#### AON

# Quarterly Investment Review

Teachers' Retirement System of Oklahoma IC Materials

Third Quarter 2024

Investment advice and consulting services provided by Aon Investments USA Inc.

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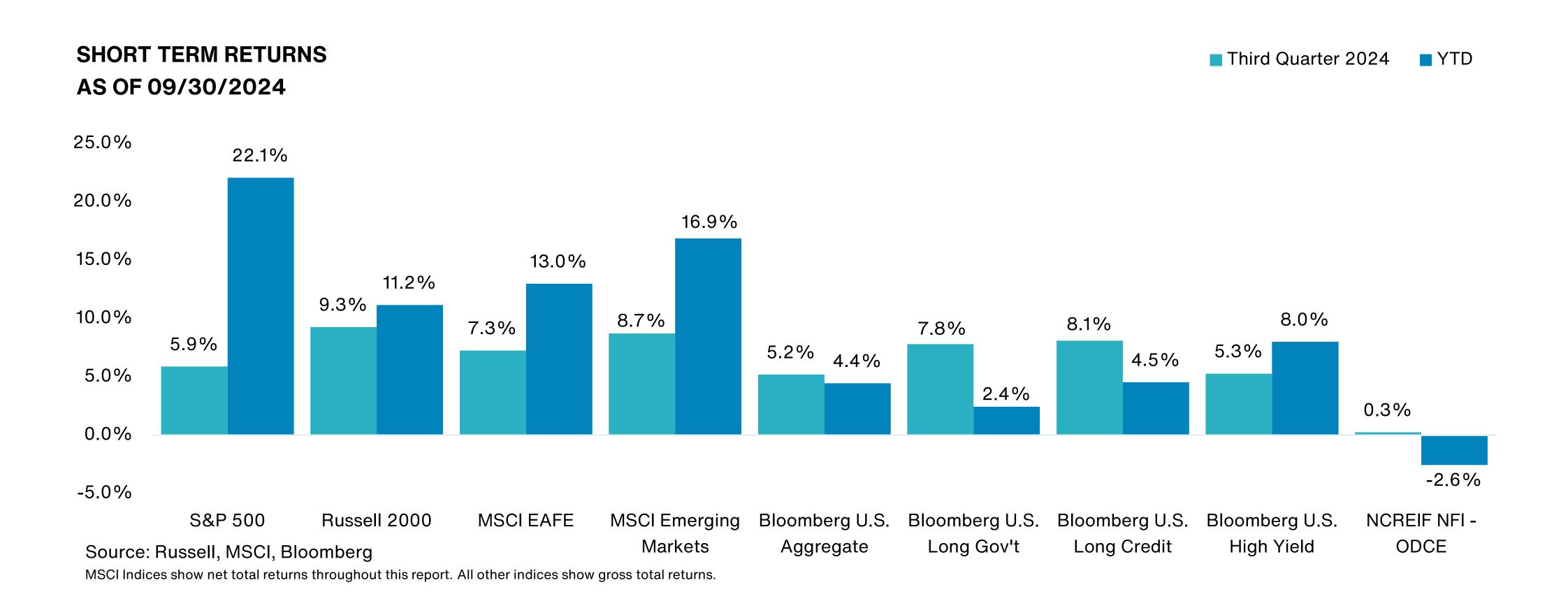


### **Executive Summary**





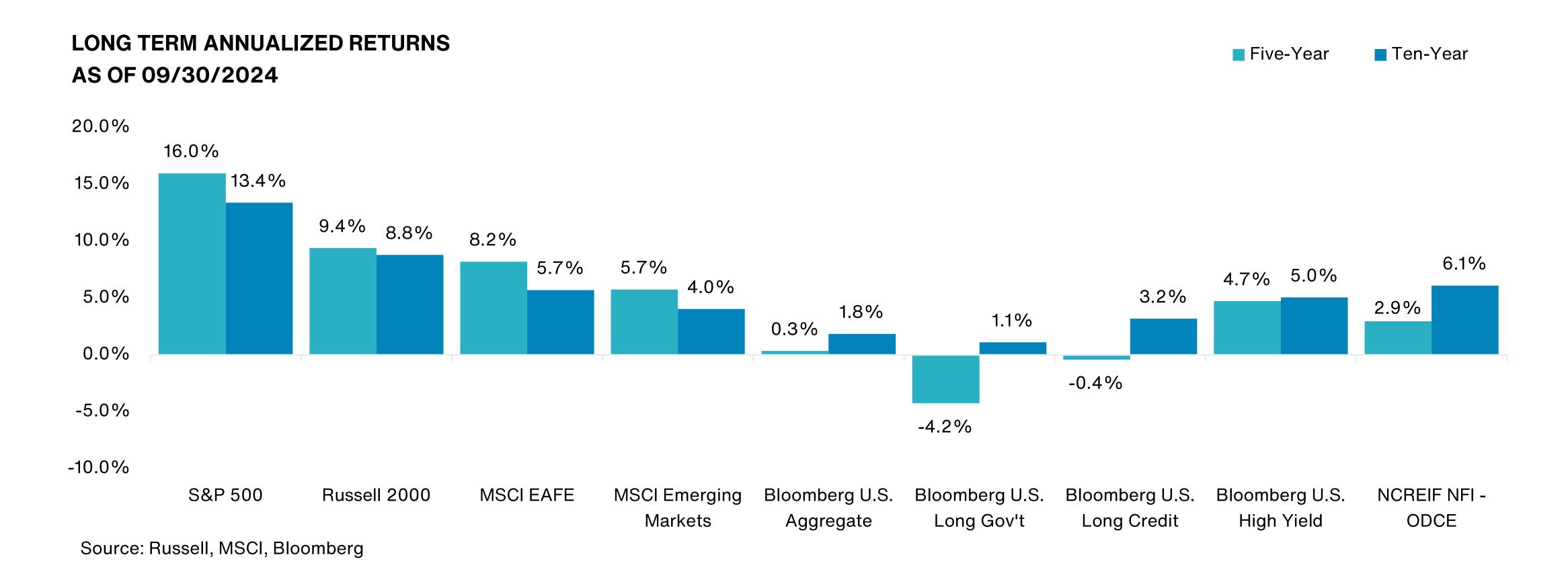
### **Market Highlights**



Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.



### **Market Highlights**



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### **Market Highlights**

	Returns	s of the Major	<b>Capital Markets</b>			
					Period End	ding 09/30/2024
	<b>Third Quarter</b>	YTD	1-Year	3-Year <sup>1</sup>	5-Year <sup>1</sup>	10-Year <sup>1</sup>
Equity						
MSCI All Country World IMI	6.84%	17.83%	30.96%	7.44%	11.87%	9.20%
MSCI All Country World	6.61%	18.66%	31.76%	8.09%	12.19%	9.39%
Dow Jones U.S. Total Stock Market	6.16%	20.61%	35.24%	10.12%	15.15%	12.75%
Russell 3000	6.23%	20.63%	35.19%	10.29%	15.26%	12.83%
S&P 500	5.89%	22.08%	36.35%	11.91%	15.98%	13.38%
Russell 2000	9.27%	11.17%	26.76%	1.84%	9.39%	8.78%
MSCI All Country World ex-U.S. IMI	8.18%	13.90%	25.06%	3.74%	7.66%	5.33%
MSCI All Country World ex-U.S.	8.06%	14.21%	25.35%	4.14%	7.59%	5.22%
MSCI EAFE	7.26%	12.99%	24.77%	5.48%	8.20%	5.71%
MSCI EAFE (Local Currency)	0.82%	11.97%	17.53%	7.92%	8.78%	7.39%
MSCI Emerging Markets	8.72%	16.86%	26.05%	0.40%	5.75%	4.02%
<b>Equity Factors</b>						
MSCI World Minimum Volatility (USD)	10.30%	15.87%	23.80%	6.74%	6.82%	8.85%
MSCI World High Dividend Yield	10.43%	15.41%	23.70%	9.38%	9.09%	7.76%
MSCI World Quality	3.86%	22.72%	38.12%	12.03%	17.07%	13.84%
MSCI World Momentum	3.06%	30.18%	46.02%	8.53%	13.74%	12.85%
MSCI World Enhanced Value	6.31%	10.87%	20.07%	8.05%	9.11%	6.60%
MSCI World Index Growth	3.51%	21.48%	37.76%	8.59%	16.18%	13.02%
MSCI USA Minimum Volatility (USD)	9.34%	18.68%	27.92%	9.32%	9.31%	11.47%
MSCI USA High Dividend Yield	9.66%	16.53%	26.22%	9.64%	9.35%	10.02%
MSCI USA Quality	4.88%	24.80%	39.81%	13.48%	18.13%	15.63%
MSCI USA Momentum	3.83%	30.53%	47.18%	7.00%	12.84%	13.74%
MSCI USA Enhanced Value	6.32%	10.09%	23.63%	5.88%	9.01%	8.32%
MSCI USA Equal Weighted	8.93%	14.74%	29.31%	6.36%	11.83%	10.54%
MSCI USA Growth	2.61%	25.38%	42.53%	11.25%	20.16%	16.55%

	Returns o	f the Major Capi	tal Markets			
					Period Ending C	9/30/2024
	Third Quarter	YTD	1-Year	3-Year <sup>1</sup>	5-Year <sup>1</sup>	10-Year <sup>1</sup>
Fixed Income						
Bloomberg Global Aggregate	6.98%	3.60%	11.99%	-3.06%	-0.83%	0.57%
Bloomberg U.S. Aggregate	5.20%	4.45%	11.57%	-1.39%	0.33%	1.84%
Bloomberg U.S. Long Gov't	7.81%	2.44%	15.43%	-8.32%	-4.25%	1.09%
Bloomberg U.S. Long Credit	8.10%	4.54%	18.86%	-4.25%	-0.41%	3.18%
Bloomberg U.S. Long Gov't/Credit	7.96%	3.54%	17.24%	-6.17%	-1.97%	2.32%
Bloomberg U.S. TIPS	4.12%	4.85%	9.79%	-0.57%	2.62%	2.54%
Bloomberg U.S. High Yield	5.28%	8.00%	15.74%	3.10%	4.72%	5.04%
Bloomberg Global Treasury ex U.S.	9.40%	2.01%	11.48%	-5.53%	-2.96%	-0.83%
JP Morgan EMBI Global (Emerging Market	6.07%	8.02%	18.02%	-0.10%	1.19%	3.13%
Commodities						
Bloomberg Commodity Index	0.68%	5.86%	0.96%	3.66%	7.79%	0.03%
Goldman Sachs Commodity Index	-5.26%	5.23%	-6.06%	8.81%	8.03%	-2.35%
Hedge Funds						
HFRI Fund-Weighted Composite <sup>2</sup>	2.78%	8.06%	12.57%	4.00%	7.40%	5.11%
HFRI Fund of Funds <sup>2</sup>	1.08%	5.98%	9.32%	2.25%	5.26%	3.58%
Real Estate						
NAREIT U.S. Equity REITS	16.09%	15.93%	34.74%	5.07%	5.46%	7.83%
NCREIF NFI - ODCE	0.25%	-2.57%	-7.26%	-0.18%	2.94%	6.10%
FTSE Global Core Infrastructure Index	14.29%	16.20%	29.47%	6.96%	6.20%	7.25%
Private Equity						
Burgiss Private iQ Global Private Equity <sup>3</sup>			6.43%	11.01%	15.07%	13.40%

MSCI Indices show net total returns throughout this report. All other indices show gross total returns.

Source: Russell, MSCI, Bloomberg

Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.



<sup>&</sup>lt;sup>1</sup> Periods are annualized

<sup>&</sup>lt;sup>2</sup> Latest 5 months of HFR data are estimated by HFR and may change in the future.

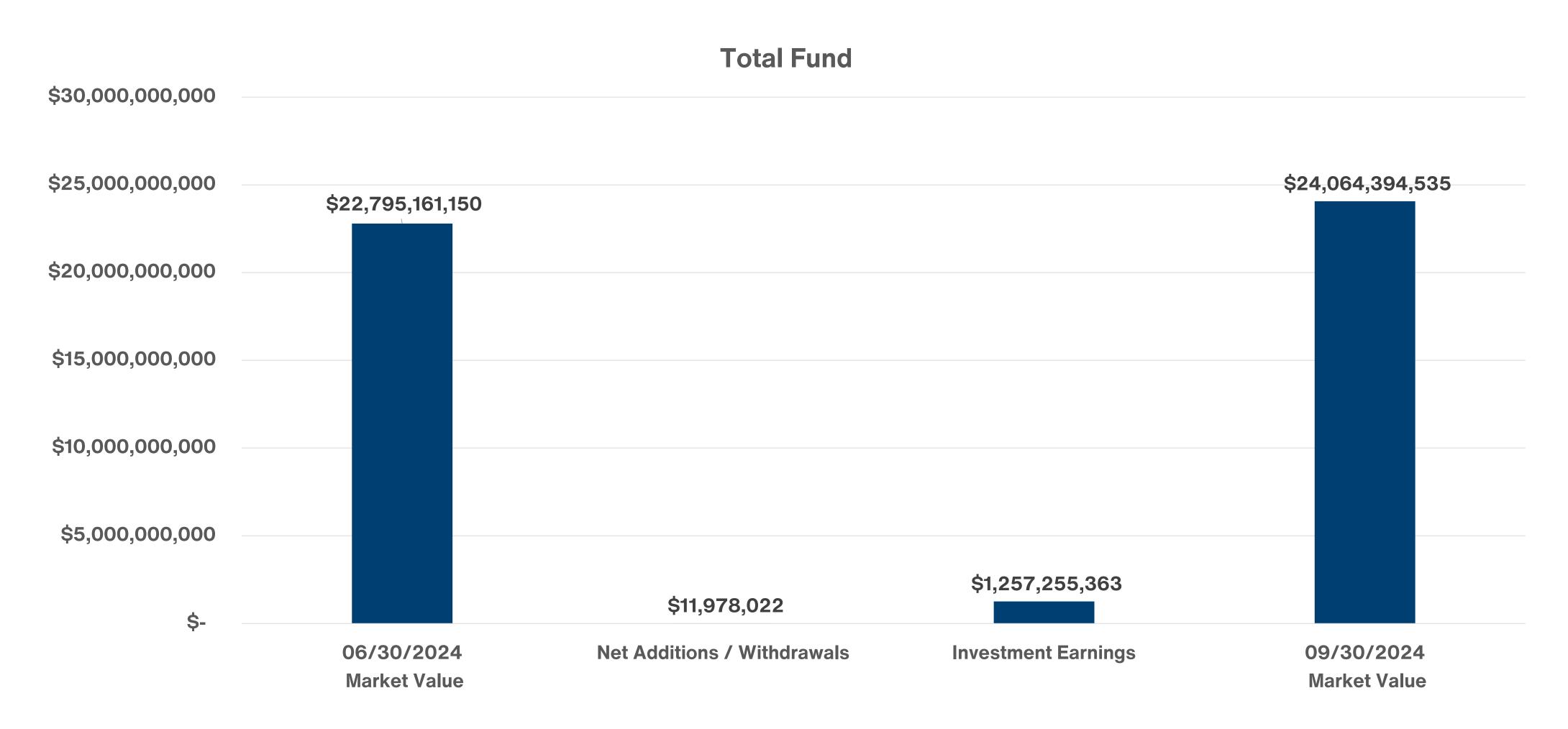
<sup>&</sup>lt;sup>3</sup> Burgiss Private iQ Global Private Equity data is as at December 31, 2023

