

RVK

Quarterly Executive Summary

Pennsylvania State Employees' Retirement System
Defined Benefit Plan

June 30, 2026

Capital Markets Review

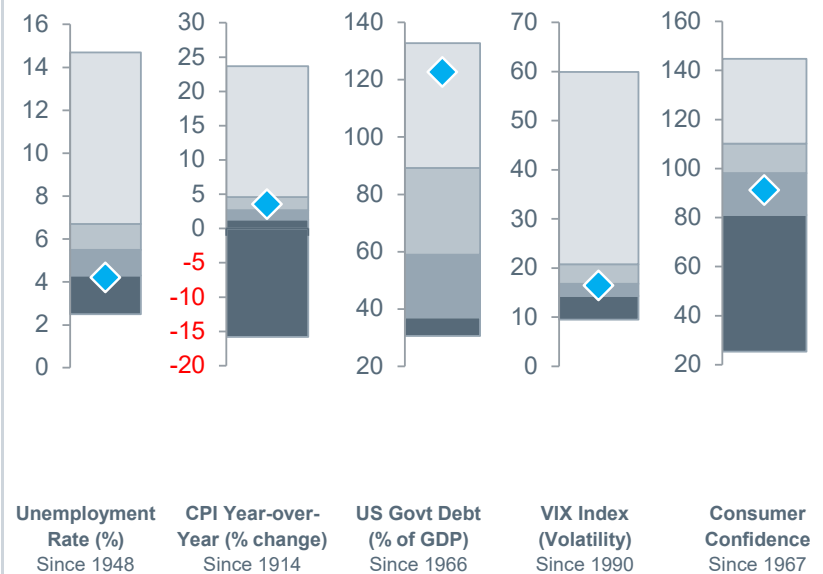
Second Quarter Economic Environment

In Q2, equity markets rallied after a volatile first quarter, supported by de-escalation of the Iran War and continued strength in spending related to artificial intelligence (AI). Global equity markets advanced broadly, though performance diverged sharply by region and asset class. US equities led developed markets, with large-cap growth and semiconductor names initially driving the advance off March's lows before breadth widened into small- and mid-cap stocks by quarter-end. In early June, the public listing of SpaceX provided another catalyst for US stock market sentiment. Growth stocks outperformed value stocks—a reversal from Q1—while small-cap stocks recovered after lagging earlier in the year. International developed markets posted positive, modest returns, trailing the US after outperforming in Q1, while emerging markets equities were the top performers. Fixed income markets ultimately posted positive returns, however, Treasury yields initially experienced volatility from shifting inflation expectations. Commodities declined meaningfully as crude oil fell sharply from its Q1 peak of nearly \$120 per barrel, while gold and silver experienced a drawdown after a rally earlier in the year. During the quarter, the US Federal Reserve entered a new leadership era as Kevin Warsh was confirmed by the Senate as the new Chairman of the Board of Governors. Inflation remained a central concern throughout the quarter, with headline Consumer Price Index (CPI) accelerating to a multiyear high in April before beginning to moderate as energy prices retreated late in the quarter. Q1 2026 real GDP growth was revised upward to 2.1%, reflecting stronger underlying momentum than recent market volatility had suggested. With unemployment remaining stable but broader labor market indicators sending mixed signals, policymakers raised their year-end inflation forecasts while trimming expectations for economic growth, underscoring the balance between elevated price pressures and the risk of slowing growth momentum.

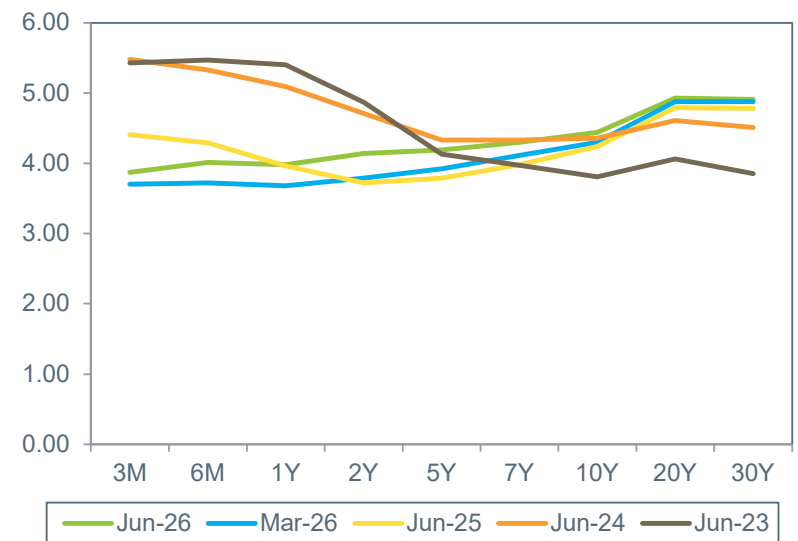
Economic Indicators	Jun-26	Mar-26	Jun-25	Jun-24	Jun-23	20 Yr
Federal Funds Rate (%)	3.63 ▼	3.64	4.33	5.33	5.08	1.65
Breakeven Infl. - 5 Yr (%)	2.26 ▼	2.60	2.31	2.24	2.17	1.90
Breakeven Infl. - 10 Yr (%)	2.25 ▼	2.31	2.28	2.27	2.21	2.07
CPI YoY (Headline) (%)	3.5 ▲	3.3	2.7	3.0	3.0	2.6
Unemployment Rate (%)	4.2 ▼	4.3	4.1	4.1	3.6	5.8
Real GDP YoY (%)	2.1 —	2.1	2.1	3.0	2.4	2.1
PMI - Manufacturing	53.3 ▲	52.7	49.0	48.5	46.0	52.5
USD Total Wtd Idx	120.89 ▼	121.04	119.83	124.52	119.71	105.28
WTI Crude Oil per Barrel (\$)	71.9 ▼	101.4	65.1	81.5	70.6	72.5
Gold Spot per Oz (\$)	4,041 ▼	4,668	3,303	2,337	1,906	1,503

