cash Equivalent	280,162,263	1.66	0.00										

Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.



Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%		QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OTRS Total Fund	16,897,902,887	100.00		12.49	-4.77	0.62	0.62	5.08	5.45	7.45	9.37	7.83	01/01/1984
OTRS Policy Index				15.80	-3.18	3.23	3.23	5.94	6.15	7.11	8.91	N/A	
Difference				-3.31	-1.59	-2.61	-2.61	-0.86	-0.70	0.34	0.46	N/A	
OTRS Actual Allocation Index				14.94	-1.99	3.74	3.74	6.03	6.16	7.66	9.14	N/A	
Difference				-2.45	-2.78	-3.12	-3.12	-0.95	-0.71	-0.21	0.23	N/A	
Actuarial Discount Rate (7.5%)				1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	
Difference				10.67	-8.45	-6.88	-6.88	-2.42	-2.05	-0.05	1.87	0.33	
US Equity	7,438,192,280	44.02		22.10	-10.62	-3.30	-3.30	5.56	6.61	9.36	12.02	3.24	04/01/1990
S&P 500 Index (Cap Wtd)				20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	9.87	
Difference				1.56	-7.54	-10.81	-10.81	-5.17	-4.12	-2.77	-1.97	-6.63	
Hotchkis & Wiley Large Cap Value Equity (SA)	110,224	0.00		0.01	-1.54	-21.43	-21.43	-3.56	1.46	5.51	9.74	8.96	01/01/1990
Russell 1000 Val Index				14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	9.01	
Difference				-14.28	14.72	-12.59	-12.59	-5.38	-3.18	-1.60	-0.67	-0.05	
Northern Trust Russell 1000 Index (SA)	1,772,829,079	10.49		21.61	-2.99	8.42	8.42	N/A	N/A	N/A	N/A	11.39	11/01/2017
Russell 1000 Index				21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	9.29	
Difference				-0.21	-0.18	0.94	0.94	N/A	N/A	N/A	N/A	2.10	
SciBeta US High FactorExposure Index (SA)	2,275,236,990	13.46		17.79	-9.57	-0.44	-0.44	N/A	N/A	N/A	N/A	7.11	11/01/2017
S&P 500 Index (Eq Wtd)				21.73	-10.77	-3.25	-3.25	5.43	7.14	9.67	12.64	4.31	
Difference				-3.94	1.20	2.81	2.81	N/A	N/A	N/A	N/A	2.80	
Hotchkis & Wiley Mid Cap Value Equity (SA)	265,587,899	1.57		25.43	-32.52	-31.65	-31.65	-11.98	-5.72	-0.44	6.91	9.41	01/01/1990
Russell Mid Cap Val Index				19.95	-18.09	-11.81	-11.81	-0.54	3.32	6.55	10.29	10.32	
Difference				5.48	-14.43	-19.84	-19.84	-11.44	-9.04	-6.99	-3.38	-0.91	
Northern Trust Russell Mid Cap Index (CF)	899,364,123	5.32		24.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.38	03/01/2020
Russell Mid Cap Index				24.61	-9.13	-2.24	-2.24	5.79	6.76	9.40	12.35	0.32	
Difference				-0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.06	
Wellington Mid Cap Growth (SA)	580,005,429	3.43		33.60	3.43	13.65	13.65	17.03	12.29	14.02	14.61	9.88	08/01/1998
Russell Mid Cap Grth Index				30.26	4.16	11.91	11.91	14.76	11.60	13.24	15.09	8.71	
Difference				3.34	-0.73	1.74	1.74	2.27	0.69	0.78	-0.48	1.17	
Shapiro Enhanced Small Cap Value Equity (SA)	689,654,028	4.08		22.98	-22.88	-18.37	-18.37	-2.81	2.66	6.48	10.09	8.39	04/01/1998
Russell 2000 Val Index				18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	6.35	
Difference				4.07	0.62	-0.89	-0.89	1.54	1.40	2.50	2.27	2.04	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Frontier Small Cap Value Equity (SA)	167,829,675	0.99	23.66	-25.20	-20.72	-20.72	-4.47	1.65	4.97	N/A	4.31	05/01/2013
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	4.26	
Difference			4.75	-1.70	-3.24	-3.24	-0.12	0.39	0.99	N/A	0.05	
Neumeier Poma Small Cap Value Equity (SA)	224,718,972	1.33	16.92	-15.21	-9.27	-9.27	2.02	6.14	9.80	N/A	9.92	04/01/2013
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	4.19	
Difference			-1.99	8.29	8.21	8.21	6.37	4.88	5.82	N/A	5.73	
Geneva US Small Cap Growth Equity (SA)	234,271,189	1.39	30.00	4.36	9.29	9.29	13.73	12.96	13.91	N/A	13.59	05/01/2013
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	10.45	
Difference			-0.58	7.42	5.81	5.81	5.87	6.10	3.88	N/A	3.14	
Wasatch Small Cap Core Growth (SA)	328,584,546	1.94	24.97	-2.31	5.90	5.90	7.11	6.84	8.15	N/A	11.52	12/01/2011
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	11.88	
Difference			-5.61	0.75	2.42	2.42	-0.75	-0.02	-1.88	N/A	-0.36	
International Equity	2,692,238,399	15.93	18.41	-10.96	-4.72	-4.72	0.63	2.21	4.20	6.06	5.67	09/01/2001
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.42	
Difference			2.29	0.04	0.08	0.08	-0.50	-0.05	0.49	1.09	0.25	
Causeway International Opportunities (SA)	459,572,956	2.72	18.82	-17.02	-9.08	-9.08	-1.41	0.35	2.81	5.58	6.88	05/01/2003
MSCI EAFE Index (USD) (Net)			14.88	-11.34	-5.13	-5.13	0.81	2.05	3.93	5.73	6.57	
Difference			3.94	-5.68	-3.95	-3.95	-2.22	-1.70	-1.12	-0.15	0.31	
Allianz Best Styles AC Intl Equity (SA)	973,182,198	5.76	13.22	-13.89	-8.18	-8.18	-0.52	N/A	N/A	N/A	5.00	06/01/2016
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.14	
Difference			-2.90	-2.89	-3.38	-3.38	-1.65	N/A	N/A	N/A	-0.14	
Wellington Intl Quality Growth (SA)	543,243,661	3.21	18.73	-2.24	5.87	5.87	8.25	N/A	N/A	N/A	10.83	06/01/2016
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.14	
Difference			2.61	8.76	10.67	10.67	7.12	N/A	N/A	N/A	5.69	
Advisory Research Intl Small Cap Equity (SA)	818,257	0.00	2.48	0.73	0.06	0.06	-1.09	1.99	4.59	N/A	6.79	12/01/2011
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75	
Difference			-13.64	11.73	4.86	4.86	-2.22	-0.27	0.88	N/A	2.04	
Epoch Intl Small Cap Equity (SA)	402,326	0.00	0.84	-0.28	-0.50	-0.50	-0.20	1.91	4.54	N/A	6.27	12/01/2011
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75	
Difference			-15.28	10.72	4.30	4.30	-1.33	-0.35	0.83	N/A	1.52	
Wellington International Small Cap Equity (CF)	232,638,774	1.38	19.19	-16.63	-8.62	-8.62	-4.82	-0.47	3.14	N/A	6.24	12/01/2011
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75	
Difference			3.07	-5.63	-3.82	-3.82	-5.95	-2.73	-0.57	N/A	1.49	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Wasatch Small Cap Core Growth (SA)	241,326,469	1.43	34.11	3.04	11.79	11.79	16.46	13.05	13.94	N/A	16.78	12/01/2011	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75		
Difference			17.99	14.04	16.59	16.59	15.33	10.79	10.23	N/A	12.03		
SSGA Emerging Market Small Cap (CF)	241,040,944	1.43	24.04	-14.60	-10.94	-10.94	-3.27	N/A	N/A	N/A	0.47	08/01/2016	
MSCI Emg Mkts Sm Cap Index (USD) (Net)			27.14	-12.74	-8.82	-8.82	-2.95	-1.38	0.96	1.78	0.65		
Difference			-3.10	-1.86	-2.12	-2.12	-0.32	N/A	N/A	N/A	-0.18		
Fixed Income	3,676,098,558	21.75	6.08	7.05	10.37	10.37	6.54	5.75	5.57	6.14	6.79	07/01/2000	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.14		
Difference			3.18	0.91	1.63	1.63	1.22	1.45	1.61	2.32	1.65		
Loomis Sayles Multisector Full Discretion (SA)	955,104,213	5.65	11.13	6.04	8.84	8.84	5.41	4.78	4.75	5.55	6.15	07/01/1999	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.11		
Difference			8.23	-0.10	0.10	0.10	0.09	0.48	0.79	1.73	1.04		
Mackay Shields Core+ Extended Discretion (SA)	926,433,591	5.48	8.03	2.84	6.47	6.47	4.44	3.89	3.73	4.78	5.28	11/01/2004	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.38		
Difference			5.13	-3.30	-2.27	-2.27	-0.88	-0.41	-0.23	0.96	0.90		
Lord Abbett Core Plus Full Discretion (SA)	910,468,486	5.39	6.65	1.65	4.18	4.18	3.99	3.80	3.93	4.48	5.23	11/01/2004	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.38		
Difference			3.75	-4.49	-4.56	-4.56	-1.33	-0.50	-0.03	0.66	0.85		
Hoisington Active Duration Long Bonds (SA)	884,092,268	5.23	3.76	30.88	36.84	36.84	15.86	11.32	10.40	9.45	9.17	11/01/2004	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.38		
Difference			0.86	24.74	28.10	28.10	10.54	7.02	6.44	5.63	4.79		
Real Estate	1,202,980,216	7.12	-2.26	-1.56	-1.58	-1.58	4.73	6.98	8.31	N/A	7.87	04/01/2011	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	9.15		
Difference			-1.27	-1.27	-4.27	-4.27	-0.71	0.21	0.05	N/A	-1.28		
L&B Core Income Partners LP	92,027,546	0.54	-12.25	-4.96	-12.48	-12.48	-0.73	4.03	6.20	N/A	5.71	04/01/2011	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	9.03		
Difference			-10.50	-3.95	-13.81	-13.81	-5.45	-2.32	-1.89	N/A	-3.32		
Heitman America Real Estate (CF)	320,352,146	1.90	-1.85	-2.80	-1.06	-1.06	3.73	6.56	8.29	N/A	8.51	05/01/2011	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	9.03		
Difference			-0.10	-1.79	-2.39	-2.39	-0.99	0.21	0.20	N/A	-0.52		
AEW Core Property Trust (CF)	328,043,955	1.94	-1.02	-0.07	2.80	2.80	5.48	7.52	8.47	N/A	8.31	07/01/2011	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.77		
Difference			0.73	0.94	1.47	1.47	0.76	1.17	0.38	N/A	-0.46		

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
L&B Gloden Driller (SA)	74,735,022	0.44	-4.14	-4.13	-1.78	-1.78	11.09	7.67	N/A	N/A	5.99	07/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.49	
Difference			-2.39	-3.12	-3.11	-3.11	6.37	1.32	N/A	N/A	-1.50	
GreenOak US II LP	31,634,414	0.19	-5.79	-16.38	-16.76	-16.76	-1.90	1.24	N/A	N/A	1.15	10/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-4.04	-15.37	-18.09	-18.09	-6.62	-5.11	N/A	N/A	-6.12	
GreenOak US III LP	22,565,423	0.13	-9.23	-2.22	-9.54	-9.54	N/A	N/A	N/A	N/A	-18.87	05/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	3.82	
Difference			-7.48	-1.21	-10.87	-10.87	N/A	N/A	N/A	N/A	-22.69	
Lyrical-OTRS Realty Partner IV LP	66,539,641	0.39	2.48	2.48	7.31	7.31	15.62	6.79	N/A	N/A	5.97	11/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			4.23	3.49	5.98	5.98	10.90	0.44	N/A	N/A	-1.30	
Dune Real Estate III LP	52,985,110	0.31	-0.25	-1.07	-4.69	-4.69	7.29	9.64	N/A	N/A	9.28	11/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			1.50	-0.06	-6.02	-6.02	2.57	3.29	N/A	N/A	2.01	
Landmark Real Estate VII LP	13,377,154	0.08	-2.37	-2.37	-2.95	-2.95	1.61	9.72	N/A	N/A	13.49	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-0.62	-1.36	-4.28	-4.28	-3.11	3.37	N/A	N/A	6.22	
American Strategic Value Realty (CF)	72,135,357	0.43	1.56	3.92	7.62	7.62	8.32	9.98	N/A	N/A	9.60	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			3.31	4.93	6.29	6.29	3.60	3.63	N/A	N/A	2.33	
Starwood Opportunity X LP	20,507,499	0.12	-3.68	-3.68	0.59	0.59	9.29	N/A	N/A	N/A	12.74	12/01/2015
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	5.94	
Difference			-1.93	-2.67	-0.74	-0.74	4.57	N/A	N/A	N/A	6.80	
Starwood Opportunity XI LP	20,008,953	0.12	2.29	2.29	12.50	12.50	N/A	N/A	N/A	N/A	28.41	07/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	3.37	
Difference			4.04	3.30	11.17	11.17	N/A	N/A	N/A	N/A	25.04	
FCP Realty IV LP	12,682,208	0.08	0.25	5.35	-6.87	-6.87	N/A	N/A	N/A	N/A	-24.08	12/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	2.77	
Difference			2.00	6.36	-8.20	-8.20	N/A	N/A	N/A	N/A	-26.85	
Harbert European Real Estate V LP	15,272,678	0.09	2.77	6.77	11.02	11.02	N/A	N/A	N/A	N/A	-13.12	12/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	2.77	
Difference			4.52	7.78	9.69	9.69	N/A	N/A	N/A	N/A	-15.89	

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Artemis Real Estate III LP	10,514,674	0.06	-2.74	3.76	3.91	3.91	N/A	N/A	N/A	N/A	-14.70	02/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	2.21	
Difference			-0.99	4.77	2.58	2.58	N/A	N/A	N/A	N/A	-16.91	
Angelo Gordon Value X LP	16,124,791	0.10	-6.56	-1.73	-22.22	-22.22	N/A	N/A	N/A	N/A	-20.70	06/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.68	
Difference			-4.81	-0.72	-23.55	-23.55	N/A	N/A	N/A	N/A	-22.38	
Dune Real Estate IV LP	12,492,937	0.07	-2.65	-3.47	N/A	N/A	N/A	N/A	N/A	N/A	-24.14	08/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.33	
Difference			-0.90	-2.46	N/A	N/A	N/A	N/A	N/A	N/A	-25.47	
Invesco Strategic Opportunity (CF)	13,680,708	0.08	101.55	101.57	N/A	N/A	N/A	N/A	N/A	N/A	101.57	09/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.33	
Difference			103.30	102.58	N/A	N/A	N/A	N/A	N/A	N/A	100.24	
Harvey Parkway Building (SA)	7,300,000	0.04	-44.36	-44.36	-44.36	-44.36	-151.47	N/A	N/A	N/A	-152.40	06/01/2017
Private Equity	1,608,177,025	9.52	-3.35	-2.18	6.28	6.28	12.54	12.43	14.31	N/A	13.44	12/01/2010
R 2000 Index+4%			26.65	-11.25	-2.89	-2.89	6.09	8.46	11.46	14.92	13.26	
Difference			-30.00	9.07	9.17	9.17	6.45	3.97	2.85	N/A	0.18	
OTRS/Legacy Private Equity LP	11,707,422	0.07	-5.06	-5.06	-5.51	-5.51	-4.46	0.94	3.65	4.61	3.62	10/01/2008
OTRS/Franklin Park Private Equity LP	1,279,420,663	7.57	-0.37	1.26	11.23	11.23	15.72	14.81	15.98	N/A	5.20	06/01/2011
PIMCO COF II LP	89,256,991	0.53	-15.05	-11.30	-8.11	-8.11	3.16	N/A	N/A	N/A	5.23	09/01/2016
PIMCO Bravo LP	594,455	0.00	-51.39	-61.40	-70.56	-70.56	-30.28	-19.60	-9.09	N/A	-1.98	03/01/2011
PIMCO Bravo II LP	53,467,606	0.32	-21.51	-18.28	-16.47	-16.47	-2.70	2.13	6.91	N/A	6.58	03/01/2013
PIMCO Bravo III LP	173,729,888	1.03	-10.55	-15.48	-10.29	-10.29	4.86	N/A	N/A	N/A	3.85	03/01/2017

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%		QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OTRS Total Fund	16,897,902,887	100.00		12.54	-4.66	0.85	0.85	5.38	5.69	7.63	9.49	9.68	01/01/1984
OTRS Policy Index				15.80	-3.18	3.23	3.23	5.94	6.15	7.11	8.91	N/A	
Difference				-3.26	-1.48	-2.38	-2.38	-0.56	-0.46	0.52	0.58	N/A	
OTRS Actual Allocation Index				14.94	-1.99	3.74	3.74	6.03	6.16	7.66	9.14	N/A	
Difference				-2.40	-2.67	-2.89	-2.89	-0.65	-0.47	-0.03	0.35	N/A	
Actuarial Discount Rate (7.5%)				1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference				10.72	-8.34	-6.65	-6.65	-2.12	-1.81	0.13	1.99	2.18	
All Public Plans-Total Fund Median				12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.68	
Rank				42	85	84	84	60	57	19	7	1	
US Equity	7,438,192,280	44.02		22.16	-10.53	-3.07	-3.07	5.89	6.86	9.55	12.16	10.29	04/01/1990
S&P 500 Index (Cap Wtd)				20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	9.87	
Difference				1.62	-7.45	-10.58	-10.58	-4.84	-3.87	-2.58	-1.83	0.42	
All Public Plans-US Equity Segment Median				21.87	-4.86	4.26	4.26	8.72	8.91	10.68	13.15	N/A	
Rank				39	94	94	94	89	87	81	84	N/A	
Hotchkis & Wiley Large Cap Value Equity (SA)	110,224	0.00		0.01	-1.54	-1.08	-1.08	4.32	6.37	9.14	12.36	10.17	01/01/1990
Russell 1000 Val Index				14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	9.01	
Difference				-14.28	14.72	7.76	7.76	2.50	1.73	2.03	1.95	1.16	
IM U.S. Large Cap Value Equity (SA+CF) Median				16.98	-14.65	-6.61	-6.61	3.16	5.32	7.80	10.96	10.01	
Rank				100	6	23	23	36	35	29	23	42	
Northern Trust Russell 1000 Index (SA)	1,772,829,079	10.49		21.61	-2.99	8.43	8.43	N/A	N/A	N/A	N/A	11.39	11/01/2017
Russell 1000 Index				21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	9.29	
Difference				-0.21	-0.18	0.95	0.95	N/A	N/A	N/A	N/A	2.10	
IM U.S. Large Cap Equity (SA+CF) Median				20.55	-4.29	5.69	5.69	9.75	9.65	11.65	13.73	8.14	
Rank				41	41	34	34	N/A	N/A	N/A	N/A	29	
SciBeta US High FactorExposure Index (SA)	2,275,236,990	13.46		17.82	-9.54	-0.39	-0.39	N/A	N/A	N/A	N/A	7.17	11/01/2017
S&P 500 Index (Eq Wtd)				21.73	-10.77	-3.25	-3.25	5.43	7.14	9.67	12.64	4.31	
Difference				-3.91	1.23	2.86	2.86	N/A	N/A	N/A	N/A	2.86	
IM U.S. Large Cap Equity (SA+CF) Median				20.55	-4.29	5.69	5.69	9.75	9.65	11.65	13.73	8.14	
Rank				69	67	66	66	N/A	N/A	N/A	N/A	55	
Hotchkis & Wiley Mid Cap Value Equity (SA)	265,587,899	1.57		25.51	-32.43	-31.50	-31.50	-11.60	-5.41	-0.21	7.08	9.82	01/01/1990
Russell Mid Cap Val Index				19.95	-18.09	-11.81	-11.81	-0.54	3.32	6.55	10.29	10.32	
Difference				5.56	-14.34	-19.69	-19.69	-11.06	-8.73	-6.76	-3.21	-0.50	
IM U.S. Mid Cap Value Equity (SA+CF) Median				19.98	-17.57	-10.36	-10.36	0.42	3.84	7.06	10.63	N/A	
Rank				7	100	100	100	100	100	100	100	N/A	

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Northern Trust Russell Mid Cap Index (CF)	899,364,123	5.32	24.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.38	03/01/2020
Russell Mid Cap Index			24.61	-9.13	-2.24	-2.24	5.79	6.76	9.40	12.35	0.32	
Difference			-0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.06	
IM U.S. Mid Cap Equity (SA+CF) Median			23.94	-9.35	-2.24	-2.24	4.98	6.25	8.93	12.33	-0.26	
Rank			40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49	
Wellington Mid Cap Growth (SA)	580,005,429	3.43	33.00	3.03	13.36	13.36	17.12	12.36	14.08	14.65	10.27	08/01/1998
Russell Mid Cap Grth Index			30.26	4.16	11.91	11.91	14.76	11.60	13.24	15.09	8.71	
Difference			2.74	-1.13	1.45	1.45	2.36	0.76	0.84	-0.44	1.56	
IM U.S. Mid Cap Growth Equity (SA+CF) Median			30.39	4.71	11.90	11.90	15.17	11.61	13.69	15.42	10.12	
Rank			32	60	38	38	34	45	44	64	45	
Shapiro Enhanced Small Cap Value Equity (SA)	689,654,028	4.08	23.16	-22.64	-17.86	-17.86	-2.26	3.08	6.79	10.32	8.47	04/01/1998
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	6.35	
Difference			4.25	0.86	-0.38	-0.38	2.09	1.82	2.81	2.50	2.12	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	8.44	
Rank			35	60	70	70	45	31	22	30	50	
Frontier Small Cap Value Equity (SA)	167,829,675	0.99	23.93	-24.85	-20.04	-20.04	-3.66	2.30	5.46	N/A	4.78	05/01/2013
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	4.26	
Difference			5.02	-1.35	-2.56	-2.56	0.69	1.04	1.48	N/A	0.52	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	5.64	
Rank			28	79	83	83	61	41	46	N/A	70	
Neumeier Poma Small Cap Value Equity (SA)	224,718,972	1.33	17.12	-14.93	-8.70	-8.70	2.63	6.59	10.13	N/A	10.25	04/01/2013
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	4.19	
Difference			-1.79	8.57	8.78	8.78	6.98	5.33	6.15	N/A	6.06	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	5.52	
Rank			84	16	18	18	13	8	4	N/A	5	
Geneva US Small Cap Growth Equity (SA)	234,271,189	1.39	30.21	4.70	10.03	10.03	14.52	13.54	14.33	N/A	13.99	05/01/2013
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	10.45	
Difference			-0.37	7.76	6.55	6.55	6.66	6.68	4.30	N/A	3.54	
IM U.S. Small Cap Growth Equity (SA+CF) Median			32.78	1.16	5.99	5.99	12.27	10.20	12.31	15.04	12.83	
Rank			64	43	39	39	41	23	26	N/A	34	
Wasatch Small Cap Core Growth (SA)	328,584,546	1.94	25.18	-1.93	6.70	6.70	7.93	7.47	8.61	N/A	11.90	12/01/2011
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	11.88	
Difference			-5.40	1.13	3.22	3.22	0.07	0.61	-1.42	N/A	0.02	
IM U.S. Small Cap Growth Equity (SA+CF) Median			32.78	1.16	5.99	5.99	12.27	10.20	12.31	15.04	13.98	
Rank			91	61	48	48	72	71	90	N/A	80	

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
International Equity	2,692,238,399	15.93	18.52	-10.73	-4.27	-4.27	1.11	2.58	4.47	6.25	5.77	09/01/2001
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.42	
Difference			2.40	0.27	0.53	0.53	-0.02	0.32	0.76	1.28	0.35	
All Public Plans-Intl. Equity Segment Median			17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	N/A	
Rank			33	57	64	64	78	77	77	61	N/A	
Causeway International Opportunities (SA)	459,572,956	2.72	18.92	-16.88	-8.86	-8.86	-1.10	0.59	2.98	5.70	6.96	05/01/2003
MSCI EAFE Index (USD) (Net)			14.88	-11.34	-5.13	-5.13	0.81	2.05	3.93	5.73	6.57	
Difference			4.04	-5.54	-3.73	-3.73	-1.91	-1.46	-0.95	-0.03	0.39	
IM EAFE Value (SA+CF) Median			14.84	-16.61	-9.51	-9.51	-2.14	0.45	3.01	5.93	7.39	
Rank			13	55	48	48	40	45	51	57	67	
Allianz Best Styles AC Intl Equity (SA)	973,182,198	5.76	13.31	-13.64	-7.79	-7.79	-0.20	N/A	N/A	N/A	5.30	06/01/2016
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.14	
Difference			-2.81	-2.64	-2.99	-2.99	-1.33	N/A	N/A	N/A	0.16	
IM International Large Cap Equity (SA+CF) Median			17.01	-9.10	-2.05	-2.05	2.17	3.20	4.94	7.12	5.47	
Rank			87	74	75	75	68	N/A	N/A	N/A	52	
Wellington Intl Quality Growth (SA)	543,243,661	3.21	18.89	-1.96	6.46	6.46	8.88	N/A	N/A	N/A	11.40	06/01/2016
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.14	
Difference			2.77	9.04	11.26	11.26	7.75	N/A	N/A	N/A	6.26	
IM ACWI Ex US Growth (SA+CF) Median			20.11	-2.45	6.44	6.44	6.63	6.24	7.47	8.81	9.20	
Rank			66	44	50	50	18	N/A	N/A	N/A	17	
Advisory Research Intl Small Cap Equity (SA)	818,257	0.00	2.48	0.73	0.06	0.06	-0.92	2.22	4.76	N/A	6.93	12/01/2011
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75	
Difference			-13.64	11.73	4.86	4.86	-2.05	-0.04	1.05	N/A	2.18	
IM International Small Cap Core Equity (SA+CF) Median			21.28	-10.92	-2.17	-2.17	1.40	4.36	7.03	9.52	8.92	
Rank			100	11	35	35	74	81	98	N/A	100	
Epoch Intl Small Cap Equity (SA)	402,326	0.00	0.84	-0.28	-0.27	-0.27	0.30	2.33	4.85	N/A	6.53	12/01/2011
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75	
Difference			-15.28	10.72	4.53	4.53	-0.83	0.07	1.14	N/A	1.78	
IM International Small Cap Equity (SA+CF) Median			21.41	-12.08	-2.11	-2.11	1.30	3.88	6.64	9.32	8.79	
Rank			100	13	38	38	56	72	80	N/A	92	
Wellington International Small Cap Equity (CF)	232,638,774	1.38	19.34	-16.41	-8.14	-8.14	-4.24	-0.01	3.48	N/A	6.53	12/01/2011
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75	
Difference			3.22	-5.41	-3.34	-3.34	-5.37	-2.27	-0.23	N/A	1.78	
IM International Small Cap Equity (SA+CF) Median			21.41	-12.08	-2.11	-2.11	1.30	3.88	6.64	9.32	8.79	
Rank			70	82	81	81	87	91	90	N/A	92	

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Wasatch Small Cap Core Growth (SA)	241,326,469	1.43	34.35	3.23	12.40	12.40	17.23	13.65	14.37	N/A	17.14	12/01/2011	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.75		
Difference			18.23	14.23	17.20	17.20	16.10	11.39	10.66	N/A	12.39		
IM International Small Cap Growth Equity (SA+CF) Median			26.46	-3.18	5.87	5.87	5.16	6.50	7.29	10.13	9.18		
Rank			13	16	19	19	5	6	1	N/A	1		
SSGA Emerging Market Small Cap (CF)	241,040,944	1.43	24.04	-14.39	-10.42	-10.42	-2.72	N/A	N/A	N/A	1.00	08/01/2016	
MSCI Emg Mkts Sm Cap Index (USD) (Net)			27.14	-12.74	-8.82	-8.82	-2.95	-1.38	0.96	1.78	0.65		
Difference			-3.10	-1.65	-1.60	-1.60	0.23	N/A	N/A	N/A	0.35		
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	5.44		
Rank			28	76	77	77	83	N/A	N/A	N/A	88		
Fixed Income	3,676,098,558	21.75	6.13	7.15	10.59	10.59	6.75	5.91	5.68	6.22	6.89	07/01/2000	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.14		
Difference			3.23	1.01	1.85	1.85	1.43	1.61	1.72	2.40	1.75		
Loomis Sayles Multisector Full Discretion (SA)	955,104,213	5.65	11.21	6.18	9.11	9.11	5.63	4.93	4.86	5.63	6.32	07/01/1999	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.11		
Difference			8.31	0.04	0.37	0.37	0.31	0.63	0.90	1.81	1.21		
IM U.S. Broad Market Core+ Fixed Income (SA+CF) Median			5.90	5.29	8.22	8.22	5.50	4.80	4.56	4.90	5.93		
Rank			3	26	27	27	44	40	29	17	26		
Mackay Shields Core+ Extended Discretion (SA)	926,433,591	5.48	8.11	2.96	6.72	6.72	4.67	4.06	3.85	4.86	5.34	11/01/2004	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.38		
Difference			5.21	-3.18	-2.02	-2.02	-0.65	-0.24	-0.11	1.04	0.96		
IM U.S. Broad Market Core+ Fixed Income (SA+CF) Median			5.90	5.29	8.22	8.22	5.50	4.80	4.56	4.90	5.24		
Rank			18	81	74	74	82	87	90	53	43		
Lord Abbett Core Plus Full Discretion (SA)	910,468,486	5.39	6.70	1.75	4.37	4.37	4.16	3.93	4.02	4.55	5.28	11/01/2004	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.38		
Difference			3.80	-4.39	-4.37	-4.37	-1.16	-0.37	0.06	0.73	0.90		
IM U.S. Broad Market Core+ Fixed Income (SA+CF) Median			5.90	5.29	8.22	8.22	5.50	4.80	4.56	4.90	5.24		
Rank			36	86	89	89	88	90	87	73	50		
Hoisington Active Duration Long Bonds (SA)	884,092,268	5.23	-1.58	24.17	29.89	29.89	13.93	10.23	9.63	8.92	8.70	11/01/2004	
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.38		
Difference			-4.48	18.03	21.15	21.15	8.61	5.93	5.67	5.10	4.32		
IM U.S. Long Duration (SA+CF) Median			7.93	11.87	18.62	18.62	10.42	9.40	8.53	8.41	7.89		
Rank			100	1	1	1	1	5	4	21	10		

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Real Estate	1,202,980,216	7.12	-2.25	-1.48	-1.43	-1.43	4.99	7.22	8.48	N/A	8.00	04/01/2011
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	9.15	
Difference			-1.26	-1.19	-4.12	-4.12	-0.45	0.45	0.22	N/A	-1.15	
L&B Core Income Partners LP	92,027,546	0.54	-12.25	-4.96	-12.48	-12.48	-0.65	4.13	6.27	N/A	5.77	04/01/2011
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	9.03	
Difference			-10.50	-3.95	-13.81	-13.81	-5.37	-2.22	-1.82	N/A	-3.26	
Heitman America Real Estate (CF)	320,352,146	1.90	-1.85	-2.63	-0.70	-0.70	4.41	7.20	8.75	N/A	8.86	05/01/2011
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	9.03	
Difference			-0.10	-1.62	-2.03	-2.03	-0.31	0.85	0.66	N/A	-0.17	
AEW Core Property Trust (CF)	328,043,955	1.94	-1.02	-0.07	2.80	2.80	5.48	7.52	8.47	N/A	8.31	07/01/2011
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.77	
Difference			0.73	0.94	1.47	1.47	0.76	1.17	0.38	N/A	-0.46	
L&B Gloden Driller (SA)	74,735,022	0.44	-4.14	-4.13	-1.78	-1.78	11.09	7.67	N/A	N/A	5.99	07/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.49	
Difference			-2.39	-3.12	-3.11	-3.11	6.37	1.32	N/A	N/A	-1.50	
GreenOak US II LP	31,634,414	0.19	-5.79	-16.38	-16.76	-16.76	-1.90	1.24	N/A	N/A	1.15	10/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-4.04	-15.37	-18.09	-18.09	-6.62	-5.11	N/A	N/A	-6.12	
GreenOak US III LP	22,565,423	0.13	-9.23	-2.22	-9.54	-9.54	N/A	N/A	N/A	N/A	-18.87	05/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	3.82	
Difference			-7.48	-1.21	-10.87	-10.87	N/A	N/A	N/A	N/A	-22.69	
Lyrical-OTRS Realty Partner IV LP	66,539,641	0.39	2.48	2.48	7.31	7.31	15.62	6.79	N/A	N/A	5.97	11/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			4.23	3.49	5.98	5.98	10.90	0.44	N/A	N/A	-1.30	
Dune Real Estate III LP	52,985,110	0.31	-0.25	-1.07	-4.69	-4.69	7.29	9.64	N/A	N/A	9.28	11/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			1.50	-0.06	-6.02	-6.02	2.57	3.29	N/A	N/A	2.01	
Landmark Real Estate VII LP	13,377,154	0.08	-2.37	-2.37	-2.95	-2.95	1.61	9.72	N/A	N/A	13.49	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-0.62	-1.36	-4.28	-4.28	-3.11	3.37	N/A	N/A	6.22	
American Strategic Value Realty (CF)	72,135,357	0.43	1.83	4.50	8.86	8.86	9.56	11.05	N/A	N/A	10.55	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			3.58	5.51	7.53	7.53	4.84	4.70	N/A	N/A	3.28	

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Starwood Opportunity X LP	20,507,499	0.12	-3.68	-3.68	0.59	0.59	9.29	N/A	N/A	N/A	12.74	12/01/2015
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	5.94	
Difference			-1.93	-2.67	-0.74	-0.74	4.57	N/A	N/A	N/A	6.80	
Starwood Opportunity XI LP	20,008,953	0.12	2.29	2.29	12.50	12.50	N/A	N/A	N/A	N/A	28.41	07/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	3.37	
Difference			4.04	3.30	11.17	11.17	N/A	N/A	N/A	N/A	25.04	
FCP Realty IV LP	12,682,208	0.08	0.25	5.35	-6.87	-6.87	N/A	N/A	N/A	N/A	-24.08	12/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	2.77	
Difference			2.00	6.36	-8.20	-8.20	N/A	N/A	N/A	N/A	-26.85	
Harbert European Real Estate V LP	15,272,678	0.09	2.77	6.77	11.02	11.02	N/A	N/A	N/A	N/A	-13.12	12/01/2018
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	2.77	
Difference			4.52	7.78	9.69	9.69	N/A	N/A	N/A	N/A	-15.89	
Artemis Real Estate III LP	10,514,674	0.06	-2.74	3.76	3.91	3.91	N/A	N/A	N/A	N/A	-14.70	02/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	2.21	
Difference			-0.99	4.77	2.58	2.58	N/A	N/A	N/A	N/A	-16.91	
Angelo Gordon Value X LP	16,124,791	0.10	-6.56	-1.73	-22.22	-22.22	N/A	N/A	N/A	N/A	-20.70	06/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.68	
Difference			-4.81	-0.72	-23.55	-23.55	N/A	N/A	N/A	N/A	-22.38	
Dune Real Estate IV LP	12,492,937	0.07	-2.65	-3.47	N/A	N/A	N/A	N/A	N/A	N/A	-24.14	08/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.33	
Difference			-0.90	-2.46	N/A	N/A	N/A	N/A	N/A	N/A	-25.47	
Invesco Strategic Opportunity (CF)	13,680,708	0.08	101.55	101.57	N/A	N/A	N/A	N/A	N/A	N/A	101.57	09/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.33	
Difference			103.30	102.58	N/A	N/A	N/A	N/A	N/A	N/A	100.24	
Harvey Parkway Building (SA)	7,300,000	0.04	-44.36	-44.36	-44.36	-44.36	-16.79	N/A	N/A	N/A	-16.38	06/01/2017

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Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Asset Allocation & Performance - Gross of Fees

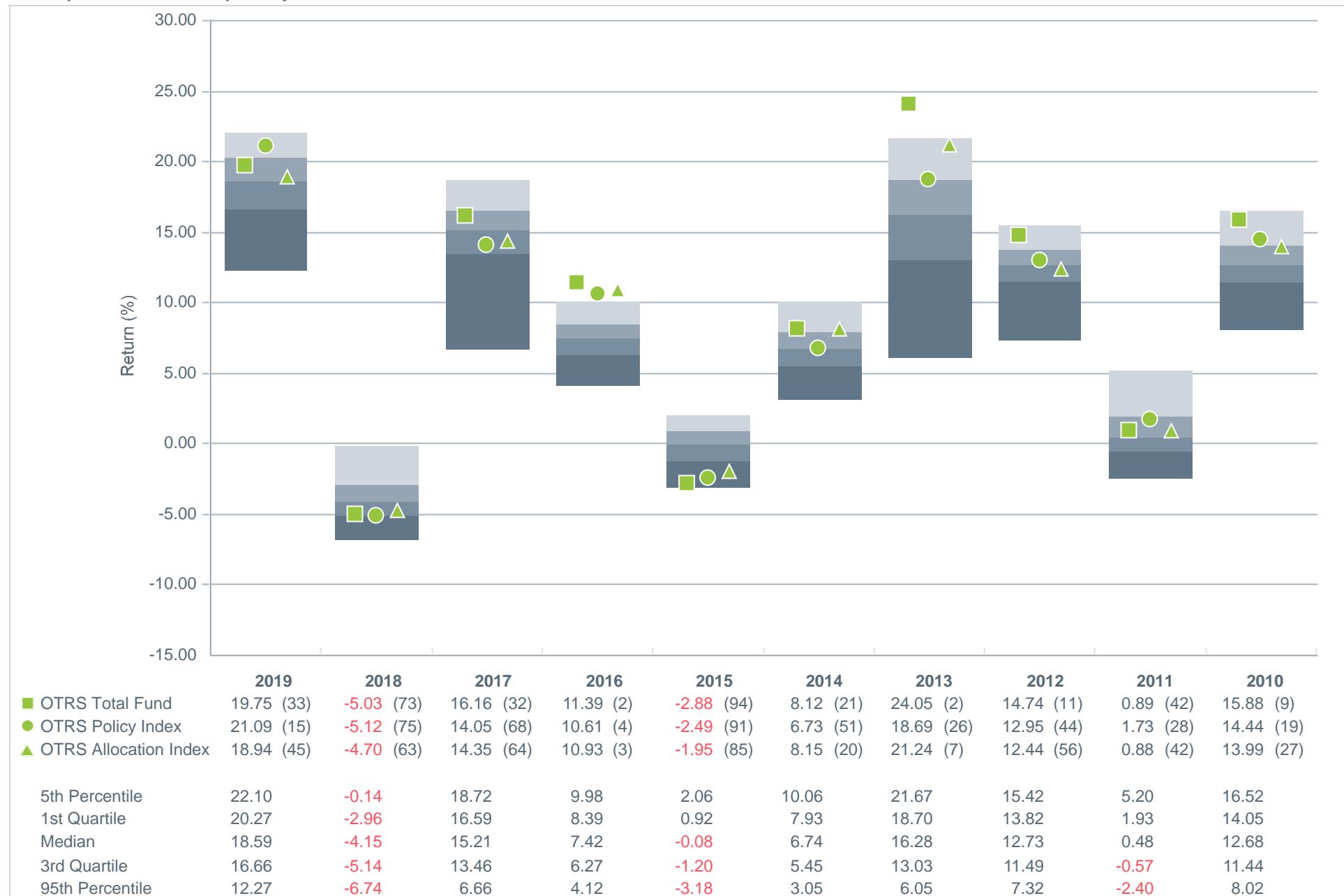
As of June 30, 2020

	Allocation						Performance (%)						Since Incep.	Inception Date
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years				
Private Equity	1,608,177,025	9.52	-3.35	-2.18	6.28	6.28	12.54	12.43	14.31	N/A	13.44	12/01/2010		
R 2000 Index+4%			26.65	-11.25	-2.89	-2.89	6.09	8.46	11.46	14.92	13.26			
Difference			-30.00	9.07	9.17	9.17	6.45	3.97	2.85	N/A	0.18			
OTRS/Legacy Private Equity LP	11,707,422	0.07	-5.06	-5.06	-5.51	-5.51	-4.46	0.94	3.65	4.61	3.62	10/01/2008		
OTRS/Franklin Park Private Equity LP	1,279,420,663	7.57	-0.37	1.26	11.23	11.23	15.72	14.81	15.98	N/A	5.20	06/01/2011		
PIMCO COF II LP	89,256,991	0.53	-15.05	-11.30	-8.11	-8.11	3.16	N/A	N/A	N/A	5.23	09/01/2016		
PIMCO Bravo LP	594,455	0.00	-51.39	-61.40	-70.56	-70.56	-30.28	-19.60	-9.09	N/A	-1.98	03/01/2011		
PIMCO Bravo II LP	53,467,606	0.32	-21.51	-18.28	-16.47	-16.47	-2.70	2.13	6.91	N/A	6.58	03/01/2013		
PIMCO Bravo III LP	173,729,888	1.03	10.55	4.46	10.87	10.87	12.53	N/A	N/A	N/A	10.66	03/01/2017		

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.



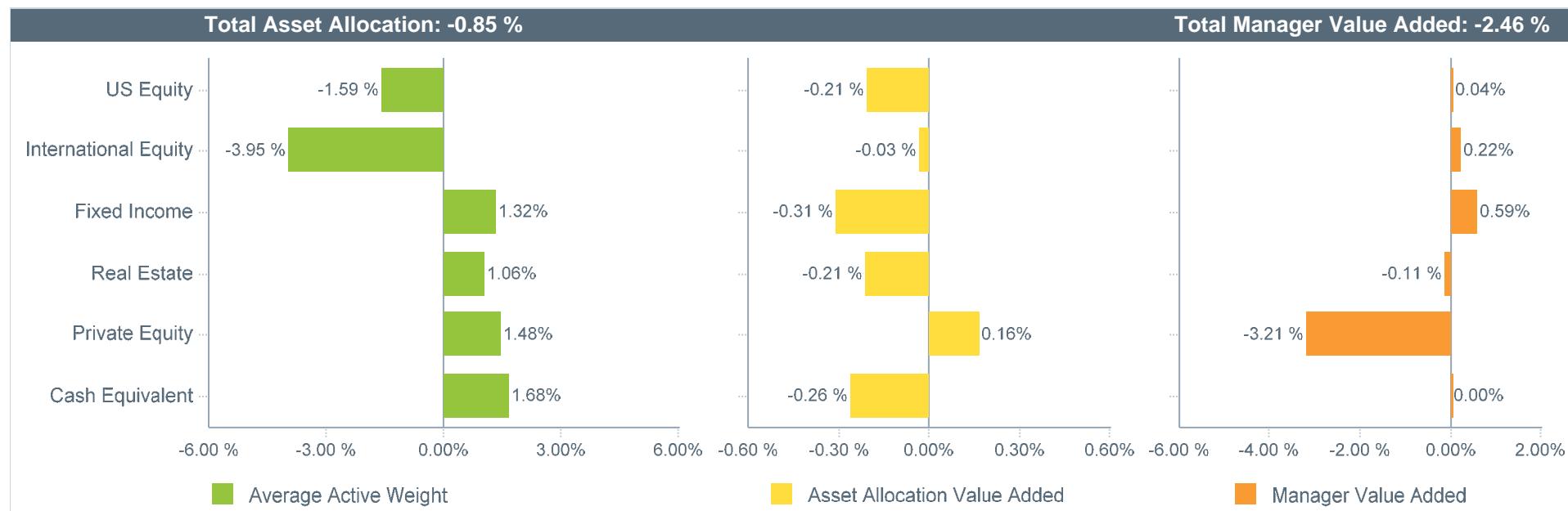
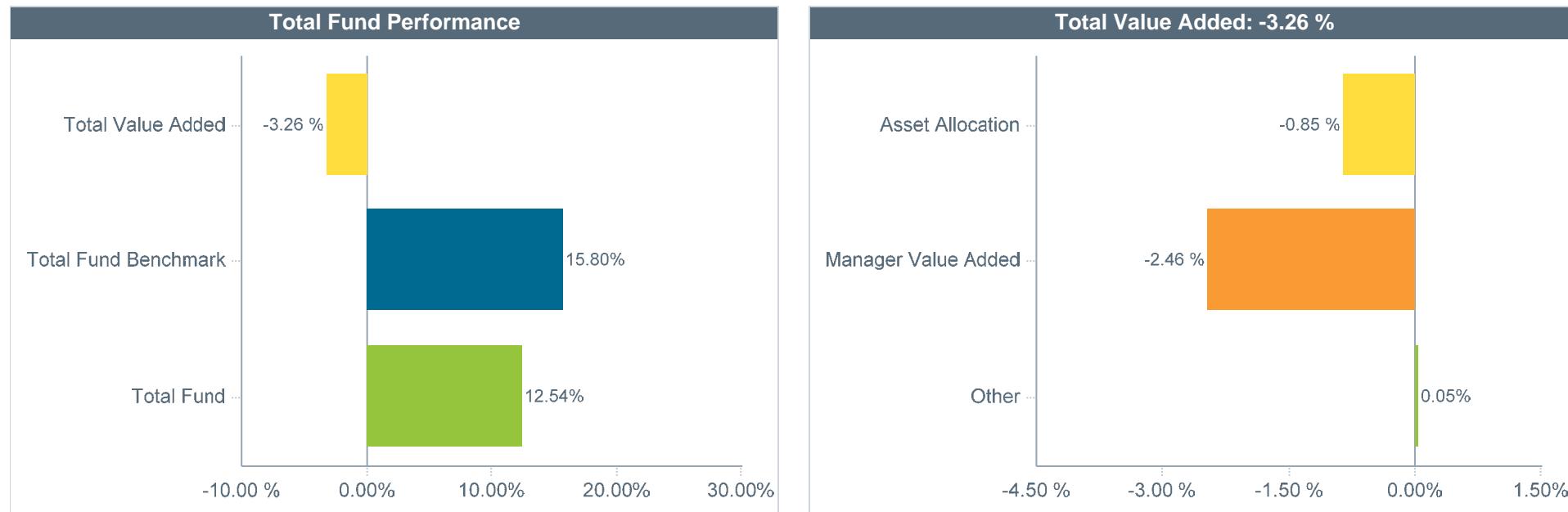
Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
Oklahoma State Pension Commission fiscal year begins on 07/01.