### **Total Fund**





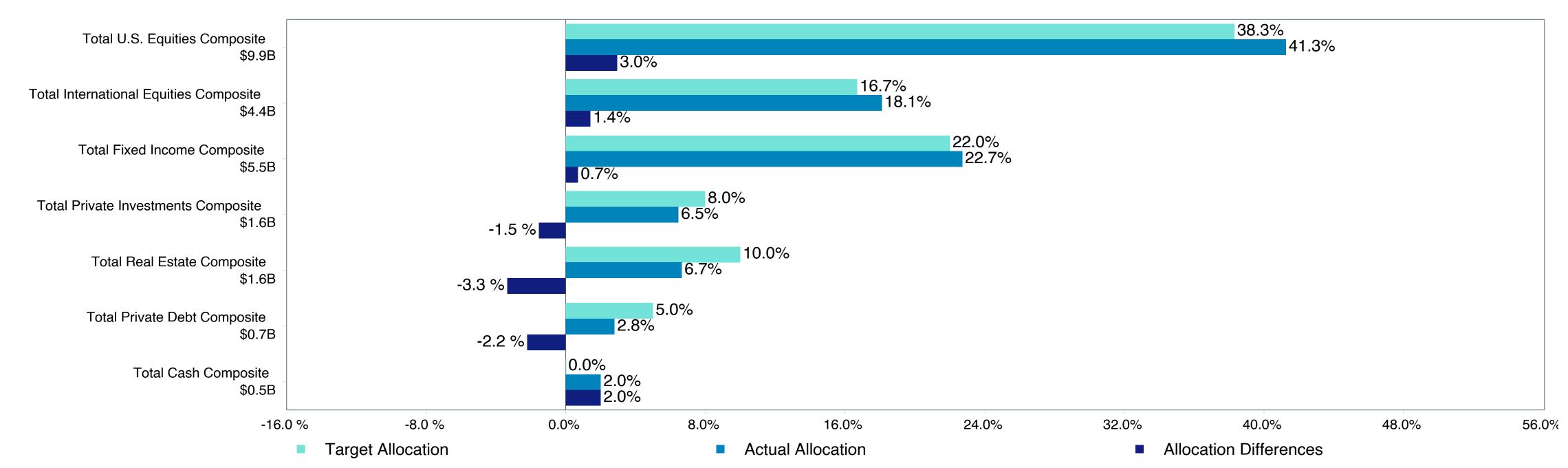
### **Total Plan Asset Summary**





### **Asset Allocation Compliance**

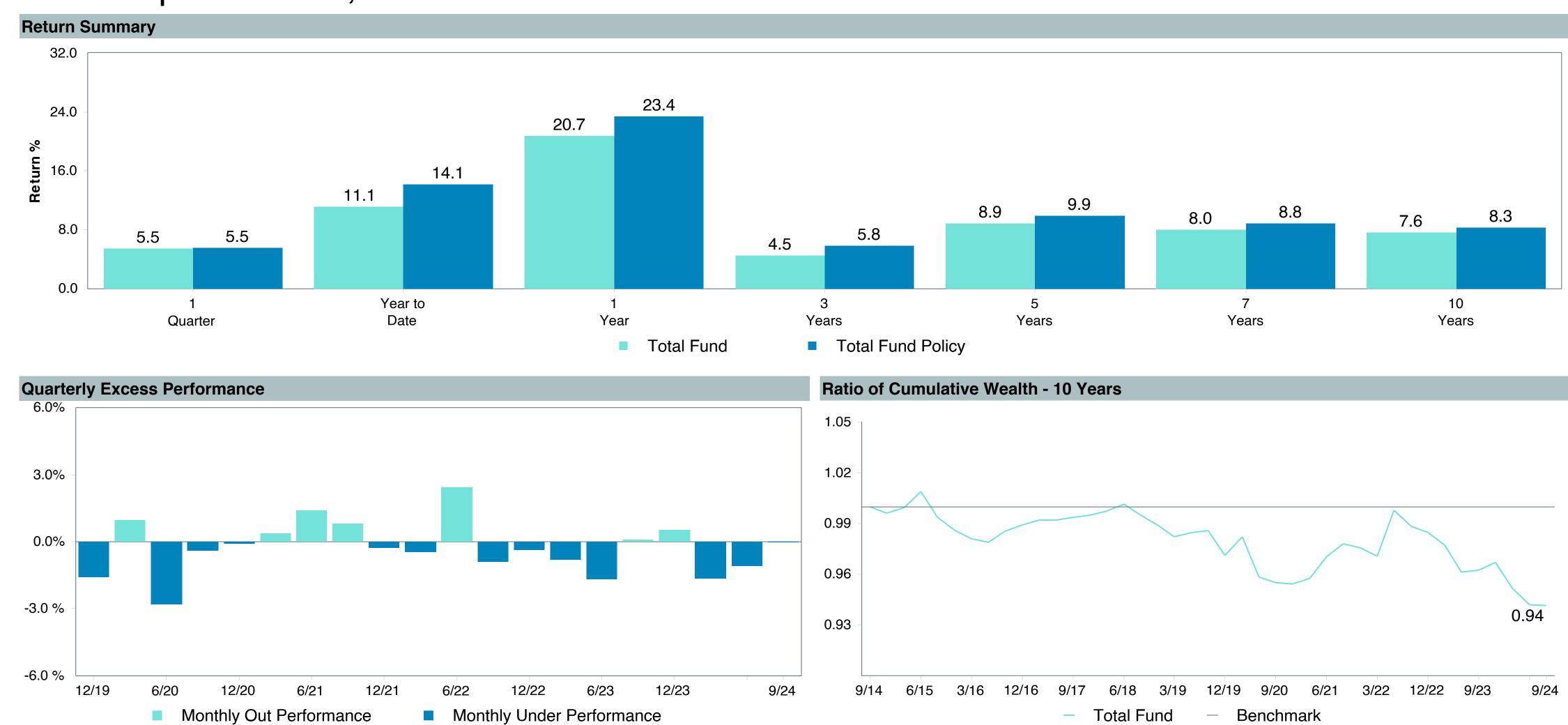
	Market Value \$M	Current Allocation %	Target Allocation (%)	Minimum Allocation %	Maximum Allocation %
Total Fund	24,064	100.0	100.0	-	-
Total U.S. Equities Composite	9,928	41.3	38.3	33.3	43.3
Total International Equities Composite	4,360	18.1	16.7	11.7	21.7
Total Fixed Income Composite	5,463	22.7	22.0	17.0	27.0
Total Private Investments Composite	1,552	6.5	8.0	0.0	100.0
Total Real Estate Composite	1,604	6.7	10.0	0.0	100.0
Total Private Debt Composite	672	2.8	5.0	0.0	100.0
Total Cash Composite	486	2.0	0.0	0.0	100.0





<sup>\*</sup> Based on the limitation of the reporting system, minimum and maximums are listed as 0% to 100% instead of "N/A" for private equity, real estate, private debt, and cash.