Market Performance (%)	QTD	CYTD	1 Yr	3 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	15.20	10.21	22.33	20.61	13.41	15.51
Russell 2000	21.49	22.57	40.78	18.60	6.98	11.62
MSCI EAFE (Net)	10.82	9.44	20.23	16.44	9.05	9.66
MSCI EAFE SC (Net)	9.02	7.65	17.39	15.72	5.35	8.64
MSCI Emg Mkts (Net)	24.05	23.85	43.51	23.03	7.20	10.07
Bloomberg US Agg Bond	0.67	0.62	3.79	4.16	0.08	1.54
ICE BofA 3 Mo US T-Bill	0.88	1.74	3.84	4.64	3.52	2.34
NCREIF ODCE (Gross)	1.49	2.75	4.45	-0.62	2.73	4.63
FTSE NAREIT Eq REIT (TR)	12.43	17.83	21.53	12.47	5.90	6.11
HFRI FOF Comp	7.58	8.32	16.40	10.65	5.83	5.98
Bloomberg Cmnty (TR)	-8.08	14.36	25.46	11.69	9.37	5.83

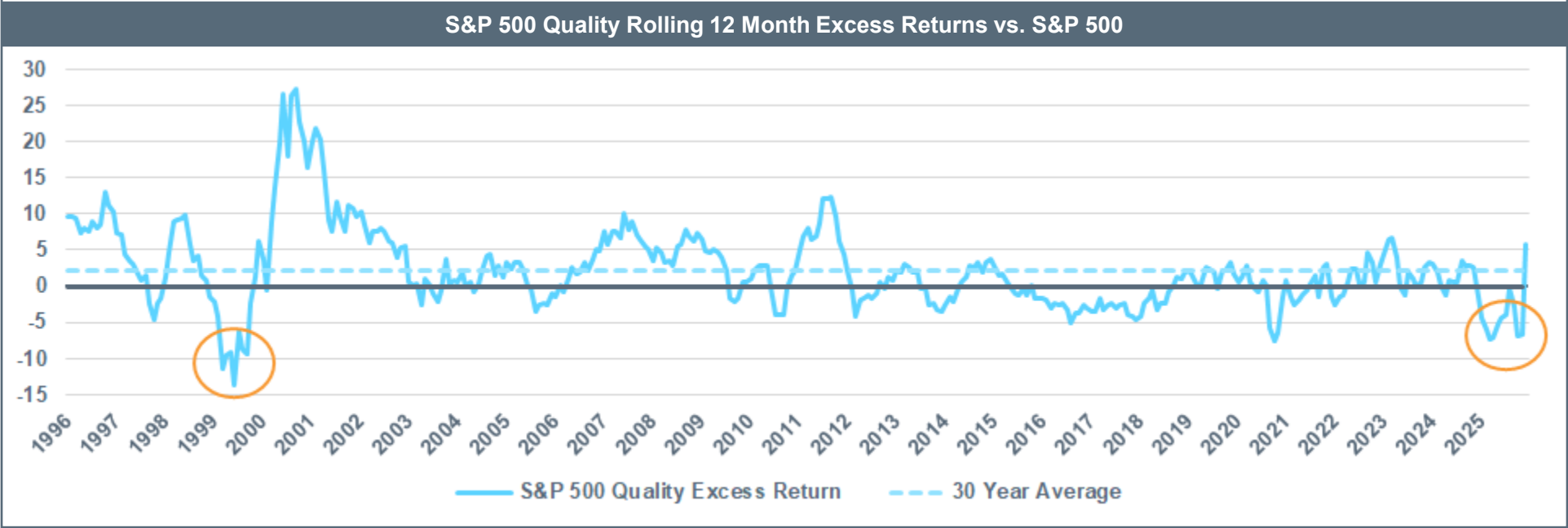
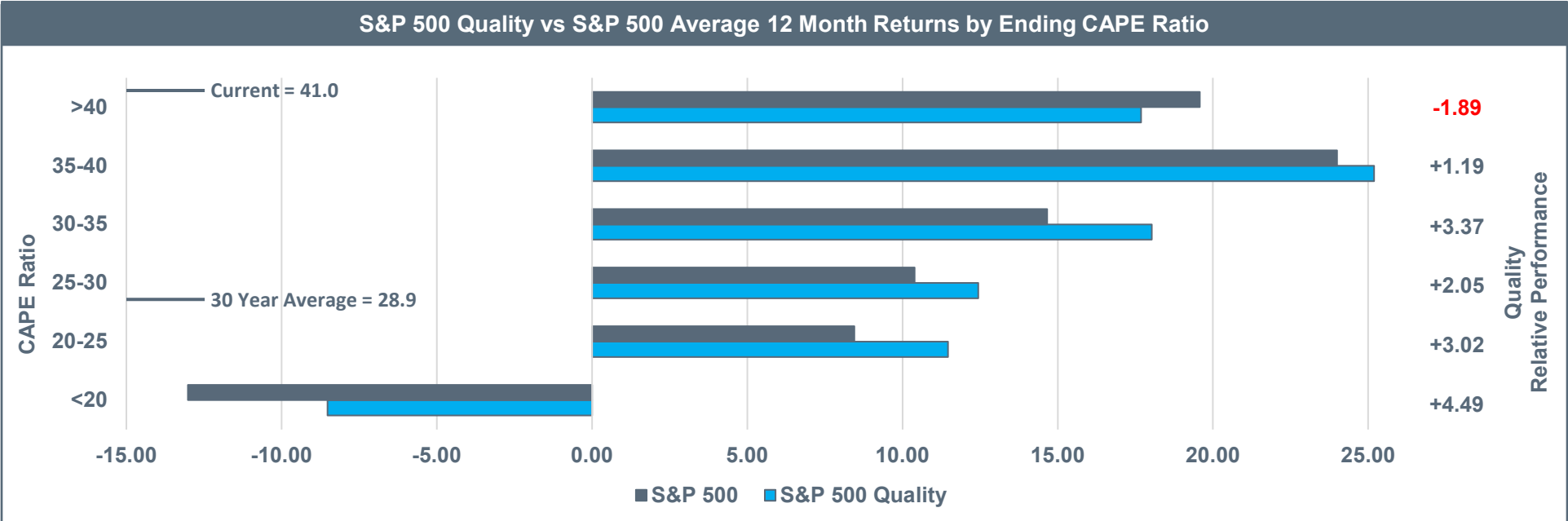
Key Economic Indicators