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

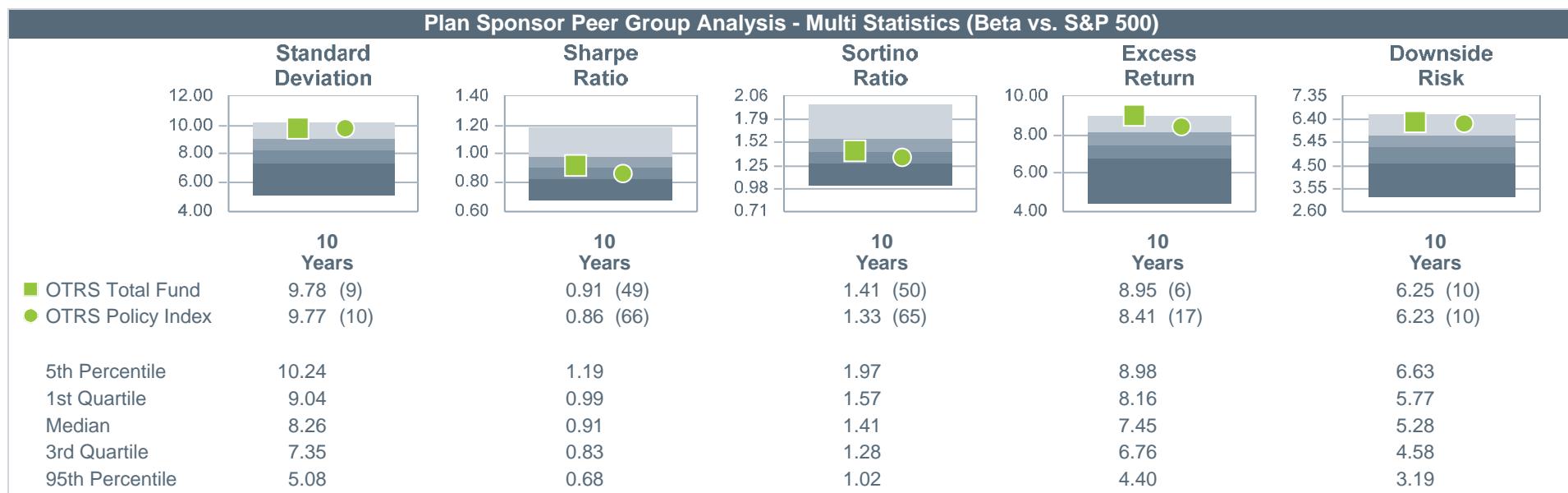
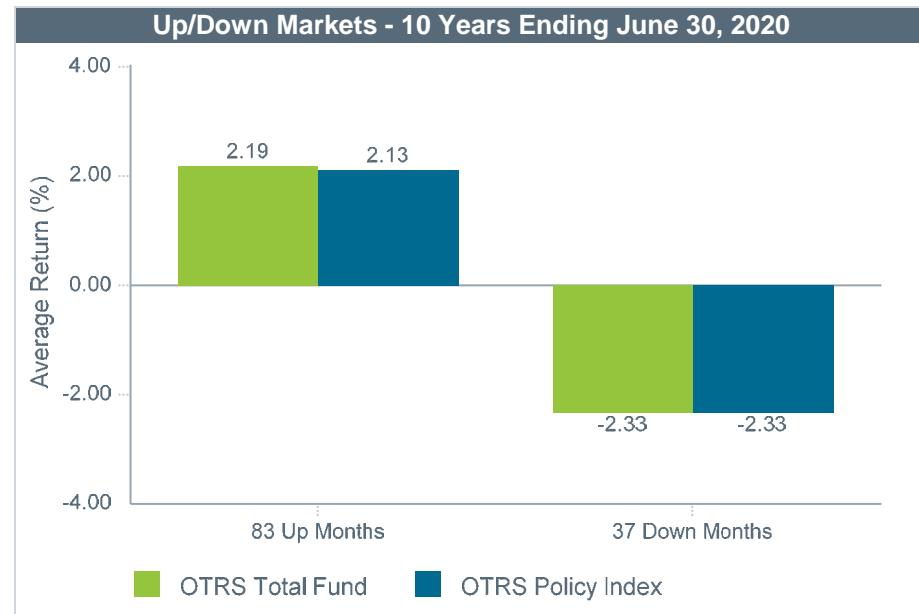
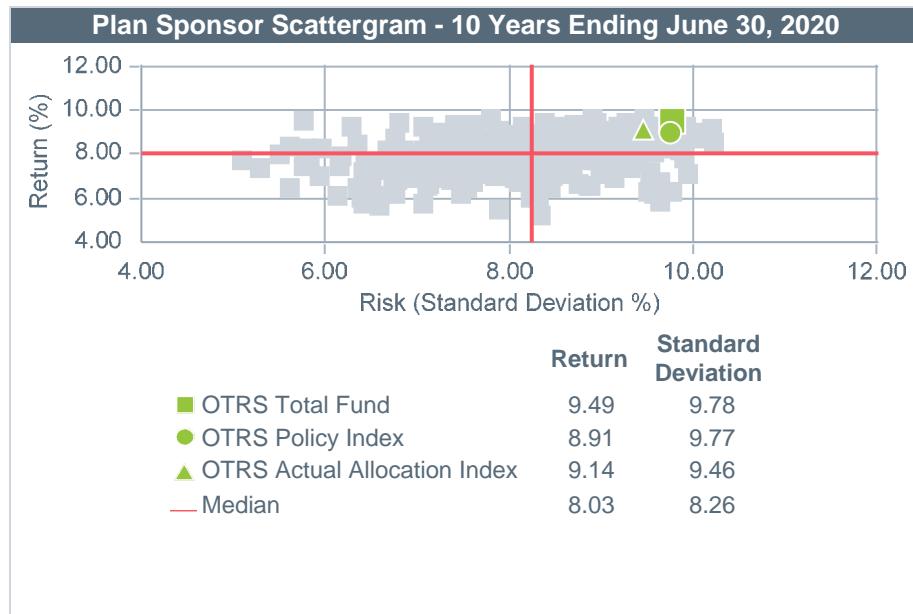
Oklahoma State Pension Commission
 Oklahoma Teachers' Retirement System
 Total Fund Attribution

Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation. Allocation to Private Equity includes Private Credit.

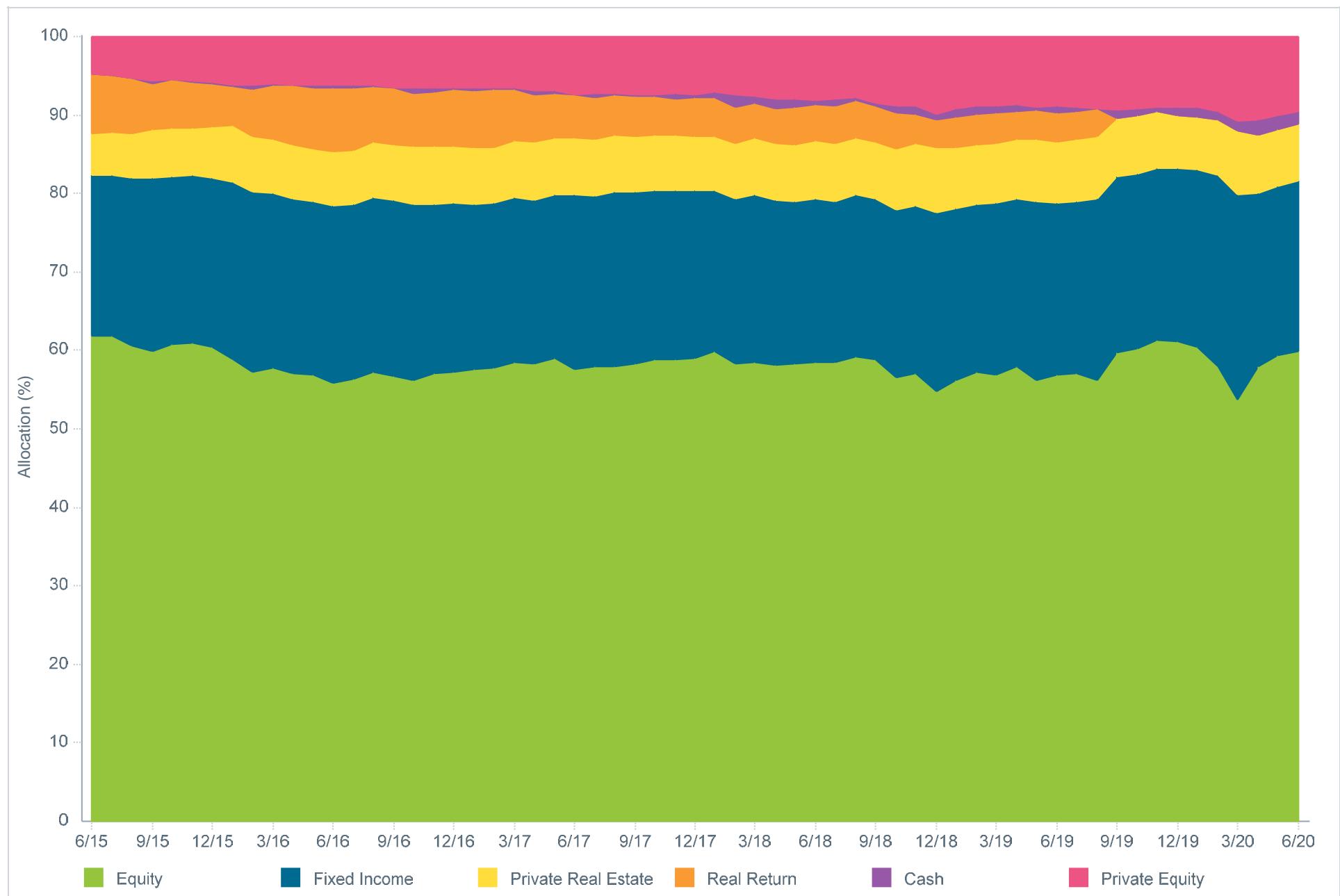
Total Fund Risk & Return, Up/Down Markets, and Multi Statistics



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Teachers' Retirement System
Historical Asset Allocation

5 Years Ending June 30, 2020



Oklahoma Public Employees Retirement System (OPERS)

	Performance (%)												
	Trailing						Calendar Year						
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015
OPERS Total Fund (Net)	14.05	-2.09	4.58	4.58	6.25	6.27	7.43	8.64	21.18	-6.60	16.98	7.64	-0.77
OPERS Policy Index	14.18	-2.06	4.72	4.72	6.50	6.55	7.46	8.57	21.46	-6.09	16.86	8.12	-0.89
Difference	-0.13	-0.03	-0.14	-0.14	-0.25	-0.28	-0.03	0.07	-0.28	-0.51	0.12	-0.48	0.12
OPERS Actual Allocation Index	13.37	-2.56	4.07	4.07	5.98	6.23	7.24	8.28	20.87	-6.49	16.51	8.09	-0.94
Difference	0.68	0.47	0.51	0.51	0.27	0.04	0.19	0.36	0.31	-0.11	0.47	-0.45	0.17
Actuarial Discount Rate (7.0%)	1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference	12.34	-5.53	-2.42	-2.42	-0.75	-0.73	0.43	1.64	14.18	-13.60	9.98	0.64	-7.77
OPERS Total Fund (Gross)	14.07	-2.06	4.71	4.71	6.36	6.36	7.49	8.71	21.34	-6.51	17.11	7.67	-0.77
OPERS Policy Index	14.18	-2.06	4.72	4.72	6.50	6.55	7.46	8.57	21.46	-6.09	16.86	8.12	-0.89
Difference	-0.11	0.00	-0.01	-0.01	-0.14	-0.19	0.03	0.14	-0.12	-0.42	0.25	-0.45	0.12
OPERS Actual Allocation Index	13.37	-2.56	4.07	4.07	5.98	6.23	7.24	8.28	20.87	-6.49	16.51	8.09	-0.94
Difference	0.70	0.50	0.64	0.64	0.38	0.13	0.25	0.43	0.47	-0.02	0.60	-0.42	0.17
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08
Rank	20	38	24	24	29	27	23	26	12	93	16	42	66
Asset Allocation vs. Target Allocation						Asset Allocation vs. Target Allocation Difference							
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)										
OPERS (Public Employees)	10,082,562,274	100.00	100.00										
US Large Cap Equity	3,442,917,607	34.15	34.00										
US Small Cap Equity	591,424,525	5.87	6.00										
International Equity	2,653,877,564	26.32	28.00										
Fixed Income	3,360,355,456	33.33	32.00										
Real Estate	10,160,000	0.10	0.00										
Cash Equivalent	23,827,121	0.24	0.00										

Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.



Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OPERS Total Fund	10,082,562,274	100.00	14.05	-2.09	4.58	4.58	6.25	6.27	7.43	8.64	7.24	06/01/1985
OPERS Policy Index			14.18	-2.06	4.72	4.72	6.50	6.55	7.46	8.57	9.04	
Difference			-0.13	-0.03	-0.14	-0.14	-0.25	-0.28	-0.03	0.07	-1.80	
OPERS Actual Allocation Index			13.37	-2.56	4.07	4.07	5.98	6.23	7.24	8.28	8.61	
Difference			0.68	0.47	0.51	0.51	0.27	0.04	0.19	0.36	-1.37	
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	
Difference			12.34	-5.53	-2.42	-2.42	-0.75	-0.73	0.43	1.64	0.24	
US Equity	4,034,342,132	40.01	23.00	-4.52	4.36	4.36	8.86	8.97	11.01	13.35	4.27	09/01/1988
OPERS US Equity Custom Index			22.27	-4.08	5.68	5.68	9.58	9.73	11.46	13.57	10.41	
Difference			0.73	-0.44	-1.32	-1.32	-0.72	-0.76	-0.45	-0.22	-6.14	
AJO Large Cap Absolute Value Equity (SA)	266,924,286	2.65	15.83	-17.73	-12.55	-12.55	-0.04	1.94	5.72	9.78	7.25	10/01/2003
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	7.50	
Difference			1.54	-1.47	-3.71	-3.71	-1.86	-2.70	-1.39	-0.63	-0.25	
Mellon EB DV Large Cap Stock Index (SA)	577,003,342	5.72	22.35	-3.46	5.08	5.08	7.77	8.03	10.30	13.23	8.09	06/01/2004
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	8.92	
Difference			0.53	-0.65	-2.40	-2.40	-2.87	-2.44	-1.73	-0.74	-0.83	
Blackrock Russell 1000 Index (SA)	1,699,762,780	16.86	21.83	-2.77	7.54	7.54	10.66	10.49	12.05	13.85	9.84	01/01/2003
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	9.89	
Difference			0.01	0.04	0.06	0.06	0.02	0.02	0.02	-0.12	-0.05	
State Street Large Cap Enhanced Index (SA)	566,058,520	5.61	20.63	-4.86	5.63	5.63	9.56	9.83	11.86	14.06	8.70	09/01/2004
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	9.15	
Difference			-1.19	-2.05	-1.85	-1.85	-1.08	-0.64	-0.17	0.09	-0.45	
Westfield Large Cap Growth Equity (CF)	333,168,680	3.30	26.96	8.69	21.38	21.38	17.88	N/A	N/A	N/A	19.34	01/01/2017
Russell 1000 Grth Index			27.84	9.81	23.28	23.28	18.99	15.89	16.62	17.23	20.50	
Difference			-0.88	-1.12	-1.90	-1.90	-1.11	N/A	N/A	N/A	-1.16	
BHMS Small Cap Value Equity (SA)	190,749,635	1.89	28.41	-14.65	-6.87	-6.87	0.02	3.43	6.44	10.65	8.48	12/01/2004
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	5.00	
Difference			9.50	8.85	10.61	10.61	4.37	2.17	2.46	2.83	3.48	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
UBS US Small Cap Growth Equity (SA)	231,593,721	2.30	41.75	9.33	10.05	10.05	14.59	9.15	12.37	15.82	10.89	06/01/2003
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	9.86	
Difference			11.17	12.39	6.57	6.57	6.73	2.29	2.34	2.90	1.03	
DePrince Race & Zollo Micro Cap Value (SA)	169,081,170	1.68	21.66	-22.88	-18.03	-18.03	-1.64	2.08	4.86	N/A	6.61	01/01/2011
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	5.60	
Difference			2.75	0.62	-0.55	-0.55	2.71	0.82	0.88	N/A	1.01	
International Equity	2,653,877,564	26.32	16.77	-10.30	-3.31	-3.31	1.81	2.94	4.26	5.62	3.22	04/01/1994
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	N/A	
Difference			0.65	0.70	1.49	1.49	0.68	0.68	0.55	0.65	N/A	
Blackrock ACWI Ex US Index (CF)	1,385,479,591	13.74	16.24	-10.85	-4.59	-4.59	1.40	2.51	3.95	5.22	4.21	10/01/2009
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	3.84	
Difference			0.12	0.15	0.21	0.21	0.27	0.25	0.24	0.25	0.37	
Baille Gifford International Growth Equity (CF)	400,410,942	3.97	26.40	1.77	13.45	13.45	7.58	7.54	N/A	N/A	6.80	09/01/2013
MSCI ACW Ex US Grth Index (USD) (Net)			19.11	-2.62	5.80	5.80	6.07	5.61	6.32	7.04	6.15	
Difference			7.29	4.39	7.65	7.65	1.51	1.93	N/A	N/A	0.65	
Blackrock ACWI Ex US Growth (CF)	335,223,352	3.32	17.58	-5.81	1.38	1.38	4.67	4.77	5.59	6.55	5.67	10/01/2009
MSCI ACW Ex US Grth Index (USD) (Net)			19.11	-2.62	5.80	5.80	6.07	5.61	6.32	7.04	6.04	
Difference			-1.53	-3.19	-4.42	-4.42	-1.40	-0.84	-0.73	-0.49	-0.37	
Mondrian ACWI ex US Equity (SA)	532,763,679	5.28	11.16	-18.70	-12.56	-12.56	-2.41	-0.04	2.11	4.33	5.68	08/01/2001
MSCI ACW Ex US Val Index (USD) (Net)			12.76	-19.43	-15.26	-15.26	-3.95	-1.25	0.94	2.79	4.41	
Difference			-1.60	0.73	2.70	2.70	1.54	1.21	1.17	1.54	1.27	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Fixed Income	3,360,355,456	33.33	3.45	8.60	11.64	11.64	6.61	5.19	4.77	4.78	3.82	04/01/1989
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	6.29	
Difference			0.55	2.46	2.90	2.90	1.29	0.89	0.81	0.96	-2.47	
Blackrock Constrained Core Fixed Income (SA)	1,611,160,281	15.98	4.11	6.70	9.49	9.49	5.65	4.61	4.26	4.16	5.33	06/01/2000
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.22	
Difference			1.21	0.56	0.75	0.75	0.33	0.31	0.30	0.34	0.11	
MetWest Core Plus Fixed Income (SA)	1,014,732,455	10.06	4.15	6.97	9.68	9.68	6.01	4.69	4.36	4.68	5.89	09/01/2001
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.68	
Difference			1.25	0.83	0.94	0.94	0.69	0.39	0.40	0.86	1.21	
Hoisington Long Duration Fixed Income (SA)	382,220,740	3.79	-1.55	23.63	29.11	29.11	13.55	10.12	9.67	8.82	6.02	10/01/1991
Bloomberg US Trsy Lng Trm Bond Index			0.25	21.20	25.40	25.40	12.04	9.26	8.40	7.74	8.17	
Difference			-1.80	2.43	3.71	3.71	1.51	0.86	1.27	1.08	-2.15	
Blackrock TIPS (SA)	352,241,980	3.49	4.42	6.12	8.42	8.42	5.19	3.92	3.20	3.64	3.84	03/01/2010
Bloomberg US Trsy US TIPS Index			4.24	6.01	8.28	8.28	5.05	3.75	3.05	3.52	3.79	
Difference			0.18	0.11	0.14	0.14	0.14	0.17	0.15	0.12	0.05	
Real Estate	10,160,000	0.10	-11.60	-10.16	-6.33	-6.33	-4.47	-0.87	N/A	N/A	-0.73	07/01/2014
NCREIF ODCE Index (EWA) (Net)			-1.47	-0.77	1.70	1.70	5.09	6.72	8.34	9.95	7.85	
Difference			-10.13	-9.39	-8.03	-8.03	-9.56	-7.59	N/A	N/A	-8.58	
Grand Centre (CF)	10,160,000	0.10	-11.60	-10.16	-6.33	-6.33	-4.47	N/A	N/A	N/A	-0.95	12/01/2015
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	5.94	
Difference			-9.85	-9.15	-7.66	-7.66	-9.19	N/A	N/A	N/A	-6.89	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

**Oklahoma State Pension Commission
Oklahoma Public Employees Retirement System
Asset Allocation & Performance - Gross of Fees**

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OPERS Total Fund	10,082,562,274	100.00	14.07	-2.06	4.71	4.71	6.36	6.36	7.49	8.71	8.96	06/01/1985
OPERS Policy Index			14.18	-2.06	4.72	4.72	6.50	6.55	7.46	8.57	9.04	
Difference			-0.11	0.00	-0.01	-0.01	-0.14	-0.19	0.03	0.14	-0.08	
OPERS Actual Allocation Index			13.37	-2.56	4.07	4.07	5.98	6.23	7.24	8.28	8.61	
Difference			0.70	0.50	0.64	0.64	0.38	0.13	0.25	0.43	0.35	
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference			12.36	-5.50	-2.29	-2.29	-0.64	-0.64	0.49	1.71	1.96	
All Public Plans-Total Fund Median			12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.60	
Rank			20	38	24	24	29	27	23	26	21	
US Equity	4,034,342,132	40.01	23.01	-4.50	4.55	4.55	8.98	9.09	11.12	13.45	9.98	09/01/1988
OPERS US Equity Custom Index			22.27	-4.08	5.68	5.68	9.58	9.73	11.46	13.57	10.41	
Difference			0.74	-0.42	-1.13	-1.13	-0.60	-0.64	-0.34	-0.12	-0.43	
All Public Plans-US Equity Segment Median			21.87	-4.86	4.26	4.26	8.72	8.91	10.68	13.15	N/A	
Rank			29	40	42	42	44	42	36	38	N/A	
AJO Large Cap Absolute Value Equity (SA)	266,924,286	2.65	15.83	-17.73	-12.55	-12.55	-0.03	2.03	5.81	9.86	7.30	10/01/2003
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	7.50	
Difference			1.54	-1.47	-3.71	-3.71	-1.85	-2.61	-1.30	-0.55	-0.20	
IM U.S. Large Cap Value Equity (SA+CF) Median			16.98	-14.65	-6.61	-6.61	3.16	5.32	7.80	10.96	8.45	
Rank			61	78	90	90	82	93	88	82	87	
Mellon EB DV Large Cap Stock Index (SA)	577,003,342	5.72	22.35	-3.46	5.08	5.08	7.79	8.04	10.32	13.25	8.12	06/01/2004
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	8.92	
Difference			0.53	-0.65	-2.40	-2.40	-2.85	-2.43	-1.71	-0.72	-0.80	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	9.20	
Rank			21	42	53	53	71	76	79	70	89	
BlackRock Russell 1000 Index (SA)	1,699,762,780	16.86	21.83	-2.77	7.55	7.55	10.66	10.49	12.05	13.86	9.85	01/01/2003
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	9.89	
Difference			0.01	0.04	0.07	0.07	0.02	0.02	0.02	-0.11	-0.04	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	10.07	
Rank			27	33	29	29	36	35	42	49	60	
State Street Large Cap Enhanced Index (SA)	566,058,520	5.61	20.64	-4.85	5.65	5.65	9.59	9.86	11.89	14.09	8.76	09/01/2004
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	9.15	
Difference			-1.18	-2.04	-1.83	-1.83	-1.05	-0.61	-0.14	0.12	-0.39	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	9.43	
Rank			42	55	47	47	51	49	46	38	80	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)									Since Incep.	Inception Date
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years				
Westfield Large Cap Growth Equity (CF)	333,168,680	3.30	26.98	8.75	21.46	21.46	18.14	N/A	N/A	N/A	19.57	01/01/2017		
Russell 1000 Grth Index			27.84	9.81	23.28	23.28	18.99	15.89	16.62	17.23	20.50			
Difference			-0.86	-1.06	-1.82	-1.82	-0.85	N/A	N/A	N/A	-0.93			
IM U.S. Large Cap Growth Equity (SA+CF) Median			26.58	8.79	19.56	19.56	17.42	14.27	15.77	16.61	19.23			
Rank			45	51	39	39	43	N/A	N/A	N/A	47			
BHMS Small Cap Value Equity (SA)	190,749,635	1.89	28.58	-14.41	-6.36	-6.36	0.56	3.93	6.94	11.16	8.95	12/01/2004		
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	5.00			
Difference			9.67	9.09	11.12	11.12	4.91	2.67	2.96	3.34	3.95			
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	7.22			
Rank			10	14	13	13	20	23	20	15	14			
UBS US Small Cap Growth Equity (SA)	231,593,721	2.30	41.81	9.42	11.47	11.47	15.20	9.76	12.98	16.36	11.26	06/01/2003		
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	9.86			
Difference			11.23	12.48	7.99	7.99	7.34	2.90	2.95	3.44	1.40			
IM U.S. Small Cap Growth Equity (SA+CF) Median			32.78	1.16	5.99	5.99	12.27	10.20	12.31	15.04	12.16			
Rank			16	27	35	35	38	53	40	26	69			
DePrince Race & Zollo Micro Cap Value (SA)	169,081,170	1.68	21.80	-22.72	-16.82	-16.82	-0.93	2.76	5.49	N/A	7.22	01/01/2011		
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	5.60			
Difference			2.89	0.78	0.66	0.66	3.42	1.50	1.51	N/A	1.62			
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	7.17			
Rank			44	61	62	62	31	36	46	N/A	48			
International Equity	2,653,877,564	26.32	16.79	-10.25	-3.22	-3.22	1.93	3.08	4.40	5.77	5.46	04/01/1994		
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	N/A			
Difference			0.67	0.75	1.58	1.58	0.80	0.82	0.69	0.80	N/A			
All Public Plans-Intl. Equity Segment Median			17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	N/A			
Rank			67	54	52	52	59	57	79	78	N/A			
Blackrock ACWI Ex US Index (CF)	1,385,479,591	13.74	16.24	-10.85	-4.59	-4.59	1.41	2.54	3.98	5.26	4.24	10/01/2009		
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	3.84			
Difference			0.12	0.15	0.21	0.21	0.28	0.28	0.27	0.29	0.40			
IM ACWI Ex US Core (SA+CF) Median			17.29	-8.49	-0.88	-0.88	2.26	3.16	4.64	6.34	5.80			
Rank			65	67	72	72	67	67	78	97	92			
Baile Gifford International Growth Equity (CF)	400,410,942	3.97	26.47	1.86	13.66	13.66	7.93	7.85	N/A	N/A	7.06	09/01/2013		
MSCI ACW Ex US Grth Index (USD) (Net)			19.11	-2.62	5.80	5.80	6.07	5.61	6.32	7.04	6.15			
Difference			7.36	4.48	7.86	7.86	1.86	2.24	N/A	N/A	0.91			
IM ACWI Ex US Growth (SA+CF) Median			20.11	-2.45	6.44	6.44	6.63	6.24	7.47	8.81	7.11			
Rank			8	20	13	13	35	29	N/A	N/A	54			

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Blackrock ACWI Ex US Growth (CF)	335,223,352	3.32	17.58	-5.81	1.40	1.40	4.71	4.82	5.64	6.59	5.71	10/01/2009
MSCI ACW Ex US Grth Index (USD) (Net)			19.11	-2.62	5.80	5.80	6.07	5.61	6.32	7.04	6.04	
Difference			-1.53	-3.19	-4.40	-4.40	-1.36	-0.79	-0.68	-0.45	-0.33	
IM ACWI Ex US Growth (SA+CF) Median			20.11	-2.45	6.44	6.44	6.63	6.24	7.47	8.81	7.72	
Rank			85	74	76	76	74	69	83	92	95	
Mondrian ACWI ex US Equity (SA)	532,763,679	5.28	11.27	-18.55	-12.31	-12.31	-2.07	0.31	2.45	4.68	5.95	08/01/2001
MSCI ACW Ex US Val Index (USD) (Net)			12.76	-19.43	-15.26	-15.26	-3.95	-1.25	0.94	2.79	4.41	
Difference			-1.49	0.88	2.95	2.95	1.88	1.56	1.51	1.89	1.54	
IM ACWI Ex US Value (SA+CF) Median			16.19	-14.86	-8.60	-8.60	-0.76	1.20	3.46	5.94	5.82	
Rank			91	74	78	78	68	69	75	71	47	
Fixed Income	3,360,355,456	33.33	3.48	8.64	11.75	11.75	6.70	5.28	4.86	4.85	7.07	04/01/1989
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	6.29	
Difference			0.58	2.50	3.01	3.01	1.38	0.98	0.90	1.03	0.78	
Blackrock Constrained Core Fixed Income (SA)	1,611,160,281	15.98	4.15	6.75	9.57	9.57	5.73	4.70	4.35	4.25	5.40	06/01/2000
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.22	
Difference			1.25	0.61	0.83	0.83	0.41	0.40	0.39	0.43	0.18	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			4.42	6.24	8.93	8.93	5.57	4.70	4.41	4.34	5.60	
Rank			56	31	27	27	40	51	52	57	76	
MetWest Core Plus Fixed Income (SA)	1,014,732,455	10.06	4.16	6.99	9.78	9.78	6.07	4.76	4.47	4.79	5.97	09/01/2001
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.68	
Difference			1.26	0.85	1.04	1.04	0.75	0.46	0.51	0.97	1.29	
IM U.S. Broad Market Core+ Fixed Income (SA+CF) Median			5.90	5.29	8.22	8.22	5.50	4.80	4.56	4.90	5.59	
Rank			87	11	14	14	14	54	58	58	23	
Hoisington Long Duration Fixed Income (SA)	382,220,740	3.79	-1.52	23.71	29.28	29.28	13.71	10.27	9.83	8.97	9.12	10/01/1991
Bloomberg US Trsy Lng Trm Bond Index			0.25	21.20	25.40	25.40	12.04	9.26	8.40	7.74	8.17	
Difference			-1.77	2.51	3.88	3.88	1.67	1.01	1.43	1.23	0.95	
IM U.S. Long Duration (SA+CF) Median			7.93	11.87	18.62	18.62	10.42	9.40	8.53	8.41	N/A	
Rank			100	1	1	1	1	4	3	15	N/A	
Blackrock TIPS (SA)	352,241,980	3.49	4.42	6.12	8.43	8.43	5.21	3.94	3.21	3.66	3.85	03/01/2010
Bloomberg US Trsy US TIPS Index			4.24	6.01	8.28	8.28	5.05	3.75	3.05	3.52	3.79	
Difference			0.18	0.11	0.15	0.15	0.16	0.19	0.16	0.14	0.06	
IM U.S. TIPS (SA+CF) Median			4.28	5.90	8.22	8.22	5.06	3.75	3.05	3.53	3.80	
Rank			30	23	21	21	20	23	22	29	32	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation						Performance (%)						Since Incep.	Inception Date
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years				
Real Estate	10,160,000	0.10	-11.60	-10.16	-6.33	-6.33	-4.47	-0.87	N/A	N/A	-0.73	07/01/2014		
NCREIF ODCE Index (EWA) (Net)			-1.47	-0.77	1.70	1.70	5.09	6.72	8.34	9.95	7.85			
Difference			-10.13	-9.39	-8.03	-8.03	-9.56	-7.59	N/A	N/A	-8.58			
Grand Centre (CF)	10,160,000	0.10	-11.60	-10.16	-6.33	-6.33	-4.47	N/A	N/A	N/A	-0.95	12/01/2015		
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	5.94			
Difference			-9.85	-9.15	-7.66	-7.66	-9.19	N/A	N/A	N/A	-6.89			

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

As of June 30, 2020



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
 Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

As of June 30, 2020

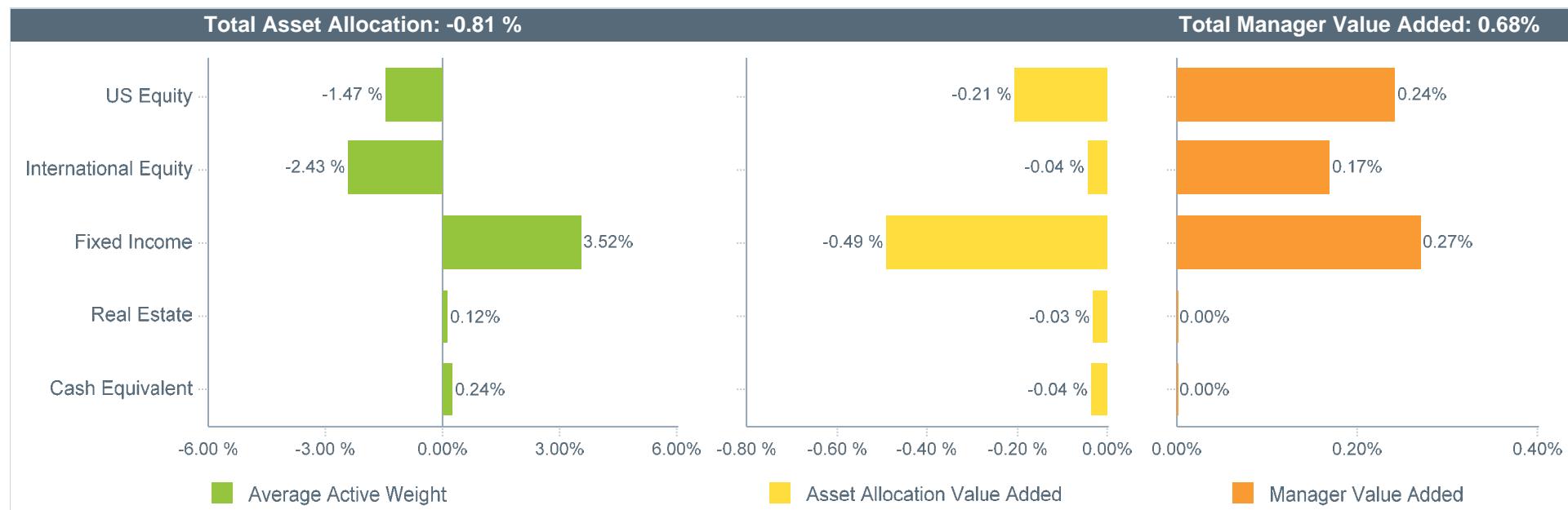
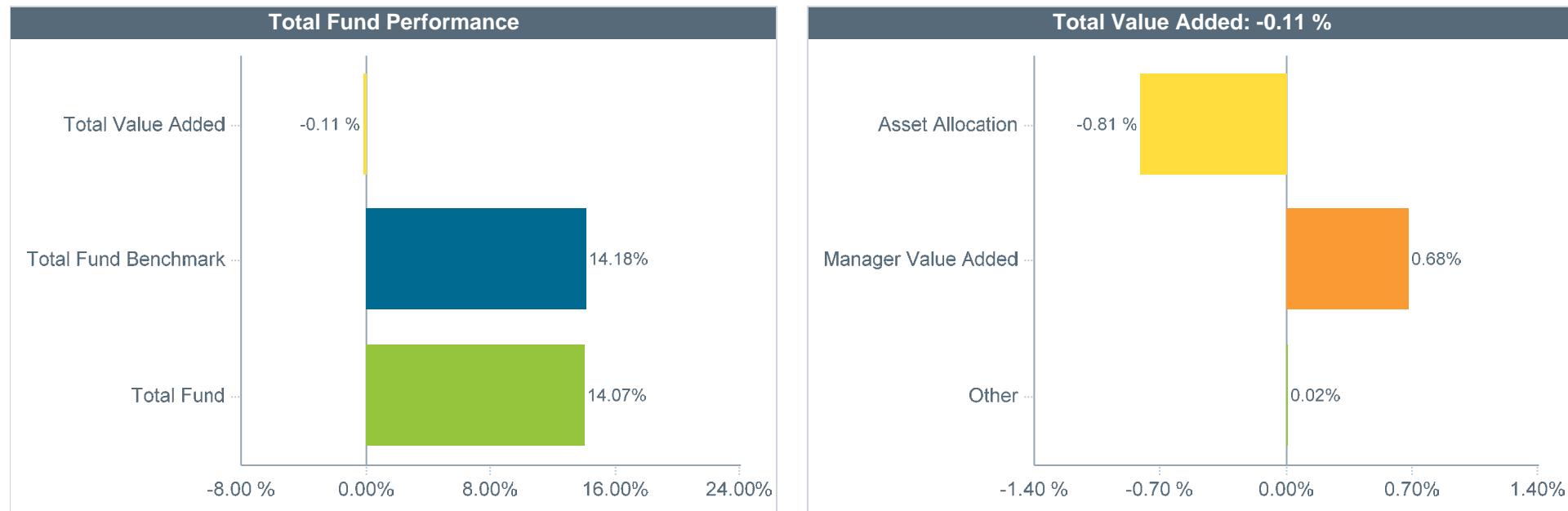


Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.



Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Total Fund Attribution

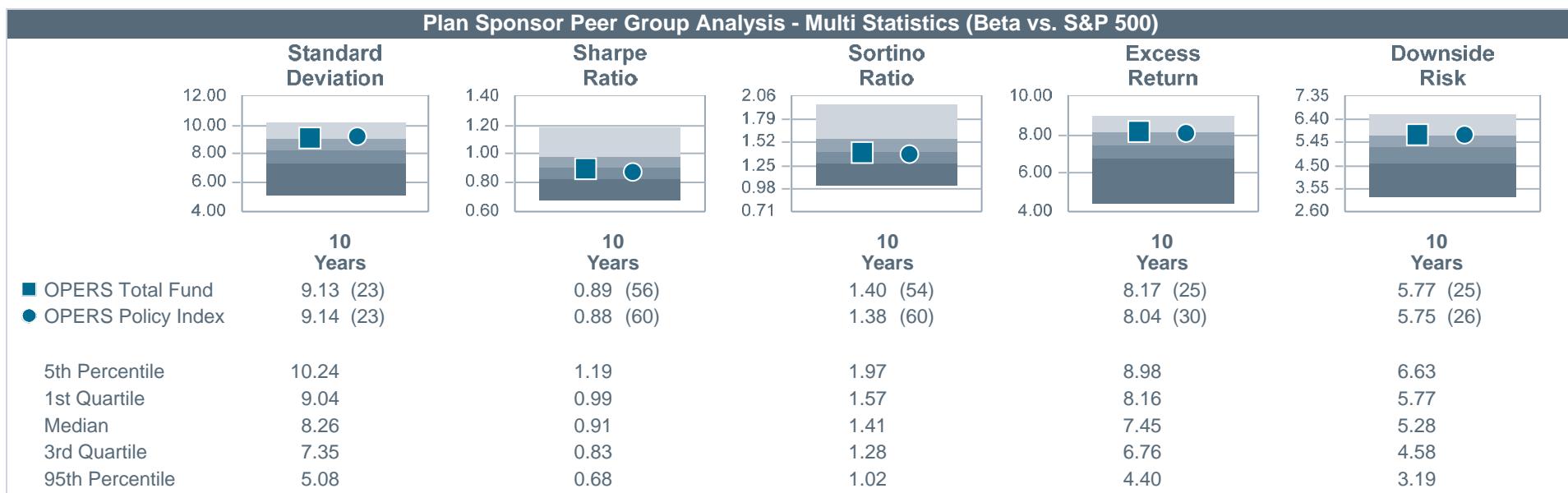
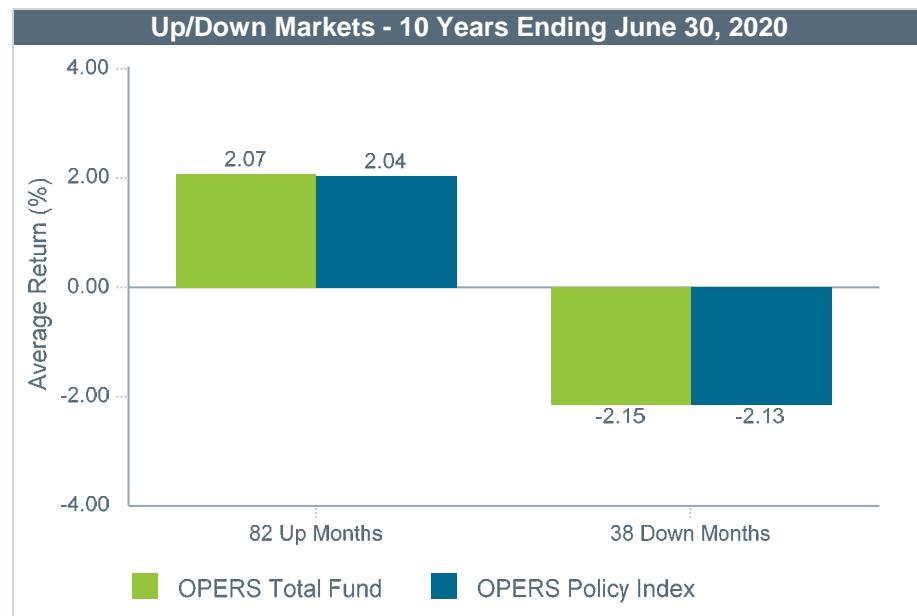
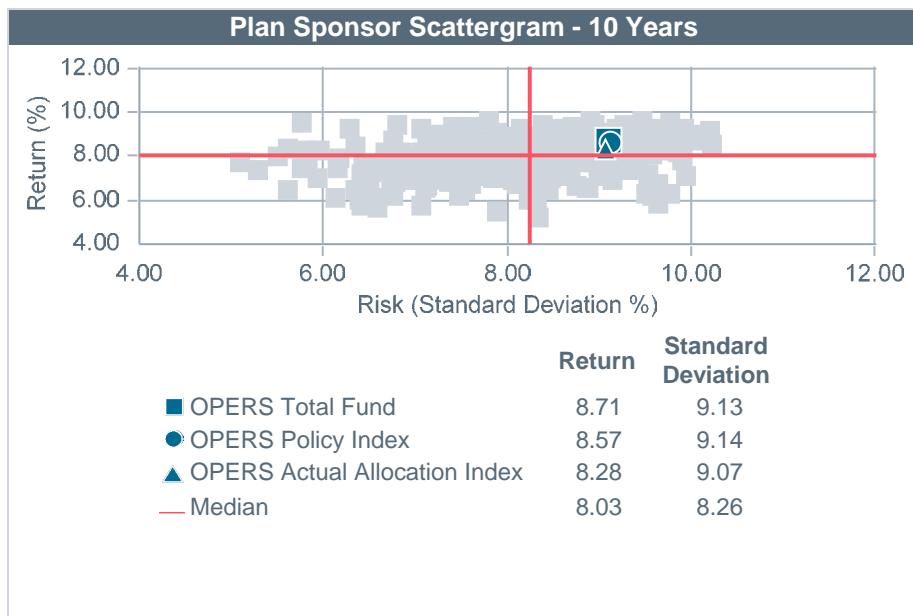
Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation.