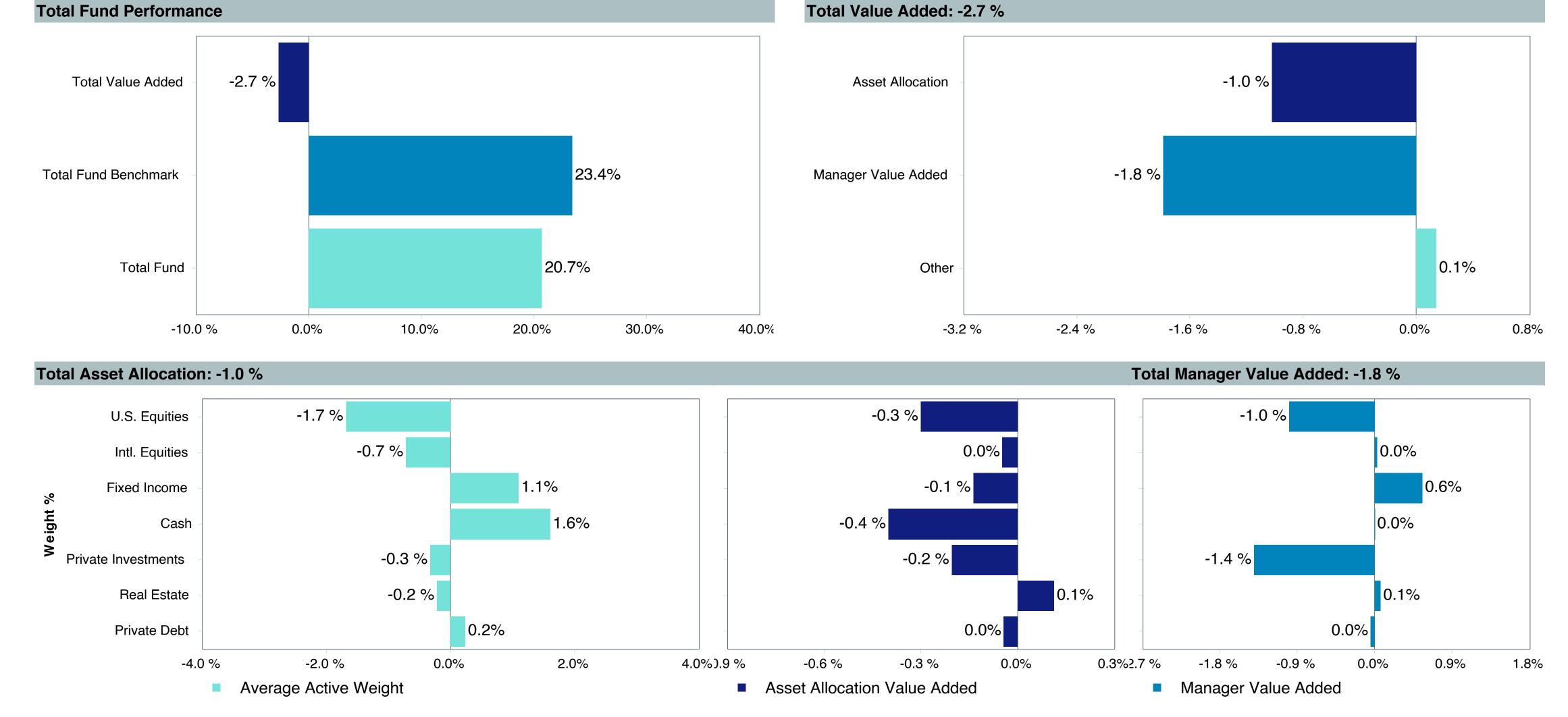
### **Total Plan Performance Summary**





### **Total Fund Attribution - Policy Benchmark**

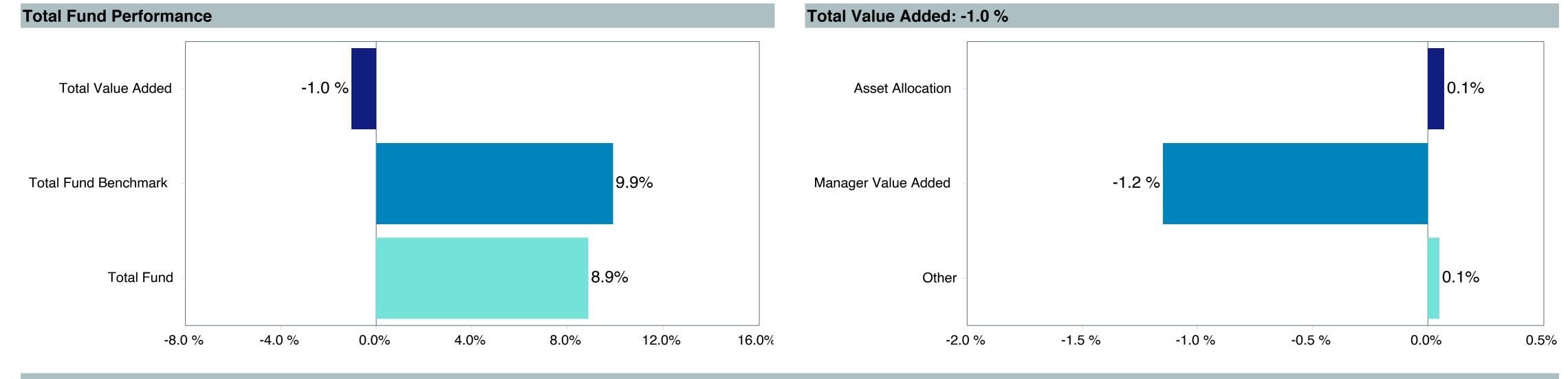
1 Year Ending September 30, 2024

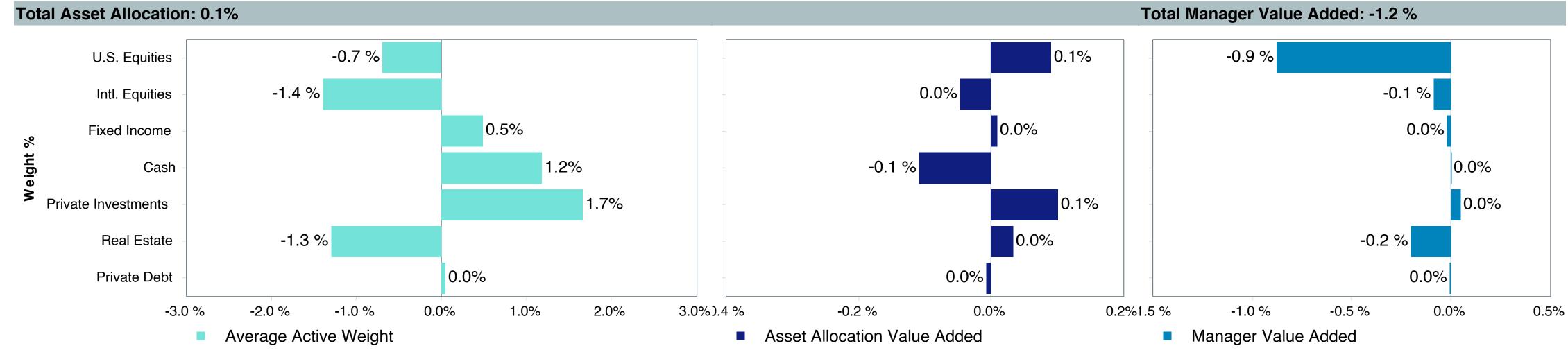




### **Total Fund Attribution - Policy Benchmark**

5 Years Ending September 30, 2024





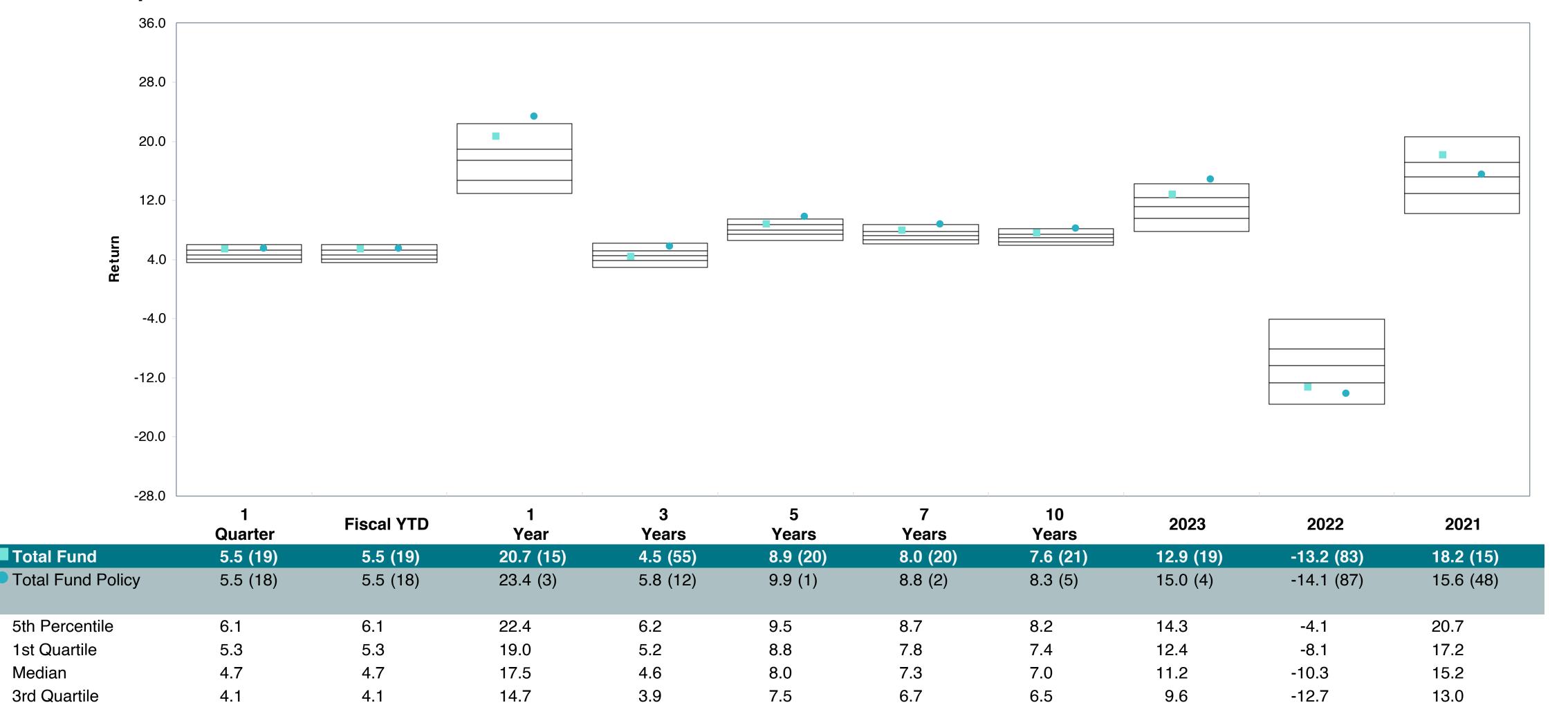


## Plan Sponsor Peer Group Analysis: All Public Plans > \$1B

13.0

2.9

As of September 30, 2024



6.6

6.1

6.0

7.8

-15.6

10.3



Median

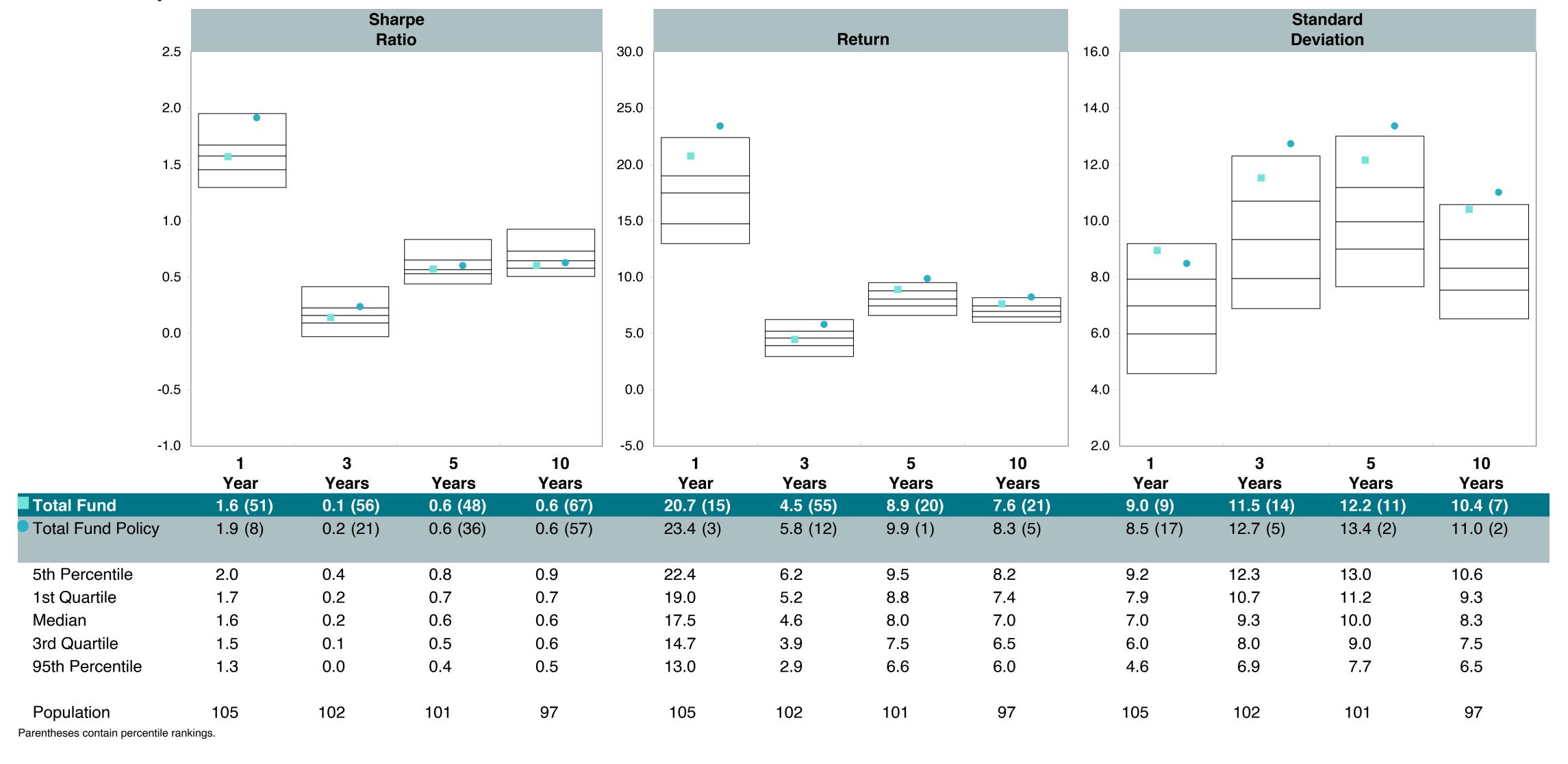
95th Percentile

Parentheses contain percentile rankings.

3.7

3.7

### Historical Statistics (vs. All Public Plans > \$1 B)





	Allocat	ion				Perform	nance %			
	Market	<u></u> %	1	Year to	Fiscal YTD	1	3	5	7	10
	Value \$		Quarter	Date		Year	Years	Years	Years	Years
Total Fund	24,064.4	100.0	5.5 (19)	11.1 (23)	5.5 (19)	20.7 (15)	4.5 (55)	8.9 (20)	8.0 (20)	7.6 (21)
Total Fund Policy			5.5 (18)	14.1 (1)	<i>5.5 (18)</i>	23.4 (3)	<i>5.8 (12)</i>	9.9 (1)	8.8 (2)	8.3 (5)
Difference			0.0	-3.0	0.0	-2.7	-1.3	-1.0	-0.8	-0.7
Total Fund Policy Attribution Benchmark			5.5 (19)	13.8 (1)	<i>5.5 (19)</i>	22.4 (5)	-	-	-	-
Difference			0.0	-2.7	0.0	-1.7	-	-	-	-
<b>Total Equities Composite</b>	14,287.8	59.4	7.0	17.1	7.0	30.4	7.3	11.6	9.6	9.6
Total Equities Policy			6.8	18.7	6.8	32.2	8.4	13.0	11.2	10.6
Difference			0.2	-1.6	0.2	-1.8	-1.1	-1.4	-1.6	-1.0
Total U.S. Equities Composite	9,928.2	41.3	6.9 (51)	18.8 (32)	6.9 (51)	32.5 (32)	8.9 (40)	13.0 (41)	11.4 (43)	11.0 (42)
Total U.S. Equities Policy			6.2 (59)	20.6 (25)	6.2 (59)	<i>35.2 (24)</i>	10.3 (26)	15.3 (22)	13.7 (22)	12.8 (23)
Difference			0.7	-1.8	0.7	-2.7	-1.4	-2.3	-2.3	-1.8
Total International Equities Composite	4,359.6	18.1	7.2 (57)	13.2 (50)	7.2 (57)	25.6 (37)	2.3 (65)	7.6 (60)	5.0 (67)	5.5 (64)
Total International Equities Policy			8.1 (43)	14.2 (39)	8.1 (43)	25.4 (40)	4.0 (50)	8.0 (48)	5.8 (44)	5.8 (56)
Difference			-0.9	-1.0	-0.9	0.2	-1.7	-0.4	-0.8	-0.3
Total Fixed Income Composite	5,462.7	22.7	5.9 (5)	6.4 (15)	5.9 (5)	15.1 (4)	-1.0 (57)	1.5 (27)	2.7 (19)	3.0 (19)
Total Fixed Income Policy			5.2 (49)	5.5 (39)	5.2 (49)	12.8 (46)	0.0 (22)	1.6 (24)	2.4 (24)	2.8 (23)
Difference			0.7	0.9	0.7	2.3	-1.0	-0.1	0.3	0.2
Total Real Estate Composite	1,603.5	6.7	-0.9	-7.1	-0.9	-8.3	1.0	1.4	2.9	-
Total Real Estate Policy			-0.5	-7.7	-0.5	-9.5	1.4	3.6	4.5	6.0
Difference			-0.4	0.6	-0.4	1.2	-0.4	-2.2	-1.6	-
<b>Total Core Real Estate Composite</b>	738.7	3.1	-0.3	-4.7	-0.3	-5.8	3.0	2.6	3.2	5.2
Total Core Real Estate Policy			-0.7	-8.0	-0.7	-9.9	1.5	3.6	4.3	5.9
Difference			0.4	3.3	0.4	4.1	1.5	-1.0	-1.1	-0.7
<b>Total Non-Core Real Estate Composite</b>	864.8	3.6	-1.4	-9.2	-1.4	-10.5	-1.4	0.0	3.2	-
Total Non-Core Real Estate Policy			-0.4	-7.4	-0.4	-9.1	1.8	3.9	4.7	6.2
Difference			-1.0	-1.8	-1.0	-1.4	-3.2	-3.9	-1.5	-



	Allocati	on			Performance %							
	Market Value \$	%	1 Quarter	Year to Date	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years		
<b>Total Private Investments Composite</b>	1,552.2	6.5	-0.2	2.1	-0.2	6.7	5.2	14.5	15.4	-		
Total Private Equity Policy			3.5	27.9	3.5	24.4	5.4	13.4	11.4	13.0		
Difference			-3.7	-25.8	-3.7	-17.7	-0.2	1.1	4.0	-		
<b>Total Private Debt Composite</b>	672.2	2.8	3.3	5.2	3.3	9.2	-		-	-		
Total Private Debt Policy			2.7	9.8	2.7	14.4	-	-	-	-		
Difference			0.6	-4.6	0.6	-5.2	-	-	-	-		



### Teachers' Retirement System of Oklahoma

Total Alternatives Program: Data as of June 30, 2024

#### Total Program Performance<sup>1</sup>

	Committed Capital\ (\$M)	Total Contributions (\$M)	Total Distributions (\$M)	Market Value (\$M)	Total Distribution to Paid-In Multiple (x)	Total Value Multiple (x)	Net IRR (%)
Total Alternatives Account	6,696.1	4,851.0	3,914.5	3,777.3	0.81	1.6	11.3%
Private Equity	2,826.5	2,023.5	2,364.0	1,556.8	1.17	1.9	17.1%
Private Debt	1,525.0	874.5	552.4	645.1	0.63	1.4	13.0%
Real Estate	2,344.6	1,953.0	998.0	1,575.5	0.51	1.3	5.6%

#### Total Program Capital Activity<sup>1</sup>

		Capital Calls		Distributions				
	Quarter to Date (\$M)	Trailing 12-Months (\$M)	Since Inception (\$M)	Quarter to Date (\$M)	Trailing 12-Months (\$M)	Since Inception (\$M)		
Total Alternatives Account	137.9	717.9	4851.0	74.4	266.6	3914.5		
Private Equity <sup>1</sup>	33.6	165.4	2023.5	64.5	214.0	2364.0		
Private Debt	44.5	355.9	874.5	1.7	7.5	552.4		
Real Estate	59.8	196.6	1953.0	8.3	45.0	998.0		

<sup>&</sup>lt;sup>1</sup> Source: Meketa; Private Equity underlying data was provided to Meketa by Franklin Park.



	Allocat	ion				Perform	nance %			
	Market Value \$	%	1 Quarter	Year to Date	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years
Total Fund	24,064	100.0	5.5 (19)	11.1 (23)	5.5 (19)	20.7 (15)	4.5 (55)	8.9 (20)	8.0 (20)	7.6 (21)
Total Fund Policy			5.5 (18)	14.1 (1)	5.5 (18)	23.4 (3)	<i>5.8 (12)</i>	9.9 (1)	8.8 (2)	8.3 (5)
Difference			0.0	-3.0	0.0	-2.7	-1.3	-1.0	-0.8	-0.7
Total Fund Policy Allocation Benchmark			5.5 (19)	13.8 (1)	5.5 (19)	22.4 (5)	-	-	-	-
Difference			0.0	-2.7	0.0	-1.7	-	-	-	-
Total Equities Composite	14,288	59.4	7.0	17.1	7.0	30.4	7.3	11.6	9.6	9.6
Total Equities Policy			6.8	18.7	6.8	32.2	8.4	13.0	11.2	10.6
Difference			0.2	-1.6	0.2	-1.8	-1.1	-1.4	-1.6	-1.0
Total U.S. Equities Composite	9,928	41.3	6.9 (51)	18.8 (32)	6.9 (51)	32.5 (32)	8.9 (40)	13.0 (41)	11.4 (43)	11.0 (42)
Total U.S. Equities Policy			6.2 (59)	20.6 (25)	6.2 (59)	35.2 (24)	10.3 (26)	15.3 (22)	13.7 (22)	12.8 (23)
Difference			0.7	-1.8	0.7	-2.7	-1.4	-2.3	-2.3	-1.8
Frontier Small Cap Value	592	2.5	8.1 (52)	15.5 (9)	8.1 (52)	30.9 (7)	12.9 (3)	14.6 (10)	10.9 (11)	11.2 (9)
Russell 2000 Value Index			10.2 (19)	9.2 (60)	10.2 (19)	<i>25.9 (28)</i>	3.8 (84)	9.3 (75)	<i>6.6 (83)</i>	8.2 (71)
Difference			-2.1	6.3	-2.1	5.0	9.1	5.3	4.3	3.0
Geneva US Small Cap Growth	522	2.2	9.1 (26)	15.5 (29)	9.1 (26)	27.8 (40)	3.1 (22)	10.7 (47)	10.8 (46)	12.4 (25)
Russell 2000 Growth Index			8.4 (35)	13.2 (49)	8.4 (35)	27.7 (42)	-0.4 (49)	8.8 (75)	7.6 (93)	8.9 (91)
Difference			0.7	2.3	0.7	0.1	3.5	1.9	3.2	3.5
Northern Trust Russell 3000	6,304	26.2	6.5 (54)	20.6 (23)	6.5 (54)	35.1 (24)	-	-	-	-
Russell 3000 Index			6.2 (57)	20.6 (23)	6.2 (57)	35.2 (24)	10.3 (20)	<i>15.3 (17)</i>	13.7 (22)	12.8 (18)
Difference			0.3	0.0	0.3	-0.1	-	-	-	-
SciBeta US HFE MBMS	2,511	10.4	7.2 (47)	15.9 (47)	7.2 (47)	27.6 (54)	8.3 (47)	10.5 (69)	-	-
SciBeta US High FactorExposure Index			7.1 (48)	15.8 (48)	7.1 (48)	27.4 (55)	8.3 (47)	10.6 (69)	-	-
Difference			0.1	0.1	0.1	0.2	0.0	-0.1	-	-
Russell 3000 Index			6.2 (59)	20.6 (25)	6.2 (59)	<i>35.2 (24)</i>	10.3 (26)	<i>15.3 (22)</i>	13.7 (22)	12.8 (23)
Difference			1.0	-4.7	1.0	-7.6	-2.0	-4.8	-	-



<sup>\*</sup> Benchmark composition is listed in the Appendix.

	Allocat	ion				Perform	ance %			
	Market Value \$	%	1 Quarter	Year to Date	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years
Total International Equities Composite	4,360	18.1	7.2 (57)	13.2 (50)	7.2 (57)	25.6 (37)	2.3 (65)	7.6 (60)	5.0 (67)	5.5 (64)
Total International Equities Policy			8.1 (43)	14.2 (39)	8.1 (43)	<i>25.4 (40)</i>	4.0 (50)	8.0 (48)	5.8 (44)	<i>5.8 (56)</i>
Difference			-0.9	-1.0	-0.9	0.2	-1.7	-0.4	-0.8	-0.3
Arrowstreet EAFE	780	3.2	-	-	-	-	-	-	-	-
MSCI EAFE (Net)			7.3 (56)	13.0 (51)	7.3 (56)	24.8 (48)	5.5 (35)	8.2 (46)	6.0 (39)	5.7 (57)
Difference			-	-	-	-	-	-	-	-
Northern Trust MSCI ACWI ex US ex-China	2,587	10.7	6.8 (66)	13.1 (50)	6.8 (66)	25.7 (35)	-	-	-	-
MSCI AC World ex USA (Net)			8.1 (43)	14.2 (39)	8.1 (43)	25.4 (40)	4.1 (48)	7.6 (61)	5.4 (57)	5.2 (74)
Difference			-1.3	-1.1	-1.3	0.3	-	-	-	-
Causeway Intl Opportunities	417	1.7	8.9 (26)	17.1 (14)	8.9 (26)	26.8 (27)	8.8 (3)	10.4 (11)	6.7 (15)	6.2 (42)
Causeway Intl Policy			9.4 (19)	15.1 (28)	9.4 (19)	24.9 (47)	8.2 (6)	<i>8.5 (38)</i>	<i>5.5 (57)</i>	5.6 (64)
Difference			-0.5	2.0	-0.5	1.9	0.6	1.9	1.2	0.6
Harding Loevner Intl. Equity	575	2.4	8.8 (32)	10.9 (71)	8.8 (32)	24.1 (54)	-	-	-	-
MSCI AC World ex USA (Net)			<i>8.1 (43)</i>	14.2 (39)	<i>8.1 (43)</i>	25.4 (40)	4.1 (48)	7.6 (61)	5.4 (57)	5.2 (74)
Difference			0.7	-3.3	0.7	-1.3	-	-	-	-
Total Fixed Income Composite	5,463	22.7	5.9 (5)	6.4 (15)	5.9 (5)	15.1 (4)	-1.0 (57)	1.5 (27)	2.7 (19)	3.0 (19)
Total Fixed Income Policy			5.2 (49)	5.5 (39)	5.2 (49)	12.8 (46)	0.0 (22)	1.6 (24)	2.4 (24)	2.8 (23)
Difference			0.7	0.9	0.7	2.3	-1.0	-0.1	0.3	0.2
Loomis Multisector Full Discretion	1,614	6.7	5.9 (3)	7.0 (8)	5.9 (3)	14.8 (6)	0.5 (12)	3.6 (5)	3.6 (4)	3.4 (13)
Total Fixed Income Core Plus Policy			5.2 (49)	5.5 (39)	5.2 (49)	12.8 (46)	0.0 (22)	1.6 (24)	2.4 (28)	2.6 (38)
Difference			0.7	1.5	0.7	2.0	0.5	2.0	1.2	8.0
Lord Abbett Core Plus Full Discretion	1,534	6.4	5.2 (58)	6.6 (12)	5.2 (58)	14.1 (14)	0.4 (12)	2.1 (17)	2.7 (18)	2.8 (22)
Total Fixed Income Core Plus Policy			5.2 (49)	5.5 (39)	5.2 (49)	12.8 (46)	0.0 (22)	1.6 (24)	2.4 (28)	2.6 (38)
Difference			0.0	1.1	0.0	1.3	0.4	0.5	0.3	0.2



<sup>\*</sup> Benchmark composition is listed in the Appendix.