Treasury Yield Curve (%)



Treasury data courtesy of the US Department of the Treasury. Economic data courtesy of FactSet.



Source: FactSet.

Second Quarter Review

Broad Market

US equity markets advanced strongly to start Q2, as capital expenditures aimed at AI development continued to fuel the buildout of data centers. However, markets pulled back slightly by the end of June as core inflation ticked up, stoking concerns about future rate hikes. Despite the late-quarter weakness, the semiconductor industry, including memory chip producers, accounted for a substantial proportion of market performance.

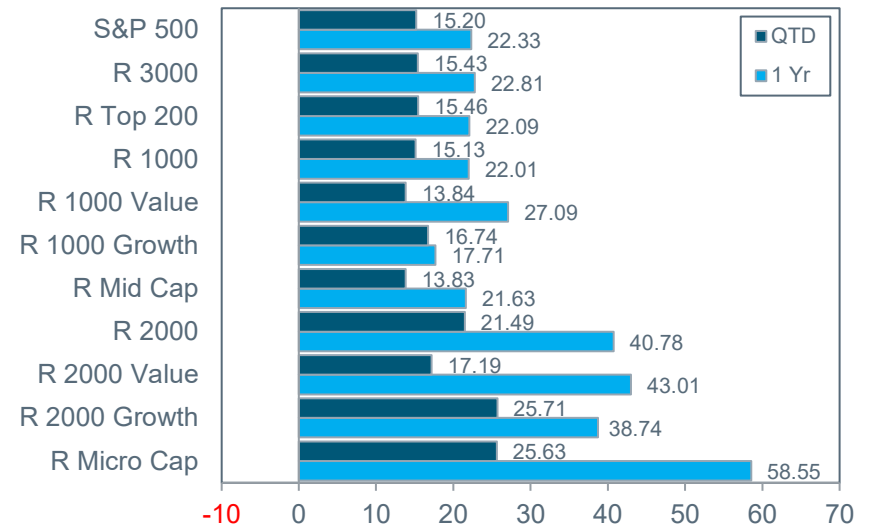
Market Cap

During the quarter, the Russell 3000 Index returned 15.4%. Growth stocks outperformed value stocks and small-cap stocks, particularly small-cap growth stocks, significantly outperformed large-cap stocks. After a weaker Q1, stocks within the Magnificent 7 performed comparably to the overall market, with 6 out of the 7 producing positive returns in Q2.