Oklahoma State Pension Commission
 Oklahoma Public Employees Retirement System
 Total Fund Risk & Return, Up/Down Markets, and Multi Statistics

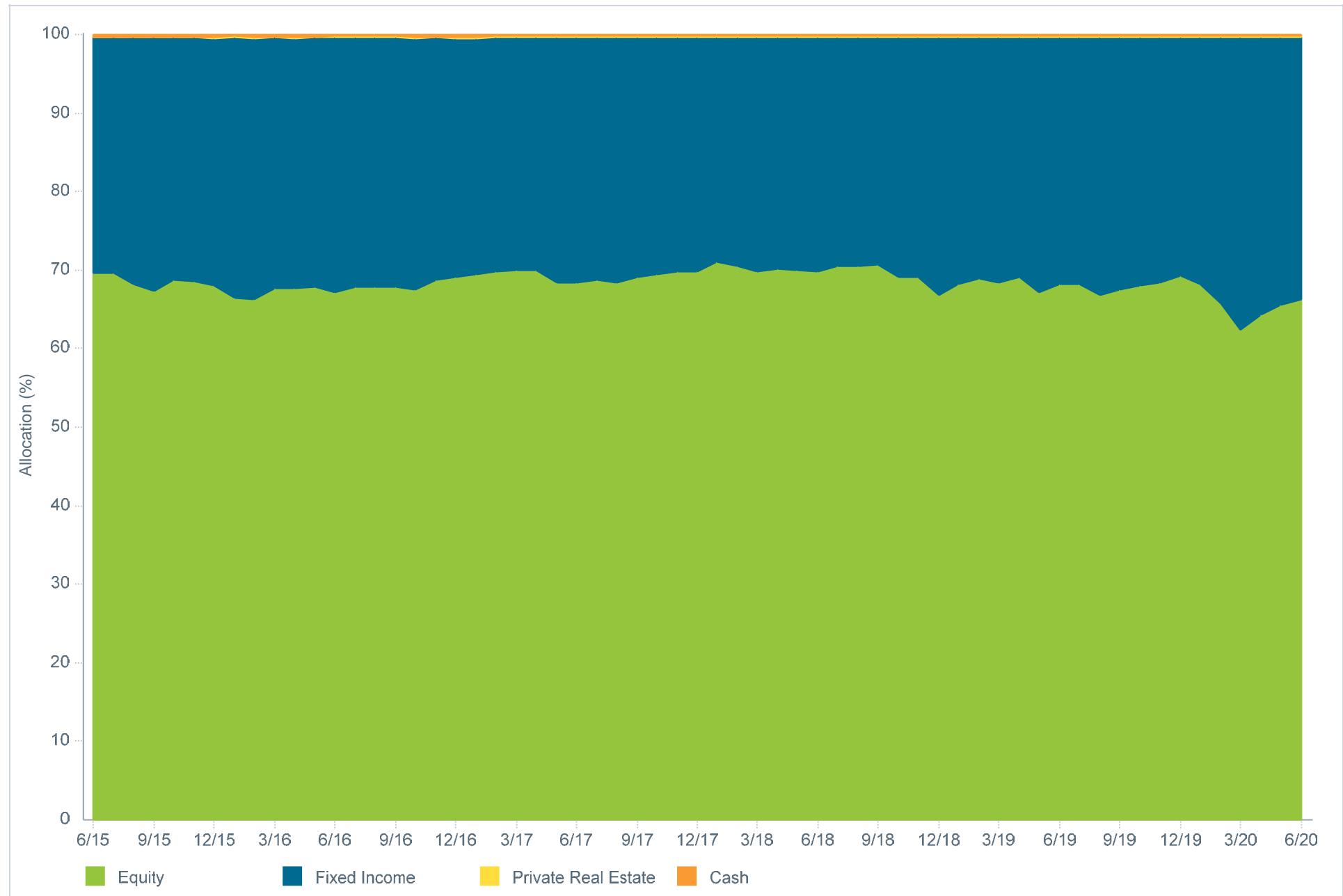
As of June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Public Employees Retirement System
Historical Asset Allocation

5 Years Ending June 30, 2020



Oklahoma Firefighters Pension & Retirement System (OFPERS)

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Total Fund Summary

As of June 30, 2020

	Performance (%)												
	Trailing						Calendar Year						
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015
OFPRS Total Fund (Net)	12.52	-2.07	3.46	3.46	7.62	7.57	8.72	9.64	20.17	-2.39	18.70	7.32	2.10
OFPRS Policy Index	12.98	-3.11	3.92	3.92	6.92	7.41	8.48	9.83	21.76	-3.80	16.41	8.76	1.60
Difference	-0.46	1.04	-0.46	-0.46	0.70	0.16	0.24	-0.19	-1.59	1.41	2.29	-1.44	0.50
OFPRS Actual Allocation Index	12.92	-1.97	4.62	4.62	6.98	7.03	8.07	9.44	20.30	-3.93	15.64	9.45	0.56
Difference	-0.40	-0.10	-1.16	-1.16	0.64	0.54	0.65	0.20	-0.13	1.54	3.06	-2.13	1.54
Actuarial Discount Rate (7.5%)	1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference	10.70	-5.75	-4.04	-4.04	0.12	0.07	1.22	2.14	12.67	-9.89	11.20	-0.18	-5.40
OFPRS Total Fund (Gross)	12.52	-2.07	3.46	3.46	7.62	7.57	8.73	9.65	20.17	-2.39	18.70	7.33	2.10
OFPRS Policy Index	12.98	-3.11	3.92	3.92	6.92	7.41	8.48	9.83	21.76	-3.80	16.41	8.76	1.60
Difference	-0.46	1.04	-0.46	-0.46	0.70	0.16	0.25	-0.18	-1.59	1.41	2.29	-1.43	0.50
OFPRS Actual Allocation Index	12.92	-1.97	4.62	4.62	6.98	7.03	8.07	9.44	20.30	-3.93	15.64	9.45	0.56
Difference	-0.40	-0.10	-1.16	-1.16	0.64	0.54	0.66	0.21	-0.13	1.54	3.06	-2.12	1.54
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08
Rank	43	39	45	45	5	3	2	4	28	18	6	53	5
Asset Allocation vs. Target Allocation						Asset Allocation vs. Target Allocation Difference							
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)										
OFPRS (Firefighters)	2,904,632,636	100.00	100.00								US Equity	6.45%	
US Equity	1,407,218,220	48.45	42.00								International Equity	0.17%	
International Equity	440,601,423	15.17	15.00								Other Equity	-4.65 %	
Other Equity	10,134,182	0.35	5.00								US Fixed Income	0.57%	
US Fixed Income	248,977,000	8.57	8.00								Global Fixed Income	-0.59 %	
Global Fixed Income	186,141,000	6.41	7.00								Other Fixed Income	0.84%	
Other Fixed Income	169,638,050	5.84	5.00								Real Estate	1.00%	
Real Estate	319,537,594	11.00	10.00								Other Assets	-4.03 %	
Other Assets	115,359,167	3.97	8.00								Cash Equivalent	0.24%	
Cash Equivalent	7,026,000	0.24	0.00										

The chart displays the percentage difference between actual asset allocation and target allocation for ten categories. The categories are listed on the left, corresponding to the rows in the table above. The x-axis represents the percentage difference, ranging from -10.00% to 10.00% in increments of 5.00%. Red bars extend to the left, indicating underweight allocations, while green bars extend to the right, indicating overweight allocations. The length of each bar corresponds to the absolute value of the percentage difference.

Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%		QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OFPRS Total Fund	2,904,632,636	100.00		12.52	-2.07	3.46	3.46	7.62	7.57	8.72	9.64	6.22	01/01/1984
OFPRS Policy Index				12.98	-3.11	3.92	3.92	6.92	7.41	8.48	9.83	N/A	
Difference				-0.46	1.04	-0.46	-0.46	0.70	0.16	0.24	-0.19	N/A	
OFPRS Actual Allocation Index				12.92	-1.97	4.62	4.62	6.98	7.03	8.07	9.44	N/A	
Difference				-0.40	-0.10	-1.16	-1.16	0.64	0.54	0.65	0.20	N/A	
Actuarial Discount Rate (7.5%)				1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference				10.70	-5.75	-4.04	-4.04	0.12	0.07	1.22	2.14	-1.28	
US Equity & Other Equity	1,417,352,402	48.80		23.25	-2.82	4.89	4.89	10.32	9.81	11.79	13.20	6.75	07/01/2000
Russell 3000 Index				22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	6.15	
Difference				1.22	0.66	-1.64	-1.64	0.28	-0.22	0.11	-0.52	0.60	
US Large Cap Equity	1,010,345,435	34.78		21.57	-3.31	6.36	6.36	10.01	9.81	11.85	13.57	6.32	07/01/2000
Russell 1000 Index				21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	6.10	
Difference				-0.25	-0.50	-1.12	-1.12	-0.63	-0.66	-0.18	-0.40	0.22	
AJO Large Cap Equity (SA)	81,495,274	2.81		15.81	-17.69	-12.61	-12.61	0.03	2.08	5.81	9.89	7.88	07/01/2002
Russell 1000 Val Index				14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	7.02	
Difference				1.52	-1.43	-3.77	-3.77	-1.79	-2.56	-1.30	-0.52	0.86	
SSgA Equity Index (SA)	225,163,000	7.75		20.53	-3.11	7.46	7.46	10.70	10.73	12.13	14.00	7.58	10/01/1996
S&P 500 Index (Cap Wtd)				20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	8.58	
Difference				-0.01	-0.03	-0.05	-0.05	-0.03	0.00	0.00	0.01	-1.00	
SSgA Eq Wtd S&P Index (SA)	197,170,000	6.79		21.37	-11.71	-3.87	-3.87	5.24	7.01	9.57	12.56	9.46	11/01/2001
S&P 500 Index (Eq Wtd)				21.73	-10.77	-3.25	-3.25	5.43	7.14	9.67	12.64	9.46	
Difference				-0.36	-0.94	-0.62	-0.62	-0.19	-0.13	-0.10	-0.08	0.00	
Intech US Large Cap Core Equity (SA)	218,408,907	7.52		21.15	-2.42	7.90	7.90	10.27	10.30	12.26	14.09	8.60	01/01/2002
S&P 500 Index (Cap Wtd)				20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	7.67	
Difference				0.61	0.66	0.39	0.39	-0.46	-0.43	0.13	0.10	0.93	
Fred Alger Capital Appreciation (SA)	193,410,687	6.66		27.92	13.66	25.29	25.29	20.36	15.72	17.77	17.23	17.23	07/01/2010
Russell 1000 Grth Index				27.84	9.81	23.28	23.28	18.99	15.89	16.62	17.23	17.23	
Difference				0.08	3.85	2.01	2.01	1.37	-0.17	1.15	0.00	0.00	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Beutel Goodman American Equity (CF)	94,697,567	3.26	16.14	-7.43	4.15	4.15	7.09	N/A	N/A	N/A	10.64	04/26/2016	
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	5.89		
Difference			1.85	8.83	12.99	12.99	5.27	N/A	N/A	N/A	4.75		
US Small Cap Equity	396,872,785	13.66	32.79	0.74	3.81	3.81	13.33	10.94	12.53	14.23	8.05	07/01/2000	
Russell 2000 Index			25.42	-12.98	-6.63	-6.63	2.01	4.29	7.17	10.50	6.69		
Difference			7.37	13.72	10.44	10.44	11.32	6.65	5.36	3.73	1.36		
Delaware SMID Cap Focus Growth Equity (SA)	116,508,000	4.01	42.14	14.22	17.17	17.17	20.72	15.78	16.31	N/A	14.48	04/01/2011	
Russell 2500 Grth Index			32.87	2.02	9.21	9.21	12.10	9.57	12.06	14.45	11.22		
Difference			9.27	12.20	7.96	7.96	8.62	6.21	4.25	N/A	3.26		
Earnest Partner Small Cap Value Equity (SA)	89,574,183	3.08	23.95	-10.30	-3.99	-3.99	5.08	7.14	10.07	11.99	7.90	08/01/2005	
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	4.61		
Difference			5.04	13.20	13.49	13.49	9.43	5.88	6.09	4.17	3.29		
River Road Small Cap Value Equity (SA)	77,380,615	2.66	20.25	-18.90	-12.58	-12.58	2.01	6.67	7.58	10.41	5.85	04/01/2007	
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	3.57		
Difference			1.34	4.60	4.90	4.90	6.36	5.41	3.60	2.59	2.28		
Lord Abbett Small Cap Growth Equity (SA)	113,409,988	3.90	41.24	17.65	12.43	12.43	24.46	12.36	14.69	N/A	13.55	04/01/2011	
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	9.60		
Difference			10.66	20.71	8.95	8.95	16.60	5.50	4.66	N/A	3.95		
Other Equity													
Tortoise Direct Opportunities (CF)	10,134,182	0.35	-48.34	-47.56	-48.79	-48.79	-22.06	N/A	N/A	N/A	-14.27	09/01/2016	
Alerian MLP Index			50.18	-35.71	-41.43	-41.43	-16.79	-12.85	-9.69	-1.41	-13.13		
Difference			-98.52	-11.85	-7.36	-7.36	-5.27	N/A	N/A	N/A	-1.14		

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

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	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
International Equity	440,601,423	15.17	17.16	1.33	7.86	7.86	8.48	7.89	7.66	7.24	6.57	09/01/2003	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	6.29		
Difference			1.04	12.33	12.66	12.66	7.35	5.63	3.95	2.27	0.28		
Chautauqua International Growth Equity (SA)	150,826,000	5.19	7.37	6.27	9.39	9.39	8.64	7.96	8.82	N/A	8.83	08/01/2012	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.76		
Difference			-8.75	17.27	14.19	14.19	7.51	5.70	5.11	N/A	4.07		
Emerging Markets Equity	98,394,000	3.39	17.76	-11.12	-6.00	-6.00	-0.70	0.44	1.34	N/A	3.51	08/01/2012	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.96		
Difference			-0.32	-1.34	-2.61	-2.61	-2.60	-2.42	-1.88	N/A	0.55		
WCM Berkeley Street EM Equity (CF)	191,351,206	6.59	25.88	5.04	15.34	15.34	14.43	12.89	12.53	N/A	12.80	08/01/2012	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.96		
Difference			7.80	14.82	18.73	18.73	12.53	10.03	9.31	N/A	9.84		
RBC GAM Emerging Markets Equity (CF)	49,175,000	1.69	17.03	-10.11	-6.10	-6.10	N/A	N/A	N/A	N/A	-1.11	01/01/2019	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	4.51		
Difference			-1.05	-0.33	-2.71	-2.71	N/A	N/A	N/A	N/A	-5.62		
Wellington Emerging Markets (CF)	49,219,000	1.69	18.51	-12.11	-5.98	-5.98	N/A	N/A	N/A	N/A	-1.02	01/01/2019	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	4.51		
Difference			0.43	-2.33	-2.59	-2.59	N/A	N/A	N/A	N/A	-5.53		

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
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	Allocation			Performance (%)									
	Market Value (\$)	%		QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Fixed Income	604,756,050	20.82		2.19	-0.86	1.41	1.41	2.15	2.86	2.89	3.75	4.98	07/01/2000
Bloomberg US Agg Bond Index				2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.14	
Difference				-0.71	-7.00	-7.33	-7.33	-3.17	-1.44	-1.07	-0.07	-0.16	
US Fixed Income	248,977,000	8.57		4.77	5.62	8.30	8.30	5.05	4.34	3.98	3.62	3.18	03/01/2009
Bloomberg US Agg Bond Index				2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.49	
Difference				1.87	-0.52	-0.44	-0.44	-0.27	0.04	0.02	-0.20	-1.31	
Orleans Core Fixed Income (CF)	101,600,000	3.50		5.26	4.96	8.02	8.02	5.30	4.47	N/A	N/A	3.86	07/01/2014
Bloomberg US Agg Bond Index				2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.89	
Difference				2.36	-1.18	-0.72	-0.72	-0.02	0.17	N/A	N/A	-0.03	
Garcia Hamilton Core Fixed Income (CF)	147,377,000	5.07		4.87	6.33	8.85	8.85	5.35	4.69	N/A	N/A	4.36	07/01/2014
Bloomberg US Agg Bond Index				2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.89	
Difference				1.97	0.19	0.11	0.11	0.03	0.39	N/A	N/A	0.47	
Global Fixed Income	186,141,000	6.41		10.07	-2.24	0.03	0.03	1.34	2.91	2.50	3.92	3.45	03/01/2009
FTSE Wrld Gov't Bond Index				2.04	4.08	4.60	4.60	3.98	3.70	2.21	2.37	2.89	
Difference				8.03	-6.32	-4.57	-4.57	-2.64	-0.79	0.29	1.55	0.56	
Brandywine Global Fixed Income (CF)	186,141,000	6.41		10.07	-2.24	0.03	0.03	1.34	2.91	2.50	4.71	4.59	08/01/2009
FTSE Wrld Gov't Bond Index				2.04	4.08	4.60	4.60	3.98	3.70	2.21	2.37	2.28	
Difference				8.03	-6.32	-4.57	-4.57	-2.64	-0.79	0.29	2.34	2.31	
Other Fixed Income													
Garrison Middle Market Funding (SA)	3,092,128	0.11		-5.94	-5.28	-19.09	-19.09	-4.72	-2.83	-0.14	N/A	-0.14	07/01/2013
Bloomberg US Agg Bond Index				2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.96	
Difference				-8.84	-11.42	-27.83	-27.83	-10.04	-7.13	-4.10	N/A	-4.10	
Medley Opportunity II (SA)	12,552,660	0.43		-9.03	-9.03	-19.09	-19.09	-12.34	-5.60	-3.15	N/A	-3.15	07/01/2013
CS Lvg'd Loan Index				9.71	-4.76	-2.27	-2.27	2.13	2.94	3.27	4.34	3.27	
Difference				-18.74	-4.27	-16.82	-16.82	-14.47	-8.54	-6.42	N/A	-6.42	
PIMCO Corporate Opp II (CF)	31,711,805	1.09		-15.14	-11.41	-8.27	-8.27	3.31	N/A	N/A	N/A	5.48	12/01/2016
Bloomberg US HY Loans Index				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Difference				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PIMCO Bravo III (CF)	49,488,457	1.70		-11.27	-10.49	-5.06	-5.06	N/A	N/A	N/A	N/A	5.18	12/01/2017

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
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	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
PIMCO Private Income (CF)	72,793,000	2.51	-5.85	-4.31	-1.42	-1.42	N/A	N/A	N/A	N/A	-1.22	05/01/2019	
Bloomberg US HY Loans Index			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Real Estate	319,537,594	11.00	-0.99	0.70	2.91	2.91	6.21	7.81	9.13	9.06	7.95	03/01/2009	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.14		
Difference			0.00	0.99	0.22	0.22	0.77	1.04	0.87	-0.64	0.81		
JP Morgan Strategic Property	110,998,000	3.82	-2.02	-0.49	2.25	2.25	5.12	6.85	8.77	10.62	7.66	04/01/2005	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.93		
Difference			-1.03	-0.20	-0.44	-0.44	-0.32	0.08	0.51	0.92	-0.27		
JP Morgan Special Situation Property (CF)	72,525,000	2.50	-0.81	0.59	4.79	4.79	7.89	9.55	N/A	N/A	10.98	11/01/2014	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.64		
Difference			0.18	0.88	2.10	2.10	2.45	2.78	N/A	N/A	3.34		
Portfolio Advisors Real Estate III LP	2,902,490	0.10	-0.33	-0.69	-9.88	-9.88	-2.67	2.67	7.46	5.82	-0.69	07/01/2008	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	5.95		
Difference			0.66	-0.40	-12.57	-12.57	-8.11	-4.10	-0.80	-3.88	-6.64		
Portfolio Advisors Real Estate IV LP	1,630,934	0.06	-0.10	-5.26	-4.58	-4.58	4.54	7.04	9.79	N/A	7.03	07/01/2011	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.95		
Difference			0.89	-4.97	-7.27	-7.27	-0.90	0.27	1.53	N/A	-1.92		
Angelo Gordon Net Lease III LP	23,275,950	0.80	-0.23	1.96	5.63	5.63	7.17	6.65	N/A	N/A	4.48	03/01/2014	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.08		
Difference			0.76	2.25	2.94	2.94	1.73	-0.12	N/A	N/A	-3.60		
Mesirow	27,411,726	0.94	1.22	10.17	12.43	12.43	11.53	10.77	N/A	N/A	8.27	04/01/2014	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.95		
Difference			2.21	10.46	9.74	9.74	6.09	4.00	N/A	N/A	0.32		
Dune Real Estate III LP	24,644,210	0.85	-0.25	-1.05	-4.87	-4.87	7.22	9.35	N/A	N/A	9.38	05/01/2014	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.95		
Difference			0.74	-0.76	-7.56	-7.56	1.78	2.58	N/A	N/A	1.43		
Portfolio Advisors Real Estate	5,875,893	0.20	-0.51	-3.46	-5.38	-5.38	-0.09	2.88	N/A	N/A	6.27	06/01/2014	
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.95		
Difference			0.48	-3.17	-8.07	-8.07	-5.53	-3.89	N/A	N/A	-1.68		

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
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	Allocation			Performance (%)								
	Market Value (\$)	%		QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.
Landmark Real Estate VII LP	9,555,000	0.33	-1.86	-2.29	-2.90	-2.90	1.61	10.20	N/A	N/A	13.30	09/01/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.78	
Difference			-0.87	-2.00	-5.59	-5.59	-3.83	3.43	N/A	N/A	5.52	
Hall Capital III LP	11,240,642	0.39	0.16	3.51	5.31	5.31	5.75	4.48	N/A	N/A	1.06	11/01/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.64	
Difference			1.15	3.80	2.62	2.62	0.31	-2.29	N/A	N/A	-6.58	
Portfolio Advisors Real Estate VI LP	16,548,081	0.57	-0.39	0.64	8.08	8.08	11.97	N/A	N/A	N/A	10.17	01/01/2017
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	5.63	
Difference			0.60	0.93	5.39	5.39	6.53	N/A	N/A	N/A	4.54	
Hall Capital Real Estate LP	2,597,668	0.09	1.47	2.99	6.50	6.50	N/A	N/A	N/A	N/A	3.76	09/01/2018
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	4.58	
Difference			2.46	3.28	3.81	3.81	N/A	N/A	N/A	N/A	-0.82	
Dune Real Estate IV LP	10,332,000	0.36	-2.75	-3.69	N/A	N/A	N/A	N/A	N/A	N/A	-10.89	08/01/2019
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	2.69	
Difference			-1.76	-3.40	N/A	N/A	N/A	N/A	N/A	N/A	-13.58	
Hedge Fund	10,415,000	0.36	-9.21	-9.86	-11.35	-11.35	-2.04	-0.36	0.51	2.18	2.48	01/01/2006
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.01	
Difference			-14.87	-7.92	-10.96	-10.96	-3.97	-1.85	-1.88	-0.39	0.47	
Glouston Capital Partners Permal (CF)	10,415,000	0.36	-9.21	-9.86	-11.26	-11.26	-2.00	-0.61	N/A	N/A	-0.60	06/01/2015
HFRI FOF Comp Index			7.89	-1.59	0.48	0.48	2.25	1.49	2.70	2.79	1.26	
Difference			-17.10	-8.27	-11.74	-11.74	-4.25	-2.10	N/A	N/A	-1.86	

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

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	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Private Equity	104,944,167	3.61	-5.19	-2.04	3.17	3.17	10.82	9.84	N/A	N/A	13.60	03/01/2014	
Ardian	8,848,067	0.30	-10.15	-9.41	-6.19	-6.19	5.85	6.96	N/A	N/A	9.75	04/01/2014	
Ardian AESF VI LP	24,263,018	0.84	-2.49	2.76	12.33	12.33	11.60	N/A	N/A	N/A	9.11	02/01/2017	
Argonaut Private Equity IV LP	5,845,081	0.20	4.17	4.17	13.47	13.47	N/A	N/A	N/A	N/A	5.37	08/01/2018	
Capital Dynamics Global Secondaries IV	27,047,000	0.93	-9.09	-3.73	-0.67	-0.67	9.87	7.55	N/A	N/A	9.05	12/01/2014	
Pomona Capital VIII LP	3,100,000	0.11	-17.56	-17.55	-19.41	-19.41	2.76	7.28	N/A	N/A	10.66	03/01/2014	
Pomona Capital IX LP	19,969,000	0.69	-4.87	-4.86	1.37	1.37	N/A	N/A	N/A	N/A	33.21	02/01/2018	

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OFPRS Total Fund	2,904,632,636	100.00	12.52	-2.07	3.46	3.46	7.62	7.57	8.73	9.65	8.41	01/01/1985
OFPRS Policy Index			12.98	-3.11	3.92	3.92	6.92	7.41	8.48	9.83	N/A	
Difference			-0.46	1.04	-0.46	-0.46	0.70	0.16	0.25	-0.18	N/A	
OFPRS Actual Allocation Index			12.92	-1.97	4.62	4.62	6.98	7.03	8.07	9.44	N/A	
Difference			-0.40	-0.10	-1.16	-1.16	0.64	0.54	0.66	0.21	N/A	
Actuarial Discount Rate (7.5%)			1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference			10.70	-5.75	-4.04	-4.04	0.12	0.07	1.23	2.15	0.91	
All Public Plans-Total Fund Median			12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.69	
Rank			43	39	45	45	5	3	2	4	79	
US Equity & Other Equity	1,417,352,402	48.80	23.25	-2.82	4.90	4.90	10.33	9.82	11.80	13.21	6.82	10/01/2000
Russell 3000 Index			22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	6.19	
Difference			1.22	0.66	-1.63	-1.63	0.29	-0.21	0.12	-0.51	0.63	
US Large Cap Equity	1,010,345,435	34.78	21.57	-3.31	6.38	6.38	10.05	9.84	11.87	13.59	6.38	10/01/2000
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	6.14	
Difference			-0.25	-0.50	-1.10	-1.10	-0.59	-0.63	-0.16	-0.38	0.24	
AJO Large Cap Equity (SA)	81,495,274	2.81	15.81	-17.69	-12.61	-12.61	0.03	2.08	5.81	9.89	7.92	08/01/2002
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	7.64	
Difference			1.52	-1.43	-3.77	-3.77	-1.79	-2.56	-1.30	-0.52	0.28	
IM U.S. Large Cap Value Equity (SA+CF) Median			16.98	-14.65	-6.61	-6.61	3.16	5.32	7.80	10.96	8.52	
Rank			61	78	91	91	82	92	88	82	76	
SSgA Equity Index (SA)	225,163,000	7.75	20.53	-3.11	7.49	7.49	10.74	10.77	12.16	14.03	7.59	10/01/1996
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	8.58	
Difference			-0.01	-0.03	-0.02	-0.02	0.01	0.04	0.03	0.04	-0.99	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	9.26	
Rank			46	39	31	31	33	28	39	41	97	
SSgA Eq Wtd S&P Index (SA)	197,170,000	6.79	21.37	-11.71	-3.85	-3.85	5.27	7.04	9.60	12.59	9.48	11/01/2001
S&P 500 Index (Eq Wtd)			21.73	-10.77	-3.25	-3.25	5.43	7.14	9.67	12.64	9.46	
Difference			-0.36	-0.94	-0.60	-0.60	-0.16	-0.10	-0.07	-0.05	0.02	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	8.69	
Rank			31	94	95	95	89	87	82	77	14	
Intech US Large Cap Core Equity (SA)	218,408,907	7.52	21.15	-2.42	7.90	7.90	10.27	10.30	12.26	14.09	8.60	01/01/2002
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	7.67	
Difference			0.61	0.66	0.39	0.39	-0.46	-0.43	0.13	0.10	0.93	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	8.27	
Rank			34	29	27	27	41	41	36	38	24	

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Fred Alger Capital Appreciation (SA)	193,410,687	6.66	27.92	13.66	25.29	25.29	20.36	15.72	17.77	17.23	17.23	07/01/2010
Russell 1000 Grth Index			27.84	9.81	23.28	23.28	18.99	15.89	16.62	17.23	17.23	
Difference			0.08	3.85	2.01	2.01	1.37	-0.17	1.15	0.00	0.00	
IM U.S. Large Cap Growth Equity (SA+CF) Median			26.58	8.79	19.56	19.56	17.42	14.27	15.77	16.61	16.57	
Rank			37	18	17	17	26	31	18	31	30	
Beutel Goodman American Equity (CF)	94,697,567	3.26	16.14	-7.43	4.15	4.15	7.09	N/A	N/A	N/A	10.64	04/26/2016
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	5.89	
Difference			1.85	8.83	12.99	12.99	5.27	N/A	N/A	N/A	4.75	
IM U.S. Large Cap Value Equity (SA+CF) Median			16.98	-14.65	-6.61	-6.61	3.16	5.32	7.80	10.96	6.73	
Rank			57	14	13	13	19	N/A	N/A	N/A	15	
US Small Cap Equity	396,872,785	13.66	32.79	0.74	3.81	3.81	13.33	10.95	12.54	14.23	8.18	10/01/2000
Russell 2000 Index			25.42	-12.98	-6.63	-6.63	2.01	4.29	7.17	10.50	6.71	
Difference			7.37	13.72	10.44	10.44	11.32	6.66	5.37	3.73	1.47	
Delaware SMID Cap Focus Growth Equity (SA)	116,508,000	4.01	42.14	14.22	17.17	17.17	20.72	15.78	16.31	N/A	14.48	04/01/2011
Russell 2500 Grth Index			32.87	2.02	9.21	9.21	12.10	9.57	12.06	14.45	11.22	
Difference			9.27	12.20	7.96	7.96	8.62	6.21	4.25	N/A	3.26	
IM U.S. SMID Cap Growth Equity (SA+CF) Median			33.51	7.12	12.70	12.70	14.31	11.44	12.76	15.35	12.08	
Rank			10	24	28	28	12	7	6	N/A	14	
Earnest Partner Small Cap Value Equity (SA)	89,574,183	3.08	23.95	-10.30	-3.99	-3.99	5.08	7.14	10.07	11.99	N/A	07/31/2005
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	4.97	
Difference			5.04	13.20	13.49	13.49	9.43	5.88	6.09	4.17	N/A	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	7.08	
Rank			28	7	8	8	7	6	4	8	N/A	
River Road Small Cap Value Equity (SA)	77,380,615	2.66	20.25	-18.90	-12.58	-12.58	2.01	6.67	7.58	10.41	5.85	04/01/2007
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	3.57	
Difference			1.34	4.60	4.90	4.90	6.36	5.41	3.60	2.59	2.28	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	5.86	
Rank			56	34	32	32	15	7	16	29	51	
Lord Abbett Small Cap Growth Equity (SA)	113,409,988	3.90	41.24	17.65	12.43	12.43	24.46	12.36	14.69	N/A	13.55	04/01/2011
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	9.60	
Difference			10.66	20.71	8.95	8.95	16.60	5.50	4.66	N/A	3.95	
IM U.S. Small Cap Growth Equity (SA+CF) Median			32.78	1.16	5.99	5.99	12.27	10.20	12.31	15.04	11.65	
Rank			19	10	32	32	9	28	19	N/A	23	

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation					Performance (%)							
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Other Equity													
Tortoise Direct Opportunities (CF)	10,134,182	0.35	-48.34	-47.56	-48.79	-48.79	-22.06	N/A	N/A	N/A	-14.27	09/30/2016	
Alerian MLP Index Difference			50.18	-35.71	-41.43	-41.43	-16.79	-12.85	-9.69	-1.41	-13.13		
-98.52	-11.85	-7.36	-7.36	-5.27	N/A	N/A	N/A	N/A	N/A	-1.14			
International Equity													
MSCI ACW Ex US Index (USD) (Net)	440,601,423	15.17	17.16	1.33	7.86	7.86	8.48	7.89	7.68	7.25	N/A	07/01/2003	
Difference			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	6.57		
1.04	12.33	12.66	12.66	7.35	5.63	3.97	2.28	N/A					
All Public Plans-Intl. Equity Segment Median			17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	7.89		
Rank			59	2	5	5	1	1	2	21	N/A		
Chautauqua International Growth Equity (SA)	150,826,000	5.19	7.37	6.27	9.39	9.39	8.64	7.96	8.82	N/A	8.83	08/01/2012	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.76		
Difference			-8.75	17.27	14.19	14.19	7.51	5.70	5.11	N/A	4.07		
IM International Large Cap Growth Equity (SA+CF) Median			19.95	-3.20	4.55	4.55	6.36	5.44	6.91	8.49	8.03		
Rank			100	5	23	23	25	27	22	N/A	32		
Emerging Markets Equity													
MSCI Emg Mkts Index (USD) (Net)	98,394,000	3.39	17.76	-11.12	-6.00	-6.00	-0.70	0.44	1.39	N/A	3.58	08/01/2012	
Difference			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.96		
-0.32	-1.34	-2.61	-2.61	-2.60	-2.42	-1.83	N/A	0.62					
WCM Berkeley Street EM Equity (CF)	191,351,206	6.59	25.88	5.04	15.34	15.34	14.43	12.89	12.53	N/A	12.80	08/01/2012	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.96		
Difference			7.80	14.82	18.73	18.73	12.53	10.03	9.31	N/A	9.84		
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	4.15		
Rank			22	6	6	6	2	1	1	N/A	1		
RBC GAM Emerging Markets Equity (CF)	49,175,000	1.69	17.03	-10.11	-6.10	-6.10	N/A	N/A	N/A	N/A	-1.11	01/31/2019	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	4.51		
Difference			-1.05	-0.33	-2.71	-2.71	N/A	N/A	N/A	N/A	-5.62		
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	5.07		
Rank			75	50	63	63	N/A	N/A	N/A	N/A	78		
Wellington Emerging Markets (CF)	49,219,000	1.69	18.51	-12.11	-5.98	-5.98	N/A	N/A	N/A	N/A	-1.08	02/01/2019	
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	-1.25		
Difference			0.43	-2.33	-2.59	-2.59	N/A	N/A	N/A	N/A	0.17		
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	-0.10		
Rank			61	65	62	62	N/A	N/A	N/A	N/A	55		

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Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Fixed Income	604,756,050	20.82	2.19	-0.86	1.41	1.41	2.15	2.87	2.90	3.76	4.89	10/01/2000
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.05	
Difference			-0.71	-7.00	-7.33	-7.33	-3.17	-1.43	-1.06	-0.06	-0.16	
US Fixed Income	248,977,000	8.57	4.77	5.62	8.30	8.30	5.05	4.35	3.99	3.63	3.45	03/01/2012
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.42	
Difference			1.87	-0.52	-0.44	-0.44	-0.27	0.05	0.03	-0.19	0.03	
Orleans Core Fixed Income (CF)	101,600,000	3.50	5.26	4.96	8.02	8.02	5.30	4.47	N/A	N/A	3.86	07/07/2014
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.89	
Difference			2.36	-1.18	-0.72	-0.72	-0.02	0.17	N/A	N/A	-0.03	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			4.42	6.24	8.93	8.93	5.57	4.70	4.41	4.34	4.26	
Rank			23	87	83	83	86	71	N/A	N/A	92	
Garcia Hamilton Core Fixed Income (CF)	147,377,000	5.07	4.87	6.33	8.85	8.85	5.35	4.69	N/A	N/A	4.36	07/07/2014
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.89	
Difference			1.97	0.19	0.11	0.11	0.03	0.39	N/A	N/A	0.47	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			4.42	6.24	8.93	8.93	5.57	4.70	4.41	4.34	4.26	
Rank			34	46	58	58	80	52	N/A	N/A	41	
Global Fixed Income	186,141,000	6.41	10.07	-2.24	0.03	0.03	1.34	2.91	2.50	3.92	2.99	04/01/2012
FTSE Wrld Gov't Bond Index			2.04	4.08	4.60	4.60	3.98	3.70	2.21	2.37	1.42	
Difference			8.03	-6.32	-4.57	-4.57	-2.64	-0.79	0.29	1.55	1.57	
Brandywine Global Fixed Income (CF)	186,141,000	6.41	10.07	-2.24	0.03	0.03	1.34	2.91	2.50	4.71	4.59	08/31/2009
FTSE Wrld Gov't Bond Index			2.04	4.08	4.60	4.60	3.98	3.70	2.21	2.37	2.28	
Difference			8.03	-6.32	-4.57	-4.57	-2.64	-0.79	0.29	2.34	2.31	
IM Global Fixed Income (SA+CF) Median			7.93	0.16	2.66	2.66	3.70	4.17	3.66	4.13	4.45	
Rank			27	64	69	69	85	81	82	36	46	

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Oklahoma State Pension Commission
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	Allocation			Performance (%)								
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Other Fixed Income												
Garrison Middle Market Funding (SA)	3,092,128	0.11	-5.94	-5.28	-19.09	-19.09	-4.72	-2.83	-0.14	N/A	-0.14	07/09/2013
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	3.96	
Difference			-8.84	-11.42	-27.83	-27.83	-10.04	-7.13	-4.10	N/A	-4.10	
IM U.S. Broad Market Core+ Fixed Income (SA+CF) Median			5.90	5.29	8.22	8.22	5.50	4.80	4.56	4.90	4.56	
Rank			100	99	100	100	100	100	100	N/A	100	
Medley Opportunity II (SA)	12,552,660	0.43	-9.03	-9.03	-19.09	-19.09	-12.34	-5.60	-3.15	N/A	-3.15	07/18/2013
CS Lvg'd Loan Index			9.71	-4.76	-2.27	-2.27	2.13	2.94	3.27	4.34	3.27	
Difference			-18.74	-4.27	-16.82	-16.82	-14.47	-8.54	-6.42	N/A	-6.42	
PIMCO Corporate Opp II (CF)	31,711,805	1.09	-15.14	-11.41	-8.27	-8.27	3.31	N/A	N/A	N/A	5.48	12/31/2016
Bloomberg US HY Loans Index			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PIMCO Bravo III (CF)	49,488,457	1.70	-11.27	-10.49	-5.06	-5.06	N/A	N/A	N/A	N/A	5.18	12/01/2017
PIMCO Private Income (CF)	72,793,000	2.51	-5.85	-4.31	-1.42	-1.42	N/A	N/A	N/A	N/A	-1.22	05/31/2019
Bloomberg US HY Loans Index			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Real Estate	319,537,594	11.00	-0.99	0.70	2.91	2.91	6.21	7.81	9.13	9.06	9.30	03/01/2012
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.89	
Difference			0.00	0.99	0.22	0.22	0.77	1.04	0.87	-0.64	0.41	
JP Morgan Strategic Property	110,998,000	3.82	-2.02	-0.49	2.25	2.25	5.13	6.86	8.77	10.62	7.66	04/01/2005
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.93	
Difference			-1.03	-0.20	-0.44	-0.44	-0.31	0.09	0.51	0.92	-0.27	
JP Morgan Special Situation Property (CF)	72,525,000	2.50	-0.81	0.59	4.79	4.79	7.89	9.55	N/A	N/A	10.98	11/05/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.64	
Difference			0.18	0.88	2.10	2.10	2.45	2.78	N/A	N/A	3.34	
Portfolio Advisors Real Estate III LP	2,902,490	0.10	-0.33	-0.69	-9.88	-9.88	-2.67	2.67	7.46	5.82	-0.69	07/01/2008
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	5.95	
Difference			0.66	-0.40	-12.57	-12.57	-8.11	-4.10	-0.80	-3.88	-6.64	
Portfolio Advisors Real Estate IV LP	1,630,934	0.06	-0.10	-5.26	-4.58	-4.58	4.54	7.04	9.79	N/A	7.03	07/01/2011
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.95	
Difference			0.89	-4.97	-7.27	-7.27	-0.90	0.27	1.53	N/A	-1.92	

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Angelo Gordon Net Lease III LP	23,275,950	0.80	-0.23	1.96	5.63	5.63	7.17	6.65	N/A	N/A	4.48	03/31/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.08	
Difference			0.76	2.25	2.94	2.94	1.73	-0.12	N/A	N/A	-3.60	
Mesirow	27,411,726	0.94	1.22	10.17	12.43	12.43	11.53	10.77	N/A	N/A	8.27	04/01/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.95	
Difference			2.21	10.46	9.74	9.74	6.09	4.00	N/A	N/A	0.32	
Dune Real Estate III LP	24,644,210	0.85	-0.25	-1.05	-4.87	-4.87	7.22	9.35	N/A	N/A	9.38	05/08/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.95	
Difference			0.74	-0.76	-7.56	-7.56	1.78	2.58	N/A	N/A	1.43	
Portfolio Advisors Real Estate	5,875,893	0.20	-0.51	-3.46	-5.38	-5.38	-0.09	2.88	N/A	N/A	6.27	06/30/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.95	
Difference			0.48	-3.17	-8.07	-8.07	-5.53	-3.89	N/A	N/A	-1.68	
Landmark Real Estate VII LP	9,555,000	0.33	-1.86	-2.29	-2.90	-2.90	1.61	10.20	N/A	N/A	13.30	09/12/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.78	
Difference			-0.87	-2.00	-5.59	-5.59	-3.83	3.43	N/A	N/A	5.52	
Hall Capital III LP	11,240,642	0.39	0.16	3.51	5.31	5.31	5.75	4.48	N/A	N/A	1.06	11/21/2014
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	7.64	
Difference			1.15	3.80	2.62	2.62	0.31	-2.29	N/A	N/A	-6.58	
Portfolio Advisors Real Estate VI LP	16,548,081	0.57	-0.39	0.64	8.08	8.08	11.97	N/A	N/A	N/A	10.43	02/01/2017
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	5.63	
Difference			0.60	0.93	5.39	5.39	6.53	N/A	N/A	N/A	4.80	
Hall Capital Real Estate LP	2,597,668	0.09	1.47	2.99	6.50	6.50	N/A	N/A	N/A	N/A	3.76	09/15/2018
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	4.58	
Difference			2.46	3.28	3.81	3.81	N/A	N/A	N/A	N/A	-0.82	
Dune Real Estate IV LP	10,332,000	0.36	-2.75	-3.69	N/A	N/A	N/A	N/A	N/A	N/A	-10.89	08/31/2019
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	2.69	
Difference			-1.76	-3.40	N/A	N/A	N/A	N/A	N/A	N/A	-13.58	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

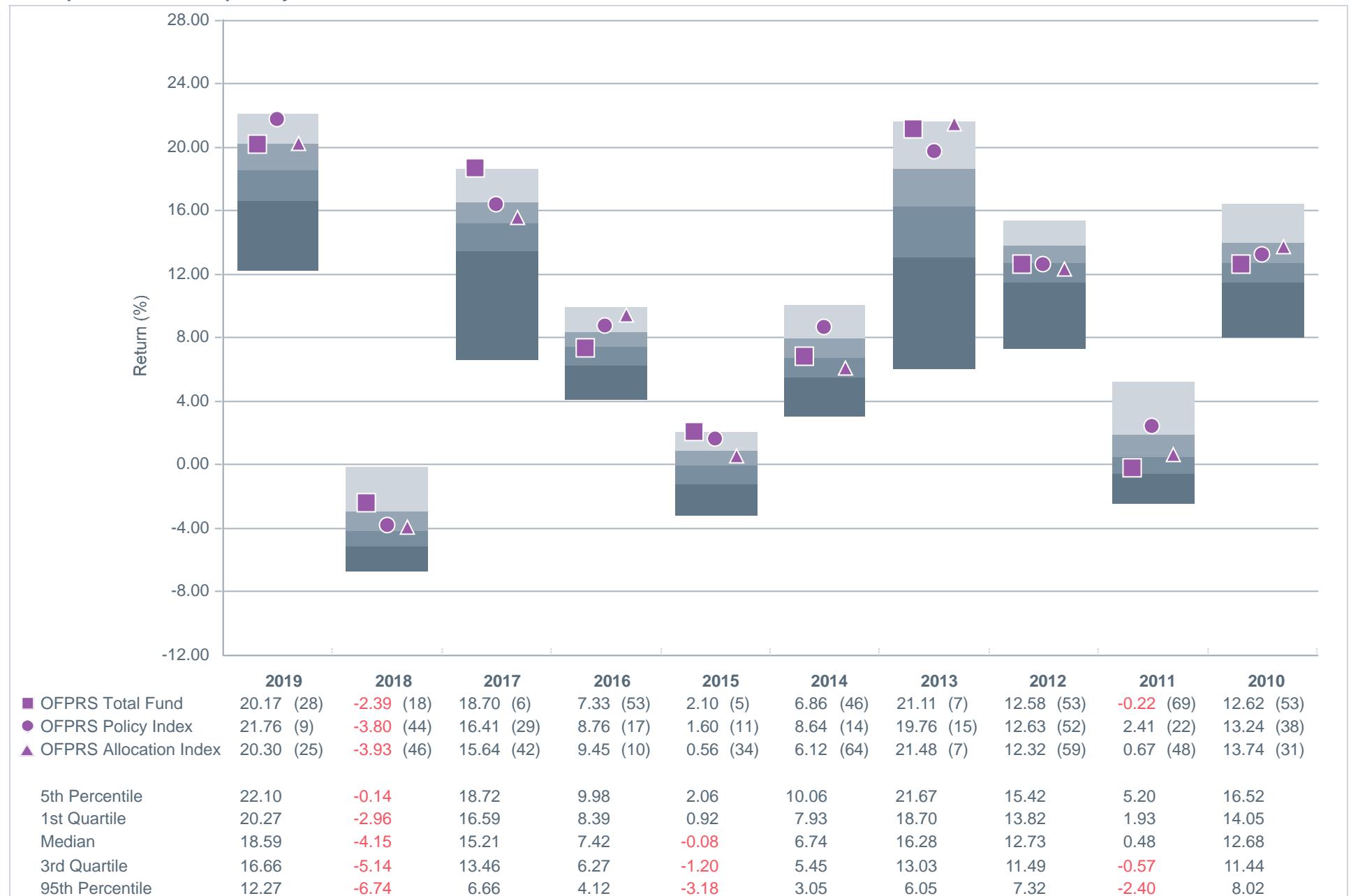
As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Hedge Fund	10,415,000	0.36	-9.21	-9.86	-11.35	-11.35	-2.04	-0.36	0.51	2.18	2.48	01/01/2006
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.01	
Difference			-14.87	-7.92	-10.96	-10.96	-3.97	-1.85	-1.88	-0.39	0.47	
Glouston Capital Partners Permal (CF)	10,415,000	0.36	-9.21	-9.86	-11.26	-11.26	-2.00	-0.61	N/A	N/A	-0.60	06/30/2015
HFRI FOF Comp Index			7.89	-1.59	0.48	0.48	2.25	1.49	2.70	2.79	1.26	
Difference			-17.10	-8.27	-11.74	-11.74	-4.25	-2.10	N/A	N/A	-1.86	
Private Equity	104,944,167	3.61	-5.19	-2.04	3.17	3.17	10.82	9.84	N/A	N/A	13.79	04/01/2014
Ardian	8,848,067	0.30	-10.15	-9.41	-6.19	-6.19	5.85	6.96	N/A	N/A	9.75	04/01/2014
Ardian AESF VI LP	24,263,018	0.84	-2.49	2.76	12.33	12.33	11.60	N/A	N/A	N/A	9.35	03/01/2017
Argonaut Private Equity IV LP	5,845,081	0.20	4.17	4.17	13.47	13.47	N/A	N/A	N/A	N/A	5.37	08/15/2018
Capital Dynamics Global Secondaries IV	27,047,000	0.93	-9.09	-3.73	-0.67	-0.67	9.87	7.55	N/A	N/A	9.05	12/30/2014
Pomona Capital VIII LP	3,100,000	0.11	-17.56	-17.55	-19.41	-19.41	2.76	7.28	N/A	N/A	10.66	03/25/2014
Pomona Capital IX LP	19,969,000	0.69	-4.87	-4.86	1.37	1.37	N/A	N/A	N/A	N/A	33.21	02/28/2018

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.