	Allocat	ion				Perform	ance %			
	Market Value \$	%	1 Quarter	Year to Date	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years
Mackay Core Plus Extended Discretion	1,594	6.6	5.4 (24)	7.6 (5)	5.4 (24)	15.8 (2)	0.9 (10)	3.1 (10)	3.4 (8)	3.1 (18)
Total Fixed Income Core Plus Policy			5.2 (49)	<i>5.5 (39)</i>	5.2 (49)	12.8 (46)	0.0 (22)	1.6 (24)	2.4 (28)	2.6 (38)
Difference			0.2	2.1	0.2	3.0	0.9	1.5	1.0	0.5
Hoisington Macroeconomic FI	721	3.0	8.2 (29)	2.0 (72)	8.2 (29)	16.2 (28)	-9.7 (64)	-5.1 (61)	-0.6 (53)	1.1 (56)
Total Fixed Income Active Duration Policy			4.7 (41)	3.8 (63)	4.7 (41)	9.7 (47)	-1.8 (54)	-0.2 (51)	1.0 (42)	1.4 (30)
Difference			3.5	-1.8	3.5	6.5	-7.9	-4.9	-1.6	-0.3
Total Core Real Estate Composite	739	3.1	-0.3	-4.7	-0.3	-5.8	3.0	2.6	3.2	5.2
Total Core Real Estate Policy			-0.7	-8.0	-0.7	-9.9	1.5	3.6	4.3	5.9
Difference			0.4	3.3	0.4	4.1	1.5	-1.0	-1.1	-0.7
AEW Core Property Trust	372	1.5	-0.1	-2.9	-0.1	-3.9	3.5	3.8	4.6	5.9
Heitman America Real Estate Trust	367	1.5	-0.5	-6.6	-0.5	-7.7	3.6	3.2	3.9	5.7
Total Non-Core Real Estate Composite	865	3.6	-1.4	-9.2	-1.4	-10.5	-1.4	0.0	3.2	-
Total Non-Core Real Estate Policy			-0.4	-7.4	-0.4	-9.1	1.8	3.9	4.7	6.2
Difference			-1.0	-1.8	-1.0	-1.4	-3.2	-3.9	-1.5	-
Total Private Investments Composite	1,552	6.5	-0.2	2.1	-0.2	6.7	5.2	14.5	15.4	
Total Private Equity Policy			3.5	27.9	3.5	24.4	5.4	13.4	11.4	13.0
Difference			-3.7	-25.8	-3.7	-17.7	-0.2	1.1	4.0	-
Total Private Debt Composite	672	2.8	3.3	5.2	3.3	9.2	-	-	-	-
Total Private Debt Policy			2.7	9.8	2.7	14.4	-	-	-	-
Difference			0.6	-4.6	0.6	-5.2	-	-	-	-
Ares (Private Credit Fund O, LLC)	232	1.0	3.5	8.7	3.5	11.3	-	-	-	-
KKR (Scissor-Tail Credit Fund, LLC)	185	8.0	3.3	8.9	3.3	14.1	-	-	-	-
PIMCO Bravo Fund II LP	8	0.0	4.0	6.5	4.0	12.4	-10.4	-5.2	-2.5	1.1
PIMCO Bravo Fund III Onshore Feeder LP	169	0.7	-0.2	-2.1	-0.2	7.3	9.0	8.2	9.2	-



<sup>\*</sup> Benchmark composition is listed in the Appendix.

	Allocati	Allocation			Performance %					
	Market	Market Value \$		Year to	Fiscal YTD	1	3	5	7	10
	Value \$			Date		Year	Years	Years	Years	Years
PIMCO Corporate Opportunities II Onshore LP	79	0.3	10.6	-3.1	10.6	72.9	39.6	26.8	21.5	-



### Teachers' Retirement System of Oklahoma

Data as of June 30, 2024

Private Equity Program - Performance Analysis (By Strategy)<sup>1</sup>

Group	Number	Committed (\$M)	Contributed (\$M)	Unfunded (\$M)	Distributed (\$M)	Remaining Value (\$M)	Exposure (\$M)	DPI (X)	TVPI (X)	IRR (%)
Buyout	56	1,625.5	1,154.1	624.3	1,478.5	902.6	1,526.9	1.28	2.06	19.0
Distressed	3	95.0	89.3	6.0	103.0	22.6	28.6	1.15	1.41	5.9
Oil & Gas	4	141.0	148.3	3.6	172.0	55.8	59.4	1.16	1.54	9.5
Growth Equity	2	45.0	16.3	28.9	0.3	17.2	46.1	0.02	1.07	4.7
Multi-strategy	2	250.0	163.1	95.3	9.4	206.3	301.6	0.06	1.32	14.9
Private Debt	3	60.0	78.1	8.2	138.0	3.1	11.3	1.77	1.81	16.4
Secondary	2	25.0	23.2	2.6	33.7	1.5	4.0	1.45	1.51	11.9
Special Situations	7	220.0	157.7	86.5	187.2	101.3	187.8	1.19	1.83	18.0
Venture Capital	12	365.0	193.4	167.7	242.1	246.4	414.1	1.25	2.53	21.3
Total	91	2,826.5	2,023.5	1,023.1	2,364.0	1,556.8	2,579.8	1.17	1.94	17.1

Private Debt Program - Performance Analysis (By Strategy)<sup>1</sup>

Group	Number	Committed (\$M)	Contributed (\$M)	Unfunded (\$M)	Distributed (\$M)	Remaining Value (\$M)	Exposure (\$M)	DPI (X)	TVPI (X)	IRR (%)
Debt	4	925.0	597.7	418.8	470.0	362.0	780.8	0.79	1.39	12.4
Opportunistic	2	600.0	276.8	404.1	82.4	283.0	687.1	0.30	1.32	15.9
Total	6	1,525.0	874.5	822.8	552.4	645.1	1,467.9	0.63	1.37	13.0

<sup>&</sup>lt;sup>1</sup> Source: Meketa; Private Equity underlying data was provided to Meketa by Franklin Park.



### Teachers' Retirement System of Oklahoma

Data as of June 30, 2024

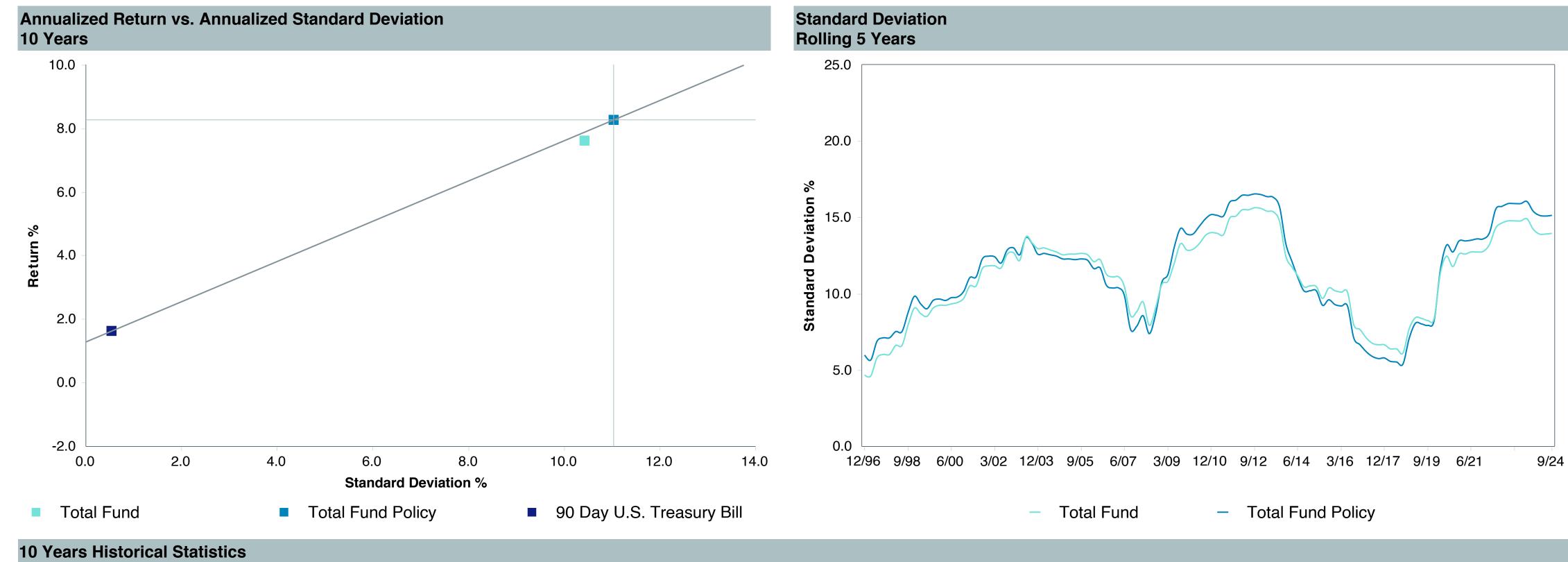
Real Estate Program - Performance Analysis (By Strategy)<sup>1</sup>

Group	Number	Committed (\$M)	Contributed (\$M)	Unfunded (\$M)	Distributed (\$M)	Remaining Value (\$M)	Exposure (\$M)	DPI (X)	TVPI (X)	IRR (%)
Core	3	472.9	808.1	0.0	611.9	741.8	741.8	0.76	1.68	6.9
Opportunistic	9	737.5	346.9	404.1	156.5	264.9	669.0	0.45	1.21	8.1
Direct Investment	1	14.1	19.3	0.0	7.7	10.5	10.5	0.40	0.94	-1.5
Secondary	2	135.0	35.2	99.8	33.5	4.7	104.5	0.95	1.08	3.6
Value-Added	14	985.1	743.5	267.7	188.4	553.6	821.4	0.25	1.00	-0.1
Total	29	2,344.6	1,953.0	771.7	998.0	1,575.5	2,347.2	0.51	1.32	5.6

<sup>1</sup> Source: Meketa



#### **Risk Profile**



10 Years Historical Statistics										
	Active Return	Tracking Error	Information Ratio	R-Squared	Sharpe Ratio	Alpha	Beta	Return	Standard Deviation	Actual Correlation
Total Fund	-0.67	1.91	-0.35	0.97	0.60	-0.09	0.93	7.62	10.42	0.99
Total Fund Policy	0.00	0.00	-	1.00	0.63	0.00	1.00	8.27	11.03	1.00
90 Day U.S. Treasury Bill	-6.95	11.04	-0.63	0.00	-	1.64	0.00	1.64	0.54	0.00



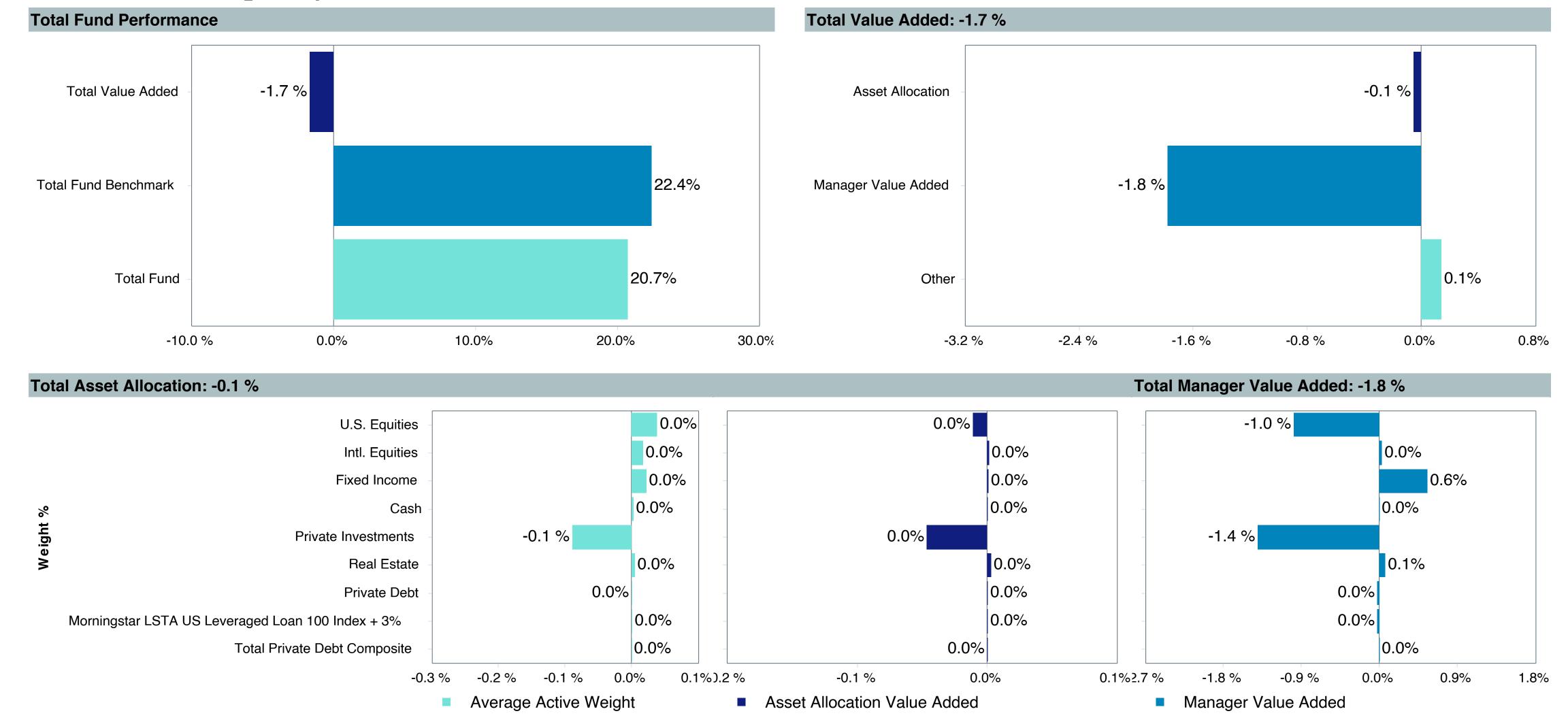
## **Appendix**





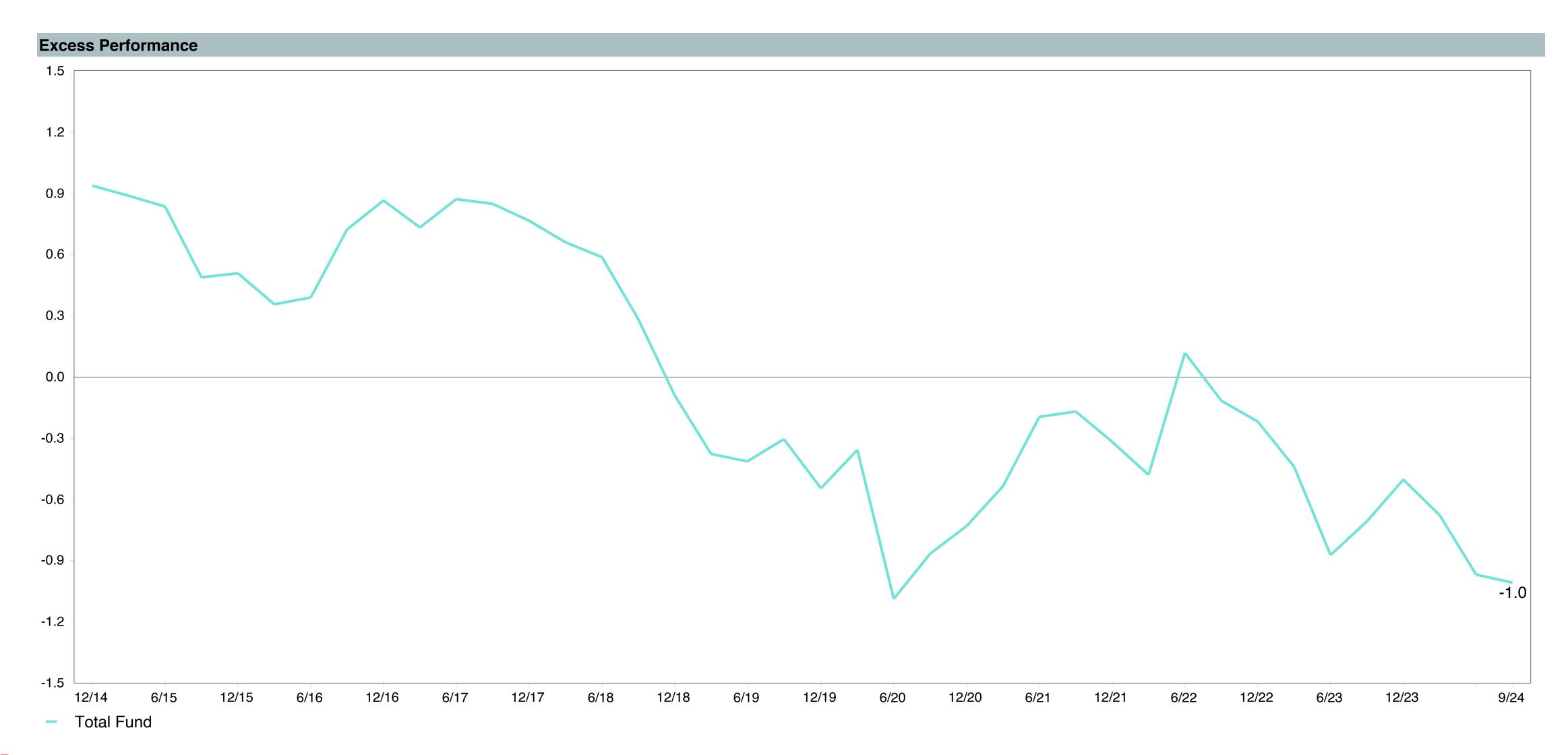
#### **Total Fund Attribution - Allocation Benchmark**