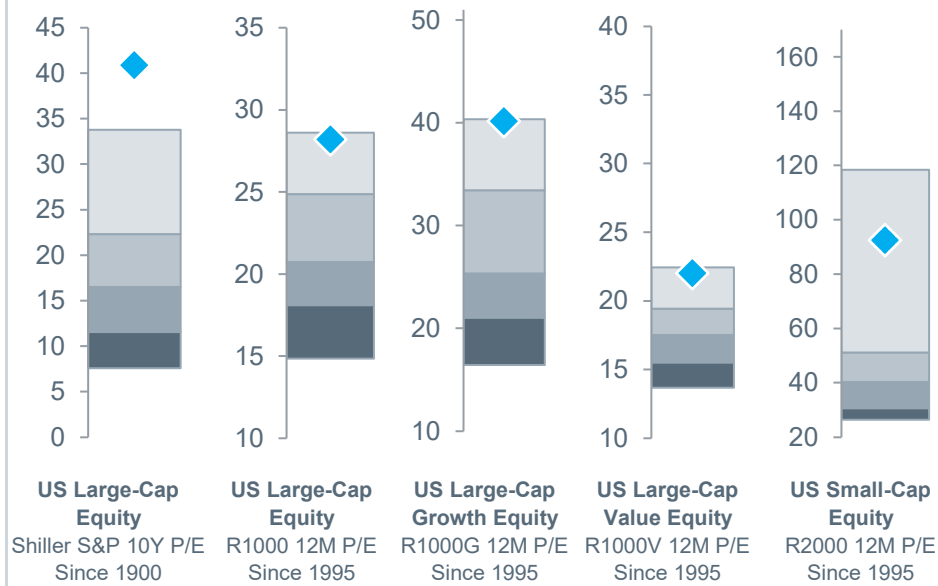
Style and Sector

Generally, the market environment favored passive over active management with sentiment remaining subdued for industries viewed as threatened by AI development, such as software.

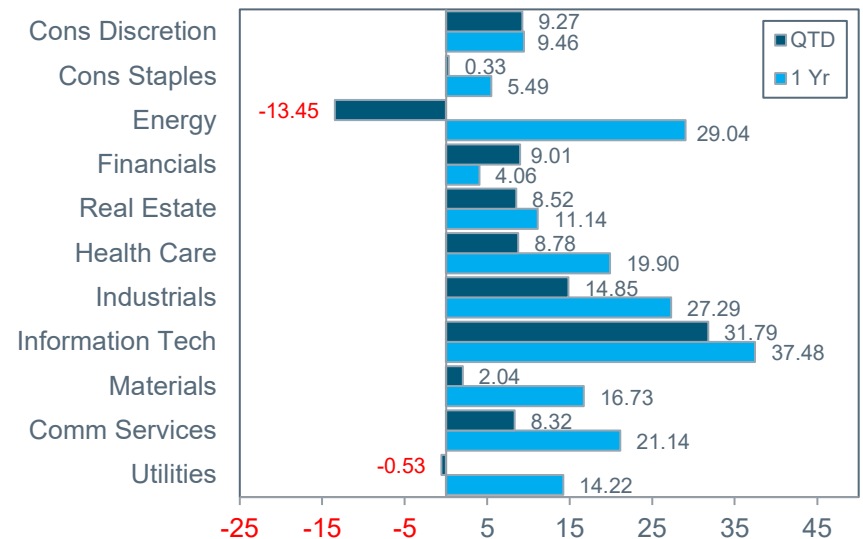
Style and Capitalization Market Performance (%)



Valuations



S&P 500 Index Sector Performance (%)



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

Second Quarter Review

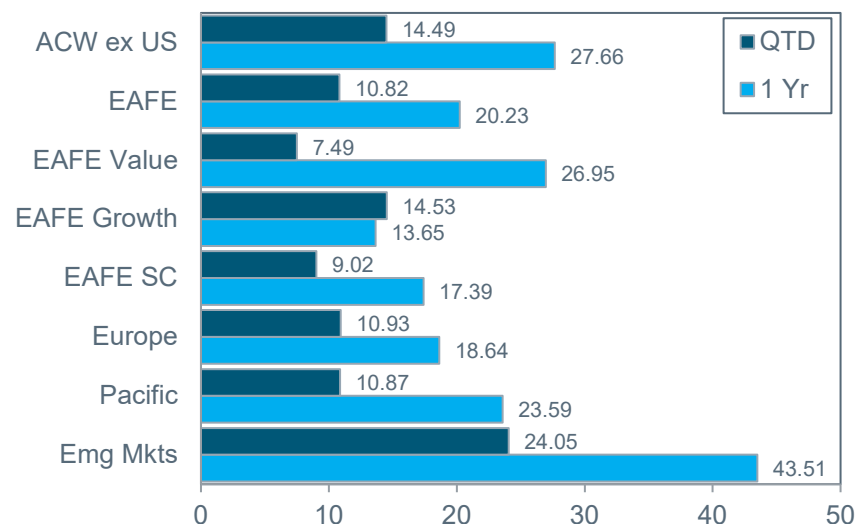
Developed Markets

Developed international markets delivered strong absolute returns in Q2, with the MSCI World ex US Index returning 10.5%, though performance lagged both US and emerging markets. In contrast to Q1, growth stocks outperformed value stocks, though they still slightly lagged value stocks year-to-date. Small-cap stocks underperformed their large-cap counterparts during the quarter. Inflation continued to influence the actions of global central banks, largely stemming from the Iran War energy shock. The ECB navigated the balance between energy-driven inflation risk and modest growth with its first rate hike in three years, while the BOJ maintained its gradual tightening path.