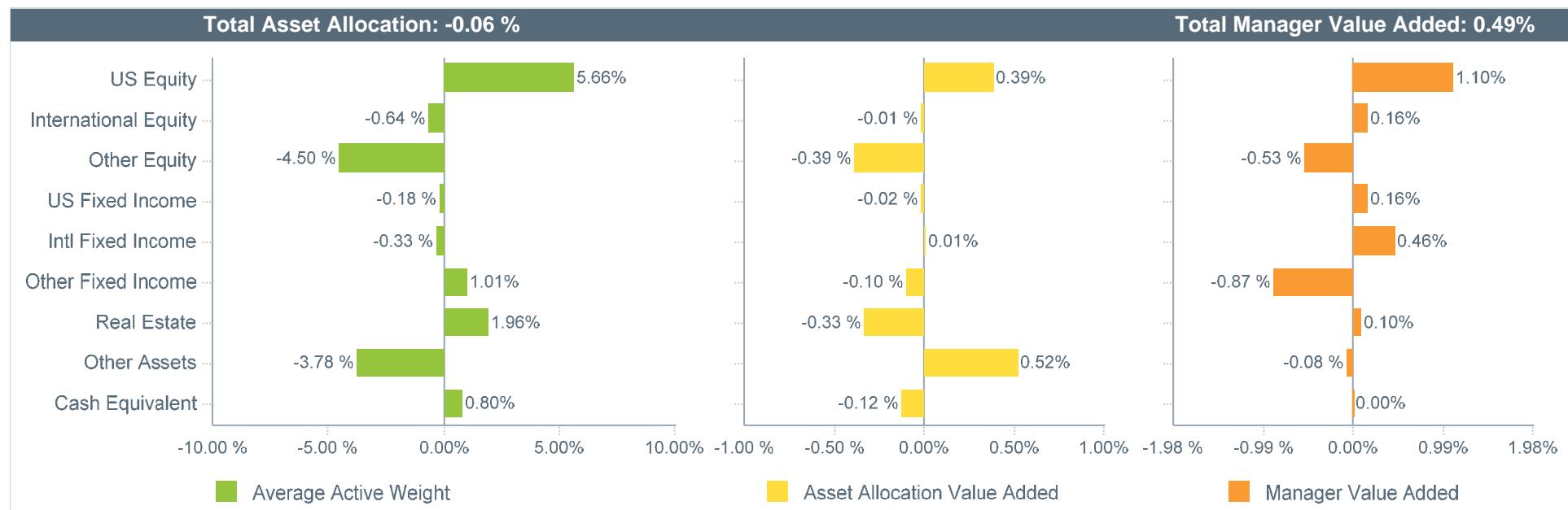
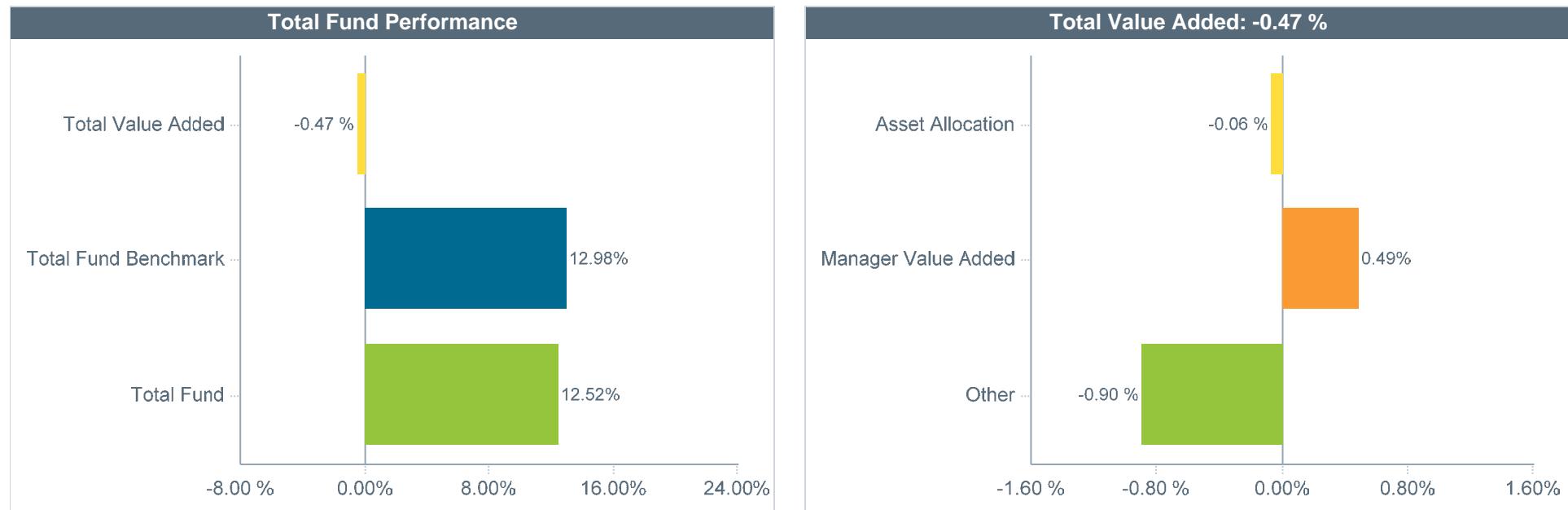
Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
Oklahoma State Pension Commission fiscal year begins on 07/01.



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Total Fund Attribution

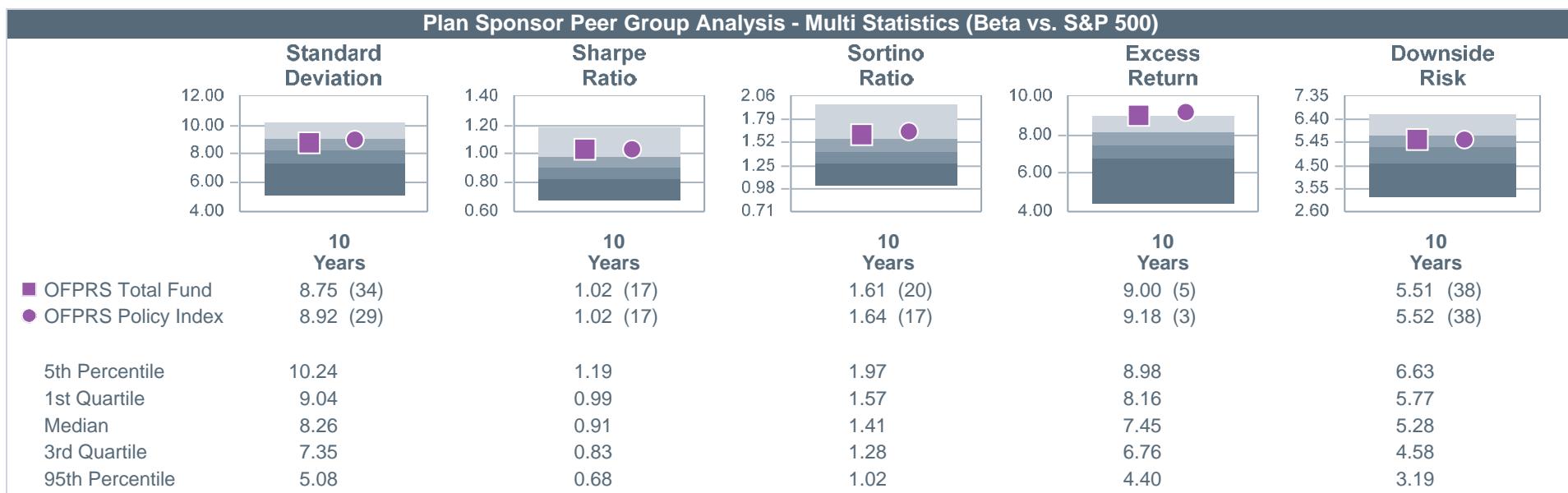
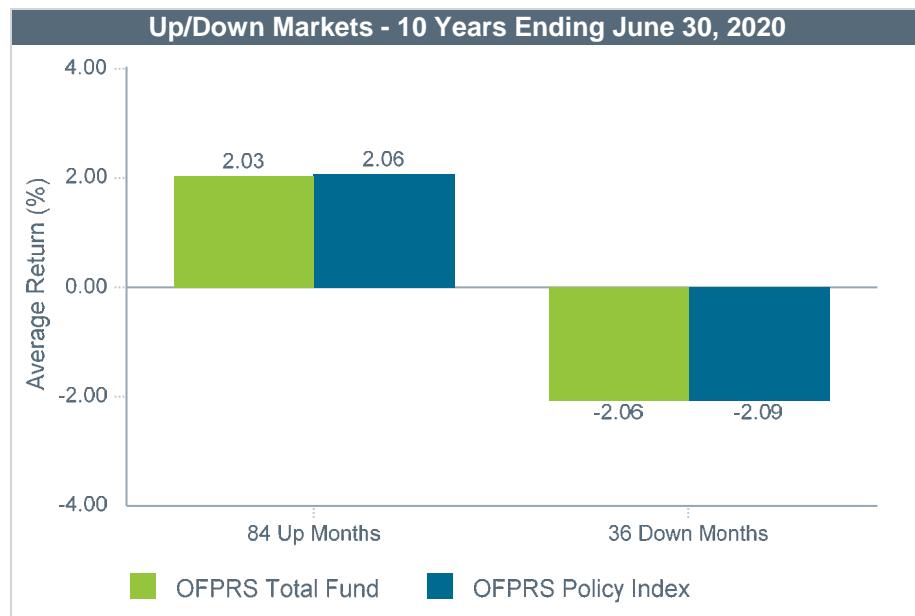
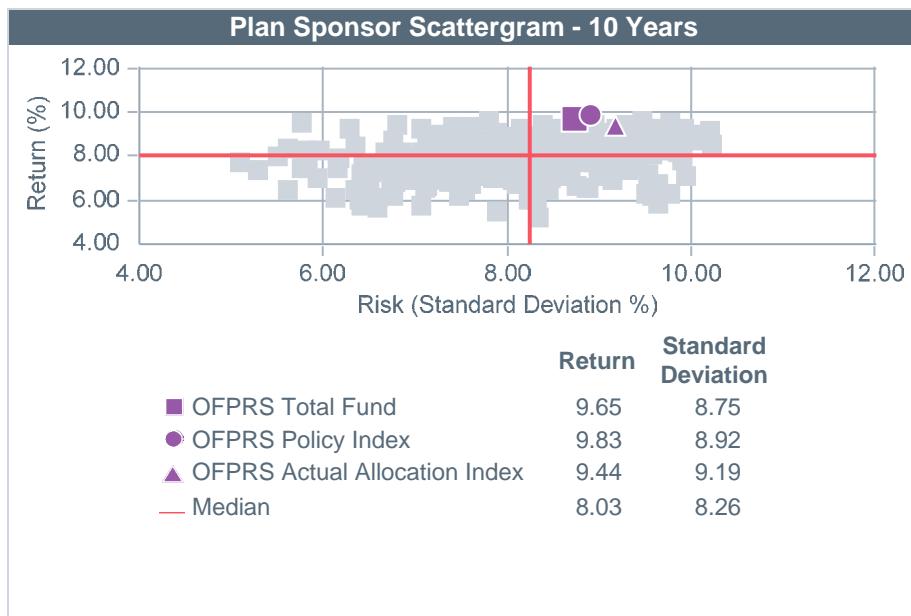
Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation. Allocation to Other Equity includes opportunistic equity; Other Fixed Income includes non-core Fixed Income; and Other Assets include Hedge Funds and Private Equity.

Oklahoma State Pension Commission
 Oklahoma Firefighters Pension & Retirement System
 Total Fund Risk & Return, Up/Down Markets, and Multi Statistics

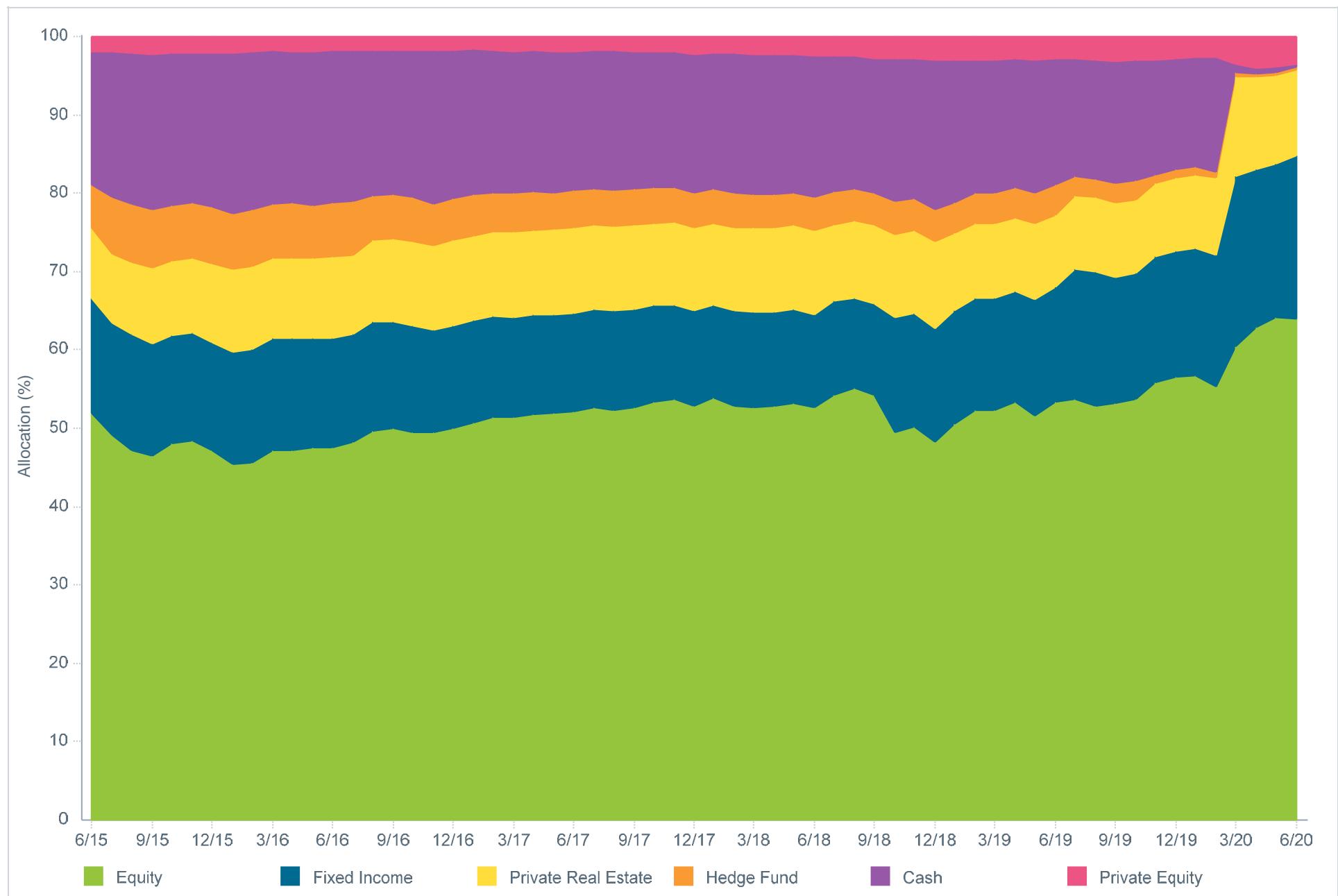
As of June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Firefighters Pension & Retirement System
Historical Asset Allocation

5 Years Ending June 30, 2020



Oklahoma Police Pension & Retirement System (OPPRS)

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Total Fund Summary

As of June 30, 2020

	Performance (%)												
	Trailing						Calendar Year						
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015
OPPRS Total Fund (Net)	9.14	-3.01	2.23	2.23	4.93	5.01	6.16	7.37	15.37	-2.78	12.88	7.05	0.66
OPPRS Policy Index	12.02	-2.24	3.68	3.68	5.68	5.49	6.35	8.13	18.62	-5.34	15.45	7.07	-1.93
Difference	-2.88	-0.77	-1.45	-1.45	-0.75	-0.48	-0.19	-0.76	-3.25	2.56	-2.57	-0.02	2.59
OPPRS Actual Allocation Index	12.02	-1.16	3.70	3.70	5.45	5.18	6.18	7.92	15.02	-3.70	13.78	6.66	-0.35
Difference	-2.88	-1.85	-1.47	-1.47	-0.52	-0.17	-0.02	-0.55	0.35	0.92	-0.90	0.39	1.01
Actuarial Discount Rate (7.5%)	1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Difference	7.32	-6.69	-5.27	-5.27	-2.57	-2.49	-1.34	-0.13	7.87	-10.28	5.38	-0.45	-6.84
OPPRS Total Fund (Gross)	9.15	-2.91	2.50	2.50	5.27	5.35	6.49	7.65	15.77	-2.45	13.22	7.45	1.02
OPPRS Policy Index	12.02	-2.24	3.68	3.68	5.68	5.49	6.35	8.13	18.62	-5.34	15.45	7.07	-1.93
Difference	-2.87	-0.67	-1.18	-1.18	-0.41	-0.14	0.14	-0.48	-2.85	2.89	-2.23	0.38	2.95
OPPRS Actual Allocation Index	12.02	-1.16	3.70	3.70	5.45	5.18	6.18	7.92	15.02	-3.70	13.78	6.66	-0.35
Difference	-2.87	-1.75	-1.20	-1.20	-0.18	0.17	0.31	-0.27	0.75	1.25	-0.56	0.79	1.37
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08
Rank	82	54	59	59	63	72	64	64	83	19	77	49	20
Asset Allocation vs. Target Allocation						Asset Allocation vs. Target Allocation Difference							
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)										
OPPRS (Police)	2,601,598,897	100.00	100.00								US Large Cap Equity	4.23%	
US Large Cap Equity	500,200,680	19.23	15.00								US SMID Cap Equity	1.30%	
US SMID Cap Equity	163,933,367	6.30	5.00								International Developed Equity	0.41%	
International Developed Equity	270,955,286	10.41	10.00								Emerging Markets Equity	-0.05 %	
Emerging Markets Equity	128,732,132	4.95	5.00								Core Fixed Income	-0.07 %	
Core Fixed Income	258,341,873	9.93	10.00								Multi-Sector Fixed Income	3.24%	
Multi-Sector Fixed Income	279,289,367	10.74	7.50								Core Real Estate	0.37%	
Core Real Estate	269,723,177	10.37	10.00								Opportunistic Real Estate	-2.84 %	
Opportunistic Real Estate	56,175,469	2.16	5.00								Long/Short Equity	-1.15 %	
Long/Short Equity	230,113,659	8.85	10.00								Absolute Return	-1.18 %	
Absolute Return	164,398,235	6.32	7.50								Private Equity	-6.61 %	
Private Equity	218,356,871	8.39	15.00								Cash Equivalent	1.48%	
Cash Equivalent	38,574,981	1.48	0.00										

(Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
OPPRS Total Fund	2,601,598,897	100.00	9.14	-3.01	2.23	2.23	4.93	5.01	6.16	7.37	6.26	07/01/1985	
OPPRS Policy Index			12.02	-2.24	3.68	3.68	5.68	5.49	6.35	8.13	N/A		
Difference			-2.88	-0.77	-1.45	-1.45	-0.75	-0.48	-0.19	-0.76	N/A		
OPPRS Actual Allocation Index			12.02	-1.16	3.70	3.70	5.45	5.18	6.18	7.92	N/A		
Difference			-2.88	-1.85	-1.47	-1.47	-0.52	-0.17	-0.02	-0.55	N/A		
Actuarial Discount Rate (7.5%)			1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50		
Difference			7.32	-6.69	-5.27	-5.27	-2.57	-2.49	-1.34	-0.13	-1.24		
US Equity	664,134,046	25.53	24.57	-4.62	4.72	4.72	8.61	9.20	10.68	13.09	6.79	01/01/2000	
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	5.74		
Difference			4.03	-1.54	-2.79	-2.79	-2.12	-1.53	-1.45	-0.90	1.05		
Northern Trust Russell 1000 Index (SA)	500,200,680	19.23	21.81	-2.83	7.46	7.46	10.60	10.47	12.02	13.96	7.02	07/01/1998	
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	6.92		
Difference			-0.01	-0.02	-0.02	-0.02	-0.04	0.00	-0.01	-0.01	0.10		
Boston Partners SMID Cap Value Equity (SA)	74,054,700	2.85	21.98	-25.68	-17.89	-17.89	-5.35	0.17	4.04	8.21	7.79	06/01/1997	
Russell 2500 Val Index			20.60	-21.18	-15.50	-15.50	-2.60	1.85	4.74	8.81	8.11		
Difference			1.38	-4.50	-2.39	-2.39	-2.75	-1.68	-0.70	-0.60	-0.32		
Silvercrest Small Cap Growth Equity (SA)	89,878,666	3.45	43.31	4.06	9.79	9.79	11.25	10.96	N/A	N/A	5.75	01/01/2014	
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	7.50		
Difference			12.73	7.12	6.31	6.31	3.39	4.10	N/A	N/A	-1.75		
International Equity	399,687,419	15.36	12.86	-12.35	-5.38	-5.38	0.27	2.18	3.47	4.46	4.62	06/01/2004	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.26		
Difference			-3.26	-1.35	-0.58	-0.58	-0.86	-0.08	-0.24	-0.51	-0.64		
Mondrian International Value Equity (SA)	122,216,792	4.70	8.81	-19.87	-13.29	-13.29	-2.45	0.01	2.74	4.85	4.60	04/01/2004	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.01		
Difference			-7.31	-8.87	-8.49	-8.49	-3.58	-2.25	-0.97	-0.12	-0.41		
Barings Focused EAFE Plus Equity (SA)	148,738,494	5.72	14.77	-7.51	-0.68	-0.68	2.73	4.32	5.06	N/A	4.32	02/01/2012	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.17		
Difference			-1.35	3.49	4.12	4.12	1.60	2.06	1.35	N/A	0.15		

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
AB EM Strategic Core Equity (CF)	86,539,514	3.33	15.13	-8.93	-3.47	-3.47	-0.59	N/A	N/A	N/A	2.85	10/01/2016
MSCI Emg Mkts Index (USD) (Net)		18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	5.00		
Difference		-2.95	0.85	-0.08	-0.08	-2.49	N/A	N/A	N/A	-2.15		
Wasatch EM Small Cap (SA)	42,192,619	1.62	32.78	3.07	16.64	16.64	7.69	4.58	3.97	N/A	4.67	08/01/2012
MSCI Emg Mkts Index (USD) (Net)		18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.96		
Difference		14.70	12.85	20.03	20.03	5.79	1.72	0.75	N/A	1.71		
Fixed Income	537,631,241	20.67	6.64	2.77	4.78	4.78	4.10	4.04	3.77	4.54	5.52	01/01/2000
Bloomberg US Agg Bond Index		2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.21		
Difference		3.74	-3.37	-3.96	-3.96	-1.22	-0.26	-0.19	0.72	0.31		
Agincourt Core Fixed Income (SA)	258,341,873	9.93	4.51	7.06	9.78	9.78	5.89	4.77	4.37	4.31	4.08	07/01/1998
Bloomberg US Agg Bond Index		2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.02		
Difference		1.61	0.92	1.04	1.04	0.57	0.47	0.41	0.49	-0.94		
Loomis Sayles Global World Bond (SA)	85,484,891	3.29	6.84	3.84	4.82	4.82	4.23	4.23	2.68	3.45	3.45	05/01/2008
FTSE Wrld Gov't Bond Index		2.04	4.08	4.60	4.60	3.98	3.70	2.21	2.37	2.43		
Difference		4.80	-0.24	0.22	0.22	0.25	0.53	0.47	1.08	1.02		
Oaktree Global Credit (SA)	133,698,451	5.14	10.81	-6.17	-4.74	-4.74	0.48	2.50	3.35	5.17	5.30	01/01/1998
Oaktree Global Credit Custom Index		10.60	-4.49	-1.42	-1.42	0.66	1.51	1.96	2.43	N/A		
Difference		0.21	-1.68	-3.32	-3.32	-0.18	0.99	1.39	2.74	N/A		
Private Credit	60,106,025	2.31	0.45	2.49	6.55	6.55	9.15	N/A	N/A	N/A	8.16	09/01/2016
Apollo Accord III LP	12,695,126	0.49	1.24	4.66	N/A	N/A	N/A	N/A	N/A	N/A	4.66	10/01/2019
Apollo Accord IIIB LP	5,000,000	0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	06/01/2020
LBC Credit Partners IV LP	25,748,347	0.99	0.53	1.61	5.14	5.14	8.13	N/A	N/A	N/A	7.24	09/01/2016
Newstone Capital Partners III LP	16,662,552	0.64	0.19	1.79	6.50	6.50	10.08	N/A	N/A	N/A	10.20	01/01/2017

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Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Core Real Estate	269,723,177	10.37	-2.77	-1.11	1.06	1.06	4.55	6.56	8.21	N/A	10.04	12/01/2010
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	9.65	
Difference			-1.02	-0.10	-0.27	-0.27	-0.17	0.21	0.12	N/A	0.39	
JP Morgan Strategic Property (CF)	150,762,476	5.79	-2.21	-0.91	1.36	1.36	4.21	5.95	7.90	9.97	5.06	11/01/2007
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.18	
Difference			-0.46	0.10	0.03	0.03	-0.51	-0.40	-0.19	0.19	0.88	
Blackstone Property Partners (CF)	114,040,118	4.38	-4.00	-1.72	0.66	0.66	5.74	8.28	N/A	N/A	7.99	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-2.25	-0.71	-0.67	-0.67	1.02	1.93	N/A	N/A	0.72	
Columbus Square (SA)	4,920,583	0.19	0.94	1.46	3.04	3.04	5.18	8.26	7.77	11.32	10.05	03/01/1995
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.82	
Difference			2.69	2.47	1.71	1.71	0.46	1.91	-0.32	1.54	2.23	
Private Real Estate	56,175,469	2.16	-3.38	-0.47	5.10	5.10	8.30	8.69	10.65	N/A	8.82	08/01/2011
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.85	
Difference			-1.63	0.54	3.77	3.77	3.58	2.34	2.56	N/A	-0.03	
Angelo Gordon Realty Value X LP	5,602,430	0.22	-2.21	0.29	-16.89	-16.89	N/A	N/A	N/A	N/A	-15.70	06/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.68	
Difference			-0.46	1.30	-18.22	-18.22	N/A	N/A	N/A	N/A	-17.38	
Blackstone Real Estate Partners IX LP	4,674,824	0.18	-4.72	-5.28	N/A	N/A	N/A	N/A	N/A	N/A	6.69	09/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.33	
Difference			-2.97	-4.27	N/A	N/A	N/A	N/A	N/A	N/A	5.36	
Cerberus Real Estate III LP	9,111,520	0.35	0.48	5.33	9.30	9.30	7.03	8.94	9.96	N/A	9.96	07/01/2013
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.09	
Difference			2.23	6.34	7.97	7.97	2.31	2.59	1.87	N/A	1.87	
Cerberus Real Estate Partners IV LP	12,098,873	0.47	-6.82	-4.95	2.97	2.97	2.65	N/A	N/A	N/A	-19.93	06/01/2016
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	5.41	
Difference			-5.07	-3.94	1.64	1.64	-2.07	N/A	N/A	N/A	-25.34	
Hall Capital III LP	5,620,322	0.22	0.16	3.51	6.15	6.15	-1.08	4.88	N/A	N/A	1.40	11/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			1.91	4.52	4.82	4.82	-5.80	-1.47	N/A	N/A	-5.87	

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Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Siguler Guff Distressed Real Estate Opp LP	3,970,125	0.15	-2.89	1.52	3.93	3.93	13.65	10.91	15.64	N/A	13.00	08/01/2011	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.77		
Difference			-1.14	2.53	2.60	2.60	8.93	4.56	7.55	N/A	4.23		
Siguler Guff Distressed Real Estate Opp II LP	6,632,979	0.25	-2.41	1.17	3.06	3.06	11.85	9.34	N/A	N/A	6.86	12/01/2014	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27		
Difference			-0.66	2.18	1.73	1.73	7.13	2.99	N/A	N/A	-0.41		
Siguler Guff Distressed Real Estate Opp IIB LP	6,200,739	0.24	-5.57	-3.20	1.78	1.78	N/A	N/A	N/A	N/A	9.86	12/01/2017	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.54		
Difference			-3.82	-2.19	0.45	0.45	N/A	N/A	N/A	N/A	5.32		
TA Associates Realty X	2,263,657	0.09	-9.61	-7.14	6.61	6.61	12.80	10.29	10.84	N/A	10.12	01/01/2013	
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.38		
Difference			-7.86	-6.13	5.28	5.28	8.08	3.94	2.75	N/A	1.74		
Other Real Assets													
Mount Lucas Peak	22,803,799	0.88	1.19	-14.10	-14.59	-14.59	-8.14	-5.71	-1.16	-2.29	3.06	05/01/2004	
Long/Short Equity													
HFRI FOF: Strategic Index	230,113,659	8.85	16.15	6.26	11.79	11.79	7.39	5.26	6.54	N/A	6.06	12/01/2010	
Difference			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	2.59		
Grosvenor Long/Short Equity (CF)	5.12	8.40	11.27	11.27	5.33	3.82	3.59	N/A	N/A	3.47			
HFRI FOF: Strategic Index	86,059,701	3.31	6.53	-2.53	2.53	2.53	4.34	3.46	5.28	5.71	4.72	09/01/2003	
Difference			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	3.56		
-4.50	-0.39	2.01	2.01	2.28	2.02	2.33	2.63	1.16					
K2 Mauna Kea LLC	144,053,958	5.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.16	06/01/2020	
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	2.85		
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.69		
Absolute Return	164,398,235	6.32	2.33	-2.08	-1.01	-1.01	1.41	0.18	1.74	N/A	2.53	12/01/2010	
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.33		
Difference			-3.33	-0.14	-0.62	-0.62	-0.52	-1.31	-0.65	N/A	0.20		
PAAMCO (CF)	86,527,369	3.33	3.79	-4.86	-3.58	-3.58	-0.48	-0.75	1.06	2.39	3.98	10/01/2002	
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.87		
Difference			-1.87	-2.92	-3.19	-3.19	-2.41	-2.24	-1.33	-0.18	1.11		

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Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Wellington Global Total Return (CF)	77,870,866	2.99	0.75	1.21	2.00	2.00	4.48	N/A	N/A	N/A	3.68	12/01/2016
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.29	
Difference			-4.91	3.15	2.39	2.39	2.55	N/A	N/A	N/A	1.39	
Private Equity	218,356,871	8.39	-5.55	-3.57	2.27	2.27	9.52	7.76	9.86	10.42	8.79	05/01/2007
Cambridge US Prvt Eq Index			0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	9.39	
Difference			-5.55	6.50	7.78	7.78	2.26	-0.61	-0.53	-1.64	-0.60	
Accel Europe LP	803,693	0.03	-8.45	-7.43	-12.23	-12.23	-7.19	-5.27	-1.04	7.00	4.40	06/01/2001
Actis EM IV LP	4,163,000	0.16	-16.54	-14.89	-17.59	-17.59	5.82	2.80	3.28	N/A	-0.05	03/01/2012
Apollo EPF III LP	4,502,083	0.17	9.43	8.65	14.35	14.35	N/A	N/A	N/A	N/A	-0.55	01/01/2018
Apollo Investment IX LP	2,780,419	0.11	-4.00	-1.08	-16.01	-16.01	N/A	N/A	N/A	N/A	-45.60	03/01/2019
Apollo Investment VIII LP	5,047,991	0.19	-18.89	-14.66	-6.49	-6.49	3.06	6.38	N/A	N/A	-1.85	02/01/2014
ArcLight Energy Partners VI LP	4,716,316	0.18	-25.60	-28.74	-31.69	-31.69	-3.19	N/A	N/A	N/A	-1.29	08/01/2015
ArcLight Energy Partners VII LP	623,727	0.02	32.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-186.28	02/01/2020
Arsenal Capital Partners III LP	1,821,622	0.07	-6.55	-20.70	-33.22	-33.22	28.56	23.16	16.98	N/A	14.26	04/01/2012
CenterOak Equity I LP	6,582,298	0.25	-0.84	5.24	20.87	20.87	16.30	N/A	N/A	N/A	14.21	01/01/2016
EnCap Energy IX LP	2,080,861	0.08	-36.91	-48.17	-53.49	-53.49	-19.91	-3.99	-0.61	N/A	-2.54	02/01/2013
EnCap Energy X LP	4,332,390	0.17	-35.77	-35.80	-36.17	-36.17	-6.26	-4.11	N/A	N/A	-3.91	04/01/2015
EnCap Energy XI LP	1,777,661	0.07	-26.85	-33.28	-36.53	-36.53	-29.22	N/A	N/A	N/A	-28.56	06/01/2017
Firstmark Capital III LP	9,602,729	0.37	-0.53	32.86	30.34	30.34	24.94	19.26	N/A	N/A	4.16	02/01/2014
Firstmark Capital IV LP	5,623,442	0.22	6.10	4.14	5.02	5.02	-2.94	N/A	N/A	N/A	-2.79	05/01/2017
Firstmark Capital Opportunity I LP	6,186,570	0.24	0.14	3.05	1.85	1.85	16.97	11.33	N/A	N/A	11.49	06/01/2014
FirstMark Capital Opportunity II LP	8,656,278	0.33	0.12	14.24	16.72	16.72	N/A	N/A	N/A	N/A	8.66	01/01/2018
FirstMark Capital Opportunity III LP	750,000	0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020
Firstmark V LP	10,005,754	0.38	2.80	16.23	26.25	26.25	18.51	16.83	15.40	N/A	10.99	08/01/2011

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Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
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	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Francisco Partners IV LP	9,698,652	0.37	-3.81	1.98	32.71	32.71	32.29	21.49	N/A	N/A	20.37	04/01/2015	
Francisco Partners V LP	5,632,850	0.22	-4.87	0.04	3.32	3.32	N/A	N/A	N/A	N/A	5.08	07/01/2018	
Knightsbridge VI LP	5,287,020	0.20	-0.37	-0.37	7.01	7.01	10.03	4.88	8.25	8.16	11.85	02/01/2005	
Leonard Green Equity Investors VII LP	7,136,199	0.27	-4.16	0.96	7.95	7.95	4.11	N/A	N/A	N/A	3.89	05/01/2017	
Leonard Green Equity Investors VIII LP	-	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020	
Leonard Green Jade LP	799,773	0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	05/01/2020	
Levine Leichtman IV LP	844,163	0.03	-5.09	-6.38	-22.55	-22.55	-16.26	-4.19	-1.59	6.83	0.88	09/01/2008	
Levine Leichtman LP	63,864	0.00	-0.01	-8.12	-14.60	-14.60	38.85	17.88	18.49	14.28	11.10	08/01/2003	
Lexington VI LP	1,352,491	0.05	-0.07	-0.07	1.43	1.43	10.33	5.38	7.70	9.29	18.78	02/01/2006	
Newstone Capital Partners II LP	861,365	0.03	1.62	27.45	11.50	11.50	14.84	12.06	15.19	N/A	11.64	12/01/2010	
North Sky Clean Growth V LP	10,018,863	0.39	3.83	32.48	N/A	N/A	N/A	N/A	N/A	N/A	32.48	09/01/2019	
Oaktree European Dislocation LP	212,565	0.01	-5.66	-21.41	-25.15	-25.15	-8.72	-1.49	N/A	N/A	-1.07	11/01/2013	
Oaktree Opportunities IX LP	4,304,119	0.17	-22.11	-18.81	-16.57	-16.57	-0.76	-0.19	0.46	N/A	0.40	07/01/2012	
Oaktree Opportunities V LP	1,700	0.00	-10.85	-16.87	20.31	20.31	7.30	1.55	3.55	6.39	3.67	07/01/2004	
Oaktree Opportunities VI LP	254	0.00	-30.98	-52.26	-34.37	-34.37	N/A	N/A	N/A	N/A	N/A	08/01/2005	
Oaktree Opportunities VII A LP	53,819	0.00	-4.77	-17.09	-18.44	-18.44	-5.49	-8.35	-5.01	0.02	1.43	03/01/2007	
Oaktree Opportunities VII B LP	16,657	0.00	-0.77	2.52	-3.23	-3.23	4.09	4.67	2.86	7.20	9.92	06/01/2008	
Oaktree Opportunities VIII LP	157,623	0.01	-23.92	-18.74	-11.38	-11.38	-0.07	0.00	2.01	5.59	6.07	03/01/2010	
Oaktree Opportunities X LP	6,477,645	0.25	-7.85	-8.34	-8.67	-8.67	4.01	15.76	N/A	N/A	15.76	07/01/2015	
Oaktree Opportunities Xb LP	2,424,962	0.09	-17.82	-14.85	-25.83	-25.83	N/A	N/A	N/A	N/A	-13.31	04/01/2018	
Pequot Firstmark IV LP	9,356,187	0.36	-12.52	-29.64	-20.36	-20.36	-5.09	-1.06	12.54	20.69	18.92	11/01/2005	
Siguler Guff Distressed Opportunities III LP	2,163,384	0.08	-5.69	3.62	6.80	6.80	7.53	6.48	6.48	7.19	9.15	09/01/2008	

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Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Net of Fees

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	Allocation						Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Sun Capital Partners V LP	2,494,815	0.10	-21.16	-18.46	-32.81	-32.81	-25.23	-17.58	-10.50	-4.11	-5.67	05/01/2007	
TA XIII LP	1,258,209	0.05	-11.43	-16.12	N/A	N/A	N/A	N/A	N/A	N/A	-16.12	12/01/2019	
TCW Mezzanine V LP	357,220	0.01	-13.91	30.23	86.12	86.12	13.53	10.70	10.65	13.11	N/A	01/01/2008	
Thompson Street Capital II LP	2,055,418	0.08	-2.67	0.40	21.43	21.43	8.60	8.12	16.20	18.56	14.53	01/01/2007	
Thompson Street Capital III LP	3,994,701	0.15	-14.18	-9.86	-9.63	-9.63	-0.24	10.14	14.89	N/A	-42.14	10/01/2011	
Thompson Street Capital IV LP	8,540,723	0.33	-0.14	7.87	20.45	20.45	16.59	N/A	N/A	N/A	-240.90	01/01/2016	
Thompson Street Capital V LP	4,282,844	0.16	-4.93	-6.50	-6.50	-6.50	N/A	N/A	N/A	N/A	-17.34	08/01/2018	
Warburg Pincus Global Growth LP	8,543,316	0.33	-0.69	-5.61	-17.52	-17.52	N/A	N/A	N/A	N/A	-31.83	03/01/2019	
Warburg Pincus LP	2,007,115	0.08	-5.19	-6.80	21.16	21.16	13.27	9.66	10.85	10.46	5.67	10/01/2007	
Warburg Pincus XII LP	10,473,494	0.40	-4.31	-0.70	16.14	16.14	13.53	N/A	N/A	N/A	-3.86	12/01/2015	
Warburg Pincus XI LP	3,781,311	0.15	-16.00	-15.78	-13.34	-13.34	4.25	5.89	8.65	N/A	7.87	10/01/2012	
Weathergage Venture Capital II LP	10,121,264	0.39	0.97	0.97	7.36	7.36	15.85	13.99	16.57	N/A	12.22	04/01/2011	
Weathergage Venture Capital IV LP	9,307,530	0.36	11.72	11.72	22.43	22.43	10.73	N/A	N/A	N/A	19.57	12/01/2016	
Weathergage Venture Capital LP	4,088,665	0.16	-0.30	-0.30	2.73	2.73	8.57	5.46	12.87	12.70	0.73	03/01/2007	

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Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
OPPRS Total Fund	2,601,598,897	100.00	9.15	-2.91	2.50	2.50	5.27	5.35	6.49	7.65	8.15	07/01/1985	
OPPRS Policy Index		12.02	-2.24	3.68	3.68	5.68	5.49	6.35	8.13	N/A			
Difference		-2.87	-0.67	-1.18	-1.18	-0.41	-0.14	0.14	-0.48	N/A			
OPPRS Actual Allocation Index		12.02	-1.16	3.70	3.70	5.45	5.18	6.18	7.92	N/A			
Difference		-2.87	-1.75	-1.20	-1.20	-0.18	0.17	0.31	-0.27	N/A			
Actuarial Discount Rate (7.5%)		1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50		
Difference		7.33	-6.59	-5.00	-5.00	-2.23	-2.15	-1.01	0.15	0.65			
All Public Plans-Total Fund Median		12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.50			
Rank		82	54	59	59	63	72	64	64	84			
US Equity	664,134,046	25.53	24.53	-4.57	4.82	4.82	8.82	9.43	10.91	13.29	6.96	01/01/2000	
S&P 500 Index (Cap Wtd)		20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	5.74			
Difference		3.99	-1.49	-2.69	-2.69	-1.91	-1.30	-1.22	-0.70	1.22			
All Public Plans-US Equity Segment Median		21.87	-4.86	4.26	4.26	8.72	8.91	10.68	13.15	N/A			
Rank		10	42	36	36	49	36	42	44	N/A			
Northern Trust Russell 1000 Index (SA)	500,200,680	19.23	21.81	-2.82	7.48	7.48	10.62	10.48	12.04	13.98	7.04	07/01/1998	
Russell 1000 Index		21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	6.92			
Difference		-0.01	-0.01	0.00	0.00	-0.02	0.01	0.01	0.01	0.12			
IM U.S. Large Cap Core Equity (SA+CF) Median		20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	7.56			
Rank		27	33	32	32	37	36	43	45	67			
Boston Partners SMID Cap Value Equity (SA)	74,054,700	2.85	22.11	-25.23	-17.39	-17.39	-4.74	0.80	4.67	8.76	8.27	06/01/1997	
Russell 2500 Val Index		20.60	-21.18	-15.50	-15.50	-2.60	1.85	4.74	8.81	8.11			
Difference		1.51	-4.05	-1.89	-1.89	-2.14	-1.05	-0.07	-0.05	0.16			
IM U.S. SMID Cap Value Equity (SA+CF) Median		21.87	-19.80	-13.05	-13.05	-1.24	2.83	6.27	10.02	9.81			
Rank		47	93	74	74	84	72	79	84	93			
Silvercrest Small Cap Growth Equity (SA)	89,878,666	3.45	43.58	4.50	10.73	10.73	12.21	11.94	N/A	N/A	6.72	01/01/2014	
Russell 2000 Grth Index		30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	7.50			
Difference		13.00	7.56	7.25	7.25	4.35	5.08	N/A	N/A	-0.78			
IM U.S. Small Cap Growth Equity (SA+CF) Median		32.78	1.16	5.99	5.99	12.27	10.20	12.31	15.04	9.98			
Rank		14	44	36	36	51	30	N/A	N/A	82			

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Oklahoma State Pension Commission
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	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
International Equity	399,687,419	15.36	12.90	-12.26	-5.13	-5.13	0.52	2.48	3.81	4.82	5.03	06/01/2004
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.26	
Difference			-3.22	-1.26	-0.33	-0.33	-0.61	0.22	0.10	-0.15	-0.23	
All Public Plans-Intl. Equity Segment Median			17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	6.22	
Rank			96	84	79	79	88	80	95	97	98	
Mondrian International Value Equity (SA)	122,216,792	4.70	8.93	-19.79	-13.19	-13.19	-2.41	0.03	2.76	4.97	4.83	04/01/2004
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	5.01	
Difference			-7.19	-8.79	-8.39	-8.39	-3.54	-2.23	-0.95	0.00	-0.18	
IM ACWI Ex US Value (SA+CF) Median			16.19	-14.86	-8.60	-8.60	-0.76	1.20	3.46	5.94	6.00	
Rank			100	85	88	88	72	78	69	67	73	
Barings Focused EAFE Plus Equity (SA)	148,738,494	5.72	14.77	-7.42	-0.28	-0.28	3.08	4.79	5.57	N/A	4.75	02/01/2012
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.17	
Difference			-1.35	3.58	4.52	4.52	1.95	2.53	1.86	N/A	0.58	
IM All EAFE (SA+CF) Median			16.29	-10.95	-3.80	-3.80	1.36	2.27	4.76	7.04	6.10	
Rank			73	32	33	33	34	23	34	N/A	84	
AB EM Strategic Core Equity (CF)	86,539,514	3.33	15.13	-8.93	-3.47	-3.47	-0.59	N/A	N/A	N/A	2.85	10/01/2016
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	5.00	
Difference			-2.95	0.85	-0.08	-0.08	-2.49	N/A	N/A	N/A	-2.15	
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	4.75	
Rank			88	40	50	50	71	N/A	N/A	N/A	69	
Wasatch EM Small Cap (SA)	42,192,619	1.62	32.78	3.43	17.88	17.88	9.15	5.95	5.12	N/A	5.69	08/01/2012
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.96	
Difference			14.70	13.21	21.27	21.27	7.25	3.09	1.90	N/A	2.73	
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	4.15	
Rank			6	8	4	4	5	23	32	N/A	30	

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Oklahoma State Pension Commission
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	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Fixed Income	537,631,241	20.67	6.62	2.81	4.97	4.97	4.37	4.34	4.05	4.75	5.66	01/01/2000
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.21	
Difference			3.72	-3.33	-3.77	-3.77	-0.95	0.04	0.09	0.93	0.45	
Agincourt Core Fixed Income (SA)	258,341,873	9.93	4.55	7.10	9.88	9.88	6.04	4.94	4.53	4.46	5.45	07/01/1998
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.02	
Difference			1.65	0.96	1.14	1.14	0.72	0.64	0.57	0.64	0.43	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			4.42	6.24	8.93	8.93	5.57	4.70	4.41	4.34	5.39	
Rank			45	17	18	18	14	22	38	37	46	
Oaktree Global Credit (SA)	133,698,451	5.14	10.92	-5.93	-4.20	-4.20	1.00	3.03	3.84	5.52	5.72	01/01/1998
Oaktree Global Credit Custom Index			10.60	-4.49	-1.42	-1.42	0.66	1.51	1.96	2.43	N/A	
Difference			0.32	-1.44	-2.78	-2.78	0.34	1.52	1.88	3.09	N/A	
IM Global Fixed Income (SA+CF) Median			7.93	0.16	2.66	2.66	3.70	4.17	3.66	4.13	5.80	
Rank			20	87	93	93	87	80	45	24	55	
Loomis Sayles Global World Bond (SA)	85,484,891	3.29	6.93	4.01	5.18	5.18	4.58	4.57	2.99	3.67	3.64	05/01/2008
FTSE Wrld Gov't Bond Index			2.04	4.08	4.60	4.60	3.98	3.70	2.21	2.37	2.43	
Difference			4.89	-0.07	0.58	0.58	0.60	0.87	0.78	1.30	1.21	
IM Global Fixed Income (SA+CF) Median			7.93	0.16	2.66	2.66	3.70	4.17	3.66	4.13	4.38	
Rank			63	18	27	27	30	33	63	60	67	
Private Credit	60,106,025	2.31	0.45	2.49	6.55	6.55	9.15	N/A	N/A	N/A	8.16	09/01/2016
Apollo Accord III LP	12,695,126	0.49	1.24	4.66	N/A	N/A	N/A	N/A	N/A	N/A	4.66	10/01/2019
Apollo Accord IIIB LP	5,000,000	0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020
LBC Credit Partners IV LP	25,748,347	0.99	0.53	1.61	5.14	5.14	8.13	N/A	N/A	N/A	7.24	09/01/2016
Newstone Capital Partners III LP	16,662,552	0.64	0.19	1.79	6.50	6.50	10.08	N/A	N/A	N/A	10.20	01/01/2017