1 Year Ending September 30, 2024



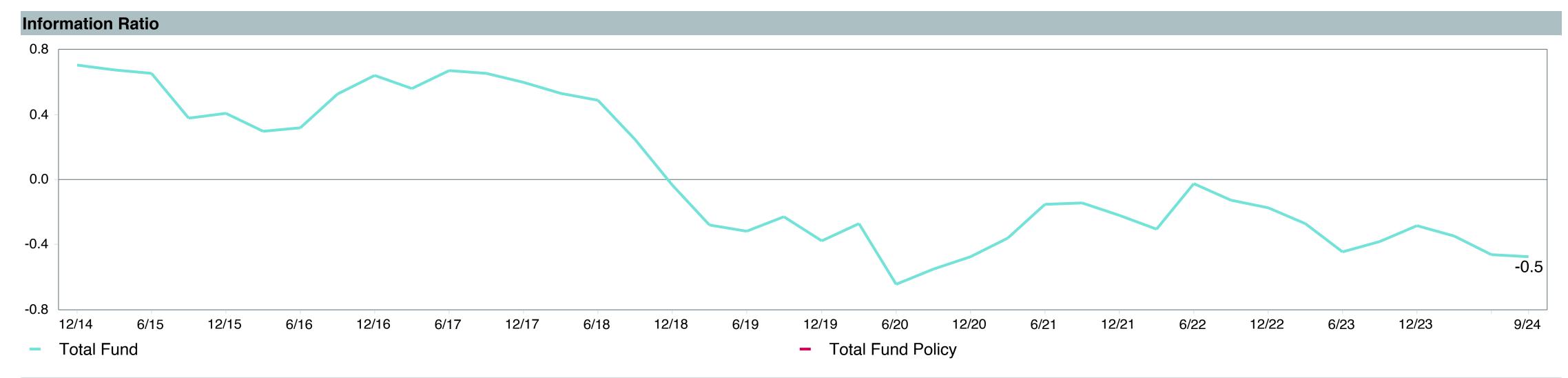


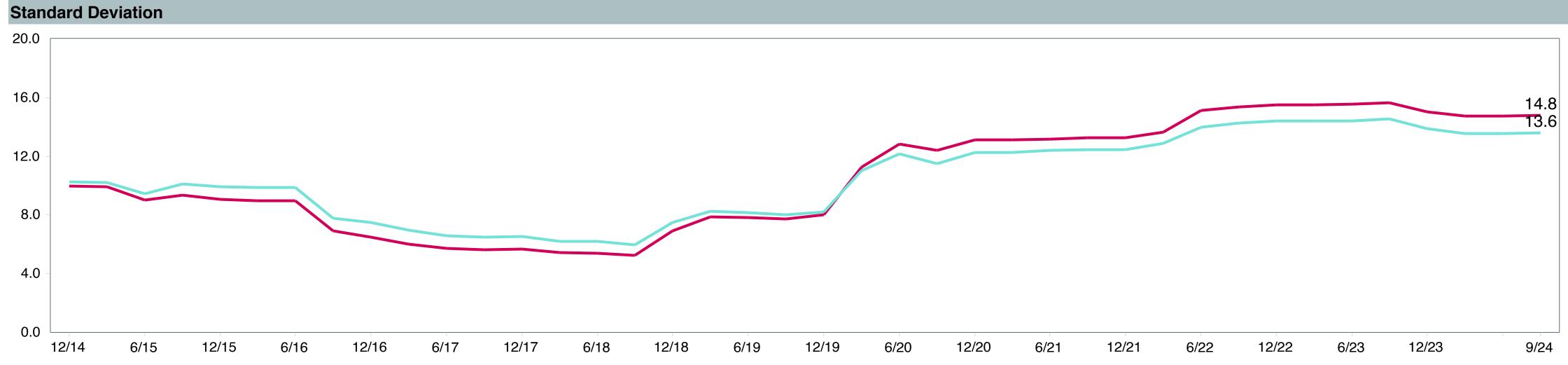
#### Rolling Five Years - Total Fund Excess Performance (vs. Total Fund Policy)





#### Statistics: Rolling Five Year - Information Ratio and Standard Deviation







#### **Historical Statistics**

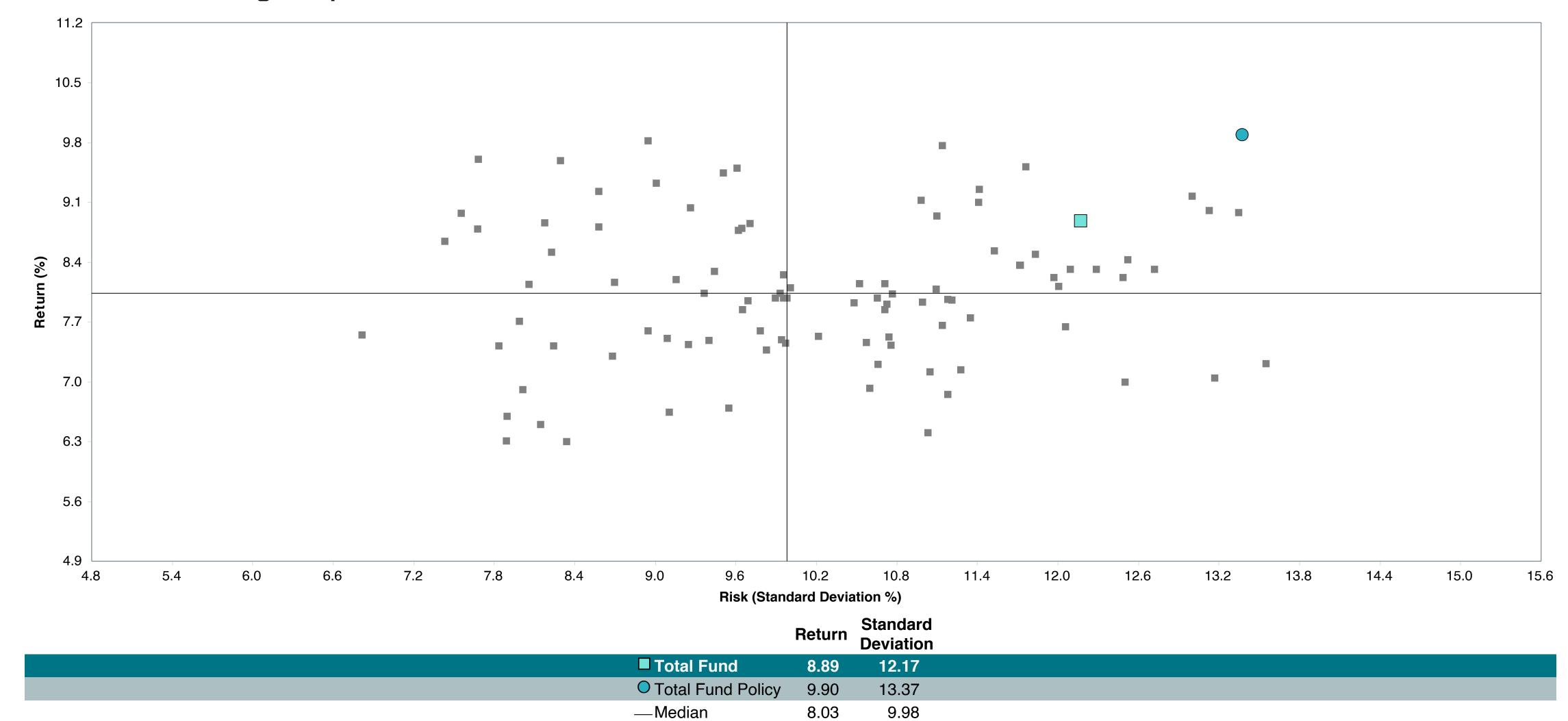
5 Years Ending September 30, 2024

	Excess Performance	Tracking Error	Information Ratio	Sharpe Ratio	Alpha	Beta	Return	Standard Deviation	Actual Correlation
Total Fund	-1.01	2.35	-0.48	0.53	-0.17	0.91	8.89	13.61	0.99
Total Fund Policy	0.00	0.00	-	0.57	0.00	1.00	9.90	14.78	1.00



### Plan Sponsor Scattergram

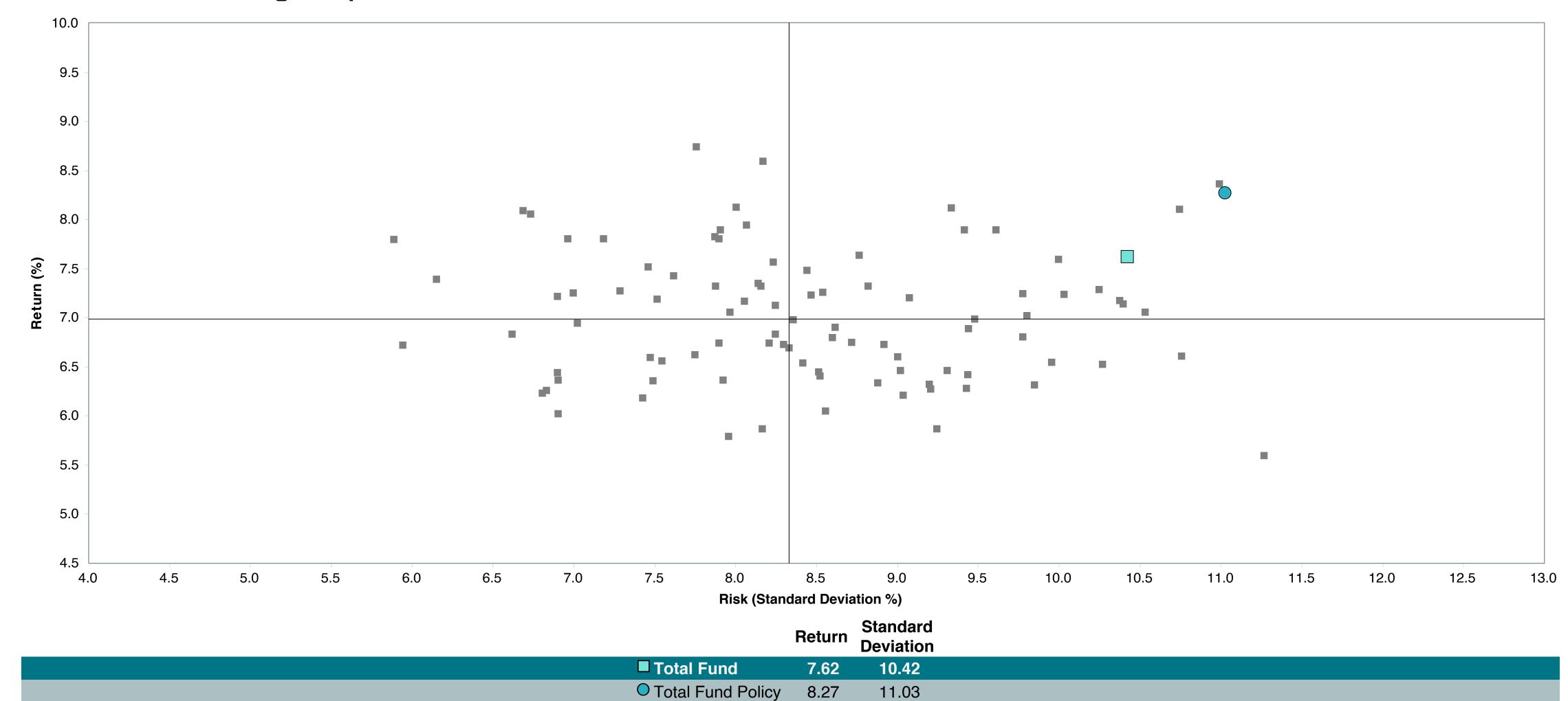
5 Years Ending September 30, 2024





### Plan Sponsor Scattergram

10 Years Ending September 30, 2024



6.99

8.33

—Median



### TRSOK - Financial Reconciliation Report - Fiscal YTD

Account/Group	06/30/2024 Market Value	Net Contribution*	Income	Fees	Appreciation	09/30/2024 Market Value
Oklahoma Teachers	22,795,161,150	11,978,022	157,258,130	6,594,381	1,099,997,233	24,064,394,535
Total Equity	13,561,966,700	-220,000,000	64,070,687	2,568,646	881,799,912	14,287,837,299
Total Domestic Equity	9,496,277,999	-220,000,000	35,749,234	1,453,469	616,228,157	9,928,255,390
Domestic Transition	7,175		99		-2	7,271
Transition Account	7,175		99		-2	7,271
Domestic Equity Active	1,026,051,667		2,530,831	1,034,441	85,472,278	1,114,054,775
Domestic Equity Active Mid	-					-
Domestic Equity Active Small	1,026,051,667		2,530,831	1,034,441	85,472,278	1,114,054,775
Frontier Cap Small Cap	547,097,668		2,083,478	597,137	42,409,559	591,590,705
Geneva Capital	478,953,999		447,353	437,304	43,062,719	522,464,071
Domestic Equity Indexed	8,470,219,157	-220,000,000	33,218,305	419,028	530,755,881	8,814,193,343
Domestic Equity Index Cap Wgt	6,128,334,272	-220,000,000	21,319,815	128,250	373,874,718	6,303,528,805
NT Russell 3000	6,128,334,272	-220,000,000	21,319,815	128,250	373,874,718	6,303,528,805
Domestic Equity Indexed NonCap	2,341,884,885		11,898,490	290,778	156,881,163	2,510,664,538
Sci Beta US HFE MBMS	2,341,884,885		11,898,490	290,778	156,881,163	2,510,664,538
Total International Equity	4,065,688,701		28,321,453	1,115,177	265,571,755	4,359,581,909
International Large Cap	4,064,133,763	10,234,598	27,943,426	1,115,177	256,055,800	4,358,367,586
ACWI ex-US ex-China	3,152,595,147	-750,031,950	19,014,037	192,787	164,927,577	2,586,504,812
Arrow street Intl Equity	-	760,266,547	2,355,353		17,051,808	779,673,708
Causew ay Capital	382,889,622	-	3,456,893	335,365	30,479,116	416,825,631
Harding Loevner Intl Eq	528,645,929		3,117,143	587,025	43,597,298	575,360,369
TOK121 SANCTIONED ASSET	3,066					3,066
International Small Cap	-					-
International Transition	1,554,938	-10,234,598	378,027		9,515,955	1,214,323
Global Transition	1,554,938	-10,234,598	378,027		9,515,955	1,214,323
Total Fixed Income	5,161,900,552	-1,444,744	71,059,429	2,295,517	231,202,595	5,462,717,831
Core Fixed Income	5,161,900,552	-1,444,744	71,059,429	2,295,517	231,202,595	5,462,717,831
Core Plus Fixed Income	4,495,599,191	-1,444,744	65,714,929	2,179,316	182,096,721	4,741,966,097
Loomis Sayles Core Plus	1,523,818,397		19,990,289	844,966	70,317,906	1,614,126,592
Lord Abbett Core Plus	1,458,564,274		23,151,867	561,882	52,607,904	1,534,324,046
Mackay Shields Core Plus	1,513,216,520	-1,444,744	22,572,773	772,468	59,170,910	1,593,515,459
Active Duration Fixed Income	666,301,361		5,344,500	116,201	49,105,874	720,751,734
Hoisington Investment	666,301,361		5,344,500	116,201	49,105,874	720,751,734
Total Alternative Assets	3,776,058,901	48,826,067	14,512,810	951,425	-11,412,757	3,827,985,021
Private Capital	1,553,814,447	1,874,454			-3,439,204	1,552,249,696

Source: Northern Trust

<sup>\*</sup> Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.