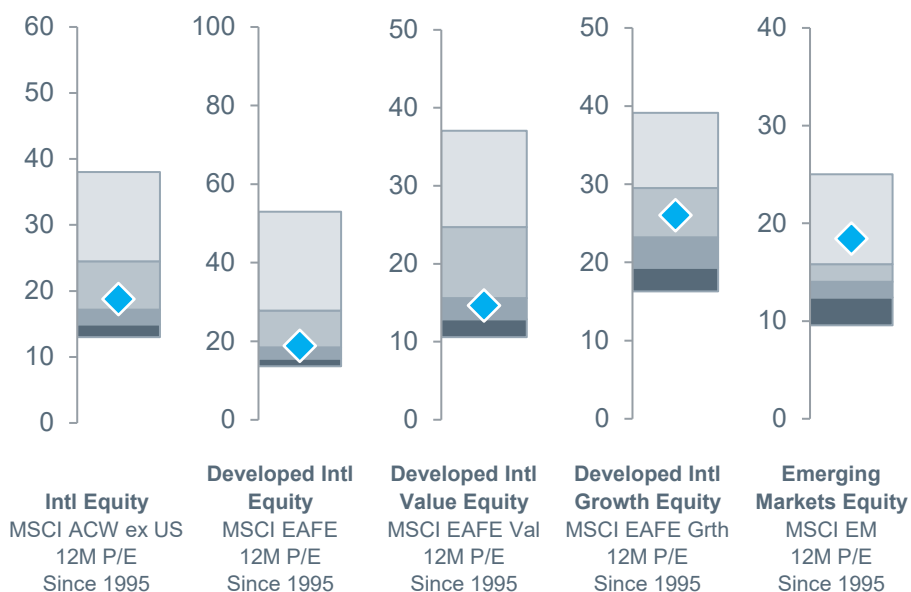
Emerging Markets

Emerging markets outperformed developed markets by a significant margin, with the MSCI Emerging Markets Index returning 24.1% in Q2. Similar to the rest of the world, growth stocks outperformed value stocks, while small-cap stocks underperformed large-cap stocks. This stark outperformance of growth and large-cap stocks was supported by market concentration, as three Korean and Taiwanese stocks now account for approximately one-third of the MSCI Emerging Markets Index: Samsung, SK Hynix, and Taiwan Semiconductor. The strong performance of this narrow set of stocks has presented a challenge to active managers in recent months.

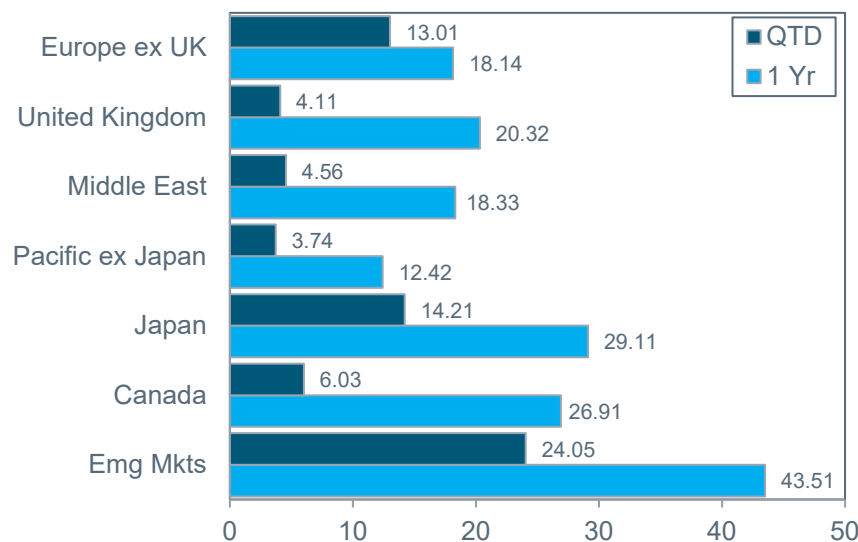
MSCI Style and Capitalization Market Performance (%)



Valuations



MSCI Region Performance (%)



Valuation data courtesy of FactSet.

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.

Second Quarter Review

Broad Market

In Q2, relatively stable labor market data and persistent inflation pushed prior rate-cut expectations aside. Under new Chair Kevin Warsh, FOMC commentary underscored a commitment to restoring inflation to its 2% target. The path for interest rates remains unclear, as the May release of the Core Personal Consumption Expenditures (PCE) price index showed a 3.4% year-over-year increase, well above the 2% target. During the quarter, the 2-year Treasury yield rose to 4.14%, while the 10-year Treasury increased more modestly to 4.44%, leading to a curve flattening.