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	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Core Real Estate	269,723,177	10.37	-2.66	-0.60	1.99	1.99	5.56	7.56	9.29	N/A	10.89	12/01/2010
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	9.65	
Difference			-0.91	0.41	0.66	0.66	0.84	1.21	1.20	N/A	1.24	
JP Morgan Strategic Property (CF)	150,762,476	5.79	-2.02	-0.49	2.25	2.25	5.13	6.86	8.78	10.62	5.55	11/01/2007
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.18	
Difference			-0.27	0.52	0.92	0.92	0.41	0.51	0.69	0.84	1.37	
Blackstone Property Partners (CF)	114,040,118	4.38	-4.00	-1.07	1.64	1.64	7.10	9.43	N/A	N/A	9.02	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-2.25	-0.06	0.31	0.31	2.38	3.08	N/A	N/A	1.75	
Columbus Square (SA)	4,920,583	0.19	0.94	1.46	3.04	3.04	5.18	9.98	11.87	14.53	15.03	03/01/1995
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.82	
Difference			2.69	2.47	1.71	1.71	0.46	3.63	3.78	4.75	7.21	
Private Real Estate	56,175,469	2.16	-3.38	-0.47	5.10	5.10	8.30	8.69	10.65	N/A	8.82	08/01/2011
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.85	
Difference			-1.63	0.54	3.77	3.77	3.58	2.34	2.56	N/A	-0.03	
Angelo Gordon Realty Value X LP	5,602,430	0.22	-2.21	0.29	-16.89	-16.89	N/A	N/A	N/A	N/A	-15.70	06/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.68	
Difference			-0.46	1.30	-18.22	-18.22	N/A	N/A	N/A	N/A	-17.38	
Blackstone Real Estate Partners IX LP	4,674,824	0.18	-4.72	-5.28	N/A	N/A	N/A	N/A	N/A	N/A	6.69	09/01/2019
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	1.33	
Difference			-2.97	-4.27	N/A	N/A	N/A	N/A	N/A	N/A	5.36	
Cerberus Real Estate III LP	9,111,520	0.35	0.48	5.33	9.30	9.30	7.03	8.94	9.96	N/A	9.96	07/01/2013
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.09	
Difference			2.23	6.34	7.97	7.97	2.31	2.59	1.87	N/A	1.87	
Cerberus Real Estate Partners IV LP	12,098,873	0.47	-6.82	-4.95	2.97	2.97	2.65	N/A	N/A	N/A	-19.93	06/01/2016
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	5.41	
Difference			-5.07	-3.94	1.64	1.64	-2.07	N/A	N/A	N/A	-25.34	
Hall Capital III LP	5,620,322	0.22	0.16	3.51	6.15	6.15	-1.08	4.88	N/A	N/A	1.40	11/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			1.91	4.52	4.82	4.82	-5.80	-1.47	N/A	N/A	-5.87	
Siguler Guff Distressed Real Estate Opp LP	3,970,125	0.15	-2.89	1.52	3.93	3.93	13.65	10.91	15.64	N/A	13.00	08/01/2011
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.77	
Difference			-1.14	2.53	2.60	2.60	8.93	4.56	7.55	N/A	4.23	

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	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Siguler Guff Distressed Real Estate Opp II LP	6,632,979	0.25	-2.41	1.17	3.06	3.06	11.85	9.34	N/A	N/A	6.86	12/01/2014
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	7.27	
Difference			-0.66	2.18	1.73	1.73	7.13	2.99	N/A	N/A	-0.41	
Siguler Guff Distressed Real Estate Opp IIB LP	6,200,739	0.24	-5.57	-3.20	1.78	1.78	N/A	N/A	N/A	N/A	9.86	12/01/2017
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	4.54	
Difference			-3.82	-2.19	0.45	0.45	N/A	N/A	N/A	N/A	5.32	
TA Associates Realty X	2,263,657	0.09	-9.61	-7.14	6.61	6.61	12.80	10.29	10.84	N/A	10.12	01/01/2013
NCREIF ODCE Index (AWA) (Net)			-1.75	-1.01	1.33	1.33	4.72	6.35	8.09	9.78	8.38	
Difference			-7.86	-6.13	5.28	5.28	8.08	3.94	2.75	N/A	1.74	
Other Real Assets												
Mount Lucas Peak	22,803,799	0.88	1.19	-13.89	-13.92	-13.92	-7.32	-4.75	-0.10	-1.39	3.65	05/01/2004
Long/Short Equity	230,113,659	8.85	16.15	6.26	12.04	12.04	7.77	5.63	6.88	N/A	6.39	12/01/2010
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	2.59	
Difference			5.12	8.40	11.52	11.52	5.71	4.19	3.93	N/A	3.80	
Grosvenor Long/Short Equity (CF)	86,059,701	3.31	6.53	-2.53	2.76	2.76	4.71	3.82	5.62	6.05	4.93	09/01/2003
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	3.56	
Difference			-4.50	-0.39	2.24	2.24	2.65	2.38	2.67	2.97	1.37	
K2 Mauna Kea LLC	144,053,958	5.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.16	06/01/2020
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	2.85	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.69	
Absolute Return	164,398,235	6.32	2.33	-1.93	-0.55	-0.55	2.02	0.87	2.38	N/A	3.01	12/01/2010
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.33	
Difference			-3.33	0.01	-0.16	-0.16	0.09	-0.62	-0.01	N/A	0.68	
PAAMCO (CF)	86,527,369	3.33	3.79	-4.65	-2.93	-2.93	0.34	0.08	1.81	2.92	4.28	10/01/2002
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.87	
Difference			-1.87	-2.71	-2.54	-2.54	-1.59	-1.41	-0.58	0.35	1.41	
Wellington Global Total Return (CF)	77,870,866	2.99	0.75	1.27	2.18	2.18	4.70	N/A	N/A	N/A	3.89	12/01/2016
HFRI FOF: Cnsvt Index			5.66	-1.94	-0.39	-0.39	1.93	1.49	2.39	2.57	2.29	
Difference			-4.91	3.21	2.57	2.57	2.77	N/A	N/A	N/A	1.60	

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Private Equity	218,356,871	8.39	-5.43	-3.44	2.41	2.41	9.57	7.81	9.92	10.56	8.89	05/01/2007
Cambridge US Prvt Eq Index Difference			0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	9.39	
-5.43			6.63	7.92	7.92	2.31	-0.56	-0.47	-1.50	-0.50		
Accel Europe LP	803,693	0.03	-8.45	-7.43	-12.23	-12.23	-7.19	-5.27	-1.04	7.00	4.40	06/01/2001
Actis EM IV LP	4,163,000	0.16	-16.54	-14.89	-17.59	-17.59	5.82	2.80	3.28	N/A	-0.05	03/01/2012
Apollo EPF III LP	4,502,083	0.17	10.50	9.71	15.46	15.46	N/A	N/A	N/A	N/A	-0.17	01/01/2018
Apollo Investment IX LP	2,780,419	0.11	0.24	3.29	-12.31	-12.31	N/A	N/A	N/A	N/A	-43.81	03/01/2019
Apollo Investment VIII LP	5,047,991	0.19	-18.79	-14.56	-6.37	-6.37	3.10	6.41	N/A	N/A	-1.83	02/01/2014
ArcLight Energy Partners VI LP	4,716,316	0.18	-25.60	-28.74	-31.69	-31.69	-3.19	N/A	N/A	N/A	-1.29	08/01/2015
ArcLight Energy Partners VII LP	623,727	0.02	32.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-186.28	02/01/2020
Arsenal Capital Partners III LP	1,821,622	0.07	-6.55	-20.70	-33.22	-33.22	28.56	23.16	16.98	N/A	14.26	04/01/2012
CenterOak Equity I LP	6,582,298	0.25	-0.84	5.24	20.87	20.87	16.30	N/A	N/A	N/A	14.21	01/01/2016
EnCap Energy IX LP	2,080,861	0.08	-36.56	-47.87	-53.22	-53.22	-19.76	-3.88	-0.53	N/A	-2.47	02/01/2013
EnCap Energy X LP	4,332,390	0.17	-35.49	-35.52	-35.89	-35.89	-6.12	-4.02	N/A	N/A	-3.84	04/01/2015
EnCap Energy XI LP	1,777,661	0.07	-25.26	-31.83	-35.15	-35.15	-28.72	N/A	N/A	N/A	-28.06	06/01/2017
Firstmark Capital III LP	9,602,729	0.37	-0.53	32.86	30.34	30.34	24.94	19.26	N/A	N/A	4.16	02/01/2014
Firstmark Capital IV LP	5,623,442	0.22	6.10	4.14	5.02	5.02	-2.94	N/A	N/A	N/A	-2.79	05/01/2017
Firstmark Capital Opportunity I LP	6,186,570	0.24	0.14	3.05	1.85	1.85	16.97	11.33	N/A	N/A	11.49	06/01/2014
FirstMark Capital Opportunity II LP	8,656,278	0.33	0.12	14.24	16.72	16.72	N/A	N/A	N/A	N/A	8.66	01/01/2018
FirstMark Capital Opportunity III LP	750,000	0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020
Firstmark V LP	10,005,754	0.38	2.80	16.23	26.25	26.25	18.51	16.83	15.40	N/A	10.99	08/01/2011
Francisco Partners IV LP	9,698,652	0.37	-3.81	1.98	32.71	32.71	32.29	21.49	N/A	N/A	20.37	04/01/2015
Francisco Partners V LP	5,632,850	0.22	-4.87	0.04	3.32	3.32	N/A	N/A	N/A	N/A	5.08	07/01/2018
Knightsbridge VI LP	5,287,020	0.20	-0.37	-0.37	7.01	7.01	10.03	4.88	8.25	8.16	11.85	02/01/2005
Leonard Green Equity Investors VII LP	7,136,199	0.27	-4.16	0.96	7.95	7.95	4.11	N/A	N/A	N/A	3.89	05/01/2017

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Leonard Green Equity Investors VIII LP	-	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020	
Leonard Green Jade LP	799,773	0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	06/01/2020	
Levine Leichtman IV LP	844,163	0.03	-5.09	-6.38	-22.55	-22.55	-16.26	-4.19	-1.52	7.83	1.68	09/01/2008	
Levine Leichtman LP	63,864	0.00	-0.01	-8.12	-14.60	-14.60	38.85	17.88	18.49	14.64	11.31	08/01/2003	
Lexington VI LP	1,352,491	0.05	-0.07	-0.07	1.43	1.43	10.33	5.38	7.70	9.29	18.78	02/01/2006	
Newstone Capital Partners II LP	861,365	0.03	1.62	27.45	11.50	11.50	14.84	12.06	15.19	N/A	11.64	12/01/2010	
North Sky Clean Growth V LP	10,018,863	0.39	3.83	32.48	N/A	N/A	N/A	N/A	N/A	N/A	32.48	09/01/2019	
Oaktree European Dislocation LP	212,565	0.01	-5.66	-21.41	-25.15	-25.15	-8.72	-1.49	N/A	N/A	-1.07	11/01/2013	
Oaktree Opportunities IX LP	4,304,119	0.17	-22.11	-18.81	-16.57	-16.57	-0.76	-0.19	0.46	N/A	0.40	07/01/2012	
Oaktree Opportunities V LP	1,700	0.00	-10.85	-16.87	20.31	20.31	7.30	1.55	3.55	6.39	3.67	07/01/2004	
Oaktree Opportunities VI LP	254	0.00	-30.98	-52.26	-34.37	-34.37	N/A	N/A	N/A	N/A	N/A	08/01/2005	
Oaktree Opportunities VII A LP	53,819	0.00	-4.77	-17.09	-18.44	-18.44	-5.49	-8.35	-5.01	0.24	1.60	03/01/2007	
Oaktree Opportunities VII B LP	16,657	0.00	-0.77	2.52	-3.23	-3.23	4.09	4.67	2.86	7.20	9.92	06/01/2008	
Oaktree Opportunities VIII LP	157,623	0.01	-23.92	-18.74	-11.38	-11.38	-0.07	0.00	2.01	5.59	6.07	03/01/2010	
Oaktree Opportunities X LP	6,477,645	0.25	-7.85	-8.34	-8.67	-8.67	4.01	15.76	N/A	N/A	15.76	07/01/2015	
Oaktree Opportunities Xb LP	2,424,962	0.09	-17.82	-14.85	-25.83	-25.83	N/A	N/A	N/A	N/A	-13.31	04/01/2018	
Pequot Firstmark IV LP	9,356,187	0.36	-12.52	-29.64	-20.36	-20.36	-5.09	-1.06	12.54	20.69	18.92	11/01/2005	
Siguler Guff Distressed Opportunities III LP	2,163,384	0.08	-5.69	3.62	6.80	6.80	7.53	6.48	6.48	7.19	9.15	09/01/2008	
Sun Capital Partners V LP	2,494,815	0.10	-21.16	-18.46	-32.81	-32.81	-25.23	-17.58	-10.50	-4.11	-5.67	05/01/2007	
TA XIII LP	1,258,209	0.05	-11.43	-16.12	N/A	N/A	N/A	N/A	N/A	N/A	-16.12	12/01/2019	
TCW Mezzanine V LP	357,220	0.01	-13.91	30.23	86.12	86.12	13.53	10.70	10.65	13.11	N/A	01/01/2008	
Thompson Street Capital II LP	2,055,418	0.08	-2.67	0.40	21.43	21.43	8.60	8.18	16.37	19.15	14.95	01/01/2007	
Thompson Street Capital III LP	3,994,701	0.15	-13.90	-9.56	-9.33	-9.33	-0.13	10.39	15.10	N/A	11.43	10/01/2011	
Thompson Street Capital IV LP	8,540,723	0.33	0.16	8.20	20.81	20.81	16.70	N/A	N/A	N/A	-240.99	01/01/2016	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Asset Allocation & Performance - Gross of Fees

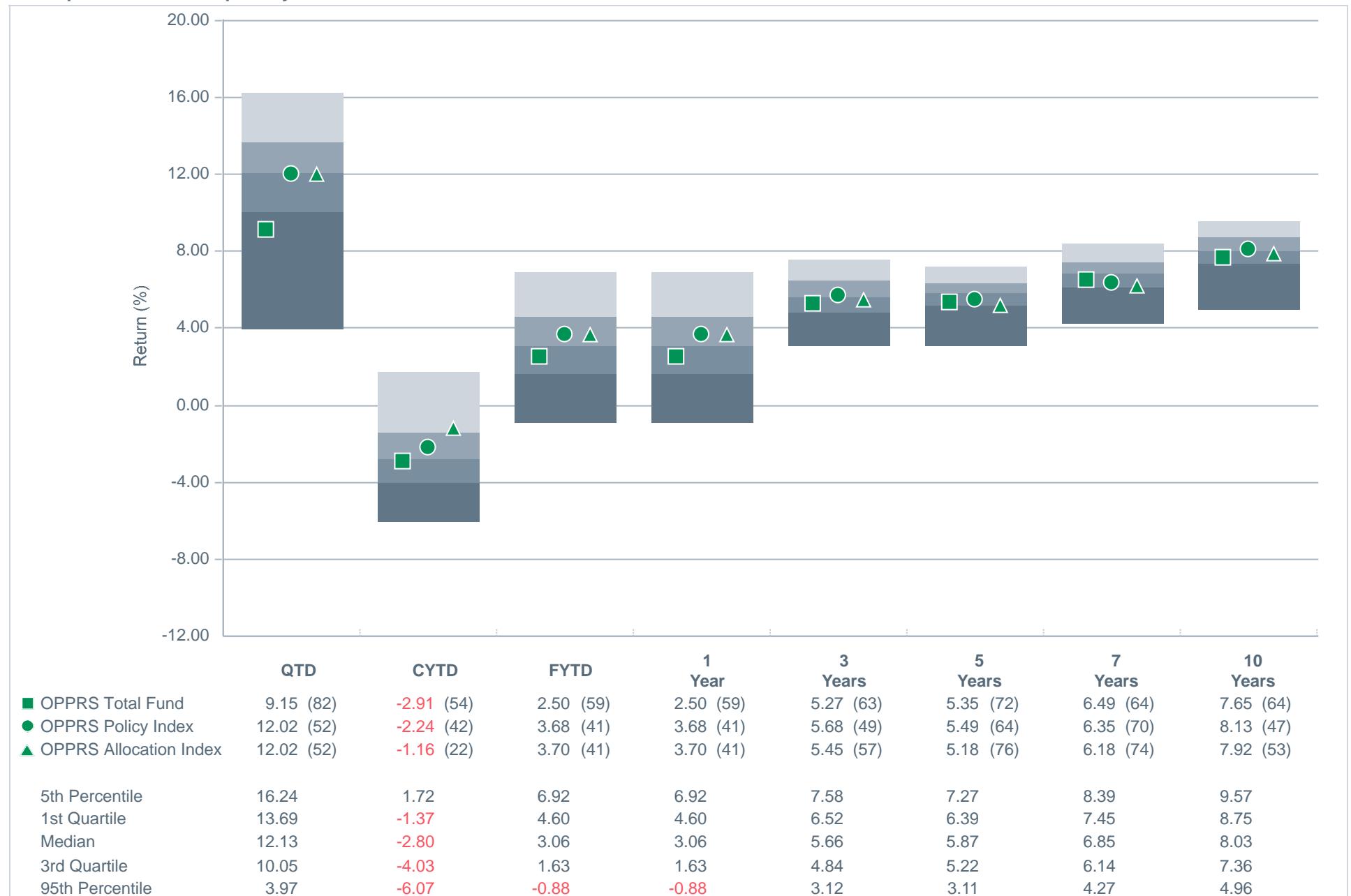
As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Thompson Street Capital V LP	4,282,844	0.16	-3.35	-4.95	-4.96	-4.96	N/A	N/A	N/A	N/A	-16.63	08/01/2018
Warburg Pincus Global Growth LP	8,543,316	0.33	-0.69	-5.61	-17.52	-17.52	N/A	N/A	N/A	N/A	-31.83	03/01/2019
Warburg Pincus LP	2,007,115	0.08	-5.19	-6.80	21.16	21.16	13.27	9.66	10.85	10.46	5.67	10/01/2007
Warburg Pincus XII LP	10,473,494	0.40	-4.31	-0.70	16.14	16.14	13.53	N/A	N/A	N/A	3.89	12/01/2015
Warburg Pincus XI LP	3,781,311	0.15	-16.00	-15.78	-13.34	-13.34	4.25	5.89	8.65	N/A	7.87	10/01/2012
Weathergage Venture Capital II LP	10,121,264	0.39	0.97	0.97	7.36	7.36	15.85	13.99	16.57	N/A	12.22	04/01/2011
Weathergage Venture Capital IV LP	9,307,530	0.36	11.72	11.72	22.43	22.43	10.73	N/A	N/A	N/A	19.57	12/01/2016
Weathergage Venture Capital LP	4,088,665	0.16	-0.30	-0.30	2.73	2.73	8.57	5.46	12.87	12.70	0.73	03/01/2007

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

As of June 30, 2020

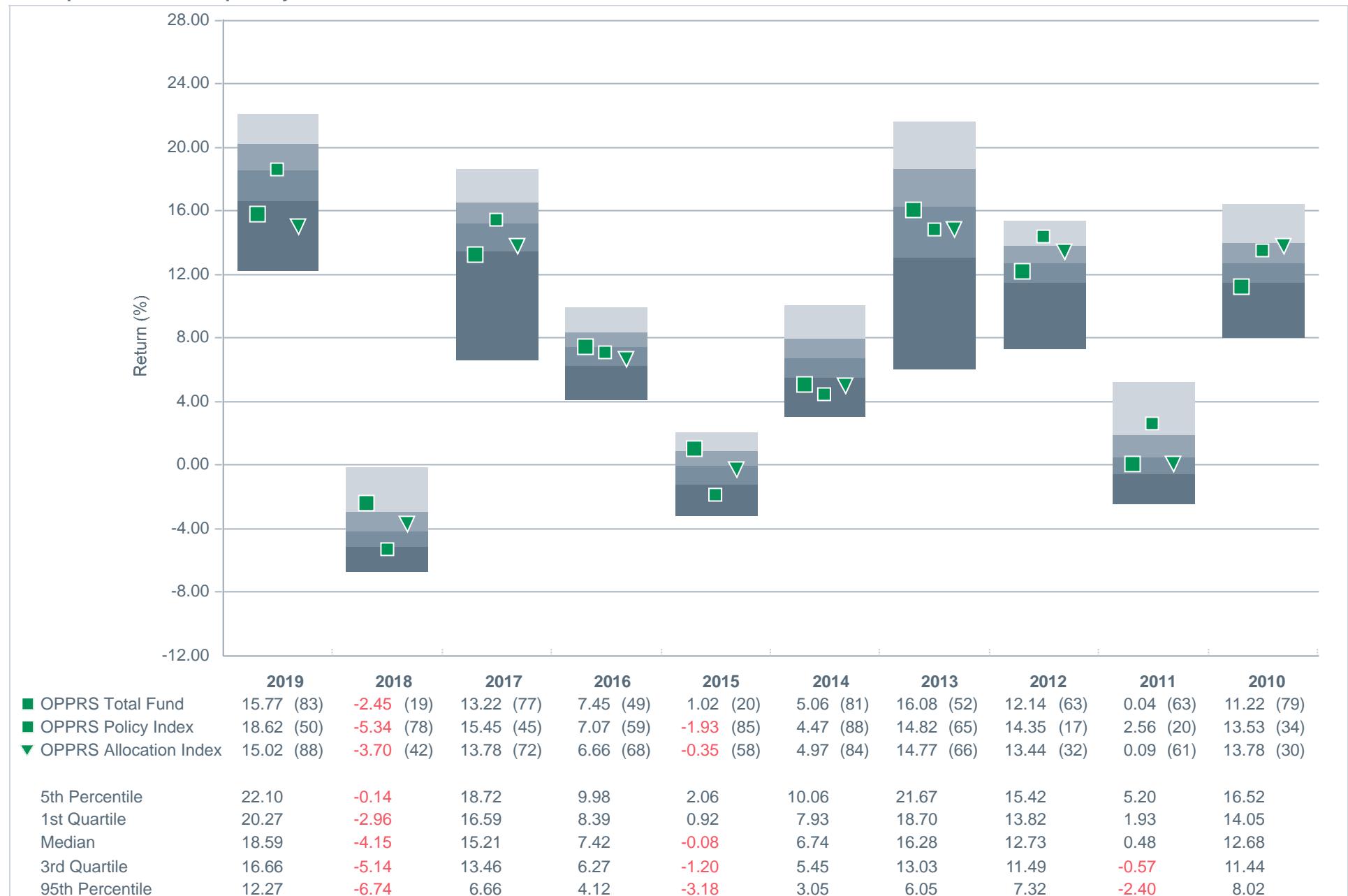


Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
 Oklahoma State Pension Commission fiscal year begins on 07/01.



Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

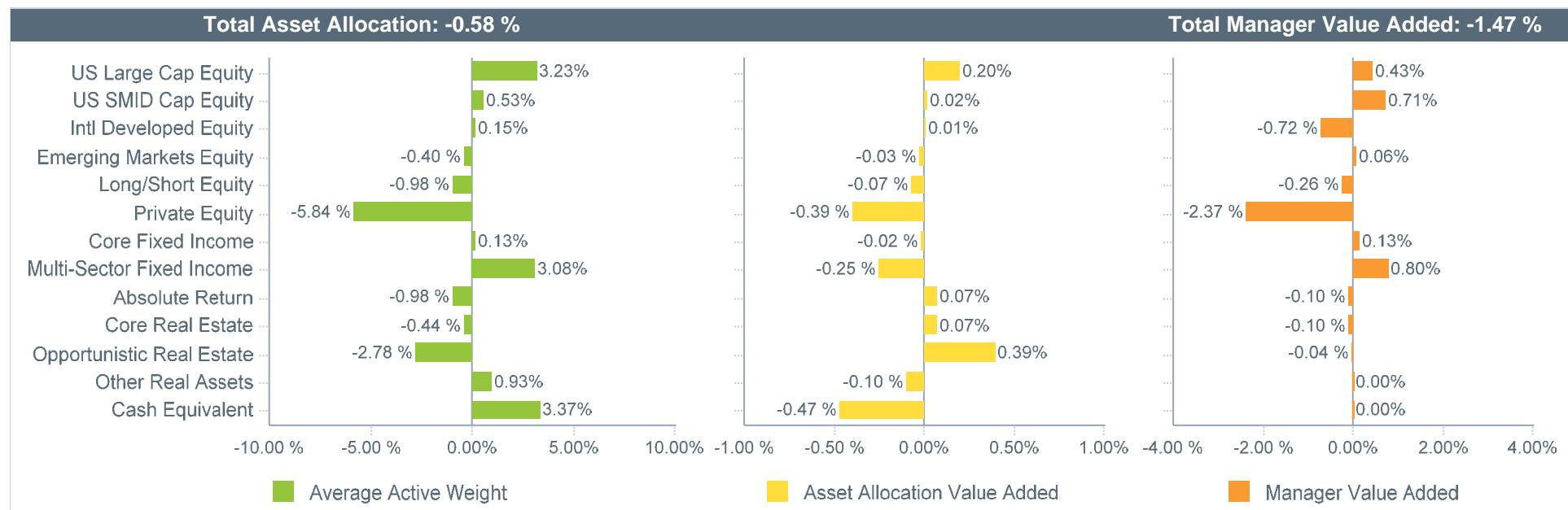
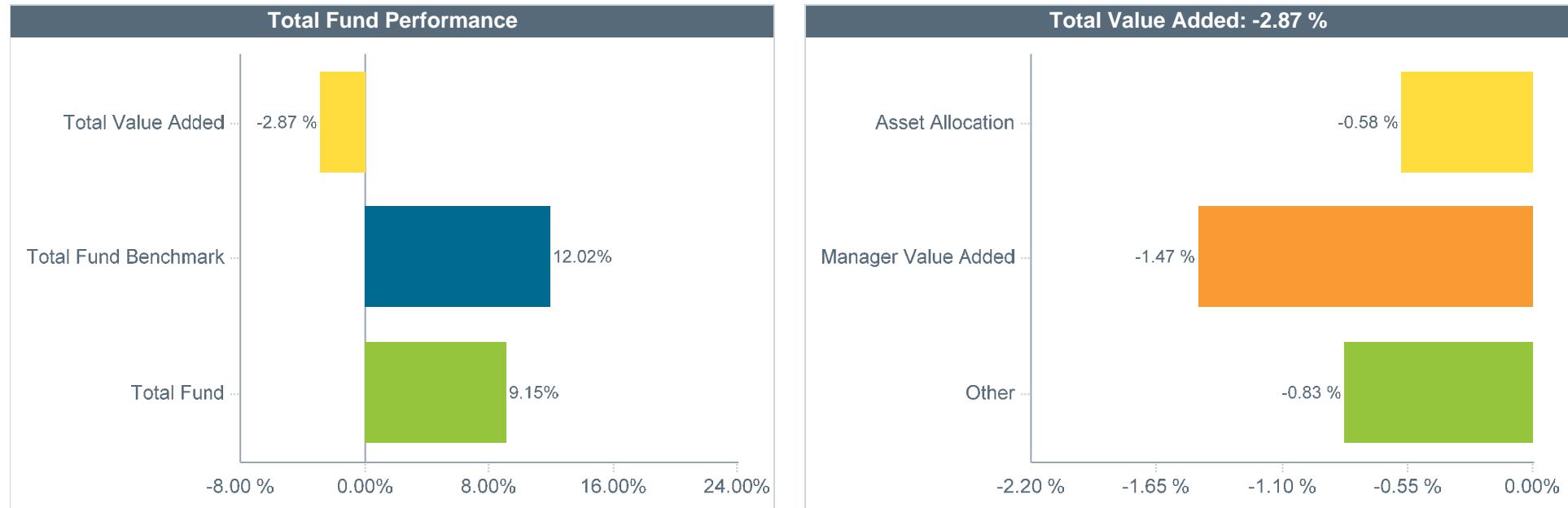
As of June 30, 2020



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement Fund
 Total Fund Attribution

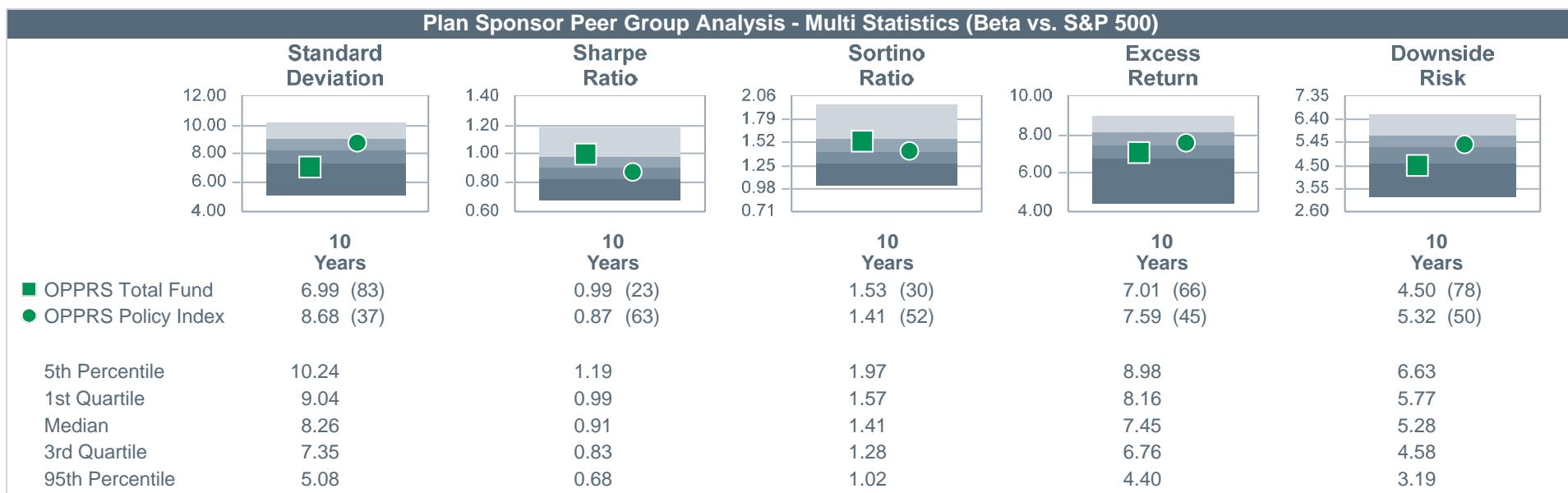
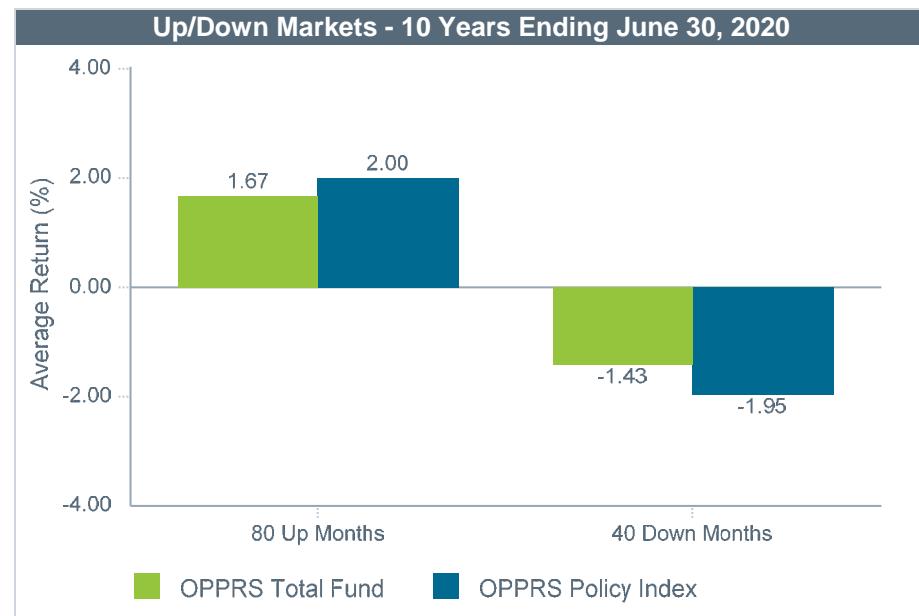
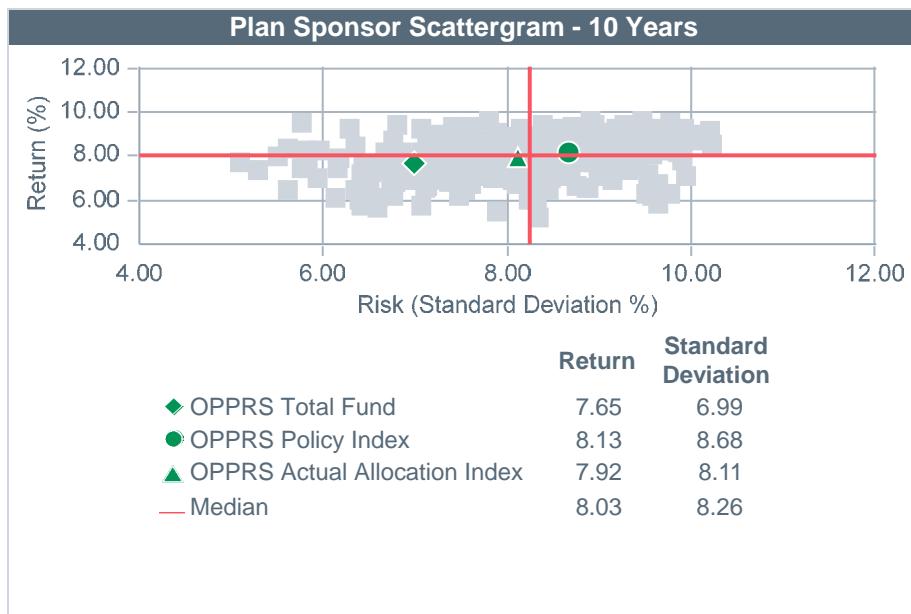
Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation. Allocation to Multi-Sector Fixed Income includes Private Credit.

Oklahoma State Pension Commission
 Oklahoma Police Pension & Retirement System
 Total Fund Risk & Return, Up/Down Markets, and Multi Statistics

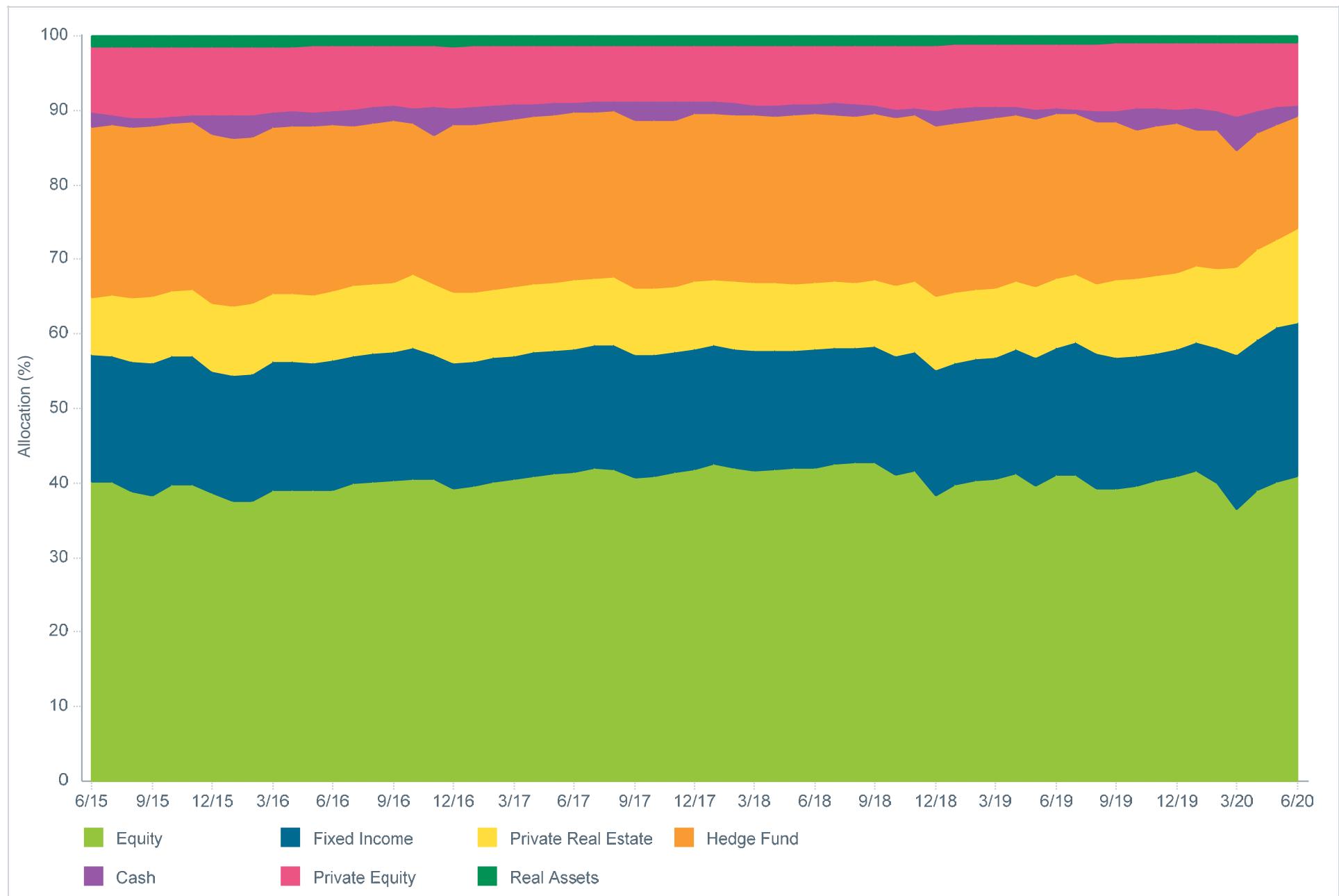
As of June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Police Pension & Retirement Fund
Historical Asset Allocation

5 Years Ending June 30, 2020



Allocation to Fixed Income includes Private Credit.

Oklahoma Law Enforcement Retirement System (OLERS)

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Total Fund Summary

As of June 30, 2020

	Performance (%)																			
	Trailing							Calendar Year												
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015							
OLERS Total Fund (Net)	11.29	-3.58	1.79	1.79	4.94	5.00	6.43	7.95	17.48	-4.74	14.53	7.07	-0.56							
OLERS Policy Index	12.63	-2.27	4.15	4.15	6.18	6.34	7.39	8.64	19.12	-3.67	13.36	8.64	1.00							
Difference	-1.34	-1.31	-2.36	-2.36	-1.24	-1.34	-0.96	-0.69	-1.64	-1.07	1.17	-1.57	-1.56							
OLERS Actual Allocation Index	10.92	-1.80	4.35	4.35	6.09	6.25	7.20	8.45	17.33	-3.47	14.63	8.27	0.33							
Difference	0.37	-1.78	-2.56	-2.56	-1.15	-1.25	-0.77	-0.50	0.15	-1.27	-0.10	-1.20	-0.89							
Actuarial Discount Rate (7.5%)	1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50							
Difference	9.47	-7.26	-5.71	-5.71	-2.56	-2.50	-1.07	0.45	9.98	-12.24	7.03	-0.43	-8.06							
OLERS Total Fund (Gross)	11.29	-3.55	1.91	1.91	5.09	5.16	6.57	8.07	17.67	-4.56	14.65	7.24	-0.44							
OLERS Policy Index	12.63	-2.27	4.15	4.15	6.18	6.34	7.39	8.64	19.12	-3.67	13.36	8.64	1.00							
Difference	-1.34	-1.28	-2.24	-2.24	-1.09	-1.18	-0.82	-0.57	-1.45	-0.89	1.29	-1.40	-1.44							
OLERS Actual Allocation Index	10.92	-1.80	4.35	4.35	6.09	6.25	7.20	8.45	17.33	-3.47	14.63	8.27	0.33							
Difference	0.37	-1.75	-2.44	-2.44	-1.00	-1.09	-0.63	-0.38	0.34	-1.09	0.02	-1.03	-0.77							
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08							
Rank	62	66	71	71	70	77	62	48	62	59	60	56	60							
Asset Allocation vs. Target Allocation							Asset Allocation vs. Target Allocation Difference													
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)																	
OLERS (Law Enforcement)	997,043,603	100.00	100.00																	
US Large Cap Equity	241,238,268	24.20	20.00																	
US Small Cap Equity	130,694,621	13.11	10.00																	
International Developed Equity	90,577,681	9.08	10.00																	
Emerging Market Equity	56,027,844	5.62	5.00																	
Core Fixed Income	89,712,366	9.00	10.00																	
Core Plus Fixed Income	123,382,224	12.37	10.00																	
Global Fixed Income	63,949,760	6.41	5.00																	
Real Estate	106,344,970	10.67	15.00																	
Long/Short Equity	36,523,160	3.66	5.00																	
Private Equity	38,525,618	3.86	10.00																	
Cash Equivalent	20,067,091	2.01	0.00																	

Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OLERS Total Fund	997,043,603	100.00	11.29	-3.58	1.79	1.79	4.94	5.00	6.43	7.95	8.05	10/01/1985
OLERS Policy Index			12.63	-2.27	4.15	4.15	6.18	6.34	7.39	8.64	N/A	
Difference			-1.34	-1.31	-2.36	-2.36	-1.24	-1.34	-0.96	-0.69	N/A	
OLERS Actual Allocation Index			10.92	-1.80	4.35	4.35	6.09	6.25	7.20	8.45	N/A	
Difference			0.37	-1.78	-2.56	-2.56	-1.15	-1.25	-0.77	-0.50	N/A	
Actuarial Discount Rate (7.5%)			1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	
Difference			9.47	-7.26	-5.71	-5.71	-2.56	-2.50	-1.07	0.45	0.55	
US Equity	371,932,889	37.30	23.92	-7.41	1.69	1.69	7.15	7.67	10.26	12.88	8.48	09/01/2003
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	9.12	
Difference			3.38	-4.33	-5.82	-5.82	-3.58	-3.06	-1.87	-1.11	-0.64	
Hotchkis Wiley Large Cap Value Equity (SA)	51,725,846	5.19	19.57	-22.79	-16.14	-16.14	-1.22	2.98	6.68	10.59	9.31	04/01/1990
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	9.19	
Difference			5.28	-6.53	-7.30	-7.30	-3.04	-1.66	-0.43	0.18	0.12	
NTGI S&P 500 Index (CF)	109,130,708	10.95	20.53	-3.11	7.47	7.47	10.67	10.76	12.15	13.97	10.06	07/01/2008
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	9.97	
Difference			-0.01	-0.03	-0.04	-0.04	-0.06	0.03	0.02	-0.02	0.09	
Polen Focus Growth (CF)	80,381,713	8.06	27.24	10.85	23.18	23.18	N/A	N/A	N/A	N/A	36.48	12/01/2018
Russell 1000 Grth Index			27.84	9.81	23.28	23.28	18.99	15.89	16.62	17.23	21.94	
Difference			-0.60	1.04	-0.10	-0.10	N/A	N/A	N/A	N/A	14.54	
Kennedy Capital Small Cap Value Equity (SA)	59,237,344	5.94	23.58	-21.02	-14.69	-14.69	-3.30	2.54	5.61	9.45	10.92	06/01/1993
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	8.65	
Difference			4.67	2.48	2.79	2.79	1.05	1.28	1.63	1.63	2.27	
Wellington Small Cap Growth (CF)	71,457,277	7.17	29.35	-4.45	5.11	5.11	8.33	N/A	N/A	N/A	11.12	08/01/2016
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	10.24	
Difference			-1.23	-1.39	1.63	1.63	0.47	N/A	N/A	N/A	0.88	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
International Equity	146,605,525	14.70	17.61	-9.52	-1.44	-1.44	2.53	3.29	4.07	4.68	3.35	09/01/2005
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.06	
Difference			1.49	1.48	3.36	3.36	1.40	1.03	0.36	-0.29	-0.71	
Barings Focused EAFE Plus Equity (SA)	49,281,871	4.94	14.77	-7.53	-0.70	-0.70	2.31	3.92	4.73	N/A	4.56	02/01/2012
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.17	
Difference			-1.35	3.47	4.10	4.10	1.18	1.66	1.02	N/A	0.39	
Mondrian International Equity (SA)	41,295,810	4.14	8.77	-20.04	-13.72	-13.72	-2.99	-0.57	2.15	4.38	3.54	01/01/2005
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.29	
Difference			-7.35	-9.04	-8.92	-8.92	-4.12	-2.83	-1.56	-0.59	-0.75	
William Blair Emerging Markets Leaders (CF)	41,559,940	4.17	26.21	-3.90	6.25	6.25	7.42	N/A	N/A	N/A	9.24	09/01/2016
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	5.24	
Difference			8.13	5.88	9.64	9.64	5.52	N/A	N/A	N/A	4.00	
Wasatch:Emg Mkt SC;Inv (WAEMX)	14,467,903	1.45	32.78	3.07	16.64	16.64	7.69	4.58	3.94	N/A	4.72	07/01/2012
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	3.18	
Difference			14.70	12.85	20.03	20.03	5.79	1.72	0.72	N/A	1.54	
Fixed Income	277,044,350	27.79	3.41	3.66	4.16	4.16	3.70	3.60	3.55	4.10	4.80	09/01/2003
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.50	
Difference			0.51	-2.48	-4.58	-4.58	-1.62	-0.70	-0.41	0.28	0.30	
NTGI Aggregate Index (SA)	89,712,366	9.00	2.80	6.18	8.76	8.76	5.35	4.31	3.99	3.84	4.36	04/01/2004
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.31	
Difference			-0.10	0.04	0.02	0.02	0.03	0.01	0.03	0.02	0.05	
TCW Core Plus Fixed Income (SA)	123,382,224	12.37	4.95	6.81	9.64	9.64	6.23	5.12	4.78	5.38	5.75	12/01/1993
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.37	
Difference			2.05	0.67	0.90	0.90	0.91	0.82	0.82	1.56	0.38	
Franklin Templeton Global Bonds (SA)	63,949,760	6.41	1.29	-5.04	-9.06	-9.06	-1.90	0.44	1.00	N/A	0.98	06/01/2013
Bloomberg Gbl Agg Bond Index			3.32	2.98	4.22	4.22	3.79	3.56	2.49	2.81	2.29	
Difference			-2.03	-8.02	-13.28	-13.28	-5.69	-3.12	-1.49	N/A	-1.31	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Long/Short Equity	36,523,160	3.66	6.33	-3.65	-0.35	-0.35	2.40	2.15	4.27	N/A	4.33	12/01/2010
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	2.59	
Difference			-4.70	-1.51	-0.87	-0.87	0.34	0.71	1.32	N/A	1.74	
Grosvenor (CF)	36,523,160	3.66	6.33	-3.65	-0.35	-0.35	2.40	2.15	4.27	4.91	2.98	01/01/2008
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	0.93	
Difference			-4.70	-1.51	-0.87	-0.87	0.34	0.71	1.32	1.83	2.05	
Real Estate	106,344,970	10.67	-2.00	-0.85	0.96	0.96	3.17	3.39	4.69	N/A	6.71	12/01/2010
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	9.54	
Difference			-1.01	-0.56	-1.73	-1.73	-2.27	-3.38	-3.57	N/A	-2.83	
JPMCB Strategic Property (CF)	86,356,097	8.66	-2.02	-0.67	1.80	1.80	4.30	5.85	7.75	N/A	8.54	04/01/2012
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.65	
Difference			-1.03	-0.38	-0.89	-0.89	-1.14	-0.92	-0.51	N/A	-0.11	
UBS Trumbull Property (SA)	15,063,253	1.51	-2.54	-2.10	-1.61	-1.61	1.34	3.65	5.49	N/A	5.66	12/01/2012
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.53	
Difference			-1.55	-1.81	-4.30	-4.30	-4.10	-3.12	-2.77	N/A	-2.87	
Colcord Center (CF)	4,925,620	0.49	0.01	0.04	8.94	8.94	4.65	4.57	4.75	2.92	3.32	05/01/2008
Private Equity	38,525,618	3.86	-4.12	-2.84	4.50	4.50	8.78	6.21	8.98	N/A	9.64	12/01/2010
Cambridge US Prvt Eq Index			0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	12.03	
Difference			-4.12	7.23	10.01	10.01	1.52	-2.16	-1.41	N/A	-2.39	
American Private Equity II LP	774,031	0.08	-7.46	-8.68	-3.61	-3.61	0.38	-0.39	1.85	4.71	4.40	02/01/2006
Apollo IX LP	1,817,965	0.18	-3.95	-1.03	-13.15	-13.15	N/A	N/A	N/A	N/A	-21.78	03/01/2019
Apollo VIII LP	6,732,130	0.68	-18.74	-14.69	-6.45	-6.45	3.05	6.64	N/A	N/A	-0.46	02/01/2014
FirstMark Capital Opportunity III LP	300,000	0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020
Knightsbridge VI LP	2,506,407	0.25	26.59	26.59	38.32	38.32	20.07	11.16	13.89	12.82	7.78	12/01/2004
Knightsbridge VII LP	7,378,347	0.74	0.07	0.07	10.07	10.07	13.11	9.01	13.38	11.95	6.25	09/01/2008
Warburg Pincus Global Growth LP	8,543,243	0.86	-0.69	-6.15	-15.47	-15.47	N/A	N/A	N/A	N/A	-30.13	03/01/2019
Warburg Pincus XII LP	10,473,495	1.05	-4.31	-0.65	8.25	8.25	14.70	N/A	N/A	N/A	-3.09	12/01/2015