### TRSOK - Financial Reconciliation Report - Fiscal YTD

Namer   Value   Namer   Value   Namer   Name	Account/Group	06/30/2024 Market Value	Net Contribution*	lagama	Fees	Appreciation	09/30/2024 Market Value
Pranklin Park				licone	1 003		
Legacy LP							
Total Real Estate	Legacy LP	4,832,898					
Core Real Estate         747,654,735         -6,769,199         11,604,452         649,766         -13,776,453         738,713,535           AEW Core Property Trust         376,001,998         3,008,894         3,058,894         -0,999,137         372,012,826           Leb Core Income         156,011         -0,790,855,899         649,766         9,777,031         368,585,999           Non-Core Real Estate         850,693,313         26,606,206         2,879,507         301,659         15,375,993         864,803,033           AGNI Non-Core Real Estate         850,693,313         3,000,000         566,676         301,659         -1,789,528         844,803,033           Agres Gordon VAL ED X         39,801,527         168,000         -1,789,528         112,875,206           Agres Gordon VAL ED X         39,800,527         168,000         -7,784,051         33,004,476           Artemis Real Estate II         10,585,000         3,377,179         1,755         150,223,400         25,480,338           Blackstone Real Estate X         24,182,406         392,625         657         300,010         25,480,338           Dune Real Estate W         10,582,600         1,746,666         -1,778,140         17,477,839         14,467,499           EQT Exeter Ind Value VI         23,238,010 </td <td></td> <td></td> <td>·</td> <td>14,483,959</td> <td>951,425</td> <td></td> <td></td>			·	14,483,959	951,425		
AEW Core Property Trust         376,001,988         -3,895,894         3,695,894         -3,989,137         372,012,820           Heitura America Real Estate         371,497,766         -3,073,305         7,908,658         649,766         -9,777,031         366,656,989           Non-Core Real Estate         850,993,313         26,806,206         2,879,607         301,659         15,375,993         864,803,030           AGM Non-Core Real Estate         28,014,143         3,500,000         -1,806,665         30,553,478           American Strategic Value         114,088,066         566,678         301,659         -1,799,528         112,275,206           Arteria Real Estate II         30,880,574         188,000         -784,061         39,904,476           Arteria Real Estate II         30,880,574         188,000         -784,061         39,904,476           Arteria Real Estate III         30,880,574         188,000         758,126         14,688,499           Blackstone Real Estate II         110,0626         667         380,101         25,888,898           Dune Real Estate III         11,000,626         67         17,881,400         67,745,795           EQT Estate III         11,000,626         1,746,866         1,758,140         67,745,795           EQT Estate IIII VI	Core Real Estate				<u> </u>		
Heilman America Real Estatata   371,497,766   -3,073,305   7,998,568   649,766   -9,777,031   366,555,989   14,4726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   144,726   10,285   14,800,803   14,800,803   14,800,805   14,8	AEW Core Property Trust				<u> </u>		
Non-Core Real Estate	Heitman America Real Estate	371,497,766	-3,073,305	7,908,558	649,766	-9,777,031	366,555,989
AGXI Non-Core Real Estate	L&B Core Income	155,011				-10,285	144,726
American Strategic Value         114,088,066         586,678         301,659         -1,799,528         112,875,200           Angelo Gordon VAL FDX         39,920,527         168,000         -784,061         39,904,476           Artemis Real Estate III         30,880,574         1,223,441         32,104,015           Artemis Real Estate IV         10,528,640         3,377,179         7,153         756,126         14,668,499           Blackstone Real Estate IV         24,182,406         926,285         657         380,010         25,489,368           Dune Real Estate III         11,300,626         1,768,666         107,213         11,407,839           Dune Real Estate IV         57,757,269         1,746,666         -1,758,140         57,745,795           EQT Exeter Ind Value VI         23,238,010         23,499,152         23,499,152         40,477,978           FCP Really Fund M, L.P.         40,409,267         370,516         40,779,783         5,621,353         5,348,068           Green Colak US II         11,969,441         -6,21,353         5,348,068         -1,171,187         91,229,428           Green Colak US II         38,447,62         952,934         -1,97,749         95,000         95,000         1,530,617         39,307,668           Invesco Real	Non-Core Real Estate	850,693,313	26,606,206	2,879,507	301,659	-15,375,993	864,803,033
Angelo Gordon VAL FDX         39,920,527         168,000         -784,051         39,304,476           Artemis Real Estate III         30,880,574         1,223,441         32,104,015           Artemis Real Estate IV         10,528,040         3,377,179         7,153         756,128         14,688,498           Blackstone Real Estate X         24,182,406         996,285         657         380,010         25,489,358           Dune Real Estate III         11,300,626         107,213         11,407,839         11,407,839           Dune Real Estate IV         57,757,269         1,746,666         -1,758,140         57,745,795           EQT Exter Ind Value VI         23,238,010         261,802         23,499,812           FCP Realty Fund IV, L.P.         40,409,267         370,516         40,779,783           FCP Realty Fund IV, L.P.         40,409,267         370,777,789         41,627,117,1187         91,209,428           Green/Cak US III         38,344,762         952,034         41,809,439         41	AGXI Non-Core Real Estate	28,914,143	3,500,000			-1,860,665	30,553,478
Artemis Real Estate III         30,880,574         1,223,441         32,104,015           Artemis Real Estate IV         10,528,040         3,377,179         7,153         756,126         14,688,498           Blackstone Real Estate X         24,182,406         926,285         657         380,010         25,489,358           Dune Real Estate III         11,006,265         1,746,666         107,213         11,407,839           Dune Real Estate IV         67,757,269         1,746,666         1,758,140         57,745,795           EQT Exeter Ind Value VI         23,238,010         261,802         23,499,812           FCP Realty Fund V, L.P.         40,409,267         370,516         40,779,783           FCP Realty Fund V         89,622,837         2,777,778         1,171,187         91,229,428           GreenOak US III         38,344,762         952,034         -1,171,187         93,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Brategic Opportunity         12,318,673         -1,737,789         48,831         10,531,053           Landmark Real Estate VI         46,143         -1,737,789         48,831         10,531,053           Landmark Real Estate VI	American Strategic Value	114,088,056		586,678	301,659	-1,799,528	112,875,206
Arterris Real Estate IV         10,526,040         3,377,179         7,153         756,126         14,688,499           Blackstone Real Estate X         24,182,406         926,285         657         380,010         25,489,358           Dune Real Estate III         11,300,626         107,213         11,407,839           Dune Real Estate IV         57,757,269         1,746,666         -1,758,140         57,745,795           EQT Exeter Ind Value VI         23,238,010         261,802         23,499,812           FCP Realty Fund V, L.P.         40,402,267         370,516         40,779,783           FCP Realty Fund V         89,622,837         2,777,778         -1,171,187         91,229,428           GreenOak US III         11,969,441         -6,621,353         5,348,088           GreenOak US III         38,344,762         952,034         -1,89,710         39,304,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           LaB Golden Driller         44,143         -         44,813         1,530,617         39,354,755           Laddmark Real Estate VI         45,116,481         -1,737,789         -1,1850         42,293           Laddmark Real Estate VI         45,116,481	Angelo Gordon VAL FD X	39,920,527		168,000		-784,051	39,304,476
Blackstone Real Estate X   24,182,406   926,285   657   380,010   25,489,358     Dune Real Estate III   11,300,626   1,746,666   10,7213   11,407,839     Dune Real Estate IV   57,757,269   1,746,666   1,758,140   57,745,795     EQT Exeter Ind Value VI   23,238,010   261,802   23,499,812     EQT Exeter Ind Value VI   23,238,010   261,802   23,499,812     EQT Exeter Ind Value VI   23,238,010   370,516   40,779,788     EQT Exeter Ind Value VI   38,622,837   2,777,778   1,1171,187   91,229,428     GreenQak US II   11,969,441   6,621,353   5,348,088     GreenQak US II   38,344,762   952,034   -189,710   39,107,086     Harbert European Real Estate V   38,640,088   816,220   270   1,530,617   39,354,755     Invesco Real Estate V   49,712,277   2,411,213   33,056   1,278,962   50,877,584     Invesco Strategic Opportunity   12,318,673   1,737,789   44,831   10,531,053     L&B Golden Driller   44,143   1,373,789   44,9831   10,531,053     Landmark Real Estate X   606,985   5,810,635   4,476,980   5,940,640     Landmark Real Estate VI   4,551,164   4,524,620     Lyrical-OTRS Realty Partner N   54,127,810   30,000   30,000   3,500,000   10,150,000     Starw cod Opportunity X   7,416,20   54,936,535     Starw cod Opportunity X   51,926,318   1,116,648   1,283,693   1,886,107   52,438,555     Starw cod Opportunity XI   51,926,318   1,116,648   1,283,693   1,886,107   52,438,555     Starw cod XII   84,163,033   1,946,655   86,109,598     Starw cod XII   1,946,655   86,10	Artemis Real Estate III	30,880,574				1,223,441	32,104,015
Dune Real Estate III         11,300,626         107,213         11,407,839           Dune Real Estate IV         57,757,269         1,746,666         -1,758,140         57,745,795           EQT Exeter Ind Value VI         23,238,010         261,802         23,499,812           FCP Realty Fund IV, L.P.         40,409,267         370,516         40,779,783           FCP Realty Fund V         89,622,837         2,777,778         -1,171,187         91,229,428           GreenOak US II         11,969,441         -6,621,363         5,348,088           GreenOak US III         38,344,762         952,034         -18,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,276,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         49,831         10,531,053           Landmark Real Estate IX         606,985         5,810,635         476,980         5,940,640           Landmark Real Estate VII         4,517,810         -26,544         4,524,620           Lyrical-OTRS Reality Partner IV         54,177,810         -3,016,328         51,1	Artemis Real Estate IV	10,528,040	3,377,179	7,153		756,126	14,668,499
Dune Real Estate IV         57,75/269         1,746,666         -1,758,140         57,745,795           EQT Exeter Ind Value VI         23,238,010         261,802         23,499,812           FCP Reality Fund IV, L.P.         40,409,267         370,516         40,779,788           FCP Reality Fund V         89,622,837         2,777,778         -1,171,187         91,229,428           GreenOak US II         11,969,441         -6,621,353         5,348,088           GreenOak US III         38,344,762         952,034         -189,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         -49,831         10,531,053           L&B Golden Driller         44,143         -1,650,635         476,980         5,940,640           Landmark Real Estate X         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate X         4,551,164         -26,544         4,524,620           Lyrical-OTRS Reality Partner IV         54,127,810         -3,016,328	Blackstone Real Estate X	24,182,406	926,285	657		380,010	25,489,358
EQT Exeter Ind Value VI         23,238,010         261,802         23,499,812           FCP Realty Fund IV, L.P.         40,409,267         370,516         40,779,783           FCP Realty Fund V         89,622,837         2,777,778         -1,171,187         91,229,428           GreenOak US II         11,969,441         -6,621,353         5,348,088           GreenOak US III         38,344,762         952,034         -189,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         49,831         10,531,053           L&B Golden Driller         44,143         -1,737,789         49,831         10,531,053           Landmark Real Estate IX         606,985         5,810,635         476,980         5,940,640           Lyrical-OTRS Reality Partner IV         54,127,810         -26,544         4,524,620           Oaktree Real Estate IX         4,524,620         -3,016,328         5,111,482           Property ACQ Fund         10,050,000         -350,000         800,000	Dune Real Estate III	11,300,626				107,213	11,407,839
FCP Realty Fund IV, L.P.         40,409,267         370,516         40,779,788           FCP Realty Fund V         89,622,837         2,777,778         -1,171,187         91,229,428           GreenOak US II         11,969,441         -6,621,353         5,348,088           GreenOak US III         38,344,762         952,034         -189,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,758           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         -49,831         10,531,053           Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX         7,416,320         80,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083         54,763         7,471,083           Starw ood XII         84,163,033	Dune Real Estate IV	57,757,269	1,746,666			-1,758,140	57,745,795
FCP Realty Fund V         89,622,837         2,777,778         -1,171,187         91,229,428           GreenOak US II         11,969,441         -6,621,353         5,348,088           GreenOak US III         38,344,762         952,034         -189,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         -49,831         10,531,053           L&B Golden Driller         44,143         -1,850         42,293           Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX         54,763         7,471,083           Starw ood Opportu	EQT Exeter Ind Value VI	23,238,010				261,802	23,499,812
GreenOak US II         11,969,441         -6,621,353         5,348,088           GreenOak US III         38,344,762         952,034         -189,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         -49,831         10,531,053           L&B Golden Driller         44,143         -1,850         42,293           Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Reality Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX         -3,016,328         51,111,482           Oaktree Real Estate IX         54,127,810         -350,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,5	FCP Realty Fund IV, L.P.	40,409,267				370,516	40,779,783
GreenOak US III         38,344,762         952,034         -189,710         39,107,086           Harbert European Real Estate V         38,640,088         -816,220         270         1,530,617         39,354,755           Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         -49,831         10,531,053           L&B Golden Driller         44,143         -1,850         42,293           Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX         7,016,328         51,111,482           Oaktree Real Estate IX         54,127,810         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         50,000         -350,000         10,150,000           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,116,648         1,283,693<	FCP Realty Fund V	89,622,837	2,777,778			-1,171,187	91,229,428
Harbert European Real Estate V   38,640,088	GreenOak US II	11,969,441				-6,621,353	5,348,088
Invesco Real Estate VI         49,712,277         2,411,213         33,056         -1,278,962         50,877,584           Invesco Strategic Opportunity         12,318,673         -1,737,789         -49,831         10,531,053           L&B Golden Driller         44,143         -1,850         42,293           Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX           Property ACQ Fund         10,050,000         -350,000         800,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	GreenOak US III	38,344,762	952,034			-189,710	39,107,086
Invesco Strategic Opportunity	Harbert European Real Estate V	38,640,088	-816,220	270		1,530,617	39,354,755
L&B Golden Driller         44,143         -1,850         42,293           Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX         Froperty ACQ Fund         10,050,000         -350,000         800,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	Invesco Real Estate VI	49,712,277	2,411,213	33,056		-1,278,962	50,877,584
Landmark Real Estate IX         606,985         5,810,635         -476,980         5,940,640           Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX         Froperty ACQ Fund         10,050,000         -350,000         800,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	Invesco Strategic Opportunity	12,318,673	-1,737,789			-49,831	10,531,053
Landmark Real Estate VII         4,551,164         -26,544         4,524,620           Lyrical-OTRS Realty Partner IV         54,127,810         -3,016,328         51,111,482           Oaktree Real Estate IX           Property ACQ Fund         10,050,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	L&B Golden Driller	44,143				-1,850	42,293
Lyrical-OTRS Realty Partner IV       54,127,810       -3,016,328       51,111,482         Oaktree Real Estate IX         Property ACQ Fund       10,050,000       -350,000       800,000       -350,000       10,150,000         Starw ood Opportunity X       7,416,320       54,763       7,471,083         Starw ood Opportunity XI       51,926,318       1,116,648       1,283,693       -1,888,107       52,438,552         Starw ood XII       84,163,033       1,946,565       86,109,598	Landmark Real Estate IX	606,985	5,810,635			-476,980	5,940,640
Oaktree Real Estate IX         Property ACQ Fund       10,050,000       -350,000       800,000       -350,000       10,150,000         Starw ood Opportunity X       7,416,320       54,763       7,471,083         Starw ood Opportunity XI       51,926,318       1,116,648       1,283,693       -1,888,107       52,438,552         Starw ood XII       84,163,033       1,946,565       86,109,598	Landmark Real Estate VII	4,551,164				-26,544	4,524,620
Property ACQ Fund         10,050,000         -350,000         800,000         -350,000         10,150,000           Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	Lyrical-OTRS Realty Partner IV	54,127,810				-3,016,328	51,111,482
Starw ood Opportunity X         7,416,320         54,763         7,471,083           Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	Oaktree Real Estate IX						
Starw ood Opportunity XI         51,926,318         1,116,648         1,283,693         -1,888,107         52,438,552           Starw ood XII         84,163,033         1,946,565         86,109,598	Property ACQ Fund	10,050,000	-350,000	800,000		-350,000	10,150,000
Starw ood XII 84,163,033 1,946,565 86,109,598	Starw ood Opportunity X	7,416,320				54,763	7,471,083
	Starw ood Opportunity XI	51,926,318	1,116,648	1,283,693		-1,888,107	52,438,552
TPG Real Estate IV 15,980,543 6,891,778 -733,811 22,138,510	Starw ood XII	84,163,033				1,946,565	86,109,598
	TPG Real Estate IV	15,980,543	6,891,778			-733,811	22,138,510

Source: Northern Trust

<sup>\*</sup> Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.



### TRSOK - Financial Reconciliation Report - Fiscal YTD

	06/30/2024					09/30/2024
Account/Group	Market Value	Net Contribution*	Income	Fees	Appreciation	Market Value
Private Debt	623,896,406	27,114,606	28,851		21,178,894	672,218,756
Pimco Bravo II	7,472,896				295,341	7,768,237
PIMCO Bravo III	169,611,884				-312,343	169,299,541
Pimco COF II	70,959,256				7,546,167	78,505,423
Private Credit Fund O, LLC	196,736,838	27,114,606	22,028		7,813,718	231,687,190
Scissor-Tail Credit Fund, LLC	179,115,532		6,823		5,836,011	184,958,366
Total Cash	281,214,678	183,651,375	5,534,351	777,843	-674,934	469,725,470
Custom Cash Flow	281,214,678	183,651,375	5,534,351	777,843	-674,934	469,725,470
Terminated / Misc. Managers	14,020,320	945,324	2,080,853	949	-917,582	16,128,914
OTRS-TAX RECLAIM & MISC.	14,020,320	945,324	2,080,853	949	-917,582	16,128,914

<sup>\*</sup> Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.