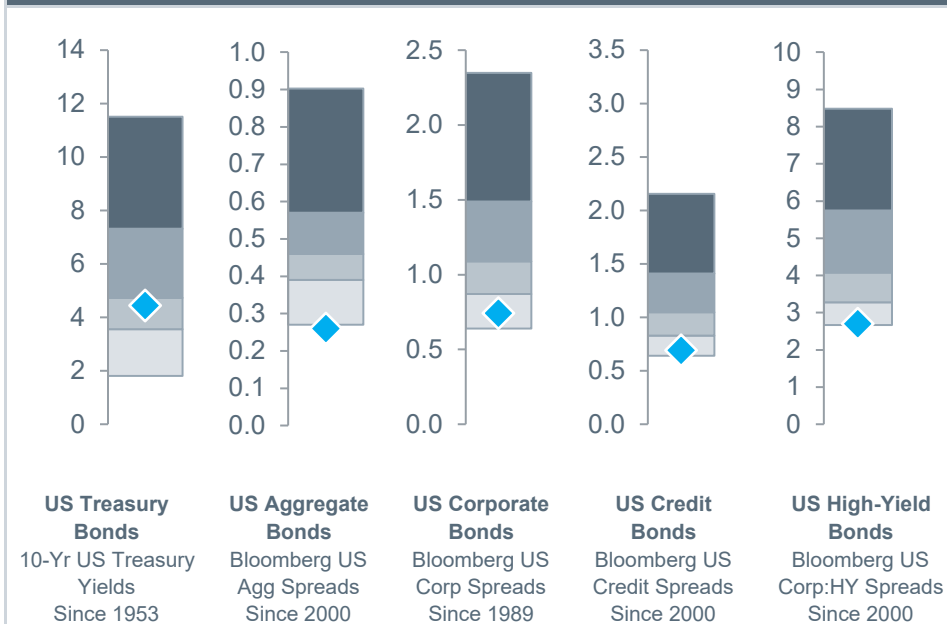
Credit Market

The Bloomberg US Aggregate Bond Index returned 0.7% during the quarter, while the Bloomberg US Corporate Investment Grade Index gained 1.4%. Investment-grade corporate spreads tightened, reflecting strong investor demand despite elevated new issuance. High-yield corporate debt performed particularly well, returning 2.5% as measured by the Bloomberg US Corporate High Yield Index.

Emerging Market Debt

Emerging market debt (EMD) delivered strong returns in Q2, rebounding from negative results in Q1. Hard currency EMD, represented by the JPM EMBI Global Diversified Index, returned 4.6%, while local currency EMD, represented by the JPM GBI Global Diversified Index, returned 3.9%.

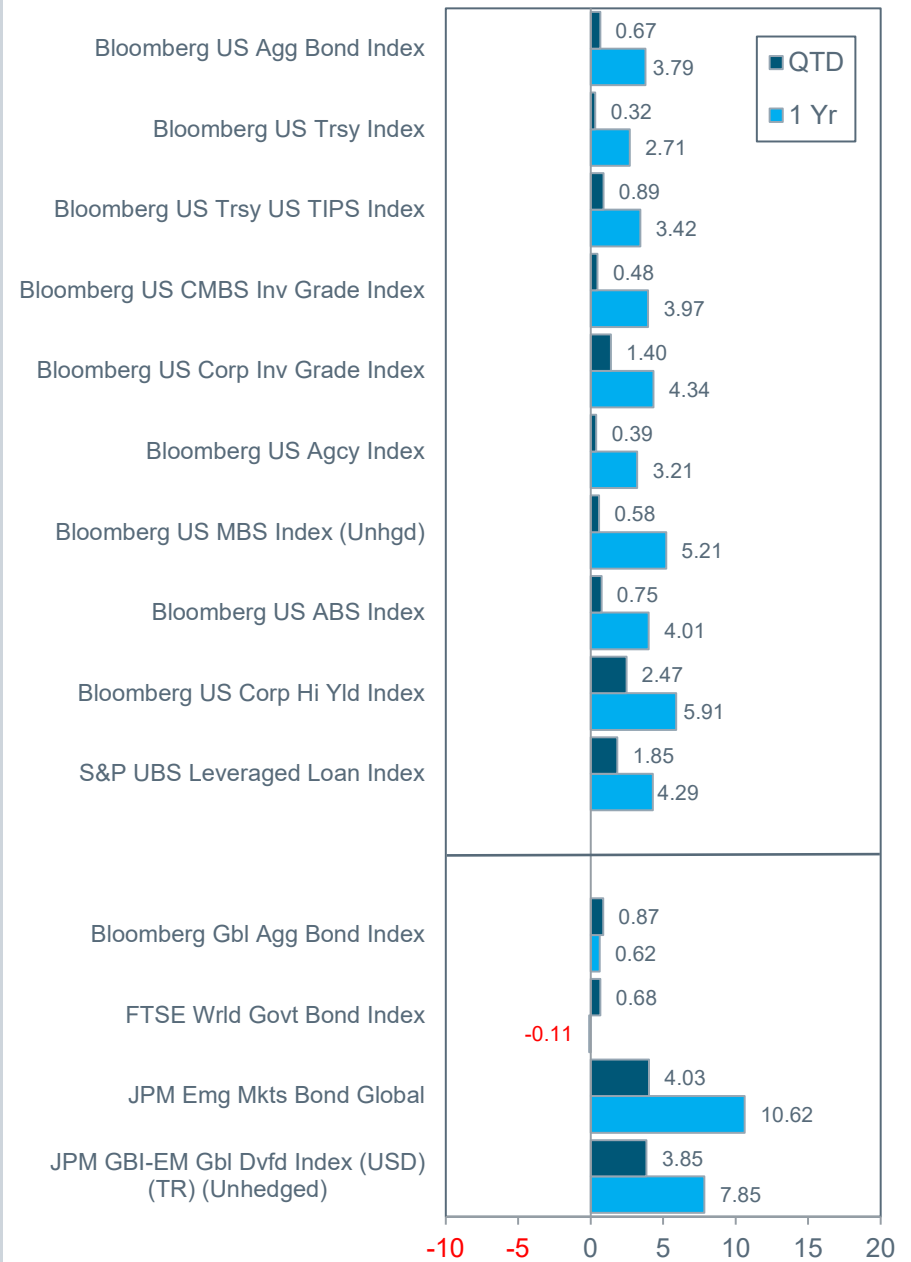
Valuations



Valuation data courtesy of FactSet.