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Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OLERS Total Fund	997,043,603	100.00	11.29	-3.55	1.91	1.91	5.09	5.16	6.57	8.07	8.50	10/01/1985
OLERS Policy Index			12.63	-2.27	4.15	4.15	6.18	6.34	7.39	8.64	N/A	
Difference			-1.34	-1.28	-2.24	-2.24	-1.09	-1.18	-0.82	-0.57	N/A	
OLERS Actual Allocation Index			10.92	-1.80	4.35	4.35	6.09	6.25	7.20	8.45	N/A	
Difference			0.37	-1.75	-2.44	-2.44	-1.00	-1.09	-0.63	-0.38	N/A	
Actuarial Discount Rate (7.5%)			1.82	3.68	7.50	7.50	7.50	7.50	7.50	7.50	7.50	
Difference			9.47	-7.23	-5.59	-5.59	-2.41	-2.34	-0.93	0.57	1.00	
All Public Plans-Total Fund Median			12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.57	
Rank			62	66	71	71	70	77	62	48	59	
US Equity	371,932,889	37.30	23.92	-7.41	1.69	1.69	7.16	7.67	10.26	12.88	8.48	09/01/2003
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	9.12	
Difference			3.38	-4.33	-5.82	-5.82	-3.57	-3.06	-1.87	-1.11	-0.64	
All Public Plans-US Equity Segment Median			21.87	-4.86	4.26	4.26	8.72	8.91	10.68	13.15	8.69	
Rank			20	82	76	76	82	81	67	67	72	
Hotchkis Wiley Large Cap Value Equity (SA)	51,725,846	5.19	19.57	-22.79	-16.14	-16.14	-1.22	2.98	6.68	10.59	9.73	04/01/1990
Russell 1000 Val Index			14.29	-16.26	-8.84	-8.84	1.82	4.64	7.11	10.41	9.19	
Difference			5.28	-6.53	-7.30	-7.30	-3.04	-1.66	-0.43	0.18	0.54	
IM U.S. Large Cap Value Equity (SA+CF) Median			16.98	-14.65	-6.61	-6.61	3.16	5.32	7.80	10.96	10.21	
Rank			25	98	98	98	92	86	76	62	75	
NTGI S&P 500 Index (CF)	109,130,708	10.95	20.53	-3.11	7.49	7.49	10.69	10.78	12.17	13.98	10.06	07/01/2008
S&P 500 Index (Cap Wtd)			20.54	-3.08	7.51	7.51	10.73	10.73	12.13	13.99	9.97	
Difference			-0.01	-0.03	-0.02	-0.02	-0.04	0.05	0.04	-0.01	0.09	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	9.89	
Rank			46	39	31	31	36	27	39	45	38	
Polen Focus Growth (CF)	80,381,713	8.06	27.24	10.85	23.18	23.18	N/A	N/A	N/A	N/A	36.48	12/01/2018
Russell 1000 Grth Index			27.84	9.81	23.28	23.28	18.99	15.89	16.62	17.23	21.94	
Difference			-0.60	1.04	-0.10	-0.10	N/A	N/A	N/A	N/A	14.54	
IM U.S. Large Cap Growth Equity (SA+CF) Median			26.58	8.79	19.56	19.56	17.42	14.27	15.77	16.61	19.56	
Rank			43	37	30	30	N/A	N/A	N/A	N/A	2	
Kennedy Capital Small Cap Value Equity (SA)	59,237,344	5.94	23.58	-21.02	-14.69	-14.69	-3.30	2.54	5.61	9.45	11.41	06/01/1993
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	8.65	
Difference			4.67	2.48	2.79	2.79	1.05	1.28	1.63	1.63	2.76	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	10.95	
Rank			32	49	49	49	56	37	41	52	33	

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Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Wellington Small Cap Growth (CF)	71,457,277	7.17	29.35	-4.45	5.11	5.11	8.33	N/A	N/A	N/A	11.12	08/01/2016
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	10.24	
Difference			-1.23	-1.39	1.63	1.63	0.47	N/A	N/A	N/A	0.88	
IM U.S. Small Cap Growth Equity (SA+CF) Median			32.78	1.16	5.99	5.99	12.27	10.20	12.31	15.04	13.57	
Rank			69	71	52	52	70	N/A	N/A	N/A	67	
International Equity	146,605,525	14.70	17.61	-9.44	-1.16	-1.16	2.94	3.74	4.51	5.10	3.64	09/01/2005
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.06	
Difference			1.49	1.56	3.64	3.64	1.81	1.48	0.80	0.13	-0.42	
All Public Plans-Intl. Equity Segment Median			17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	5.09	
Rank			53	44	34	34	35	35	74	92	99	
Barings Focused EAFE Plus Equity (SA)	49,281,871	4.94	14.87	-7.36	-0.21	-0.21	3.10	4.81	5.58	N/A	5.35	02/01/2012
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.17	
Difference			-1.25	3.64	4.59	4.59	1.97	2.55	1.87	N/A	1.18	
IM All EAFE (SA+CF) Median			16.29	-10.95	-3.80	-3.80	1.36	2.27	4.76	7.04	6.10	
Rank			68	32	33	33	34	23	34	N/A	70	
Mondrian International Equity (SA)	41,295,810	4.14	8.93	-19.76	-13.17	-13.17	-2.41	0.03	2.74	4.95	3.90	01/01/2005
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	4.29	
Difference			-7.19	-8.76	-8.37	-8.37	-3.54	-2.23	-0.97	-0.02	-0.39	
IM All ACWI Ex US (SA+CF) Median			18.04	-8.10	-0.85	-0.85	2.61	3.77	5.26	7.21	5.89	
Rank			100	95	95	95	86	91	86	86	89	
William Blair Emerging Markets Leaders (CF)	41,559,940	4.17	26.21	-3.90	6.25	6.25	7.42	N/A	N/A	N/A	9.24	09/01/2016
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	5.24	
Difference			8.13	5.88	9.64	9.64	5.52	N/A	N/A	N/A	4.00	
IM Emerging Markets Equity (SA+CF) Median			19.49	-10.13	-3.56	-3.56	1.28	2.90	3.59	4.77	5.04	
Rank			21	21	16	16	10	N/A	N/A	N/A	16	
Wasatch:Emg Mkt SC;Inv (WAEMX)	14,467,903	1.45	32.78	3.07	16.64	16.64	7.69	4.58	3.94	N/A	4.72	07/01/2012
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	3.18	
Difference			14.70	12.85	20.03	20.03	5.79	1.72	0.72	N/A	1.54	
IM Emerging Markets Equity (MF) Median			20.27	-9.44	-3.04	-3.04	1.15	2.57	3.03	3.16	3.00	
Rank			5	5	3	3	6	25	33	N/A	26	

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Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation						Performance (%)						Since Incep.	Inception Date
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years				
Fixed Income	277,044,350	27.79	3.41	3.69	4.26	4.26	3.80	3.66	3.59	4.13	4.82	09/01/2003		
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.50			
Difference			0.51	-2.45	-4.48	-4.48	-1.52	-0.64	-0.37	0.31	0.32			
NTGI Aggregate Index (SA)	89,712,366	9.00	2.81	6.20	8.81	8.81	5.37	4.33	4.01	3.85	4.37	04/01/2004		
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.31			
Difference			-0.09	0.06	0.07	0.07	0.05	0.03	0.05	0.03	0.06			
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			4.42	6.24	8.93	8.93	5.57	4.70	4.41	4.34	4.78			
Rank			92	55	65	65	77	85	82	89	88			
TCW Core Plus Fixed Income (SA)	123,382,224	12.37	4.95	6.81	9.64	9.64	6.23	5.12	4.78	5.38	6.03	12/01/1993		
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.37			
Difference			2.05	0.67	0.90	0.90	0.91	0.82	0.82	1.56	0.66			
IM U.S. Broad Market Core+ Fixed Income (SA+CF) Median			5.90	5.29	8.22	8.22	5.50	4.80	4.56	4.90	6.04			
Rank			74	15	17	17	8	29	33	21	51			
Franklin Templeton Global Bonds (SA)	63,949,760	6.41	1.40	-4.83	-8.64	-8.64	-1.58	0.64	1.14	N/A	1.13	06/01/2013		
Bloomberg Gbl Agg Bond Index			3.32	2.98	4.22	4.22	3.79	3.56	2.49	2.81	2.29			
Difference			-1.92	-7.81	-12.86	-12.86	-5.37	-2.92	-1.35	N/A	-1.16			
IM Global Fixed Income (SA+CF) Median			7.93	0.16	2.66	2.66	3.70	4.17	3.66	4.13	3.16			
Rank			97	80	96	96	95	95	94	N/A	91			
Long/Short Equity	36,523,160	3.66	6.33	-3.65	-0.35	-0.35	2.40	2.15	4.27	N/A	4.33	12/01/2010		
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	2.59			
Difference			-4.70	-1.51	-0.87	-0.87	0.34	0.71	1.32	N/A	1.74			
Grosvenor (CF)	36,523,160	3.66	6.33	-3.65	-0.35	-0.35	2.40	2.15	4.27	4.91	2.98	01/01/2008		
HFRI FOF: Strategic Index			11.03	-2.14	0.52	0.52	2.06	1.44	2.95	3.08	0.93			
Difference			-4.70	-1.51	-0.87	-0.87	0.34	0.71	1.32	1.83	2.05			

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Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Real Estate	106,344,970	10.67	-2.00	-0.69	1.52	1.52	3.79	4.06	5.41	N/A	7.30	12/01/2010
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	9.54	
Difference			-1.01	-0.40	-1.17	-1.17	-1.65	-2.71	-2.85	N/A	-2.24	
JPMCB Strategic Property (CF)	86,356,097	8.66	-2.02	-0.49	2.51	2.51	5.05	6.73	8.64	N/A	9.38	04/01/2012
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.65	
Difference			-1.03	-0.20	-0.18	-0.18	-0.39	-0.04	0.38	N/A	0.73	
UBS Trumbull Property (SA)	15,063,253	1.51	-2.38	-1.94	-1.00	-1.00	2.18	4.52	6.47	N/A	6.61	12/01/2012
NCREIF Property Index			-0.99	-0.29	2.69	2.69	5.44	6.77	8.26	9.70	8.53	
Difference			-1.39	-1.65	-3.69	-3.69	-3.26	-2.25	-1.79	N/A	-1.92	
Colcord Center (CF)	4,925,620	0.49	0.01	0.04	8.94	8.94	4.65	4.57	4.75	2.92	3.32	05/01/2008
Private Equity	38,525,618	3.86	-4.12	-2.84	4.50	4.50	8.78	6.21	8.98	N/A	9.64	12/01/2010
Cambridge US Prvt Eq Index			0.00	-10.07	-5.51	-5.51	7.26	8.37	10.39	12.06	12.03	
Difference			-4.12	7.23	10.01	10.01	1.52	-2.16	-1.41	N/A	-2.39	
American Private Equity II LP	774,031	0.08	-7.46	-8.68	-3.61	-3.61	0.38	-0.39	1.85	4.71	4.40	02/01/2006
Apollo IX LP	1,817,965	0.18	-3.95	-1.03	-13.15	-13.15	N/A	N/A	N/A	N/A	-21.78	03/01/2019
Apollo VIII LP	6,732,130	0.68	-18.74	-14.69	-6.45	-6.45	3.05	6.64	N/A	N/A	-0.46	02/01/2014
FirstMark Capital Opportunity III LP	300,000	0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2020
Knightsbridge VI LP	2,506,407	0.25	26.59	26.59	38.32	38.32	20.07	11.16	13.89	12.82	7.78	12/01/2004
Knightsbridge VII LP	7,378,347	0.74	0.07	0.07	10.07	10.07	13.11	9.01	13.38	11.95	6.25	09/01/2008
Warburg Pincus Global Growth LP	8,543,243	0.86	-0.69	-6.15	-15.47	-15.47	N/A	N/A	N/A	N/A	-30.13	03/01/2019
Warburg Pincus XII LP	10,473,495	1.05	-4.31	-0.65	8.25	8.25	14.70	N/A	N/A	N/A	-3.09	12/01/2015

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

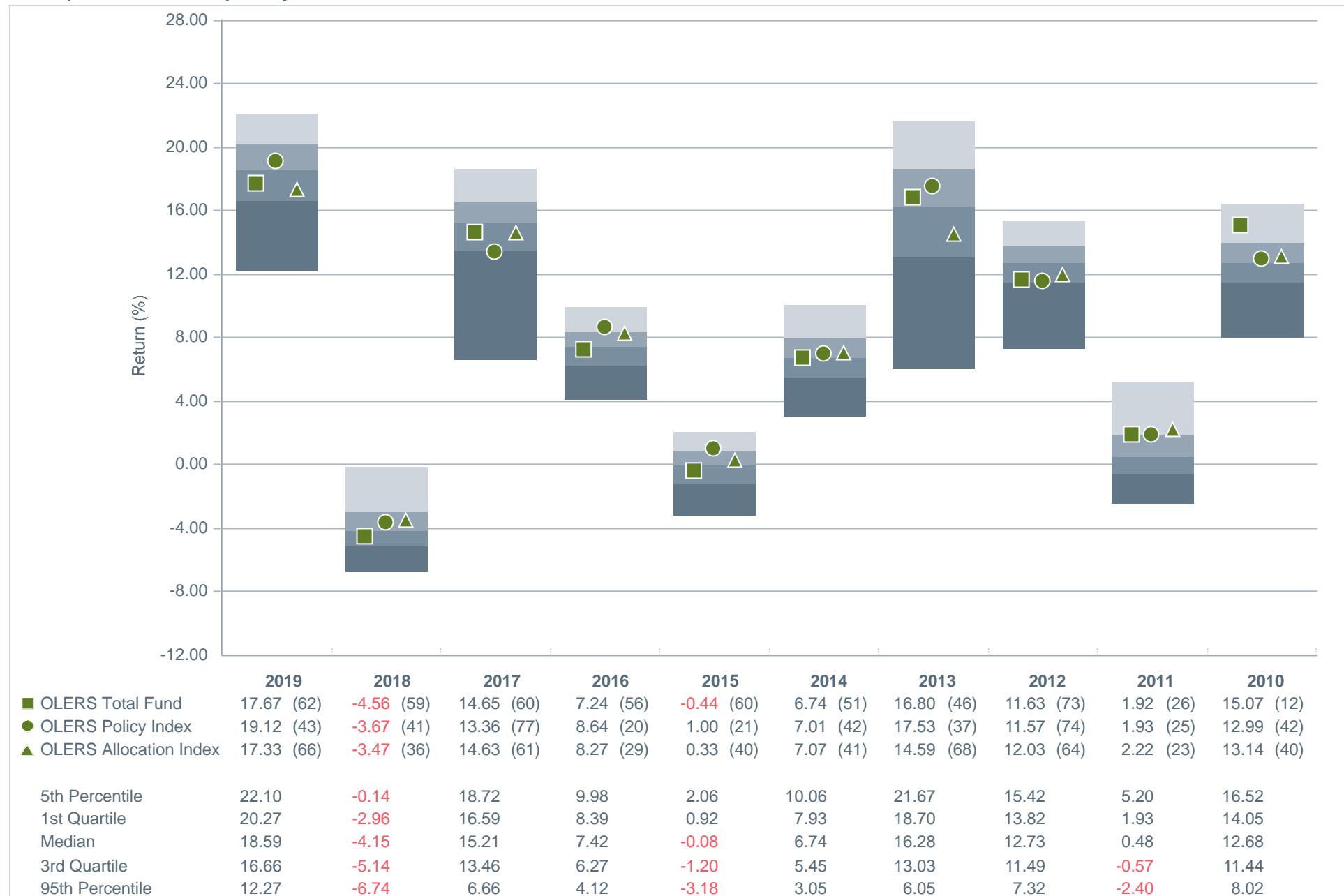
As of June 30, 2020



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
 Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

As of June 30, 2020

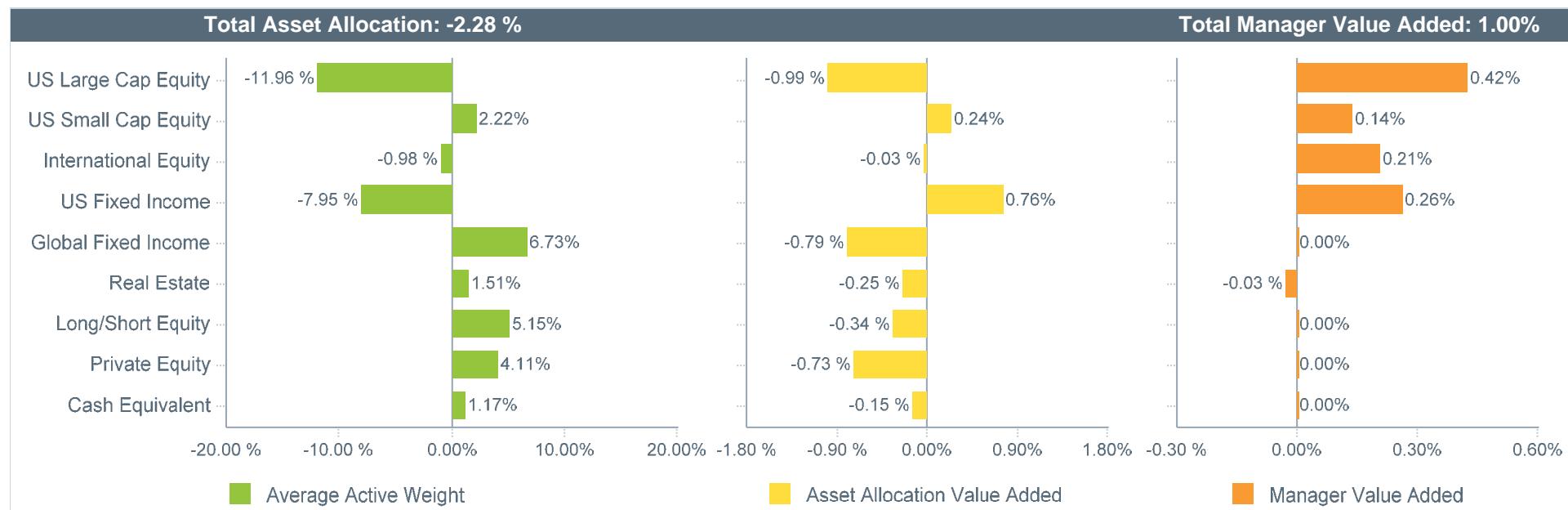
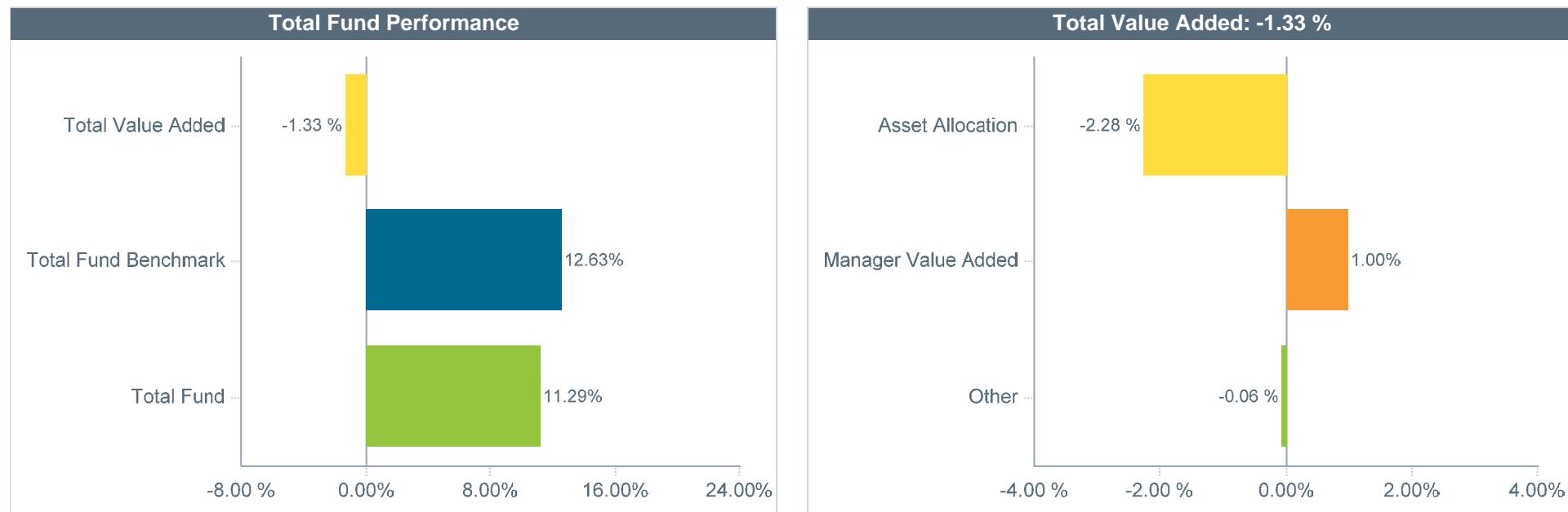


Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.



Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Total Fund Attribution

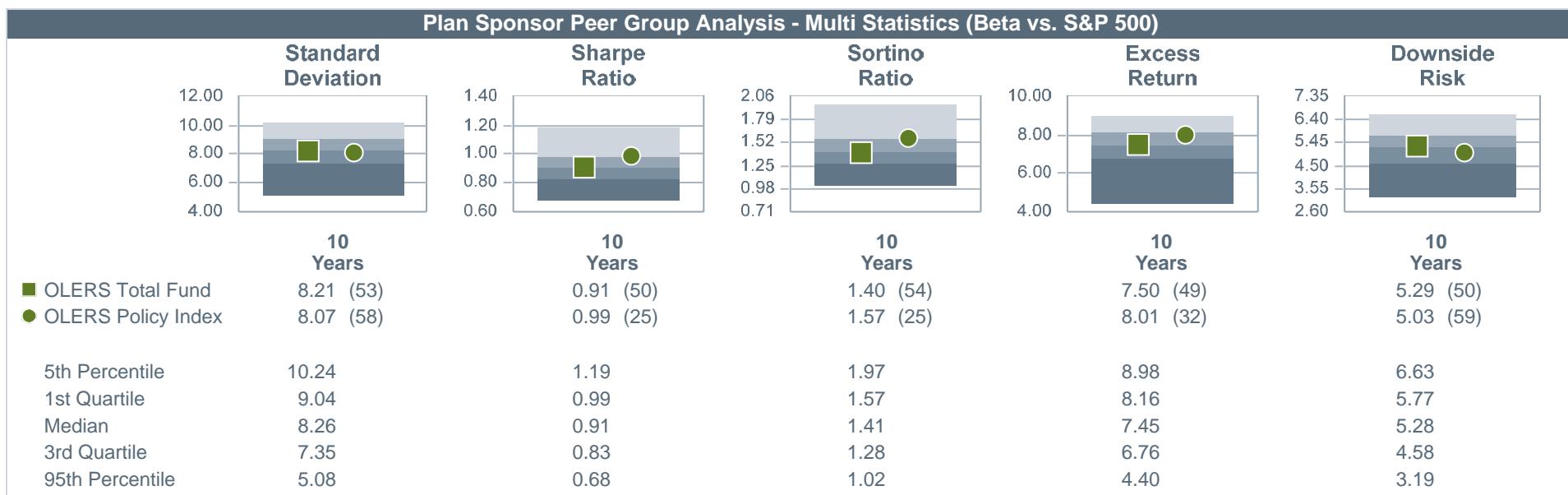
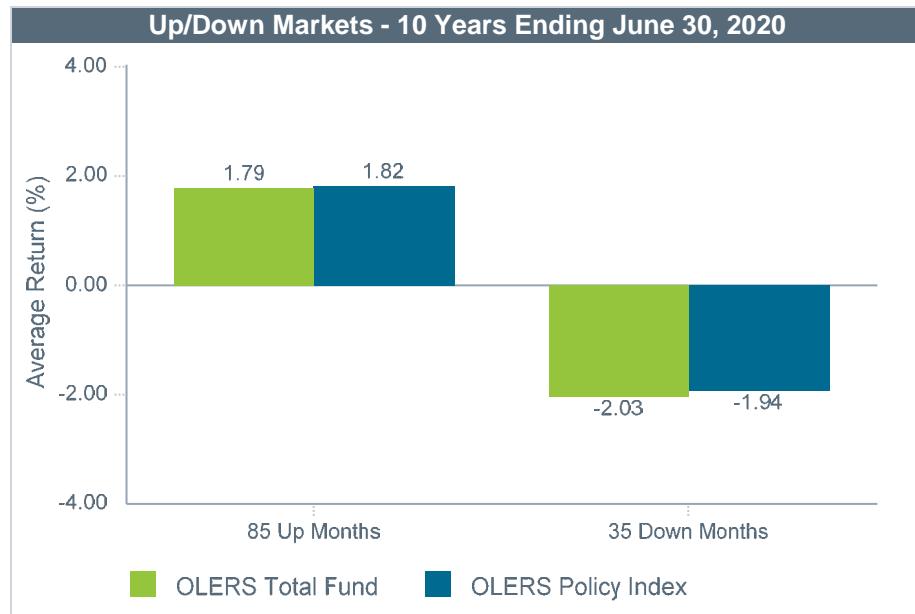
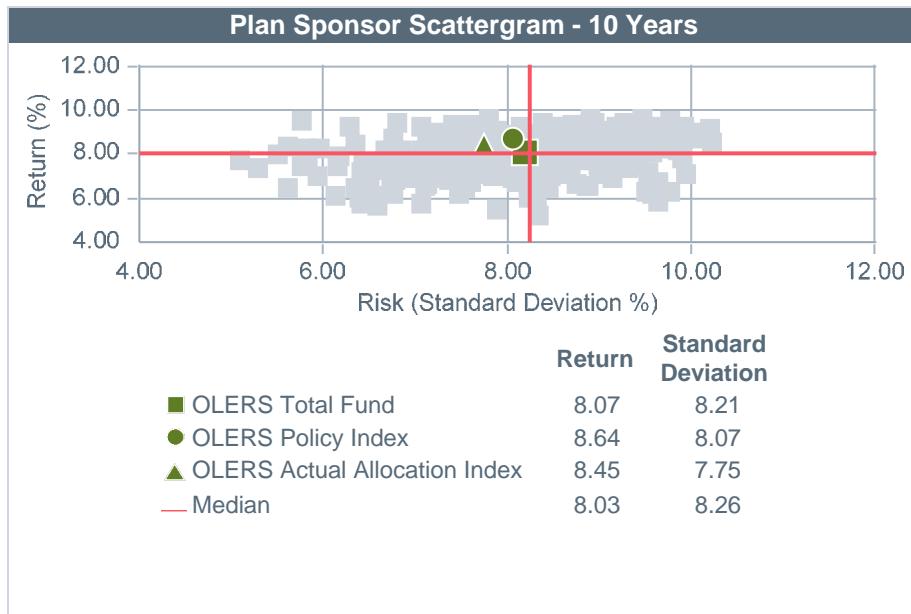
Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation.

Oklahoma State Pension Commission
 Oklahoma Law Enforcement Retirement System
 Total Fund Risk & Return, Up/Down Markets, and Multi Statistics

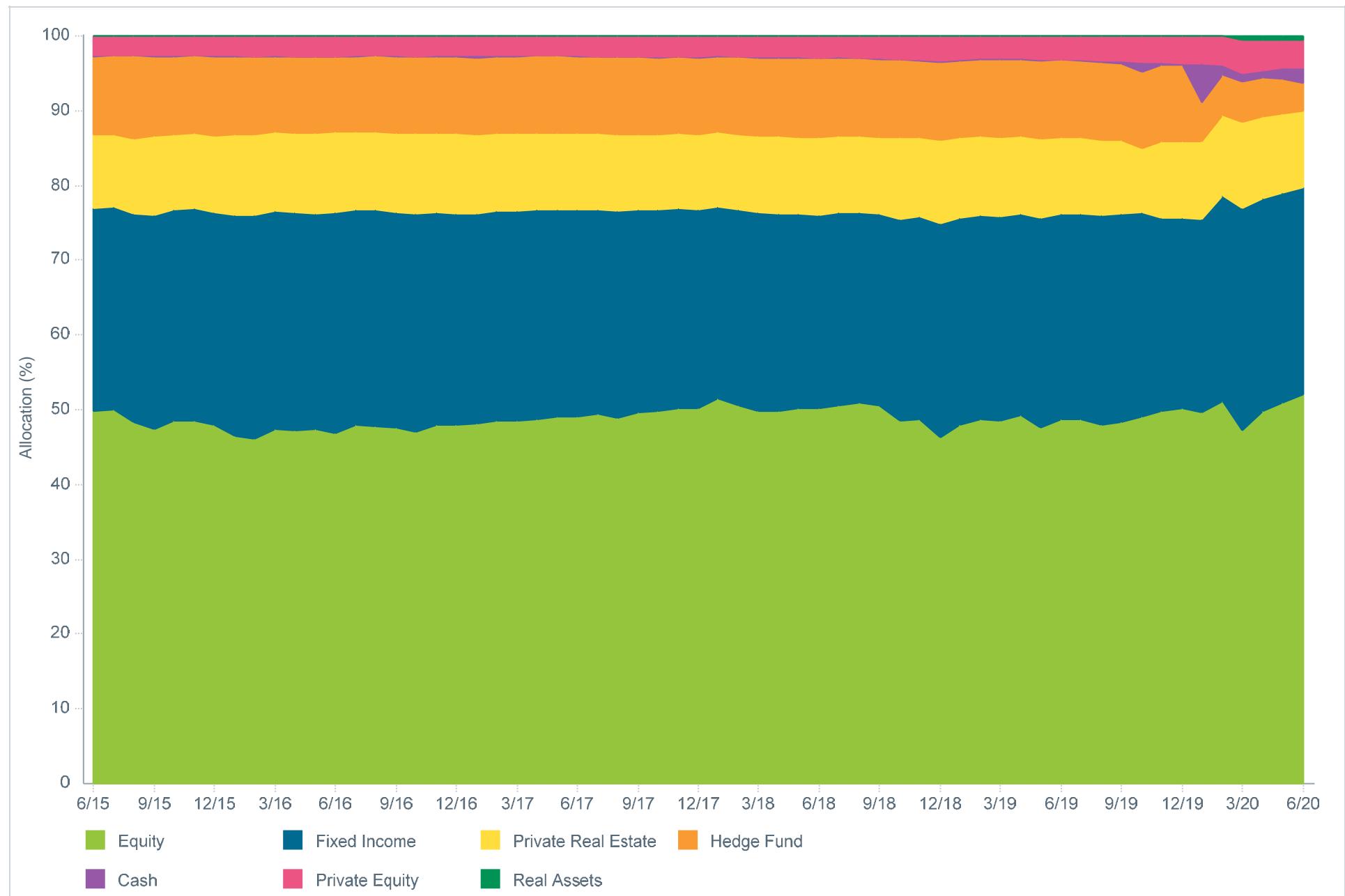
As of June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Law Enforcement Retirement System
Historical Asset Allocation

5 Years Ending June 30, 2020



Oklahoma Uniform Retirement System for Justices & Judges (OURSJJ)

	Performance (%)												
	Trailing						Calendar Year						
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015
OURSJJ Total Fund (Net)	13.69	-2.42	4.32	4.32	6.23	6.31	7.34	8.50	21.35	-6.45	16.83	8.05	-1.11
OURSJJ Policy Index	14.18	-2.06	4.76	4.76	6.51	6.55	7.47	8.57	21.51	-6.09	16.86	8.12	-0.89
Difference	-0.49	-0.36	-0.44	-0.44	-0.28	-0.24	-0.13	-0.07	-0.16	-0.36	-0.03	-0.07	-0.22
OURSJJ Actual Allocation Index	13.43	-2.49	4.15	4.15	6.05	6.16	7.17	8.26	21.01	-6.52	16.63	7.90	-1.19
Difference	0.26	0.07	0.17	0.17	0.18	0.15	0.17	0.24	0.34	0.07	0.20	0.15	0.08
Actuarial Discount Rate (7.0%)	1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference	11.98	-5.86	-2.68	-2.68	-0.77	-0.69	0.34	1.50	14.35	-13.45	9.83	1.05	-8.11
OURSJJ Total Fund (Gross)	13.69	-2.42	4.34	4.34	6.28	6.35	7.38	8.54	21.39	-6.39	16.89	8.05	-1.07
OURSJJ Policy Index	14.18	-2.06	4.76	4.76	6.51	6.55	7.47	8.57	21.51	-6.09	16.86	8.12	-0.89
Difference	-0.49	-0.36	-0.42	-0.42	-0.23	-0.20	-0.09	-0.03	-0.12	-0.30	0.03	-0.07	-0.18
OURSJJ Actual Allocation Index	13.43	-2.49	4.15	4.15	6.05	6.16	7.17	8.26	21.01	-6.52	16.63	7.90	-1.19
Difference	0.26	0.07	0.19	0.19	0.23	0.19	0.21	0.28	0.38	0.13	0.26	0.15	0.12
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08
Rank	26	44	30	30	31	27	28	33	11	92	20	34	73
Asset Allocation vs. Target Allocation						Asset Allocation vs. Target Allocation Difference							
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)										
OURSJJ (Judges)	350,348,363	100.00	100.00								0.56%		
US Large Cap Equity	121,066,425	34.56	34.00								-0.10 %		
US Small Cap Equity	20,665,656	5.90	6.00								-1.88 %		
International Equity	91,508,341	26.12	28.00								1.18%		
Fixed Income	116,261,670	33.18	32.00								0.24%		
Cash Equivalent	846,271	0.24	0.00										

(Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Uniform Retirement System for Justices & Judges
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)							
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
OURSJJ Total Fund	350,348,363	100.00	13.69	-2.42	4.32	4.32	6.23	6.31	7.34	8.50	8.04	06/01/1985	
OURSJJ Policy Index			14.18	-2.06	4.76	4.76	6.51	6.55	7.47	8.57	9.31		
Difference			-0.49	-0.36	-0.44	-0.44	-0.28	-0.24	-0.13	-0.07	-1.27		
OURSJJ Actual Allocation Index			13.43	-2.49	4.15	4.15	6.05	6.16	7.17	8.26	N/A		
Difference			0.26	0.07	0.17	0.17	0.18	0.15	0.17	0.24	N/A		
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00		
Difference			11.98	-5.86	-2.68	-2.68	-0.77	-0.69	0.34	1.50	1.04		
US Equity	141,732,081	40.45	22.35	-4.96	4.59	4.59	9.06	9.40	11.22	13.40	4.21	10/01/1989	
OURSJJ US Equity Custom Index			22.03	-3.48	6.54	6.54	10.04	9.75	N/A	N/A	N/A		
Difference			0.32	-1.48	-1.95	-1.95	-0.98	-0.35	N/A	N/A	N/A		
BlackRock Russell 1000 Index (SA)	121,066,425	34.56	21.84	-3.45	6.75	6.75	10.37	10.31	11.91	13.90	13.27	07/01/2009	
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	14.08		
Difference			0.02	-0.64	-0.73	-0.73	-0.27	-0.16	-0.12	-0.07	-0.81		
BlackRock Russell 2000 Index (CF)	20,665,656	5.90	25.43	-13.02	-6.53	-6.53	2.14	4.48	7.38	10.67	11.62	07/01/2009	
Russell 2000 Index			25.42	-12.98	-6.63	-6.63	2.01	4.29	7.17	10.50	11.46		
Difference			0.01	-0.04	0.10	0.10	0.13	0.19	0.21	0.17	0.16		
International Equity	91,508,341	26.12	16.25	-10.84	-4.58	-4.58	1.40	2.52	3.95	5.22	2.88	07/01/1994	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	N/A		
Difference			0.13	0.16	0.22	0.22	0.27	0.26	0.24	0.25	N/A		
BlackRock MSCI ACWI Ex US (SA)	91,508,341	26.12	16.25	-10.84	-4.58	-4.58	1.40	2.52	3.95	5.22	4.21	10/01/2009	
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	3.84		
Difference			0.13	0.16	0.22	0.22	0.27	0.26	0.24	0.25	0.37		

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Uniform Retirement System for Justices & Judges
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Fixed Income	116,261,670	33.18	3.35	8.73	11.75	11.75	6.64	5.19	4.75	4.77	3.97	10/01/1989
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	6.09	
Difference			0.45	2.59	3.01	3.01	1.32	0.89	0.79	0.95	-2.12	
BlackRock US Fixed Income (SA)	55,397,581	15.81	4.10	6.66	9.43	9.43	5.62	4.57	4.23	4.13	5.38	06/01/2000
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.22	
Difference			1.20	0.52	0.69	0.69	0.30	0.27	0.27	0.31	0.16	
MetWest US Fixed Income (SA)	34,762,712	9.92	4.01	6.91	9.66	9.66	5.97	4.65	4.32	4.63	5.60	09/01/2001
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.68	
Difference			1.11	0.77	0.92	0.92	0.65	0.35	0.36	0.81	0.92	
Hoisington US Long Duration Fixed Income (SA)	14,224,125	4.06	-1.54	23.77	29.31	29.31	13.63	10.17	9.50	8.73	8.50	10/01/1999
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.14	
Difference			-4.44	17.63	20.57	20.57	8.31	5.87	5.54	4.91	3.36	
BlackRock TIPS (SA)	11,877,252	3.39	4.43	6.13	8.44	8.44	5.20	3.92	3.19	3.64	3.84	03/01/2010
Bloomberg US Trsy US TIPS Index			4.24	6.01	8.28	8.28	5.05	3.75	3.05	3.52	3.79	
Difference			0.19	0.12	0.16	0.16	0.15	0.17	0.14	0.12	0.05	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Uniform Retirement System for Justices & Judges
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OURSJJ Total Fund	350,348,363	100.00	13.69	-2.42	4.34	4.34	6.28	6.35	7.38	8.54	8.89	06/01/1985
OURSJJ Policy Index			14.18	-2.06	4.76	4.76	6.51	6.55	7.47	8.57	9.31	
Difference			-0.49	-0.36	-0.42	-0.42	-0.23	-0.20	-0.09	-0.03	-0.42	
OURSJJ Actual Allocation Index			13.43	-2.49	4.15	4.15	6.05	6.16	7.17	8.26	N/A	
Difference			0.26	0.07	0.19	0.19	0.23	0.19	0.21	0.28	N/A	
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference			11.98	-5.86	-2.66	-2.66	-0.72	-0.65	0.38	1.54	1.89	
All Public Plans-Total Fund Median			12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.60	
Rank			26	44	30	30	31	27	28	33	27	
US Equity	141,732,081	40.45	22.35	-4.96	4.59	4.59	9.06	9.41	11.23	13.41	9.27	10/01/1989
OURSJJ US Equity Custom Index			22.03	-3.48	6.54	6.54	10.04	9.75	N/A	N/A	N/A	
Difference			0.32	-1.48	-1.95	-1.95	-0.98	-0.34	N/A	N/A	N/A	
All Public Plans-US Equity Segment Median			21.87	-4.86	4.26	4.26	8.72	8.91	10.68	13.15	N/A	
Rank			36	55	40	40	43	37	34	42	N/A	
BlackRock Russell 1000 Index (SA)	121,066,425	34.56	21.84	-3.45	6.75	6.75	10.38	10.31	11.92	13.90	13.28	07/01/2009
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	14.08	
Difference			0.02	-0.64	-0.73	-0.73	-0.26	-0.16	-0.11	-0.07	-0.80	
IM U.S. Large Cap Core Equity (SA+CF) Median			20.19	-4.29	5.29	5.29	9.71	9.73	11.73	13.83	13.87	
Rank			27	42	37	37	40	40	45	48	67	
BlackRock Russell 2000 Index (CF)	20,665,656	5.90	25.43	-13.02	-6.52	-6.52	2.16	4.50	7.41	10.70	11.64	07/01/2009
Russell 2000 Index			25.42	-12.98	-6.63	-6.63	2.01	4.29	7.17	10.50	11.46	
Difference			0.01	-0.04	0.11	0.11	0.15	0.21	0.24	0.20	0.18	
IM U.S. Small Cap Core Equity (SA+CF) Median			24.99	-14.43	-8.44	-8.44	2.21	5.23	8.32	11.83	12.86	
Rank			42	44	39	39	51	63	67	74	74	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission

Oklahoma Uniform Retirement System for Justices & Judges

Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%		QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.
International Equity	91,508,341	26.12	16.25	-10.84	-4.58	-4.58	1.42	2.55	3.99	5.26	5.23	07/01/1994
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	N/A	
Difference		0.13	0.16	0.22	0.22	0.29	0.29	0.28	0.29	0.29	N/A	
All Public Plans-Intl. Equity Segment Median		17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	N/A		
Rank		71	61	65	65	74	77	91	91	N/A		
BlackRock MSCI ACWI Ex US (SA)	91,508,341	26.12	16.25	-10.84	-4.58	-4.58	1.42	2.55	3.99	5.26	4.25	10/01/2009
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	3.84	
Difference		0.13	0.16	0.22	0.22	0.29	0.29	0.28	0.29	0.41		
IM All ACWI Ex US (SA+CF) Median		18.04	-8.10	-0.85	-0.85	2.61	3.77	5.26	7.21	6.08		
Rank		67	65	67	67	62	63	71	85	82		
Fixed Income	116,261,670	33.18	3.35	8.75	11.81	11.81	6.72	5.26	4.83	4.86	6.84	10/01/1989
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	6.09	
Difference		0.45	2.61	3.07	3.07	1.40	0.96	0.87	1.04	0.75		
BlackRock US Fixed Income (SA)	55,397,581	15.81	4.10	6.66	9.48	9.48	5.69	4.63	4.30	4.20	5.48	06/01/2000
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.22	
Difference		1.20	0.52	0.74	0.74	0.37	0.33	0.34	0.38	0.26		
IM U.S. Broad Market Fixed Income (SA+CF) Median		5.08	5.84	8.82	8.82	5.57	4.74	4.47	4.57	5.78		
Rank		72	29	28	28	43	62	64	77	79		
MetWest US Fixed Income (SA)	34,762,712	9.92	4.01	6.92	9.74	9.74	6.04	4.72	4.42	4.74	5.66	09/01/2001
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.68	
Difference		1.11	0.78	1.00	1.00	0.72	0.42	0.46	0.92	0.98		
IM U.S. Broad Market Fixed Income (SA+CF) Median		5.08	5.84	8.82	8.82	5.57	4.74	4.47	4.57	5.32		
Rank		73	21	23	23	17	53	55	40	22		
Hoisington US Long Duration Fixed Income (SA)	14,224,125	4.06	-1.54	23.80	29.42	29.42	13.77	10.31	9.65	8.87	9.01	10/01/1999
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.14	
Difference		-4.44	17.66	20.68	20.68	8.45	6.01	5.69	5.05	3.87		
IM U.S. Long Duration (SA+CF) Median		7.93	11.87	18.62	18.62	10.42	9.40	8.53	8.41	8.60		
Rank		100	1	1	1	1	4	4	23	18		