### TRSOK - Financial Reconciliation Report - YTD

	12/31/2023					09/30/2024
Account/Group	Market Value	Net Contribution*	Income	Fees	Appreciation	Market Value
Oklahoma Teachers	21,748,187,132	-96,939,991	471,443,073	18,611,701	1,941,704,322	24,064,394,535
Total Equity	12,631,926,561	-470,000,000	205,245,214	8,077,868	1,920,665,524	14,287,837,299
Total Domestic Equity	8,781,242,200	-471,514,070	105,115,602	4,673,675	1,513,411,657	9,928,255,390
Domestic Transition	1,521,053	-1,514,070	-166,836		167,125	7,271
Transition Account	6,983		294		-6	7,271
Domestic Equity Active	964,507,429		7,791,142	3,002,876	141,756,205	1,114,054,775
Domestic Equity Active Mid	-					-
Domestic Equity Active Small	964,507,429		7,791,142	3,002,876	141,756,205	1,114,054,775
Frontier Cap Small Cap	512,328,682		6,309,975	1,719,052	72,952,048	591,590,705
Geneva Capital	452,178,747		1,481,167	1,283,824	68,804,157	522,464,071
Domestic Equity Indexed	7,815,213,719	-470,000,000	97,491,297	1,670,799	1,371,488,327	8,814,193,343
Domestic Equity Index Cap Wgt	5,409,576,580	-220,000,000	62,739,498	480,263	1,051,212,727	6,303,528,805
NT Russell 3000	5,409,576,580	-220,000,000	62,739,498	480,263	1,051,212,727	6,303,528,805
Domestic Equity Indexed NonCap	2,405,637,138	-250,000,000	34,751,799	1,190,537	320,275,600	2,510,664,538
Sci Beta US HFE MBMS	2,405,637,138	-250,000,000	34,751,799	1,190,537	320,275,600	2,510,664,538
Total International Equity	3,850,684,360	1,514,070	100,129,611	3,404,193	407,253,867	4,359,581,909
International Large Cap	3,850,684,360	10,234,598	99,546,119	3,404,193	397,902,509	4,358,367,586
ACWI ex-US ex-China	2,975,879,085	-750,031,950	74,336,506	708,459	286,321,171	2,586,504,812
Arrow street Intl Equity	-	760,266,547	2,355,353		17,051,808	779,673,708
Causew ay Capital	356,046,752	-	10,462,300	971,809	50,316,578	416,825,631
Harding Loevner Intl Eq	518,755,457		12,391,961	1,723,925	44,212,952	575,360,369
TOK121 SANCTIONED ASSET	3,066					3,066
International Small Cap	-					-
International Transition		-8,720,527	583,492		9,351,358	1,214,323
Global Transition	1,514,070	-10,234,598	416,362		9,518,488	1,214,323
Total Fixed Income	5,136,664,792	-814,886	204,989,017	6,834,950	121,878,908	5,462,717,831
Core Fixed Income	5,136,664,792	-814,886	204,989,017	6,834,950	121,878,908	5,462,717,831
Core Plus Fixed Income	4,429,931,730	-814,886	189,119,963	6,484,474	123,729,289	4,741,966,097
Loomis Sayles Core Plus	1,508,413,849	-10,475	56,457,099	2,518,754	49,266,120	1,614,126,592
Lord Abbett Core Plus	1,439,904,478		65,914,521	1,676,870	28,505,046	1,534,324,046
Mackay Shields Core Plus	1,481,613,403	-804,411	66,748,343	2,288,850	45,958,123	1,593,515,459
Active Duration Fixed Income	706,733,062		15,869,054	350,475	-1,850,381	720,751,734
Hoisington Investment	706,733,062		15,869,054	350,475	-1,850,381	720,751,734
Total Alternative Assets	3,661,196,769	225,891,343	41,050,996	2,913,093	-100,154,088	3,827,985,021
Private Capital	1,829,438,641	-304,781,083			27,592,139	1,552,249,696

Source: Northern Trust

<sup>\*</sup> Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.



### TRSOK - Financial Reconciliation Report - YTD

Account/Group	12/31/2023 Market Value	Net Contribution*	Income	Fees	Appreciation	09/30/2024 Market Value
Private Equity	1,568,214,185	-48,076,191	income	1 663	32,111,703	1,552,249,696
Franklin Park	1,562,182,716	-46,933,001			33,262,953	1,548,512,667
Legacy LP	6,031,469	-1,143,190			-1,151,250	3,737,029
Special Opportunities	261,224,456	-256,704,892			-4,519,564	0,707,020
Pimco Bravo II	7,291,130	-7,692,418			401,288	7,768,237
PIMCO Bravo III	172,877,934	-171,565,017			-1,312,917	169,299,541
Pimco COF II	81,055,392	-77,447,457			-3,607,935	78,505,423
Total Real Estate			44 000 942	2,913,093		
	1,633,730,847	86,794,936	41,009,813	<u>·</u>	-158,019,028	1,603,516,568
Core Real Estate	796,417,777	-20,176,213	34,750,922	1,990,890	-72,278,951	738,713,535
AEW Core Property Trust	394,555,177	-11,046,574	11,046,574		-22,542,356	372,012,820
Heitman America Real Estate	401,841,321	-9,129,639	23,704,348	1,990,890	-49,860,041	366,555,989
L&B Core Income	21,280				123,446	144,726
Non-Core Real Estate	837,313,069	106,971,150	6,258,891	922,203	-85,740,077	864,803,033
AGXI Non-Core Real Estate	19,839,907	10,876,799	314,642		-477,870	30,553,478
American Strategic Value	122,306,603		2,017,739	922,203	-11,449,136	112,875,206
Angelo Gordon VAL FD X	42,805,697	-1,302,753	168,000		-2,366,468	39,304,476
Artemis Real Estate III	33,621,703	-1,262,004			-255,684	32,104,015
Artemis Real Estate IV	5,160,898	9,324,377	21,312		161,912	14,668,499
Blackstone Real Estate X	4,025,881	21,076,899	658		385,919	25,489,358
Dune Real Estate III	11,654,851	-826,909			579,897	11,407,839
Dune Real Estate IV	54,830,679	4,558,695			-1,643,579	57,745,795
EQT Exeter Ind Value VI	10,000,000	15,000,000			-1,500,188	23,499,812
FCP Realty Fund IV, L.P.	40,910,450				-130,667	40,779,783
FCP Realty Fund V	85,448,059	9,930,807			-4,149,438	91,229,428
GreenOak US II	19,281,369				-13,933,281	5,348,088
GreenOak US III	44,447,743	4,061,140			-9,401,797	39,107,086
Harbert European Real Estate V	38,661,758	-801,963	596,707		898,253	39,354,755
Invesco Real Estate VI	51,639,303	5,366,351	98,489		-6,226,559	50,877,584
Invesco Strategic Opportunity	16,411,136	-5,559,095			-320,988	10,531,053
L&B Golden Driller	36,020,200				-35,977,907	42,293
Landmark Real Estate IX	. ,	8,715,952			-2,775,312	5,940,640
Landmark Real Estate VII	4,600,496	, ,			-75,876	4,524,620
Lyrical-OTRS Realty Partner IV	55,011,208				-3,899,726	51,111,482
Oaktree Real Estate IX						5.,,102
Property ACQ Fund	9,425,000	-800,000	800,000		725,000	10,150,000

Source: Northern Trust

<sup>\*</sup> Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.



# TRSOK - Financial Reconciliation Report - YTD

Market Value	Net Contribution*	1	_		
40.070.000		Income	Fees	Appreciation	Market Value
10,279,289	-880,269	957,651		-2,885,588	7,471,083
50,704,594	1,116,648	1,283,693		-666,383	52,438,552
75,595,571				10,514,027	86,109,598
4,630,674	18,376,474			-868,638	22,138,510
198,027,282	443,877,490	41,182		30,272,802	672,218,756
-	7,692,418			75,819	7,768,237
-	171,565,017			-2,265,476	169,299,541
-	77,447,457			1,057,966	78,505,423
79,956,011	135,326,727	34,359		16,370,093	231,687,190
118,071,271	51,845,871	6,823		15,034,401	184,958,366
304,771,571	147,035,352	18,279,113	781,466	-360,567	469,725,470
304,771,571	147,035,352	18,279,113	781,466	-360,567	469,725,470
13,627,439	948,199	1,878,733	4,323	-325,456	16,128,914
13,627,439	948,199	1,878,733	4,323	-325,456	16,128,914
	50,704,594 75,595,571 4,630,674 198,027,282 79,956,011 118,071,271 304,771,571 304,771,571 13,627,439	50,704,594       1,116,648         75,595,571       18,376,474         4,630,674       18,377,490         -       7,692,418         -       171,565,017         -       77,447,457         79,956,011       135,326,727         118,071,271       51,845,871         304,771,571       147,035,352         304,771,571       147,035,352         13,627,439       948,199	50,704,594       1,116,648       1,283,693         75,595,571       4,630,674       18,376,474         198,027,282       443,877,490       41,182         -       7,692,418         -       171,565,017         -       77,447,457         79,956,011       135,326,727       34,359         118,071,271       51,845,871       6,823         304,771,571       147,035,352       18,279,113         304,771,571       147,035,352       18,279,113         13,627,439       948,199       1,878,733	50,704,594       1,116,648       1,283,693         75,595,571       4,630,674       18,376,474         198,027,282       443,877,490       41,182         -       7,692,418         -       171,565,017         -       77,447,457         79,956,011       135,326,727       34,359         118,071,271       51,845,871       6,823         304,771,571       147,035,352       18,279,113       781,466         304,771,571       147,035,352       18,279,113       781,466         13,627,439       948,199       1,878,733       4,323	50,704,594       1,116,648       1,283,693       -666,383         75,595,571       10,514,027         4,630,674       18,376,474       -868,638         198,027,282       443,877,490       41,182       30,272,802         -       7,692,418       75,819         -       171,565,017       -2,265,476         -       77,447,457       1,057,966         79,956,011       135,326,727       34,359       16,370,093         118,071,271       51,845,871       6,823       15,034,401         304,771,571       147,035,352       18,279,113       781,466       -360,567         304,771,571       147,035,352       18,279,113       781,466       -360,567         13,627,439       948,199       1,878,733       4,323       -325,456

Source: Northern Trust

<sup>\*</sup> Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.



# **Benchmark History**

#### As of September 30, 2024

From Date	To Date	Benchmark
Total Fund		
07/01/2024	Present	41.80% Russell 3000 Index, 18.20% MSCI AC World ex USA (Net), 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 7.00% 50% ODCE + 50% ODCE + 1%, 8.00% PE Benchmark Russell 3k + MSCI ACWI ex USA + 2.5% (1 Qtr. Lag), 3.00% Morningstar LSTA US Leveraged Loan 100 Index + 3%
04/01/2024	07/01/2024	43.20% Russell 3000 Index, 18.80% MSCI AC World ex USA (Net), 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 7.00% 50% ODCE + 50% ODCE + 1%, 8.00% PE Benchmark Russell 3k + MSCI ACWI ex USA + 2.5% (1 Qtr. Lag), 1.00% Morningstar LSTA US Leveraged Loan 100 Index + 3%
10/01/2023	04/01/2024	42.50% Russell 3000 Index, 18.50% MSCI AC World ex USA (Net), 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% 50% ODCE + 50% ODCE + 1%, 8.00% PE Benchmark Russell 3k + MSCI ACWI ex USA + 2.5% (1 Qtr. Lag), 1.00% Morningstar LSTA US Leveraged Loan 100 Index + 3%
07/01/2023	10/01/2023	43.20% Russell 3000 Index, 18.80% MSCI AC World ex USA (Net), 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% Private Equity 0% return, 8.00% 50% ODCE + 50% ODCE + 1%
04/01/2023	07/01/2023	42.80% Russell 3000 Index, 18.70% MSCI AC World ex USA IMI, 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% Russell 2000 + 4%, 8.50% 50% ODCE + 50% ODCE + 1%
10/01/2022	04/01/2023	42.50% Russell 3000 Index, 18.50% MSCI AC World ex USA IMI, 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% Russell 2000 + 4%, 9.00% 50% ODCE + 50% ODCE + 1%
07/01/2022	10/01/2022	42.80% Russell 3000 Index, 18.70% MSCI AC World ex USA IMI, 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% Russell 2000 + 4%, 8.50% 50% ODCE + 50% ODCE + 1%
04/01/2022	07/01/2022	43.90% Russell 3000 Index, 19.10% MSCI AC World ex USA IMI, 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% Russell 2000 + 4%, 7.00% 50% ODCE + 50% ODCE + 1%
02/01/2022	04/01/2022	44.60% Russell 3000 Index, 19.40% MSCI AC World ex USA IMI, 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 8.00% Russell 2000 + 4%, 6.00% 50% ODCE + 50% ODCE + 1%
10/01/2019	02/01/2022	43.50% Russell 3000 Index, 19.00% MSCI AC World ex USA IMI, 22.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 6.50% Russell 2000 + 4%, 9.00% NCREIF Property Index
04/01/2017	10/01/2019	38.50% Russell 3000 Index, 19.00% MSCI AC World ex USA IMI, 23.50% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 5.00% Russell 2000 + 4%, 9.00% NCREIF Property Index, 5.00% Alerian MLP Index
10/01/2016	04/01/2017	40.00% Russell 3000 Index, 17.50% MSCI AC World ex USA IMI, 23.50% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained, 5.00% Russell 2000 + 4%, 7.00% NCREIF Property Index, 7.00% Alerian MLP Index
02/01/2001	10/01/2016	17.00% Russell 1000 Index, 13.00% Russell Midcap Index, 10.00% Russell 2000 Index, 17.50% MSCI AC World ex USA (Net), 17.50% Blmbg. U.S. Aggregate Index, 5.00% Russell 1000 + 4%, 7.00% NCREIF Fund Index-Open End Diversified Core Equity (VW) (Monthly Proxy), 7.00% Alerian MLP Index, 6.00% ICE BofA U.S. High Yield Index
<b>Total Equities Cor</b>	mposite	
07/01/2023	Present	70.00% Russell 3000 Index, 30.00% MSCI AC World ex USA (Net)
02/01/2022	07/01/2023	70.00% Russell 3000 Index, 30.00% MSCI AC World ex USA IMI

67.00% Russell 3000 Index, 33.00% MSCI AC World ex USA IMI



06/01/1994

02/01/2022

# **Benchmark History**

## As of September 30, 2024

To Date

From Date

04/01/1990	06/01/1994	100.00% Russell 3000 Index	
Total U.S. Equities	s Composite		
01/01/1979	Present	100.00% Russell 3000 Index	
Total International	<b>Equities Composite</b>		
07/01/2023	Present	100.00% MSCI AC World ex USA (Net)	
01/01/1988	07/01/2023	100.00% MSCI AC World ex USA IMI	
Causeway Intl Opp	portunities Policy		
10/01/2016	Present	100.00% MSCI AC World ex USA Value	
01/01/1988	10/01/2016	100.00% MSCI AC World ex USA Index	
Total Fixed Income	e Composite		
01/01/1997	Present	100.00% 70% Bloomberg Barclays Agg / 30% ICE HY Constrained	
Total Fixed Income	e Core Plus Policy		
09/01/2019	Present	70.00% Blmbg. U.S. Aggregate Index, 30.00% ICE BofA U.S. High Yield Index	
12/01/2018	09/01/2019	70.00% Blmbg. U.S. Universal Index, 30.00% ICE BofA U.S. High Yield Index	
10/01/2016	12/01/2018	100.00% Blmbg. U.S. Universal Index	
01/01/1976	10/01/2016	100.00% Blmbg. U.S. Aggregate Index	
Total Fixed Income	e Active Duration Po	olicy	
10/01/2016	Present	100.00% Blmbg. U.S. Treasury Index	
01/01/1976	10/01/2016	100.00% Blmbg. U.S. Aggregate Index	
Total Real Estate	Composite		
02/01/2022	Present	100.00% 50% ODCE + 50% ODCE + 1%	
01/01/1978	02/01/2022	100.00% NCREIF Property Index	
Total Core Real Es	Total Core Real Estate Composite		
02/01/2022	Present	100.00% NCREIF-ODCE	
01/01/1978	02/01/2022	100.00% NCREIF Fund Index-ODCE (VW) (Net)	
Total Non-Core Re	Total Non-Core Real Estate Composite		
02/01/2022	Present	100.00% NCREIF ODCE + 1%	
07/01/2014	02/01/2022	100.00% NCREIF Property Index	
Total Private Inves	Total Private Investments Composite		

**Benchmark** 



# **Benchmark History**

#### As of September 30, 2024

From Date	To Date	Benchmark
10/01/2023	Present	100.00% PE Benchmark Russell 3k + MSCI ACWI ex USA + 2.5% (1 Qtr. Lag)
07/01/2023	10/01/2023	100.00% Private Equity 0% return
01/01/1979	07/01/2023	100.00% Russell 2000 + 4%