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

Fixed Income Performance (%)



Second Quarter Review - Absolute Return

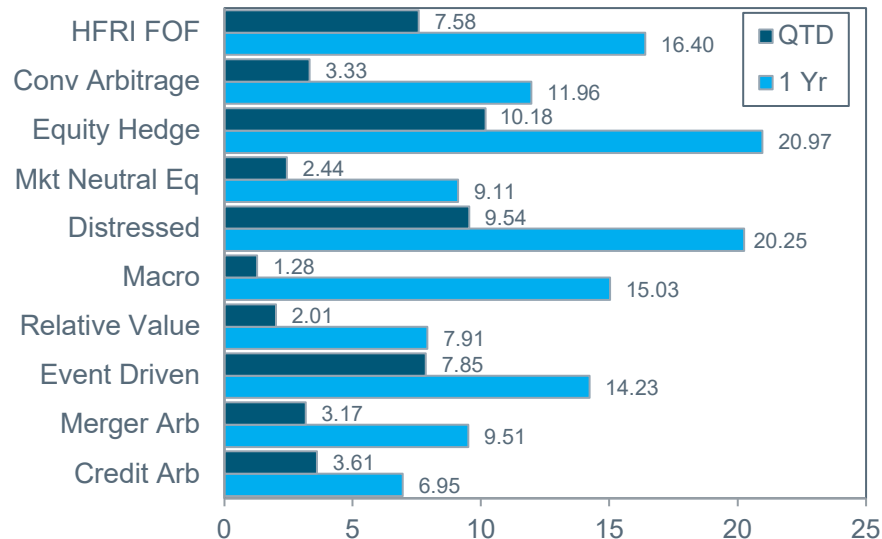
General Market - Hedge Funds

Hedge funds performed well in Q2, with most strategies finishing in positive territory. Preliminary data suggests that the HFRI Asset Weighted Composite Index returned 4.9% in Q2. Equity managers were the top performers during the quarter, as markets rebounded strongly from March lows amid easing tensions in the Middle East. Higher-beta managers were the best performers, with the HFRI Equity Hedge Index posting gains of 10.2% in Q2, while the HFRI Equity Market Neutral Index returned a modest 2.4%. Event-driven managers also posted strong gains, with the HFRI Event-Driven Index returning 7.8% in Q2 influenced by two "mega-deals". Macro managers contended with the rapid repricing of crude oil, its downstream products, and the broader energy complex. The HFRI Macro Index returned 1.3% in Q2, bringing its year-to-date total return to 6.1%.

General Market - Global Tactical Asset Allocation (GTAA)

Global Tactical Asset Allocation (GTAA) strategies that RVK follows closely delivered positive results in Q2. The top performing long-biased GTAA strategies benefitted from higher allocations to global equities, particularly those with technology sector or emerging market equity exposure. Lagging managers tended to hold higher exposures to US and global core bonds and commodities.

HFRI Hedge Fund Performance (%)



Second Quarter Review - Real Assets

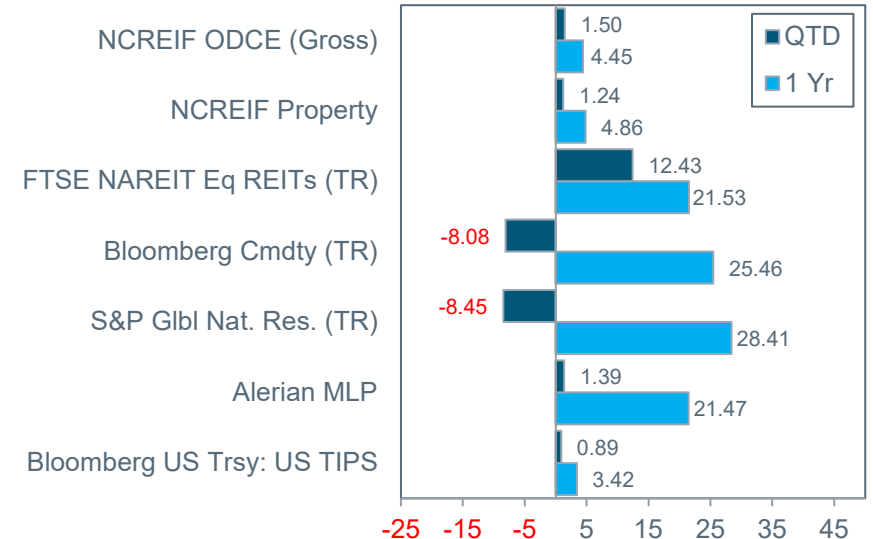
General Market - Diversified Inflation Strategies (DIS)

Diversified Inflation Strategy (DIS) reported disparate performance, though all underperformed a 60/40 blend. Top-performing managers benefited from larger allocations to infrastructure equities, REITs, and US TIPS. Lagging managers generally maintained higher allocations to precious metals as well as greater exposure to energy within natural resource equities,

General Market - Real Estate

Core private real estate generated a positive 1.5% total return in Q2 (preliminary and gross of fee basis), as reported by the NFI-ODCE Index, driven from a 1.0% income return with a price appreciation of 0.5%. The current one-year income return of 4.1% remains above the five-year trailing income return of 3.9%, highlighting that income is the key source of returns for NFI-ODCE. Publicly traded real estate delivered a total return of 12.4%, as measured by FTSE NAREIT All Equity REITs Index. The muted recovery in private real estate continues, while managers remain cautious balancing mostly positive fundamentals with uncertainty around global geopolitics. Transaction activity in 2025 and 2026 has increased from 2023 and 2024 lows, but higher interest rates continue to keep activity below longer-term averages.