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission

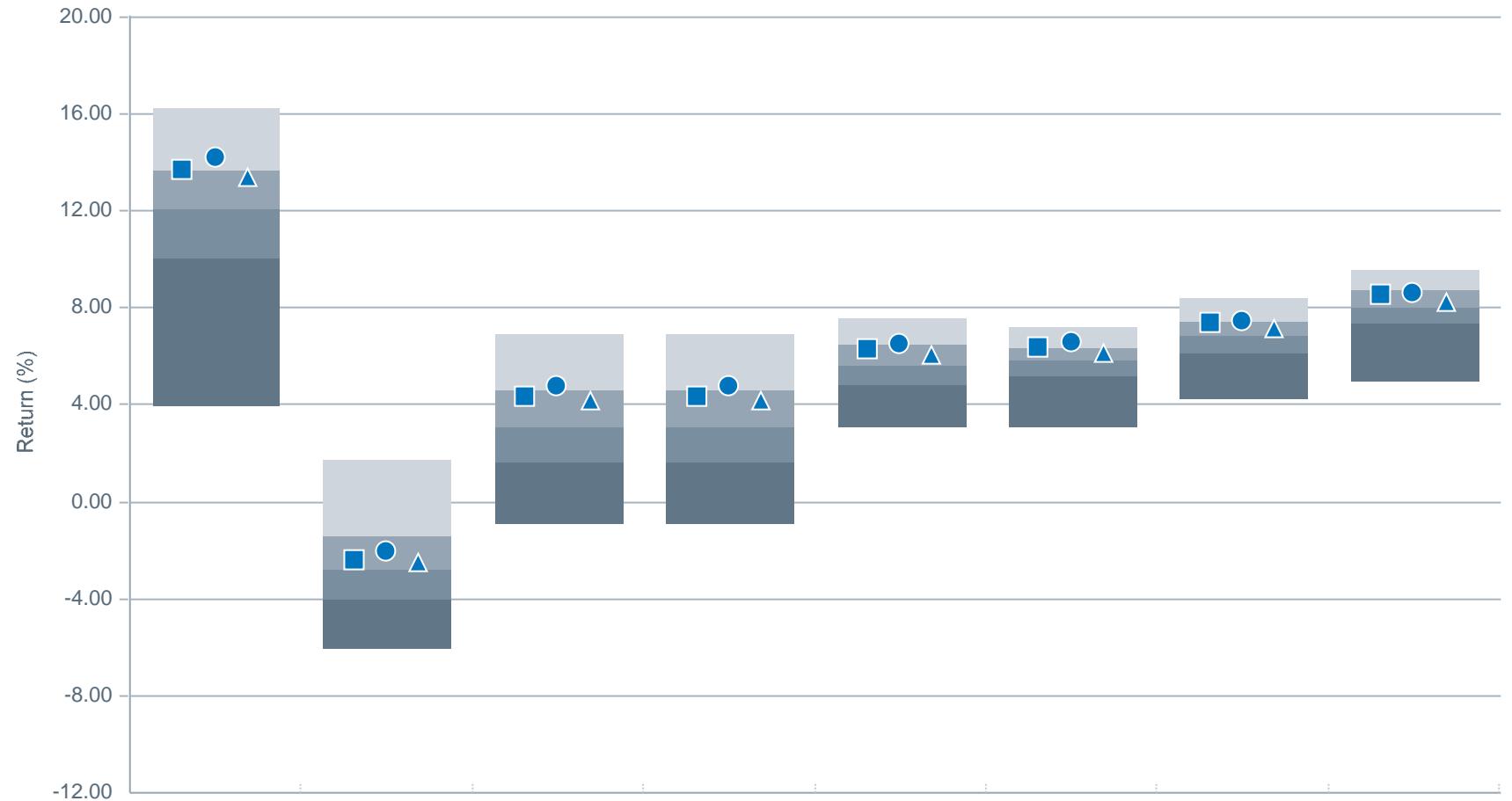
Oklahoma Uniform Retirement System for Justices & Judges

Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

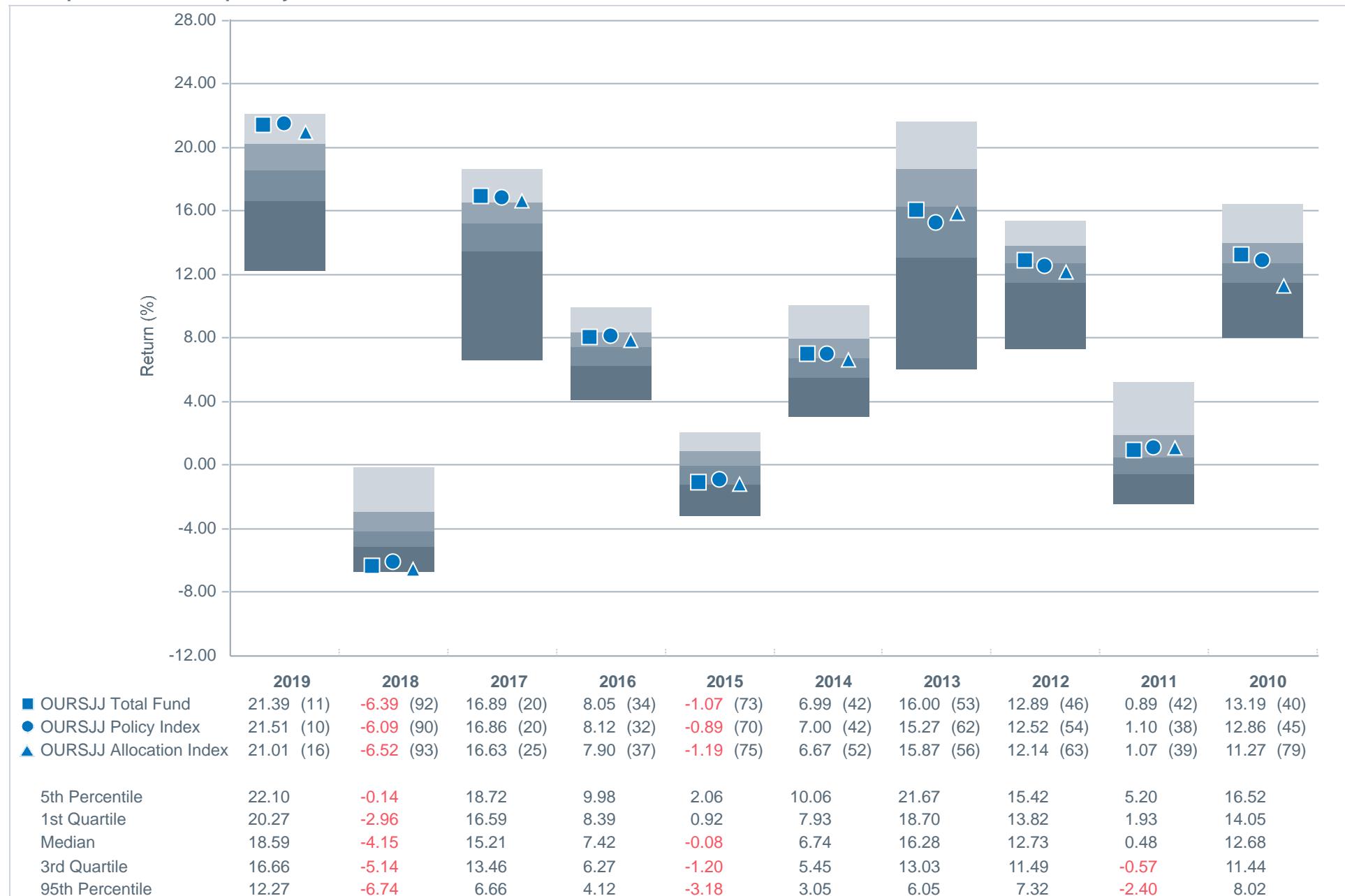
	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
BlackRock TIPS (SA)	11,877,252	3.39	4.43	6.13	8.45	8.45	5.21	3.93	3.21	3.66	3.85	03/01/2010
Bloomberg US Trsy US TIPS Index			4.24	6.01	8.28	8.28	5.05	3.75	3.05	3.52	3.79	
Difference			0.19	0.12	0.17	0.17	0.16	0.18	0.16	0.14	0.06	
IM U.S. TIPS (SA+CF) Median			4.28	5.90	8.22	8.22	5.06	3.75	3.05	3.53	3.80	
Rank			30	22	18	18	20	24	22	29	32	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.



	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years
■ OURSJ Total Fund	13.69 (26)	-2.42 (44)	4.34 (30)	4.34 (30)	6.28 (31)	6.35 (27)	7.38 (28)	8.54 (33)
● OURSJ Policy Index	14.18 (19)	-2.06 (38)	4.76 (23)	4.76 (23)	6.51 (26)	6.55 (20)	7.47 (25)	8.57 (32)
▲ OURSJ Allocation Index	13.43 (30)	-2.49 (46)	4.15 (33)	4.15 (33)	6.05 (38)	6.16 (37)	7.17 (37)	8.26 (42)
5th Percentile	16.24	1.72	6.92	6.92	7.58	7.27	8.39	9.57
1st Quartile	13.69	-1.37	4.60	4.60	6.52	6.39	7.45	8.75
Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03
3rd Quartile	10.05	-4.03	1.63	1.63	4.84	5.22	6.14	7.36
95th Percentile	3.97	-6.07	-0.88	-0.88	3.12	3.11	4.27	4.96

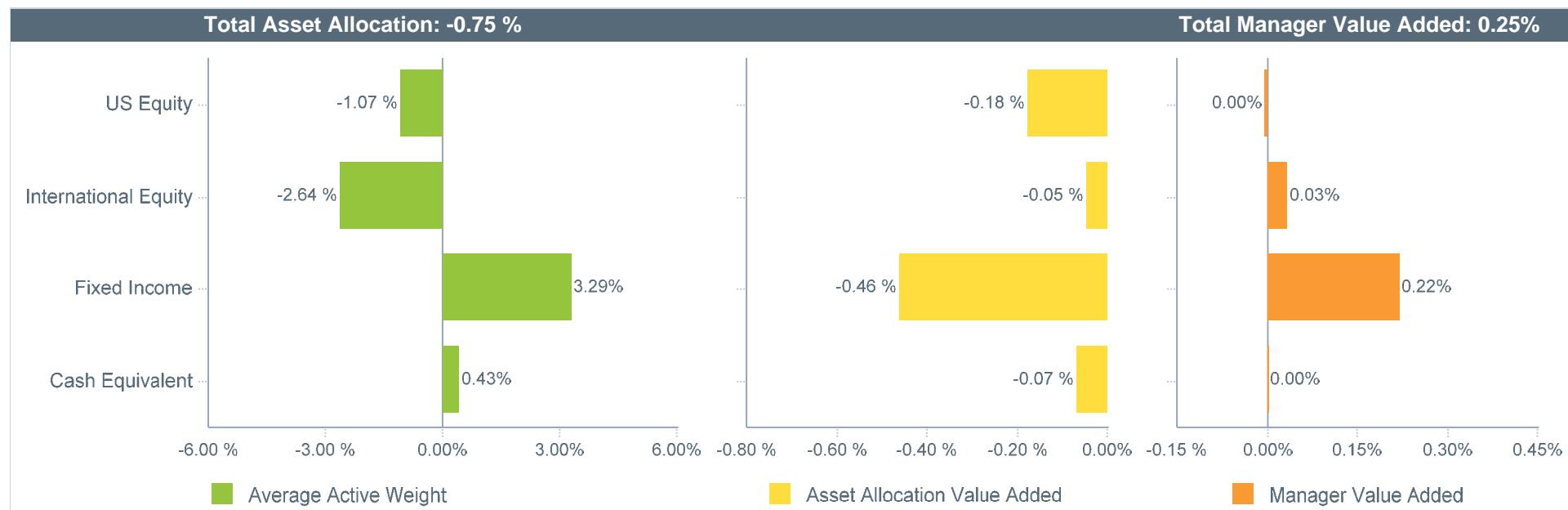
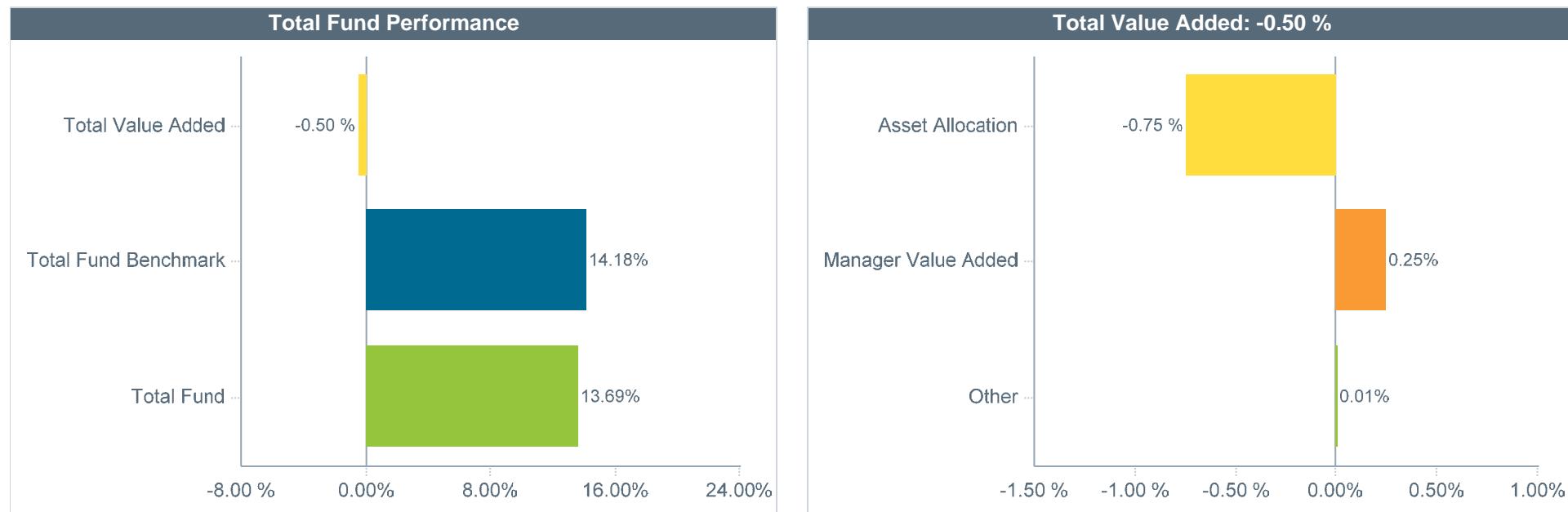
Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
Oklahoma State Pension Commission fiscal year begins on 07/01.



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
 Oklahoma Uniform Retirement System for Justices & Judges
 Total Fund Attribution

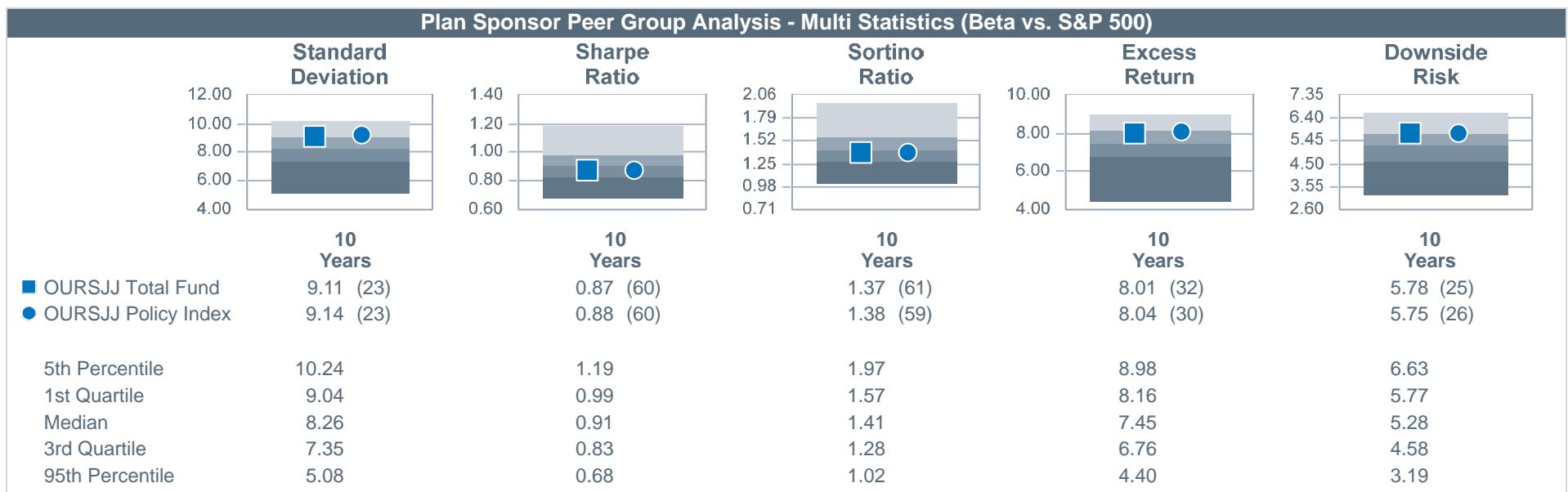
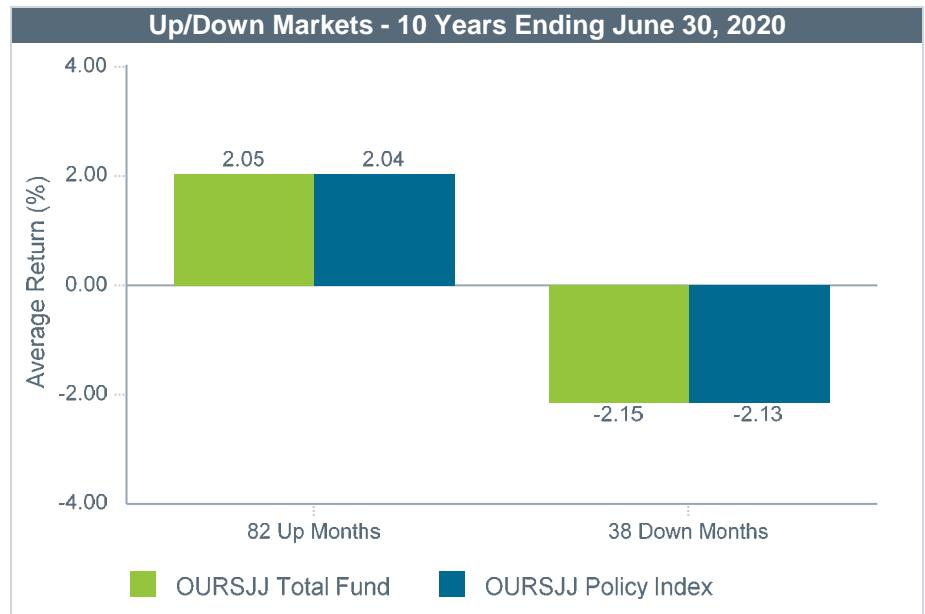
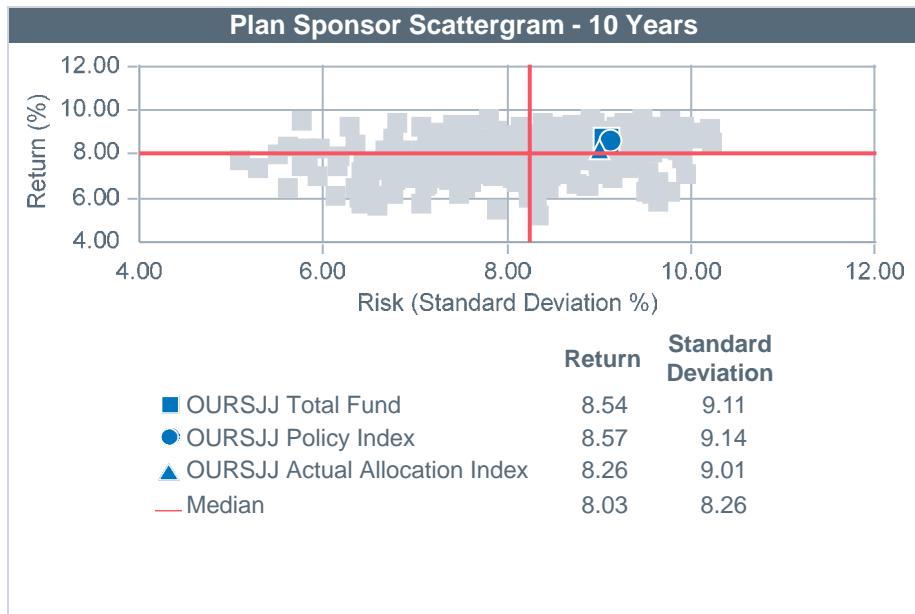
Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation.

Oklahoma State Pension Commission
 Oklahoma Uniform Retirement System for Justices & Judges
 Total Fund Risk & Return, Up/Down Markets, and Multi Statistics

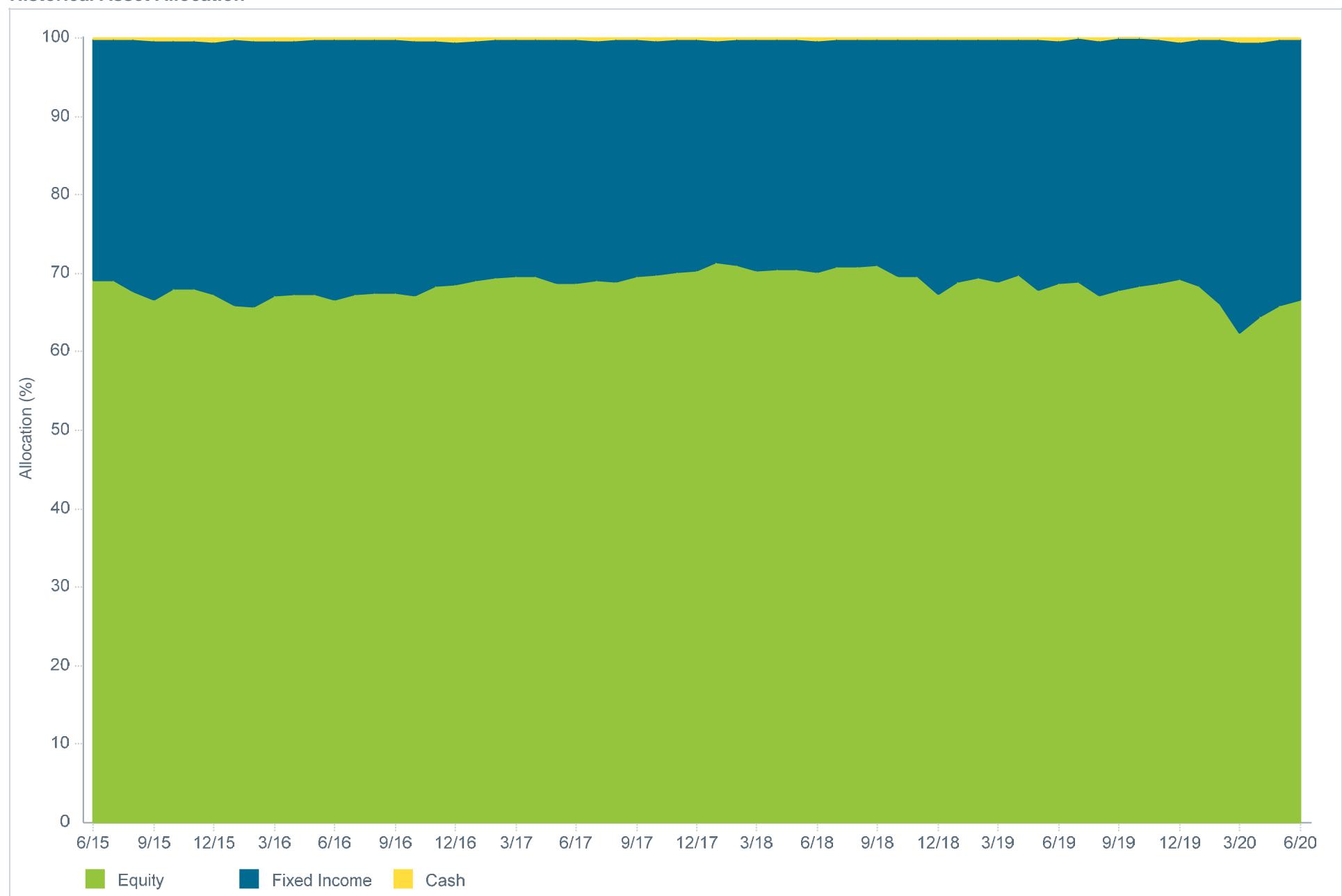
As of June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Uniform Retirement System for Justices & Judges
Historical Asset Allocation

5 Years Ending June 30, 2020

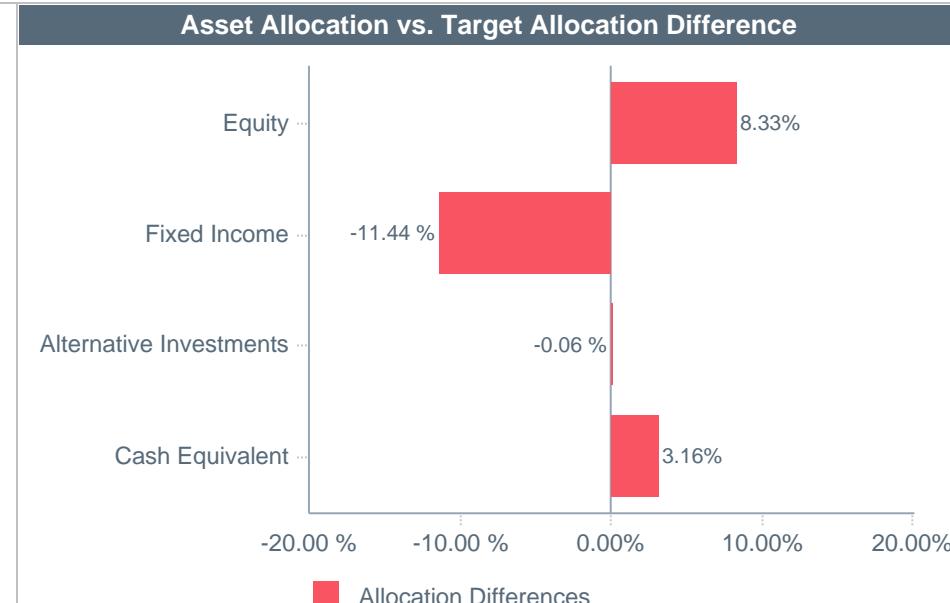


Oklahoma Wildlife Conservation Retirement System (OWCRS)

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Total Fund Summary

As of June 30, 2020

	Performance (%)												
	Trailing						Calendar Year						
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2019	2018	2017	2016	2015
OWCRS Total Fund (Net)	13.16	-0.24	5.58	5.58	6.83	6.35	7.25	7.98	19.24	-3.78	13.98	6.27	-0.05
OWCRS Policy Index	12.37	-2.35	2.80	2.80	4.93	5.26	6.00	7.49	17.53	-4.95	12.96	7.34	-1.27
Difference	0.79	2.11	2.78	2.78	1.90	1.09	1.25	0.49	1.71	1.17	1.02	-1.07	1.22
OWCRS Actual Allocation Index	12.44	-2.81	3.69	3.69	6.49	6.50	7.26	7.99	20.53	-3.71	14.38	8.04	-0.28
Difference	0.72	2.57	1.89	1.89	0.34	-0.15	-0.01	-0.01	-1.29	-0.07	-0.40	-1.77	0.23
Actuarial Discount Rate (7.0%)	1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Difference	11.45	-3.68	-1.42	-1.42	-0.17	-0.65	0.25	0.98	12.24	-10.78	6.98	-0.73	-7.05
OWCRS Total Fund (Gross)	13.22	-0.08	5.88	5.88	7.10	6.64	7.49	8.18	19.49	-3.52	14.27	6.59	0.19
OWCRS Policy Index	12.37	-2.35	2.80	2.80	4.93	5.26	6.00	7.49	17.53	-4.95	12.96	7.34	-1.27
Difference	0.85	2.27	3.08	3.08	2.17	1.38	1.49	0.69	1.96	1.43	1.31	-0.75	1.46
OWCRS Actual Allocation Index	12.44	-2.81	3.69	3.69	6.49	6.50	7.26	7.99	20.53	-3.71	14.38	8.04	-0.28
Difference	0.78	2.73	2.19	2.19	0.61	0.14	0.23	0.19	-1.04	0.19	-0.11	-1.45	0.47
All Public Plans-Total Fund Median	12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	18.59	-4.15	15.21	7.42	-0.08
Rank	31	12	11	11	12	17	23	45	37	37	65	70	44
Asset Allocation vs. Target Allocation						Asset Allocation vs. Target Allocation Difference							
	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)										
OWCRS (Wildlife)	118,396,141	100.00	100.00								Equity ...	8.33%	
Equity	69,065,086	58.33	50.00								Fixed Income ...	-11.44 %	
Fixed Income	33,817,087	28.56	40.00								Alternative Investments ...	-0.06 %	
Alternative Investments	11,767,603	9.94	10.00								Cash Equivalent ...	3.16%	
Cash Equivalent	3,746,366	3.16	0.00										



The chart displays the percentage difference between actual asset allocation and target allocation for four asset classes. The x-axis ranges from -20.00% to 20.00% in increments of 10.00%. Red bars indicate positive differences, while a small black bar indicates a negative difference for Fixed Income.

Category	Difference (%)
Equity	8.33%
Fixed Income	-11.44 %
Alternative Investments	-0.06 %
Cash Equivalent	3.16%

Parentheses contain percentile ranks. Allocations shown may not sum up to 100% exactly due to rounding. Please see the Addendum for custom index definitions and additional Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OWCRS Total Fund	118,396,141	100.00	13.16	-0.24	5.58	5.58	6.83	6.35	7.25	7.98	7.70	01/01/1988
OWCRS Policy Index			12.37	-2.35	2.80	2.80	4.93	5.26	6.00	7.49	N/A	
Difference			0.79	2.11	2.78	2.78	1.90	1.09	1.25	0.49	N/A	
OWCRS Actual Allocation Index			12.44	-2.81	3.69	3.69	6.49	6.50	7.26	7.99	N/A	
Difference			0.72	2.57	1.89	1.89	0.34	-0.15	-0.01	-0.01	N/A	
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	
Difference			11.45	-3.68	-1.42	-1.42	-0.17	-0.65	0.25	0.98	0.70	
US Equity	53,325,696	45.04	21.03	-2.23	6.13	6.13	9.93	9.48	11.62	13.21	8.30	12/01/2005
Russell 3000 Index			22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	8.60	
Difference			-1.00	1.25	-0.40	-0.40	-0.11	-0.55	-0.06	-0.51	-0.30	
iShares:Russ 1000 ETF (IWB)	12,551,868	10.60	21.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	03/01/2020
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	5.72	
Difference			-0.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DFA US Small Cap Val:I (DFSVX)	1,637,359	1.38	22.26	-25.39	-20.02	-20.02	-7.25	-2.03	N/A	N/A	-0.48	01/01/2014
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	1.73	
Difference			3.35	-1.89	-2.54	-2.54	-2.90	-3.29	N/A	N/A	-2.21	
Vanguard S-C Id:Inst (VSCIX)	1,680,779	1.42	26.68	-11.44	-5.61	-5.61	3.45	4.76	7.71	11.05	7.08	12/01/2005
Russell 2000 Index			25.42	-12.98	-6.63	-6.63	2.01	4.29	7.17	10.50	6.77	
Difference			1.26	1.54	1.02	1.02	1.44	0.47	0.54	0.55	0.31	
T Rowe Price NH:I (PRJIX)	1,806,796	1.53	37.63	20.67	27.46	27.46	24.41	18.89	N/A	N/A	16.30	01/01/2014
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	7.50	
Difference			7.05	23.73	23.98	23.98	16.55	12.03	N/A	N/A	8.80	
Bank of Oklahoma Managed Equity (SA)	35,648,895	30.11	19.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.71	04/01/2020
Russell 3000 Index			22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	22.03	
Difference			-2.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-2.32	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
International Equity	15,739,389	13.29	18.56	-11.57	-4.52	-4.52	1.13	2.56	4.12	5.51	N/A	09/01/1993
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	N/A	
Difference			2.44	-0.57	0.28	0.28	0.00	0.30	0.41	0.54	N/A	
Vanguard Dev Mkt;Adm (VTMGX)	4,060,044	3.43	17.41	-10.42	-3.89	-3.89	0.53	2.26	4.11	5.98	3.55	09/01/1999
MSCI Wrld Ex US Index (USD) (Net)			15.34	-11.49	-5.42	-5.42	0.84	2.01	3.77	5.43	3.56	
Difference			2.07	1.07	1.53	1.53	-0.31	0.25	0.34	0.55	-0.01	
Dodge & Cox Intl Stock (DODFX)	4,088,103	3.45	17.36	-18.44	-11.28	-11.28	-3.90	-1.26	N/A	N/A	-0.81	03/01/2014
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	1.74	
Difference			1.24	-7.44	-6.48	-6.48	-5.03	-3.52	N/A	N/A	-2.55	
MFS Intl New Discv;R6 (MIDLX)	4,177,808	3.53	19.49	-10.43	-3.01	-3.01	3.48	4.99	N/A	N/A	4.74	03/01/2014
MSCI ACW Ex US Grth Index (USD) (Net)			19.11	-2.62	5.80	5.80	6.07	5.61	6.32	7.04	4.79	
Difference			0.38	-7.81	-8.81	-8.81	-2.59	-0.62	N/A	N/A	-0.05	
Invsc Oppen Dev Mkt;R6 (ODVIX)	3,413,434	2.88	18.27	-8.71	-1.71	-1.71	4.45	4.73	3.82	N/A	3.78	06/01/2013
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.23	
Difference			0.19	1.07	1.68	1.68	2.55	1.87	0.60	N/A	1.55	
Fixed Income	33,817,087	28.56	3.39	5.19	7.29	7.29	4.83	3.54	3.07	3.35	3.60	03/01/2006
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.58	
Difference			0.49	-0.95	-1.45	-1.45	-0.49	-0.76	-0.89	-0.47	-0.98	
Bank of Oklahoma Managed Fixed Income (SA)	23,501,362	19.85	2.87	5.22	7.31	7.31	4.82	3.53	3.07	3.34	3.52	12/01/2005
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.60	
Difference			-0.03	-0.92	-1.43	-1.43	-0.50	-0.77	-0.89	-0.48	-1.08	
MetWest:Total Rtn;I (MWTIX)	3,327,837	2.81	4.07	6.36	8.97	8.97	N/A	N/A	N/A	N/A	5.07	08/01/2017
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.32	
Difference			1.17	0.22	0.23	0.23	N/A	N/A	N/A	N/A	-0.25	
PIMCO:Income;Inst (PIMIX)	3,056,012	2.58	6.96	-1.25	1.15	1.15	N/A	N/A	N/A	N/A	2.90	08/01/2017
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.32	
Difference			4.06	-7.39	-7.59	-7.59	N/A	N/A	N/A	N/A	-2.42	
PIMCO:Intl Bd (DH);Inst (PFORX)	3,931,876	3.32	3.82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	03/01/2020
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	2.29	
Difference			0.92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Net of Fees

As of June 30, 2020

	Allocation					Performance (%)						
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Alternative Investments	11,767,603	9.94	10.44	-5.29	-0.64	-0.64	2.48	3.08	2.50	N/A	2.42	12/01/2010
OWCRS Alternatives Custom Index			7.89	-1.59	0.48	0.48	2.24	1.40	N/A	N/A	N/A	
Difference			2.55	-3.70	-1.12	-1.12	0.24	1.68	N/A	N/A	N/A	
Vanguard RE Idx;Adm (VGSLX)	2,221,918	1.88	13.44	-13.66	-6.73	-6.73	1.88	4.05	N/A	N/A	4.05	07/01/2015
Vanguard Spl Real Estate Index			13.50	-13.82	-6.82	-6.82	2.32	5.47	6.34	9.79	5.47	
Difference			-0.06	0.16	0.09	0.09	-0.44	-1.42	N/A	N/A	-1.42	
First Eagle:Global;I (SGIIX)	4,875,326	4.12	14.78	-7.53	-2.24	-2.24	N/A	N/A	N/A	N/A	2.53	08/01/2017
MSCI Wrld Index (USD) (Net)			19.36	-5.77	2.84	2.84	6.70	6.90	8.38	9.95	6.03	
Difference			-4.58	-1.76	-5.08	-5.08	N/A	N/A	N/A	N/A	-3.50	
Calamos:Mkt Neut Inc;I (CMNIX)	4,670,359	3.94	5.08	1.02	3.23	3.23	N/A	N/A	N/A	N/A	3.70	08/01/2017
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.32	
Difference			2.18	-5.12	-5.51	-5.51	N/A	N/A	N/A	N/A	-1.62	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
OWCRS Total Fund	118,396,141	100.00	13.22	-0.08	5.88	5.88	7.10	6.64	7.49	8.18	8.21	01/01/1988
OWCRS Policy Index			12.37	-2.35	2.80	2.80	4.93	5.26	6.00	7.49	N/A	
Difference			0.85	2.27	3.08	3.08	2.17	1.38	1.49	0.69	N/A	
OWCRS Actual Allocation Index			12.44	-2.81	3.69	3.69	6.49	6.50	7.26	7.99	N/A	
Difference			0.78	2.73	2.19	2.19	0.61	0.14	0.23	0.19	N/A	
Actuarial Discount Rate (7.0%)			1.71	3.44	7.00	7.00	7.00	7.00	7.00	7.00	7.00	
Difference			11.51	-3.52	-1.12	-1.12	0.10	-0.36	0.49	1.18	1.21	
All Public Plans-Total Fund Median			12.13	-2.80	3.06	3.06	5.66	5.87	6.85	8.03	8.32	
Rank			31	12	11	11	12	17	23	45	59	
US Equity	53,325,696	45.04	21.05	-2.06	6.44	6.44	10.21	9.76	11.86	13.41	8.44	12/01/2005
Russell 3000 Index			22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	8.60	
Difference			-0.98	1.42	-0.09	-0.09	0.17	-0.27	0.18	-0.31	-0.16	
All Public Plans-US Equity Segment Median			21.87	-4.86	4.26	4.26	8.72	8.91	10.68	13.15	7.93	
Rank			68	11	26	26	24	31	18	42	20	
iShares:Russ 1000 ETF (IWB)	12,551,868	10.60	21.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	03/01/2020
Russell 1000 Index			21.82	-2.81	7.48	7.48	10.64	10.47	12.03	13.97	5.72	
Difference			-0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IM U.S. Large Cap Equity (MF) Median			20.36	-3.07	6.59	6.59	9.75	9.44	11.11	12.78	5.57	
Rank			41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DFA US Small Cap Val:I (DFSVX)	1,637,359	1.38	22.41	-25.18	-19.59	-19.59	-6.77	-1.53	N/A	N/A	0.03	01/01/2014
Russell 2000 Val Index			18.91	-23.50	-17.48	-17.48	-4.35	1.26	3.98	7.82	1.73	
Difference			3.50	-1.68	-2.11	-2.11	-2.42	-2.79	N/A	N/A	-1.70	
IM U.S. Small Cap Value Equity (SA+CF) Median			21.18	-21.45	-15.08	-15.08	-2.50	1.92	5.30	9.51	2.83	
Rank			38	81	81	81	93	96	N/A	N/A	93	
Vanguard S-C Id;Inst (VSCIX)	1,680,779	1.42	26.69	-11.40	-5.55	-5.55	3.48	4.80	7.74	11.07	7.09	12/01/2005
Russell 2000 Index			25.42	-12.98	-6.63	-6.63	2.01	4.29	7.17	10.50	6.77	
Difference			1.27	1.58	1.08	1.08	1.47	0.51	0.57	0.57	0.32	
IM U.S. Small Cap Core Equity (SA+CF) Median			24.99	-14.43	-8.44	-8.44	2.21	5.23	8.32	11.83	7.78	
Rank			32	35	36	36	35	59	64	63	65	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
T Rowe Price NH;I (PRJIX)	1,806,796	1.53	37.84	21.06	28.28	28.28	25.23	19.64	N/A	N/A	16.87	01/01/2014
Russell 2000 Grth Index			30.58	-3.06	3.48	3.48	7.86	6.86	10.03	12.92	7.50	
Difference			7.26	24.12	24.80	24.80	17.37	12.78	N/A	N/A	9.37	
IM U.S. Small Cap Growth Equity (MF) Median			30.85	0.00	4.23	4.23	9.31	8.45	10.32	13.17	8.07	
Rank			19	3	3	3	4	1	N/A	N/A	1	
Bank of Oklahoma Managed Equity (SA)	35,648,895	30.11	19.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.71	04/01/2020
Russell 3000 Index			22.03	-3.48	6.53	6.53	10.04	10.03	11.68	13.72	22.03	
Difference			-2.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-2.32	
International Equity	15,739,389	13.29	18.70	-11.33	-3.93	-3.93	1.85	3.34	4.72	5.93	N/A	09/01/1993
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	N/A	
Difference			2.58	-0.33	0.87	0.87	0.72	1.08	1.01	0.96	N/A	
All Public Plans-Intl. Equity Segment Median			17.76	-10.04	-3.05	-3.05	2.08	3.17	4.87	6.52	N/A	
Rank			32	66	61	61	62	48	65	75	N/A	
Vanguard Dev Mkt;Adm (VTMGX)	4,060,044	3.43	17.43	-10.39	-3.82	-3.82	0.61	2.32	4.19	6.07	3.72	09/01/1999
MSCI Wrld Ex US Index (USD) (Net)			15.34	-11.49	-5.42	-5.42	0.84	2.01	3.77	5.43	3.56	
Difference			2.09	1.10	1.60	1.60	-0.23	0.31	0.42	0.64	0.16	
IM All ACWI Ex US (MF) Median			18.55	-6.58	0.46	0.46	2.52	2.87	4.46	5.99	4.41	
Rank			66	64	65	65	71	60	56	48	67	
Dodge & Cox Intl Stock (DODFX)	4,088,103	3.45	17.53	-18.19	-10.73	-10.73	-3.28	-0.62	N/A	N/A	-0.18	03/01/2014
MSCI ACW Ex US Index (USD) (Net)			16.12	-11.00	-4.80	-4.80	1.13	2.26	3.71	4.97	1.74	
Difference			1.41	-7.19	-5.93	-5.93	-4.41	-2.88	N/A	N/A	-1.92	
IM ACWI Ex US Core (MF) Median			17.60	-10.37	-3.08	-3.08	1.13	2.12	3.77	5.44	1.69	
Rank			52	97	95	95	97	95	N/A	N/A	89	
MFS Intl New Discv;R6 (MIDLX)	4,177,808	3.53	19.75	-9.98	-2.01	-2.01	4.57	6.10	N/A	N/A	5.84	03/01/2014
MSCI ACW Ex US Grth Index (USD) (Net)			19.11	-2.62	5.80	5.80	6.07	5.61	6.32	7.04	4.79	
Difference			0.64	-7.36	-7.81	-7.81	-1.50	0.49	N/A	N/A	1.05	
IM ACWI Ex US Growth (MF) Median			21.06	-2.58	5.55	5.55	6.30	5.33	6.35	7.29	4.43	
Rank			66	100	98	98	69	43	N/A	N/A	24	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Gross of Fees

As of June 30, 2020

	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Invsc Oppen Dev Mkt;R6 (ODVIX)	3,413,434	2.88	18.51	-8.33	-0.87	-0.87	5.34	5.61	4.44	N/A	4.39	06/01/2013
MSCI Emg Mkts Index (USD) (Net)			18.08	-9.78	-3.39	-3.39	1.90	2.86	3.22	3.27	2.23	
Difference		0.43	1.45	2.52	2.52	3.44	2.75	1.22	N/A	2.16		
IM Emerging Markets Equity (MF) Median		20.27	-9.44	-3.04	-3.04	1.15	2.57	3.03	3.16	1.96		
Rank		71	41	37	37	17	16	26	N/A	16		
Fixed Income	33,817,087	28.56	3.43	5.23	7.44	7.44	4.98	3.72	3.26	3.51	3.74	03/01/2006
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.58	
Difference		0.53	-0.91	-1.30	-1.30	-0.34	-0.58	-0.70	-0.31	-0.84		
Bank of Oklahoma Managed Fixed Income (SA)	23,501,362	19.85	2.87	5.22	7.40	7.40	4.95	3.70	3.24	3.51	3.67	12/01/2005
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	4.60	
Difference		-0.03	-0.92	-1.34	-1.34	-0.37	-0.60	-0.72	-0.31	-0.93		
IM U.S. Broad Market Fixed Income (SA+CF) Median		5.08	5.84	8.82	8.82	5.57	4.74	4.47	4.57	5.24		
Rank		94	67	78	78	86	96	98	98	99		
MetWest:Total Rtn:I (MWTIX)	3,327,837	2.81	4.18	6.59	9.44	9.44	N/A	N/A	N/A	N/A	5.48	08/01/2017
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.32	
Difference		1.28	0.45	0.70	0.70	N/A	N/A	N/A	N/A	0.16		
IM U.S. Broad Market Core+ Fixed Income (MF) Median		5.84	4.87	7.71	7.71	5.08	4.39	4.18	4.43	4.98		
Rank		81	9	7	7	N/A	N/A	N/A	N/A	22		
PIMCO:Income;Inst (PIMIX)	3,056,012	2.58	7.09	-0.99	1.65	1.65	N/A	N/A	N/A	N/A	3.40	08/01/2017
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.32	
Difference		4.19	-7.13	-7.09	-7.09	N/A	N/A	N/A	N/A	-1.92		
IM Multi-Sector General Bond (MF) Median		7.67	-0.59	2.17	2.17	3.07	3.53	3.56	4.56	2.93		
Rank		59	58	58	58	N/A	N/A	N/A	N/A	35		
PIMCO:Intl Bd (DH);Inst (PFORX)	3,931,876	3.32	3.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	03/01/2020
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	2.29	
Difference		1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IM International Fixed Income (MF) Median		4.16	-0.99	-0.79	-0.79	1.20	1.60	1.13	2.34	-0.71		
Rank		60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Asset Allocation & Performance - Gross of Fees