#### Total Private Debt Composite

06/01/2023 Present 100.00% Morningstar LSTA US Leveraged Loan 100 Index + 3%



Name	Description
Bloomberg U.S. Corporate High Yield Bond Index	An index that covers the USD-dominated, non-investment grade, fixed rate, taxable corporate bond market. Debt issues from emerging market countries are excluded. Securities are classified as high-yield if the middle rating is Ba1/BB+ or below.
Bloomberg Emerging Markets Index	An unmanaged index that tracks total returns for external-currency-denominated debt instruments of the emerging markets.
Bloomberg Global Aggregate	Provides a broad-based measure of the global investment-grade fixed income markets. The three major components of this index are the U.S. Aggregate, the Pan-European Aggregate, and the Asian-Pacific Aggregate Indices. The index also includes Eurodollar and Euro-Yen corporate bonds, Canadian government, agency and corporate securities, and USD investment grade 144A securities.
Bloomberg Global Treasury Ex-US	The Global Treasury ex US Index is a subset of the flagship Global Treasury Index that does not have any exposure to US debt. This multi-currency benchmark includes investment grade, fixed-rate bonds issued by governments in their native currencies.
Bloomberg Universal Index	A market value-weighted index which is the union of the U.S. Aggregate Index, U.S. High Yield Corporate Index, Eurodollar Index, U.S. Emerging Markets Index and the CMBS High Yield Index. The Index is appropriate for core plus fixed income mandates.
Bloomberg U.S. Government Index	A market value weighted index of U.S. government and government agency securities (other than mortgage securities) with maturities of one year or more.
Bloomberg U.S. Government/Credit Index	A subcomponent of the Capital Aggregate Index, this benchmark includes treasury securities, government related issues, and high-quality corporate bonds with an outstanding par value of \$250 million or greater and at least one year of maturity remaining.
Bloomberg U.S. High Yield Index	An index composed of non-investment grade corporate debt denominated in U.S. dollars. The issues have to have an outstanding par value of \$150 million or greater and at least one year of maturity remaining.
Bloomberg U.S. Inflation Index	Measures the performance of the U.S. Treasury Inflation Protected Securities ("TIPS") market.
Bloomberg U.S. Intermediate Aggregate Bond Index	A market value-weighted index consisting of U.S. Treasury securities, corporate bonds and mortgage-related and asset-backed securities with one to ten years to maturity and an outstanding par value of \$250 million or greater
Bloomberg U.S. Intermediate Government/Credit Index	A market-value weighted index consisting of government bonds and SEC-registered corporate bonds with one to ten years to maturity and an outstanding par value of \$150 million or greater.
Bloomberg U.S. Intermediate Government Bond Index	An unmanaged index considered representative of intermediate- term fixed-income obligations issued by the U.S. treasury, government agencies and quasi-federal corporations.



Name	Description
Bloomberg U.S. Intermediate Treasury	An unmanaged index considered representative of intermediate-term fixed- income obligations issued by the U.S. treasury.
Bloomberg U.S. Aggregate Bond Index	A market value-weighted index consisting of government bonds, SEC-registered corporate bonds and mortgage-related and asset-backed securities with at least one year to maturity and an outstanding par value of \$250 million or greater. This index is a broad measure of the performance of the investment grade U.S. fixed income market.
Bloomberg U.S. Long Credit Bond Index	An unmanaged index considered representative of long-term fixed-income obligations issued by U.S. corporate, specified foreign debentures, and secured notes that meet the specified maturity, liquidity, and quality requirements. To qualify, bonds must be SEC-registered.
Bloomberg U.S. Long Government/Credit Index	The Capital U.S. Government/ Credit Bond Index measures performance of U.S. dollar denominated U.S. treasuries, government-related, and investment grade U.S. corporate securities that have a remaining maturity of greater than or equal to 1 year. In addition, the securities have \$250 million or more of outstanding face value, and must be fixed rate and non-convertible.
Bloomberg U.S. Long-Term Government Bond Index	An unmanaged index considered representative of long-term fixed- income obligations issued by the U.S. treasury, government agencies and quasi-federal corporations.
Bloomberg U.S. TIPS	A market value-weighted index consisting of U.S. Treasury Inflation Protected Securities with one or more years remaining until maturity with total outstanding issue size of \$500m or more.
Bloomberg U.S. Treasury 20-30 Year STRIPS Index	A subcomponent of the Aggregate Index, this benchmark includes long-term treasury STRIPS.
Bloomberg Commodity Index	Consists of 22 exchange-traded futures on physical commodities, which are weighted to account for economic significance and market liquidity. Performance is calculated on an excess return basis and reflects commodity future price movements.
BofA Merrill Lynch 3 Month Treasury Bill	An index that measures the average return of the last three-month U.S. Treasury Bill issues .
BofA Merrill Lynch High Yield Master	A market capitalization-weighted index that tracks the performance of U.S. dollar- denominated, below investment grade corporate debt publicly issued in the U.S. domestic market.



Name	Description
Citigroup 90-Day T-Bill Index	An index that measures the average return of the last three-month U.S. Treasury Bill issues
CRSP US Large Growth Cap Index	An index comprised of nearly 330 US large cap growth companies and includes securities traded on NYSE, NYSEMarket, NASDAQ, or ARCA, representing nearly 45% of the U.S. investable equity market. The index is reconstituted quarterly after the market close on the third Fridays of March, June, September, and December. CRSP classifies growth securities using the following factors: future long-term growth in earnings per share (EPS), future short-term growth in EPS, 3-year historical growth in EPS, 3-year historical growth in sales per share, current investment-to-assets ratio, and return on assets.
CRSP US Total Market Index	An index comprised of nearly 4,000 constituents across mega, large, small, and micro capitalizations and includes securities traded on NYSE, NYSE Market, NASDAQ, or ARCA, representing nearly 100% of the U.S. investable equity market. The index is reconstituted quarterly after the market close on the third Fridays of March, June, September, and December.
Credit Suisse Leveraged Loan Index	Designed to mirror the investable universe of the U.S. dollar denominated leveraged loan market.
DJ U.S. Completion Total Stock Market Index	A capitalization-weighted index that consists of the stocks in the Dow Jones U.S. Total Stock Market Index less the stocks in the S&P 500 Stock Index.
DJ U.S. Total Stock Market Index	A capitalization-weighted stock index representing all domestic common stocks traded regularly on the organized exchanges. The index is the broadest measure of the aggregate domestic stock market and includes approximately 5,000 stocks.
FTSE 4Good U.S. Select Index	A socially responsible investment (SRI) index of US stocks that excludes companies with certain business activities such as weapons, tobacco, gambling, alcohol, nuclear power, and adult entertainment
FTSE All-World ex-U.S. Index	A capitalization-weighted stock index representing 46 developed market countries and emerging market countries excluding the U.S.
FTSE EPRA NAREIT Global ex-U.S. Index	Designed to represent general trends in eligible real estate equities worldwide. Relevant real estate activities are defined as the ownership, disposure and development of income-producing real estate.
FTSE Global All Cap ex US Index	A market-capitalization weighted index representing the performance of roughly 5350 large, mid and small cap companies in 46 Developed and Emerging markets worldwide, excluding the USA.
FTSE Global Core Infrastructure Index	Represents the performance of infrastructure and infrastructure-related securities companies in a set of industries that FTSE defines as being involved in infrastructure. The series is based on the FTSE Global Equity Index Series and both developed and emerging markets are included.



Name	Description
FTSE NAREIT U.S. Equity REITS	Free float adjusted, market capitalization weighted index of US based equity real estate investment trusts (REITs).
Goldman Sachs Commodity Index	A composite index of commodity sector returns which represents a broadly diversified, unleveraged, long-only position in commodity futures.
HFR Fund-of-Fund Index.	This index is equity-weighted including 800 constituents. It includes both domestic and offshore accounts and is valued in U.S. dollars. Only fund-of-fund products are included in the index that have at least \$50 million under managements and have been actively trading for at least one year. All funds report net returns on a monthly basis.
HFRI Fund Weighted Composite Index	The HFRI Fund Weighted Composite Index is a global, equal-weighted index of over 2,000 single-manager funds that report to HFR Database. Constituent funds report monthly net of all fees performance in US Dollar and have a minimum of \$50 Million under management or a twelve (12) month track record of active performance. The HFRI Fund Weighted Composite Index does not include Funds of Hedge Funds.
Hueler Stable Value Index	The Hueler Analytics Stable Value Pooled Fund Comparative Universe represents investment strategies of \$96 billion in stable value assets, across 24 pooled funds, invested in contracts universe across a universe of 16 general account issuers and 14 synthetic wrap providers. The allocation of pooled fund assets is dominated by synthetic contracts issued by insurance companies and banks.
J.P. Morgan EMBI Global Diversified	Comprised of dollar-denominated Brady bonds, traded loans and Eurobonds issued by emerging market sovereign and quasi-sovereign entities. The Diversified version limits the weights of the index countries by only including a specified portion of those countries' eligible current face amounts of debt outstanding, providing for a more even distribution of weights within the countries in the index.
iMoneyNet All Taxable Money Funds Index	An index made up of the entire universe of money market mutual funds. The index currently represents over 1,300 funds, or approximately 99 percent of all money fund assets.
iMoneyNet Money Fund Average.	An index made up of the entire universe of money market mutual funds. The index currently represents over 1,300 funds, or approximately 99 percent of all money fund assets.
MSCI All Country World ex-U.S. Index	A capitalization-weighted index of stocks representing 44 stock markets in Europe, Australia, the Far East, the Middle East, Latin America and North America. Index consists of 23 developed and 21 emerging countries, but excludes the U.S.
MSCI All Country World ex-U.S. Index IMI	A capitalization-weighted index of large, mid and small cap stocks representing 22 developed (excluding the United States) and 24 emerging market countries. The index is the broadest measure of the aggregate non-US stock market, covering approximately 99% of the global equity investment opportunity set outside of the United States.



Name	Description
MSCI All Country World ex-U.S. Small Cap Index	Covers all investable small cap securities with a market capitalization below that of the companies in the MSCI Standard Indices (excluding U.S.), and target approximately 14% of each market's free-float adjusted market capitalization.
MSCI All Country World Index IMI	A capitalization-weighted index of large, mid and small cap stocks representing 23 developed and 24 emerging market countries. The index is the broadest measure of the aggregate global stock market, covering approximately 99% of the global equity investment opportunity set.
MSCI All Country World Index	A capitalization-weighted index of stocks representing 46 stock markets in Europe, Australia, the Far East, the Middle East, Latin America and North America.
MSCI EAFE Growth Index	A capitalization-weighted index of 21 stock markets in Europe, Australia, Asia and the Far East designed to capture the growth-oriented companies.
MSCI EAFE Small Cap Index	A capitalization-weighted index of small cap stocks representing 23 developed country markets in Europe, Australia, Asia, and the Far East.
MSCI EAFE Value Index	A capitalization-weighted index of 21 stock markets in Europe, Australia, Asia and the Far East designed to capture the value-oriented companies.
MSCI Emerging Markets Index	A capitalization-weighted index of stocks representing 22 emerging country markets.
MSCI U.S. Broad Market Index	A capitalization-weighted stock index that aggregates the MSCI U.S. Large Cap 300, Mid Cap 450, Small Cap 1,750 and Micro-Cap Indices. This index represents approximately 99.5% of the capitalization of the U.S. Equity market and includes approximately 3,562 companies.
MSCI U.S. REIT Index	A broad index that fairly represents the equity REIT opportunity set with proper invest ability screens to ensure that the index is investable and replicable. The index represents approximately 85% of the U.S. REIT universe
MSCI World Index	A free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed markets, representing 24 developed market country indices.
NCREIF Property Index	NCREIF Property Index - A capitalization-weighted index of privately owned investment grade income-producing properties representing approximately \$269 billion in assets.



Name	Description
NFI ODCE Index	NFI ODCE Index - A capitalization weighted index comprised of open-end, Core funds investing in commercial real estate properties. The funds that constitute the index are subject to certain geographic and property type diversification requirements as well as leverage restrictions. The index reflects the impact of leverage on investment results. The returns shown in this report are net of management fees of the respective funds included in the index.
Rolling 3-year Constant Maturity Treasury Index	An index published by the Federal Reserve Board based on the monthly average yield of a range of Treasury securities, all adjusted to the equivalent of a three-year maturity.
Russell 1000 Growth Index	An index that measures the performance of those Russell 1000 companies with higher price-to- book ratios and higher I/B/E/S growth forecasts.
Russell 1000 Index	A capitalization-weighted index of the 1,000 largest publicly traded U.S. stocks by capitalization.
Russell 1000 Value Index.	An index that measures the performance of those stocks included in the Russell 1000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
Russell 2000 Growth Index	A capitalization-weighted index of those stocks in the Russell 2000 Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
Russell 2000 Index	A capitalization-weighted index of the smallest 2,000 stocks in the Russell 3000 Index. The index excludes the largest-and smallest-capitalization issues in the domestic stock market.
Russell 2000 Value Index	An index that measures the performance of those stocks included in the Russell 2000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
Russell 2500 Growth Index	A capitalization-weighted index representing those companies within the Russell 2500 Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
Russell 2500 Index	The Index is constructed by first identifying the 3,000 largest-capitalization U.S. stocks and ranking them by market capitalizations, choosing the bottom 2,500 names on the list.
Russell 2500 Value Index.	an index that measures the performance of those stocks included in the Russell 2500 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.



Name	Description
Russell 3000 Growth Index	A capitalization-weighted index consisting of those Russell 3000 Index stocks that have higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
Russell 3000 Index	A capitalization-weighted index consisting of the 3,000 largest publicly traded U.S. stocks by capitalization. This index is a broad measure of the performance of the aggregate domestic equity market.
Russell 3000 Value Index	A capitalization-weighted index consisting of those Russell 3000 Index stocks that have lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
Russell Mid Cap Growth Index	A capitalization-weighted index representing those stocks in the Russell MidCap Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
Russell Mid Cap Value Index	A capitalization-weighted index consisting of those Russell MidCap Index stocks that have lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
S&P 500 Index	A capitalization-weighted index representing stocks chosen by Standard & Poor's, Inc. for their size, liquidity, stability and industry group representation. The companies in the S&P 500 Index are generally among the largest in their industries.
S&P Completion Index	The S&P Completion Index is a sub-index of the S&P Total Market Index, including all stocks eligible for the S&P TMI and excluding all current constituents of the S&P 500. The index covers approximately 4,000 constituents, offering investors broad exposure to mid, small, and micro-cap companies.
S&P GSCI®	Both the first major investable commodity index and one of the most widely recognized benchmarks, the S&P GSCI® is broad-based, production weighted, and meant to be representative of the global commodity market beta.
S&P Leverage Loan Index	A daily total return index that uses LSTA/LPC Mark-to-Market Pricing to calculate market value change.
S&P Midcap 400 Index	A market-capitalization-weighted index of stocks in all major industries in the mid-range of the U.S. stock market.
Wilshire REIT	A measure of the types of U.S. real estate securities that represent the ownership and operation of commercial or residential real estate. To be included in the index, a company must have a market capitalization of \$200 million and have at least 75% of the total revenue derived from the ownership and operation of the real estate assets.

- Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect our fees or expenses.
- Past performance is no guarantee of future results.



#### Notes

- All of the investment managers' market values and returns are calculated and provided by Northern Trust.
- The rates of return contained in this report are shown on an after-fees basis unless otherwise noted. They are geometric and time-weighted. Returns for periods longer than one year are annualized.
- Universe percentiles are based upon an ordering system in which 1 is the best ranking and 100 is the worst ranking.
- Due to rounding throughout the report, percentage totals displayed may not sum to 100%. Additionally, individual fund totals in dollar terms may not sum to the plan total.
- The information provided was not prepared, reviewed, or approved by the General Partner, the Partnership or any affiliates of same and should not be relied upon by any other party.
- The Total Fund Policy Allocation Benchmark utilizes the monthly asset allocation weights of each asset class benchmark and is shown as a reference. As of September 30, 2024, the Policy Allocation Benchmark composition was 42.13% Russell 3000 Index, 18.13% MSCI AC World ex USA (Net), 22.69% 70% Bloomberg Aggregate / 30% ICE HY Constrained, 0.96% 90 Day U.S. Treasury Bill, 6.95% 50% ODCE + 50% ODCE + 1%, 6.67% PE Benchmark Russell 3k + MSCI ACWI ex USA + 2.5% (1 Qtr. Lag), and 2.83% Morningstar LSTA US Leveraged Loan 100 Index + 3%. Longer history is available upon request.



#### **Disclaimer**

#### Past performance is not necessarily indicative of future results.

Unless otherwise noted, performance returns presented reflect the respective fund's performance as indicated. Returns may be presented on a before-fees basis (gross) or after-fees basis (net). After-fee performance is net of each respective sub-advisors' investment management fees and include the reinvestment of dividends and interest as indicated on the notes page within this report or on the asset allocation and performance summary pages. Actual returns may be reduced by Aon Investments' investments' investments advisory fees or other trust payable expenses you may incur as a client. Aon Investments' advisory fees are described in Form ADV Part 2A. Portfolio performance, characteristics and volatility also may differ from the benchmark(s) shown.

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