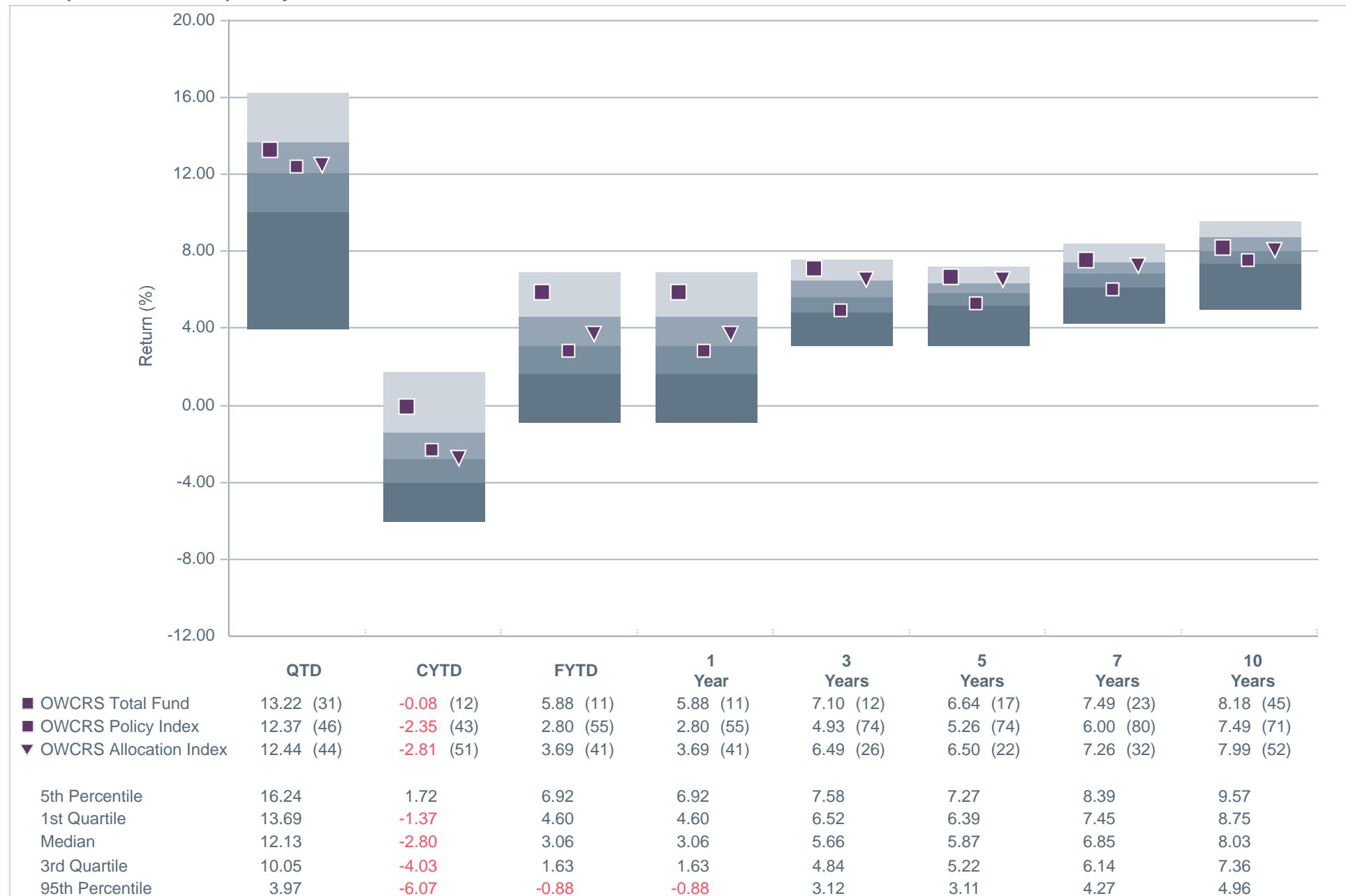
As of June 30, 2020

	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Alternative Investments	11,767,603	9.94	10.64	-4.95	0.07	0.07	3.25	3.90	3.08	N/A	2.85	12/01/2010
OWCRS Alternatives Custom Index			7.89	-1.59	0.48	0.48	2.24	1.40	N/A	N/A	N/A	
Difference			2.75	-3.36	-0.41	-0.41	1.01	2.50	N/A	N/A	N/A	
Vanguard RE Idx;Adm (VGSLX)	2,221,918	1.88	13.47	-13.61	-6.62	-6.62	2.00	4.18	N/A	N/A	4.18	07/01/2015
Vanguard Spl Real Estate Index			13.50	-13.82	-6.82	-6.82	2.32	5.47	6.34	9.79	5.47	
Difference			-0.03	0.21	0.20	0.20	-0.32	-1.29	N/A	N/A	-1.29	
IM Real Estate Sector (MF) Median			11.87	-14.35	-8.09	-8.09	1.88	4.63	5.65	8.98	4.63	
Rank			24	34	31	31	48	62	N/A	N/A	62	
First Eagle:Global;I (SGIIX)	4,875,326	4.12	15.01	-7.15	-1.48	-1.48	N/A	N/A	N/A	N/A	3.28	08/01/2017
MSCI Wrld Index (USD) (Net)			19.36	-5.77	2.84	2.84	6.70	6.90	8.38	9.95	6.03	
Difference			-4.35	-1.38	-4.32	-4.32	N/A	N/A	N/A	N/A	-2.75	
Calamos:Mkt Neut Inc;I (CMNIX)	4,670,359	3.94	5.34	1.47	4.03	4.03	N/A	N/A	N/A	N/A	4.47	08/01/2017
Bloomberg US Agg Bond Index			2.90	6.14	8.74	8.74	5.32	4.30	3.96	3.82	5.32	
Difference			2.44	-4.67	-4.71	-4.71	N/A	N/A	N/A	N/A	-0.85	

Performance shown is gross of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month following initial funding. Please see the Addendum for custom index definitions and additional comments. Oklahoma State Pension Commission fiscal year begins on 07/01.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis

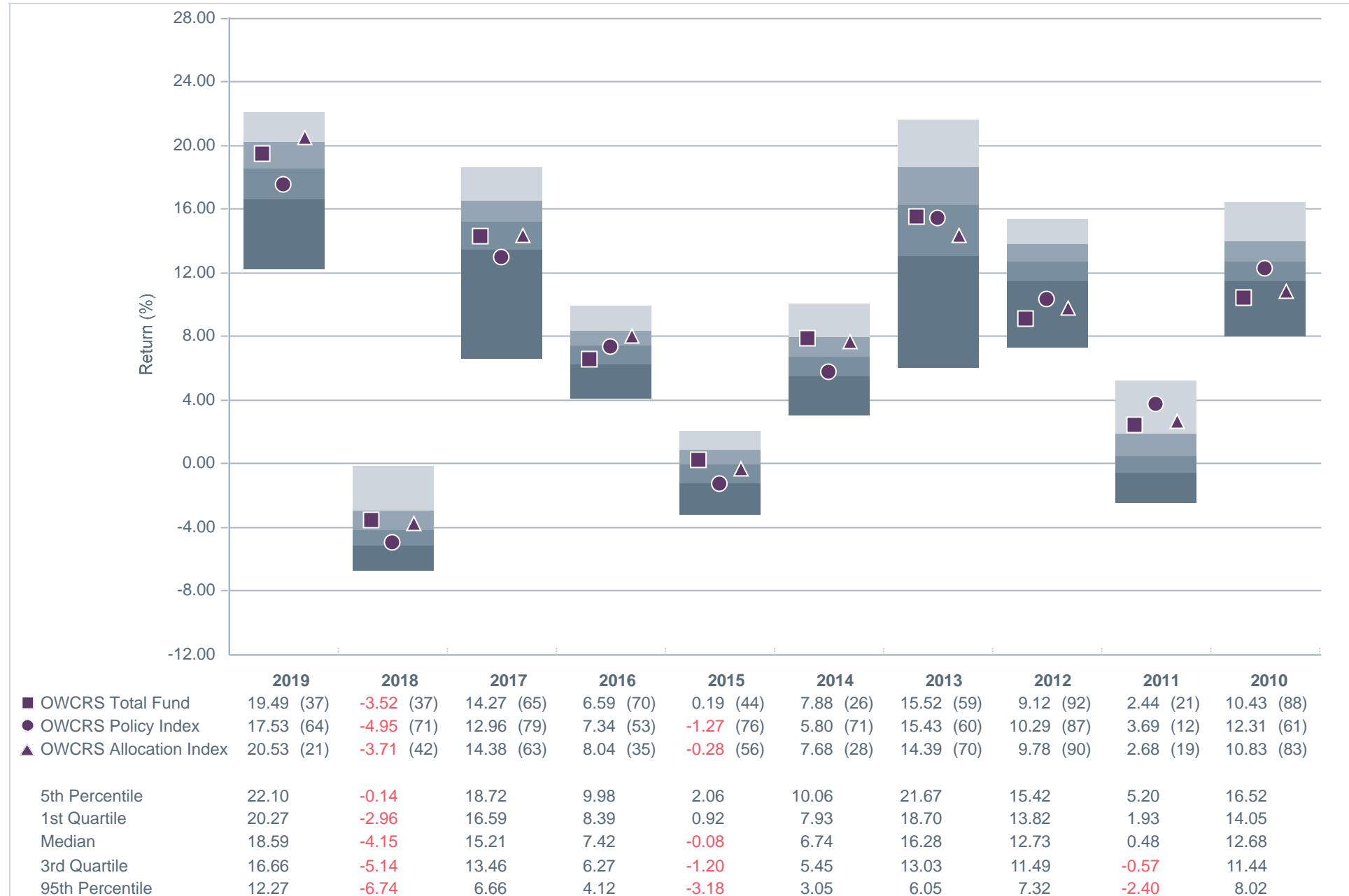
As of June 30, 2020



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.
 Oklahoma State Pension Commission fiscal year begins on 07/01.



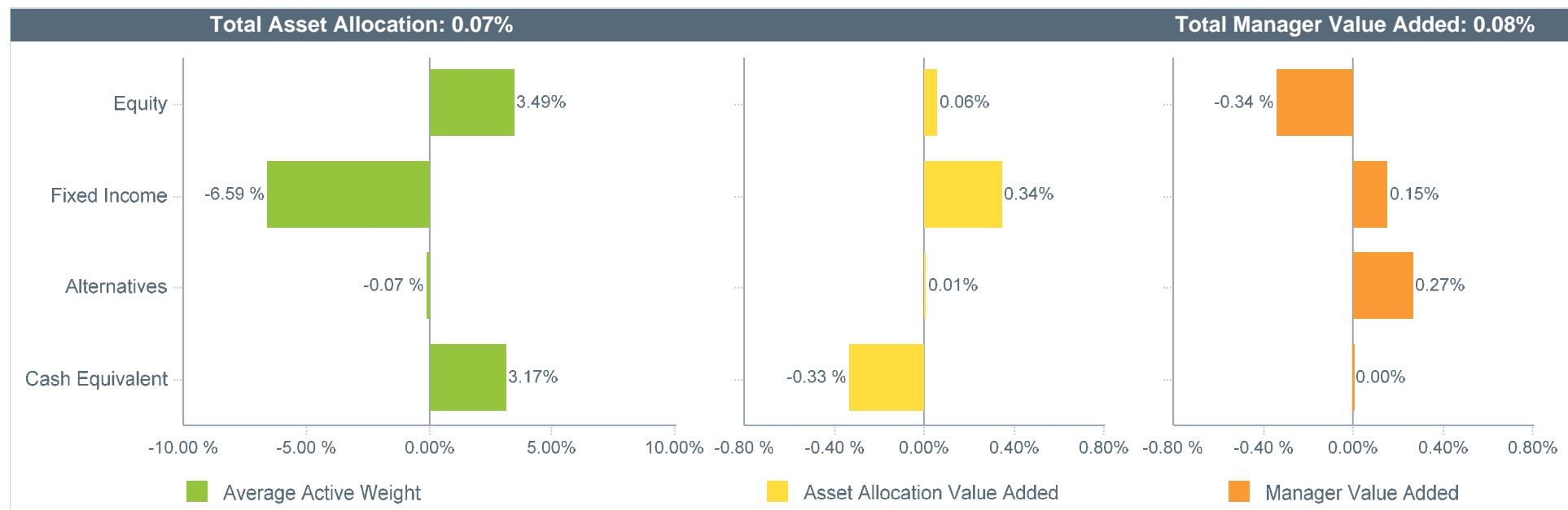
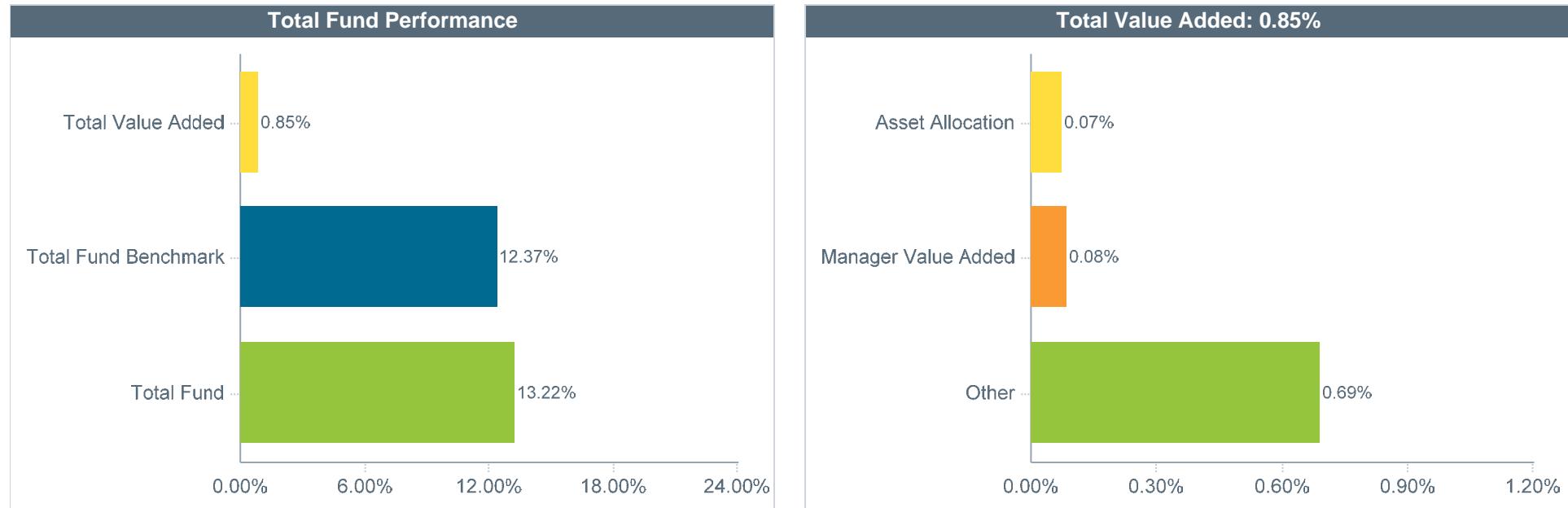
Oklahoma Wildlife Conservation Retirement System vs. All Public Plans-Total Fund
 Plan Sponsor Peer Group Analysis



Performance shown is gross of fees. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Total Fund Attribution

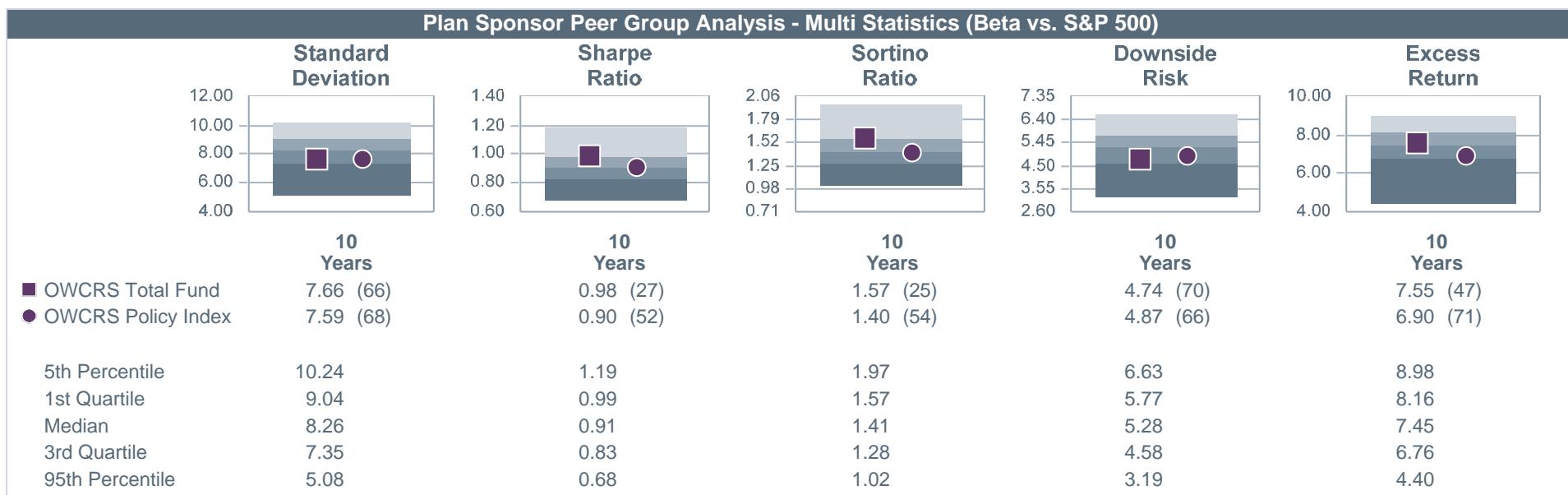
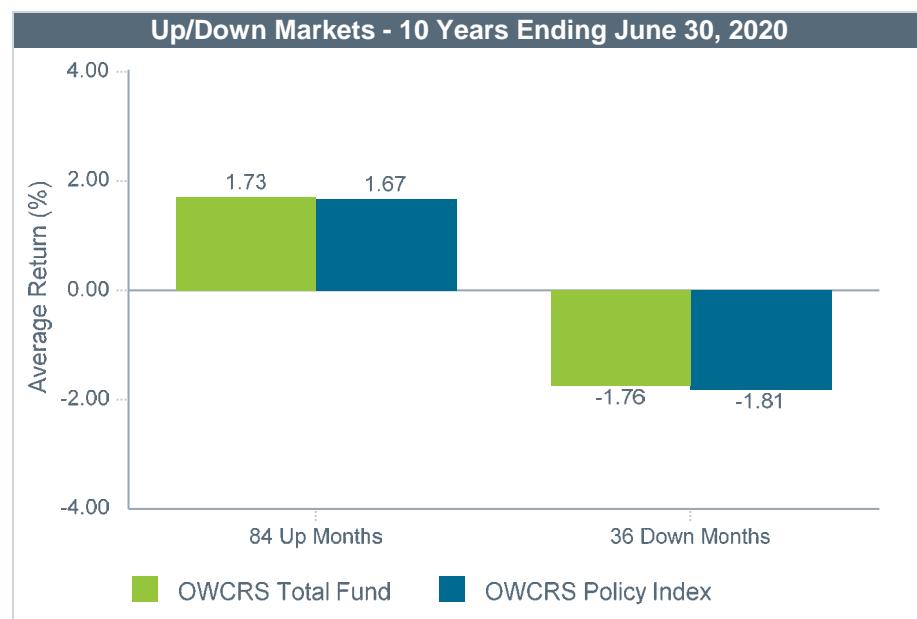
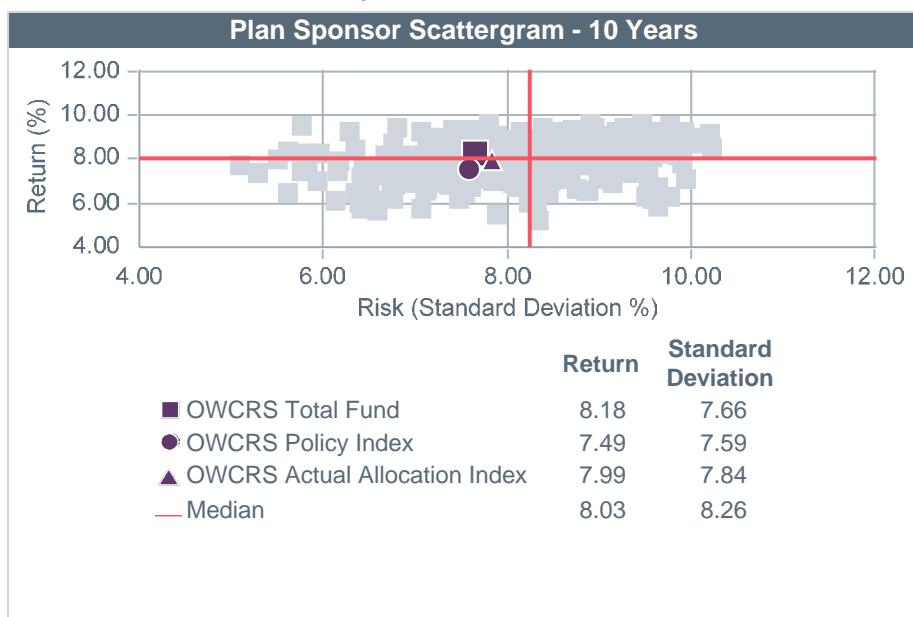
Quarter To Date Ending June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation.

Oklahoma State Pension Commission
 Oklahoma Wildlife Conservation Retirement System
 Total Fund Risk & Return, Up/Down Markets, and Multi Statistics

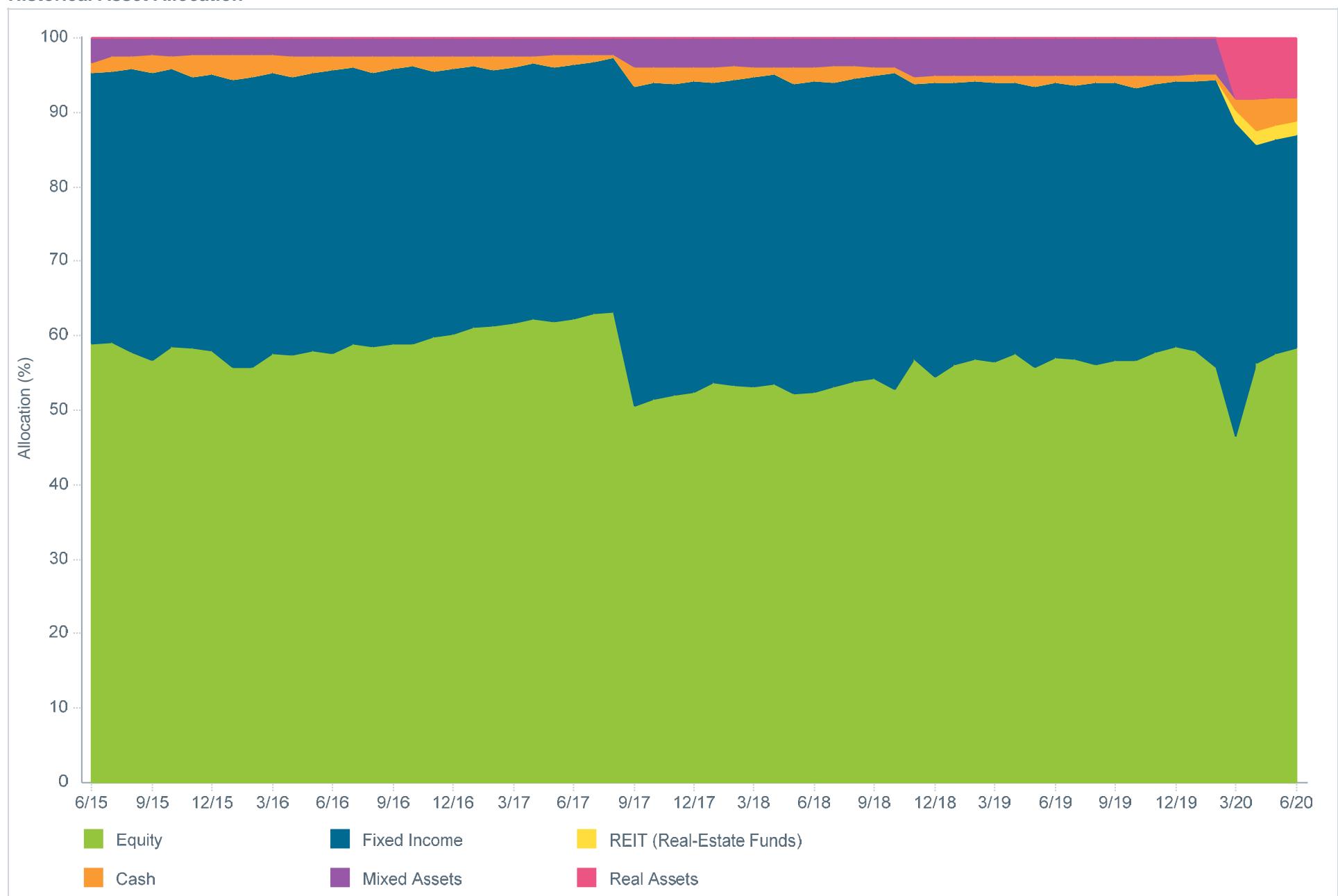
As of June 30, 2020



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Please see the Addendum for custom index definitions and additional comments.

Oklahoma State Pension Commission
Oklahoma Wildlife Conservation Retirement System
Historical Asset Allocation

5 Years Ending June 30, 2020



Addendum & Glossary

Performance Comments:

- Fiscal year begins on 07/01.
- RVK began monitoring the assets of Oklahoma State Pension Commission as of 07/01/2020. Prior historical data except mutual fund performance was provided by the prior investment consultant.
- Manager inception dates shown reflect the first full month of performance following initial funding.
- Mutual fund performance prior to 07/01/2020 or client inception is product specific.
- Manager inception dates shown represent the first full month following initial funding.
- Indices show N/A for since inception returns when the fund contains more history than the corresponding benchmark.

Custom Index Comments:

- The active **Actual Allocation Index** of each plan is calculated monthly based on beginning of period investment weights applied to the corresponding primary benchmark return.
- **OTRS Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 43.5% Russell 3000 Index, 19% MSCI ACW ex US IMI (USD) (Net), 22% Bloomberg US Universal Bond Index, 6.5% NCREIF Property Index (Monthly), and 9% Russell 2000 Index+4%. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OPERS Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 40% OPERS US Equity Custom Index, 28% MSCI ACW ex US Index (USD) (Net), and 32% OPERS Fixed Income Custom Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OPERS US Equity Custom Index** is calculated monthly and current consists of 85% Russell 1000 Index and 15% Russell 2000 Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OPERS Fixed Income Custom Index** is calculated monthly and current consists of 78% Bloomberg US Agg Bond Index, 11% FTSE Treasury Index - 20+ Yr Index, and 11% Bloomberg US Treasury US TIPS Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OPPRS Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 47% Russell 3000 Index, 15% MSCI ACW ex US Index (USD) (Net), 13% Bloomberg US Agg Bond Index, 7% Bloomberg Global Agg ex US Index (USD) (Unhedged), 10% NCREIF ODCE Index (AWA) (Net) (Monthly), and 8% Cambridge US Private Equity Index (Monthly). Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OPPRS Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 60% MSCI ACW Index (USD) (Net), 25% Bloomberg US Universal Bond Index, and 15% NCREIF ODCE Index (AWA) (Net) (Monthly). Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **Oaktree Global Credit Custom Index** is calculated monthly and current consists of 50% ICE BofAML Global High Yield Index and 50% Credit Suisse Leveraged Loan Index.
- **OLERS Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 35% S&P 500 Index (Cap Weighted), 10% Russell 2000 Index, 15% MSCI ACW ex US Index (USD) (Net), 30% Bloomberg US Agg Bond Index, and 10% NCREIF ODCE Index (AWA) (Net) (Monthly). Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OURSJJ Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 40% OURSJJ US Equity Custom Index, 28% MSCI ACW ex US Index (USD) (Net), and 32% OURSJJ Fixed Income Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OURSJJ US Equity Custom Index** is calculated monthly and current consists of 85% Russell 1000 Index and 15% Russell 2000 Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OURSJJ Fixed Income Custom Index** is calculated monthly and current consists of 78% Bloomberg US Agg Bond Index, 11% FTSE Treasury Index - 20+ Yr Index, and 11% Bloomberg US Treasury US TIPS Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OWCRS Policy Index:** OTRS's passive, policy index is calculated monthly and currently consists of 50% OWCRS Equity Custom Index, 40% Bloomberg US Agg Bond Index, and 10% HFRI FoF Composite Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OWCRS Equity Custom Index** is calculated monthly and current consists of 25% MSCI EAFE Index (USD) (Net), 25% S&P 500 Index (Cap Weighted), 25% Russell 2000 Index, and 25% S&P Mid Cap 400 Index (Gross) (Cap Weighted). Performance prior to 07/01/2020 was calculated by the prior investment consultant.
- **OWCRS Alternatives Custom Index** is calculated monthly and currently consists of 100% HFRI FoF Composite Index. Performance prior to 07/01/2020 was calculated by the prior investment consultant.

Glossary

Active Return - The difference between the investment manager/composite performance relative to the performance of an appropriate market benchmark.

Active Share - Measures the degree to which the holdings of a fund differ from the holdings of the benchmark. Active share is calculated by taking the sum of the absolute value of the differences of the weight of each holding in the fund versus the weight of each holding in the benchmark and dividing by two.

Alpha - A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. It is a measure of the portfolio's historical performance not explained by movements of the market or a portfolio's non-systematic return.

Alpha Ratio - A measure of a portfolio's non-systematic return per unit of downside risk. It is measured by dividing the alpha of a portfolio by the downside risk. The non-systematic return is a measure of a portfolio's historical performance not explained by movements of the market.

Average Quality - Bond quality ratings are reported using the investment managers' and the index providers' preferred rating agency. *Average Quality for managers unable to provide this statistic is instead provided by Morningstar; if unavailable on Morningstar, it has been estimated using a credit quality distribution provided by the manager.* There are two primary rating agencies in the US. Moody's assigns ratings on a system that employs up to four symbols (consisting of letters and numbers) such as, Aaa, Aa2, etc., with Aaa being the highest or safest rating. Standard & Poor's (S&P) employs a system that uses + and - along with letters such as AAA, AA+, etc. The two rating agencies' systems are summarized below:

S&P	Moody's	Explanation	S&P	Moody's	Explanation
Higher Credit Quality – Investment Grade			Lower Credit Quality – Below Investment Grade		
AAA	Aaa	Prime/Highest credit quality	BB+	Ba1	Speculative/Low credit quality
AA+	Aa1	High credit quality	BB	Ba2	
AA	Aa2		BB-	Ba3	
AA-	Aa3		B+	B1	Highly speculative
A+	A1	Upper-medium credit quality	B	B2	
A	A2		B-	B3	
A-	A3		CCC+	Caa1	Substantial credit/default risk
BBB+	Baa1	Lower-medium credit quality	CCC	Caa2	Extremely speculative
BBB	Baa2		CCC-	Caa3	
BBB-	Baa3		CC	Ca	Vulnerable to default
			C	Ca	
			D	C	In default

Benchmark Effect - The difference between the blended return of each respective managers' benchmark within a composite and the composite's benchmark return.

Beta - A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of a portfolio's non-diversifiable or systematic risk.

Box Plots - A graphical representation of the distribution of observations. From top to bottom, the four boxes represent the spread between the maximum value and the minimum value in each quartile. A quartile represents the values that divide the observations into four quarters (i.e., 1st quartile, 2nd quartile, 3rd quartile, and 4th quartile). The median observation is where the 2nd quartile and 3rd quartile meet.

Buy and Hold Attribution - At the beginning of the time period under analysis, the manager and benchmark portfolios are broken down into segments (i.e., styles, sectors, countries, and regions) based on the desired type of attribution. The formula assumes zero turn-over to the manager and benchmark portfolios throughout the period and calculates the segment returns ("buy and hold returns") to arrive at performance attribution. Due to portfolio turnover, buy and hold attribution may not accurately represent quarterly performance relative to the benchmark. Country, region, sector, and style allocations are as of the date one quarter prior to the reporting date, and the returns shown are for those segments throughout the quarter reported. Due to disclosure guidelines set by each investment manager, equity characteristics shown are as of the most recent date available. The following is the methodology for segment classification:

Sector - Attribution is calculated using the Global Industry Classification Standard (GICS) which is a detailed and comprehensive structure for sector and industry analysis. Stocks are classified by their primary sector, as defined by S&P Capital IQ data.

Country/Region - Attribution is calculated using the Morgan Stanley Capital International (MSCI) region standards. Stocks are classified by their domicile country/region, as defined by S&P Capital IQ data, and thus may differ from the classification of the investment manager and/or index provider.

Style - Stocks are classified into the following style boxes: large/mid/small vs. growth/neutral/value. Stocks are classified along large/mid/small categories at the time of the Russell index rebalancing, using the index market cap boundaries as cutoff points. Stocks are classified along growth/neutral/value categories at the time of the Russell index rebalancing, using the price/book ratio as supplied by S&P Capital IQ. Stocks in the Russell 3000 Index portfolio are sorted by price/book ratio; names with the highest price/book ratio that make up 1/3 of the total market capitalization are assigned to the growth category, names that make up the subsequent 1/3 of the total market capitalization are assigned to the neutral category, while the balance of the names are assigned to the value category. Stocks are unclassified when there is not enough data to determine a size and style metric.

Portfolio Characteristics and Buy and Hold Attribution reports utilize product-specific data for all mutual funds and commingled funds.

Capital Markets Review

Break-even Inflation - Measures the expected inflation rate at each stated maturity by taking the difference between the real yield of the inflation-linked maturity curve and the yield of the closest nominal Treasury maturity.

Consumer Confidence - Measures domestic consumer confidence as defined by the degree of optimism on the state of the economy that consumers express through saving and spending.

Consumer Price Index (CPI) - Measures the change in the price level of consumer goods and services.

Federal Funds Rate - The interest rate at which a depository institution lends funds maintained at the Federal Reserve to another depository institution overnight. It is one of the most influential interest rates in the US economy, since it affects monetary and financial conditions, which in turn have a bearing on key aspects of the broad economy including employment, growth and inflation.

Glossary

- Option-Adjusted Spread** - Measures the flat spread of an index or bond to the Treasury yield curve after removing the effect of any embedded options.
- Purchasing Managers Index (PMI)** - Measures economic activity by surveying purchasing managers on a monthly basis as to whether business conditions have improved, worsened, or stayed the same.
- Real Gross Domestic Product (Real GDP)** - An inflation-adjusted measure that reflects the value of all goods and services produced by an economy in a given year.
- US Dollar Total Weighted Index** - Measures the value of the US Dollar relative to a basket of other world currencies. It is calculated as the weighted geometric mean of the dollar's value versus the EUR, GBP, CAD, SEK, CHF, and JPY.
- Unemployment Rate** - The percentage of the total labor force that is unemployed but actively seeking employment.
- VIX** - Measures the implied volatility of S&P 500 Index options by looking at the market's expectation of the S&P 500 Index volatility over the next 30 day period. Commonly referred to as the "fear index" or the "fear gauge."
- Cash Flow Effect** – The composite's active return minus the sum of each managers' active return minus the benchmark effect.
- Consistency** - The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product's performance.
- Convexity** - A measure of the shape of the curve that describes the relationship between bond prices and bond yields.
- Correlation** - A statistical measure of the relationship between asset class returns. A value of 1.00 is a perfect correlation; that is, the asset classes always move in the same direction. A value of -1.00 indicates a perfect negative correlation, in which the asset classes always move in opposite directions of each other. A value of 0 indicates there is no relationship between the direction of returns of the two asset classes. Correlation calculations only consider the direction of changes relative to two variables and not the magnitude of those changes.
- Coupon Rate** - The percentage rate of interest paid on a bond or fixed income security; it is typically paid twice per year.
- Current Yield** - The annual income of a security divided by the security's current price.
- Down Market Capture** - Down market by definition is negative benchmark return and down market capture represents the ratio in % terms of the average portfolios return over the benchmark during the down market period. The lower the value of the down market capture the better the product's performance.
- Downside Risk** - A measure similar to standard deviation, but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative returns for the selected periodicity. The higher the factor, the riskier the product.
- Earnings Per Share** - It is backward looking, calculated using the one year current EPS divided by the one year EPS five years ago.
- Effective Duration** - The approximate percentage change in a bond's price for a 100 basis point change in yield.
- Excess Return vs. Market** - Average of the monthly arithmetic difference between the manager's return and the benchmark return over a specified time period, shown on an annualized basis.
- Excess Return vs. Risk Free** - Average of the monthly arithmetic difference between the manager's return and the risk-free return (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise) over a specified time period, shown on an annualized basis.
- Excess Risk** - A measure of the standard deviation of a portfolio's performance relative to the risk free return.
- Expense Ratios** - Morningstar is the source for mutual fund expense ratios.
- Gain/Loss** - The net increase or decrease in the market value of a portfolio excluding its Net Cash Flow for a given period.
- Indices** - All indices and related information are considered intellectual property and are licensed by each index provider. The indices may not be copied, used or distributed without the index provider's prior written approval. Index providers make no warranties and bear no liability with respect to the indices, any related data, their quality, accuracy, suitability and/or completeness.
- Information Ratio** - Measured by dividing the active rate of return by the tracking error. The higher the information ratio, the more value-added contribution by the manager.
- Liability Driven Investing (LDI)** - A method to optimally structure asset investments relative to liabilities. The change in liabilities is estimated by the Ryan Labs Generic PPA Index of appropriate duration for that Plan. This benchmark is based on generic data and is therefore an approximation. RVK is not an actuarial firm, and does not have actuarial expertise.
- Estimated Funded Status** - The estimated ratio of a Plan's assets relative to its future liabilities. This is calculated by dividing the Plan's asset market value by the estimated present value of its liabilities. The higher the estimated funded status, the better the Plan's ability to cover its projected benefit obligations. An estimated funded status of 100% indicates a Plan that is fully funded.
- Estimated PV of Liabilities** - An estimate of a Plan's future liabilities in present value terms. The beginning of the period liability is provided by the Plan's actuary. The period-end present value liability estimate provided in this report is derived by applying the estimated percentage change generated using the Ryan Labs Generic PPA Index with duration similar to that reported on the most recent actuarial valuation report.
- Duration of Liabilities** - The sensitivity of the value of a Plan's liabilities to changes in interest rates, as calculated by the Plan's actuary.
- Duration of Assets** - The dollar-weighted average duration of all the individual Plan assets.
- Estimated Plan Hedge Ratio** - The estimate of how well a Plan's investment portfolio is hedged against changes in interest rates - a primary driver of funded status movements. This is calculated by dividing the dollar-weighted values of both the Plan asset duration by the liability duration and multiplying by the estimated funded status. An estimated plan hedge ratio of zero indicates that the Plan's liabilities have not been hedged, whereas a value of one indicates fully hedged.

Glossary

Modified Duration - The approximate percentage change in a bond's price for a 100 basis point change in yield, assuming the bonds' expected cash flows do not change.

Mutual Fund Performance - Whenever possible, manager performance is extended for any share class that does not have 10 years of history. Using Morningstar's methodology, a single ticker within the same fund family (often the oldest share class) is chosen to append historical performance.

Net Cash Flow - The sum, in dollars, of a portfolio's contributions and withdrawals. This includes all management fees and expenses only when performance shown is gross of fees.

Peer Groups -

Plan Sponsor Peer Groups - RVK utilizes the Mellon Analytical Solutions Trust Universe along with the Investment Metrics Plan Sponsor Universe. The combined Mellon Analytical Solutions Trust Universe and Investment Metrics Plan Sponsor Universe is used for comparison of total fund composite results and utilizes actual client performance compiled from consultant and custodian data. The Plan Sponsor Peer Group database includes performance and other quantitative data for over 2,100 plans which include corporate, endowment, foundation, public, and Taft Hartley plans. Plan Sponsor Peer Groups are gross of fees.

Investment Manager Peer Groups - RVK utilizes Investment Metrics' Peer Groups for investment manager peer comparison and ranking. The Investment Metrics Peer Group database includes performance and other quantitative data for over 840 investment management firms and 29,000 investments products, across more than 160 standard peer groups. Mutual Fund Peer Groups are net of fees.

Percentile Rankings - Percentile rank compares an individual fund's performance with those of other funds within a defined peer group of managers possessing a similar investment style. Percentile rank identifies the percentage of a fund's peer group that has a higher return (or other comparative measurement) than the fund being ranked. Conversely, 100 minus the individual fund's ranking will identify the percentage of funds within the peer group that have a lower return than the fund being ranked.

1 - Highest Statistical Value 100 - Lowest Statistical Value

Example: American Funds AMCP;R-4 (RAFEX) is ranked in the 4th percentile within the IM US Equity Large-Cap Growth Funds (MF) Peer Group for the Sharpe Ratio. Within the IM US Equity Large-Cap Growth Funds peer group, 4% of the other funds performed better than American Funds AMCP;R-4 (RAFEX), while 96% of the funds performed worse.

Performance Methodology -

Investment Managers - Performance is calculated for interim periods between all large external cash flows for a given month and geometrically linked to calculate period returns. An external cash flow is defined as cash, securities, or assets that enter or exit a portfolio. RVK defines a "large cash flow" as a net aggregate cash flow of $\geq 10\%$ of the beginning-period portfolio market value or any cash flow that causes RVK calculated performance to deviate from manager/custodian reported performance in excess of 5 basis points for a given month.

Composites - The Modified Dietz methodology is utilized to calculate asset class, sub-asset class, and total fund composite performance. The Modified Dietz method calculates a time-weighted total rate of return that considers the timing of external cash flows; however, it does not utilize interim period performance to mitigate the impact of significant cash in- and outflows to the composite.

RVK calculates performance beginning with the first full month following inception. Since inception performance may vary from manager reported performance due to RVK using the first full month of returns as the inception date. Performance for both managers and composites is annualized for periods greater than one year.

Portfolio Characteristics - Due to disclosure guidelines set by each investment manager, portfolio characteristics shown are as of the most recent date available.

Price to Earnings Ratio - The ratio of a company's share price to its per-share earnings

Private Equity Quartile Ranks - Private Equity quartile ranks are generated using vintage year peer group data provided by Thomson Reuters, and are based on each fund's annualized, since inception internal rate of return (IRR). Three Private Equity peer groups are available via Thomson Reuters: Buyout, Venture, and All Private Equity. Ranks are available quarterly, at a one-quarter lag.

R-Squared - The percentage of a portfolio's performance explained by the behavior of the appropriate benchmark. High R-Squared means a higher correlation of the portfolio's performance to the appropriate benchmark.

Return - Compounded rate of return for the period.

% Return - The time-weighted rate of return of a portfolio for a given period.

Risk Free Benchmark – ICE BofAML 3 Mo US T-Bill Index unless specified otherwise.

Glossary

RVK Liquidity Rating - A qualitative method for determining the relative amount of liquidity in a portfolio. The characteristics considered when determining relative liquidity include trading volume, gates for redemption, leverage, nature of transactions, and pricing mechanisms. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating.

Asset Class	RVK Liquidity Rating	Asset Class	RVK Liquidity Rating
Liquid Investments		Less Liquid Investments	
T-Bills and Treasurys	100	Fixed Income Plus Sector	50
Cash Equivalents	98	Bank Loans	50
TIPS	95	Stable Value (Plan Sponsor Directed)	50
US Large Cap Equity	95	Absolute Return Strategies	35
Diversified Real Return	93		
Stable Value (Participant Directed)	91		
Non-US Large Cap Equity	90		
Global Tactical Asset Allocation	88		
US Small Cap Equity	85		
REITS	85		
Non-US Small Cap Equity	85		
Emerging Markets Equity	85		
Core Fixed Income	85		
Core Plus Fixed Income	80		

Sector Allocation - Negative fixed income sector allocation reflects manager's use of derivatives, short selling, or interest rate swaps.

Sharpe Ratio - Represents the excess rate of return over the risk-free return (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise), divided by the standard deviation of the excess return to the risk free asset. The result is the absolute rate of return per unit of risk. The higher the value, the better the product's historical risk-adjusted performance.

Simple Alpha - The difference between the manager's return and the benchmark's return.

Spread Duration - The approximate percentage change in a bond's price for a 100 basis point change in its spread over a Treasury of the same maturity.

Standard Deviation - A statistical measure of the range of a portfolio's performance. The variability of a return around its average return over a specified time period.

Thematic Classification - Represents dedicated manager allocations; as such, thematic allocations are approximations. RVK categorizes the following asset classes as Alpha, Capital Appreciation, Capital Preservation, and Inflation:

Alpha	Capital Appreciation	Capital Preservation	Inflation
Absolute Return Strategies	Public Equity	Core Fixed Income	TIPS
Currency Overlay	Private Equity	CMBS Fixed Income	Bank Loans
	Preferred Securities	Asset Backed Fixed Income	Core Real Estate
	High Yield	Domestic Core Plus Fixed Income	Real Return
	Convertible Fixed Income	Mortgage Backed Fixed Income	Inflation Hedges
	TALF Funds	International Developed Fixed Income	REITS
	Distressed Debt	Cash Equivalents	Commodities
	Emerging Market Fixed Income	Stable Value	
	Value Added Real Estate		
	Opportunistic Real Estate		

Time Period Abbreviations - QTD - Quarter-to-Date. CYTD - Calendar Year-to-Date. FYTD - Fiscal Year-to-Date. YOY - Year Over Year.

Total Fund Attribution – The Investment Decision Process (IDP) model provides an approach to evaluating investment performance that applies to all asset classes and investment styles. The IDP model is based on a top-down hierarchy framework of investment decisions, with each decision contributing to the overall profit or loss. The IDP approach starts from the strategic asset allocation and follows the flow of the investments down to the manager's skill.

Strategic Asset Allocation (SAA) – The percentage return gained or lost from the long-term strategic asset allocation decision, the most significant determinant of long-term performance. SAA is the product of the target asset allocation multiplied by the corresponding benchmark returns.

Tactical Asset Allocation (TAA) – The percentage return gained or lost from not having been precisely allocated at the target asset allocation mix, whether by deviations that are tactical in nature or a by-product of moving towards the target mix. TAA is the product of the actual asset allocation multiplied by the broad asset class benchmarks, less SAA.

Style Selection (SS) – The percentage return gained or lost from intentional style biases within each asset class (e.g. value rather than core or overweight to emerging markets relative to benchmark). SS is the product of the actual manager allocation within each asset class multiplied by their specific benchmark, less TAA.

Manager's Skill (MS) – The percentage return gained or lost from manager value added relative to their specific benchmark. MS is the product of the actual manager allocation multiplied by their achieved excess return.

Total Fund Beta - Total Fund Beta is calculated using the S&P 500 as the benchmark. It represents a measure of the sensitivity of the total fund to movements in the S&P 500 and is a measure of the Total Fund's non-diversifiable or systematic risk.

Tracking Error - A measure of the standard deviation of a portfolio's performance relative to the performance of an appropriate market benchmark.

Glossary

Treynor Ratio - Similar to Sharpe ratio, but focuses on beta rather than excess risk (standard deviation). Treynor ratio represents the excess rate of return over the risk-free rate (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise) divided by the beta. The result is the absolute rate of return per unit of risk. The higher the value, the better historical risk-adjusted performance.

Unit Value - The dollar value of a portfolio, assuming an initial nominal investment of \$100, growing at the compounded rate of %Return for a given period.

Up Market Capture - Up market by definition is positive benchmark return and up market capture represents the ratio in % terms of the average portfolios return over the benchmark during the up market period. The higher the value of the up market capture the better the product's performance.

Yield to Maturity - The rate of return achieved on a bond or other fixed income security assuming the security is bought and held to maturity and that the coupon interest paid over the life of the bond will be reinvested at the same rate of return. The 30-Day SEC Yield is similar to the Yield to Maturity and is reported for mutual funds.

Yield to Worst - The bond yield calculated by using the worst possible yield taking into consideration all call, put, and optional sink dates.

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