Real Asset Performance (%)



Annual Asset Class Performance

As of June 30, 2026

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	YTD
Best	20.00	38.82	30.14	15.02	21.31	37.28	8.35	31.49	19.96	43.24	16.09	26.29	25.02	33.57	23.85
	18.23	32.39	19.31	9.59	17.13	33.01	1.87	26.00	18.40	28.71	7.47	18.24	11.54	31.83	22.57
	18.06	29.30	13.69	3.20	11.96	25.03	0.01	25.53	18.31	27.11	1.46	16.93	9.15	31.22	17.83
	17.32	22.78	12.50	1.38	11.77	21.83	-1.26	24.96	16.12	22.17	-5.31	13.73	8.73	17.88	14.36
	16.35	13.94	5.97	0.55	11.19	14.65	-2.08	22.01	12.34	14.82	-11.19	13.45	8.19	15.77	10.21
	16.00	8.96	4.89	0.05	8.77	10.71	-4.02	19.59	10.99	11.26	-11.85	13.16	7.50	12.81	9.44
	15.81	7.44	3.64	-0.27	8.52	7.77	-4.38	18.42	10.88	10.10	-13.01	9.83	5.38	10.48	8.32
	10.94	2.47	3.37	-0.81	6.67	7.62	-4.62	14.32	7.82	6.17	-14.45	7.13	5.25	8.62	7.65
	8.78	0.07	2.45	-1.44	4.68	7.50	-4.68	8.72	7.51	5.96	-18.11	6.07	3.82	7.30	2.75
	6.98	-2.02	0.04	-3.30	2.65	5.23	-11.01	8.43	7.11	5.28	-20.09	5.53	1.84	7.01	1.96
	4.79	-2.60	-2.19	-4.41	2.18	3.54	-11.25	8.39	1.19	0.05	-20.44	5.02	1.82	6.62	1.74
	4.21	-8.61	-4.90	-4.47	1.00	3.01	-13.79	7.69	0.67	-1.55	-21.39	3.90	1.25	4.18	1.15
	0.11	-8.83	-4.95	-14.92	0.51	1.70	-14.57	5.34	-3.12	-2.52	-24.34	-7.91	-1.43	3.79	0.77
Worst	-1.06	-9.52	-17.01	-24.66	0.33	0.86	-17.89	2.28	-8.00	-2.54	-27.09	-12.02	-4.15	2.88	0.62
	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	Bloombrg US Agg Bond - FI	Bloombrg US Corp Hi Yield - FI	Bloombrg US Trsy US TIPS - FI	Bloombrg US Gov Credit Lng - FI	NCREIF ODCE (Gross) - Real Estate	FTSE NAREIT Eq REITs Index (TR)	HFRI FOF Comp Index - ARS	Bloombrg Cmdty (TR) - Commod.	ICE BofA 3 Mo T-Bill - Cash Equiv	

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

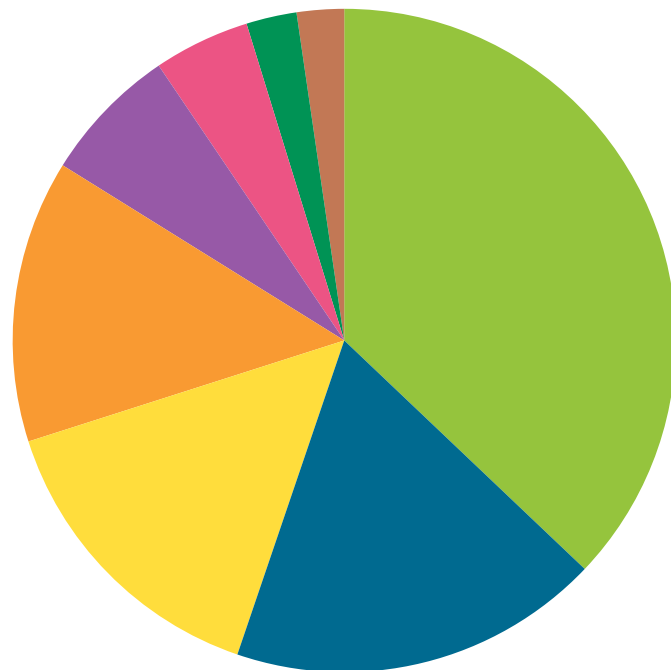
Total Fund

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation by Composite & SIA

As of June 30, 2026

Asset Allocation

June 30, 2026 : \$44,492,148,617



	Market Value (\$)	Allocation (%)
U.S. Equity	16,505,003,279	37.10
Fixed Income	8,065,650,804	18.13
Private Equity	6,607,576,818	14.85
International Developed Markets Equity	6,132,340,936	13.78
Cash	2,977,012,531	6.69
Real Estate	2,085,576,244	4.69
Emerging Markets Equity	1,092,110,951	2.45
Inflation Protection (TIPS)	1,026,877,055	2.31

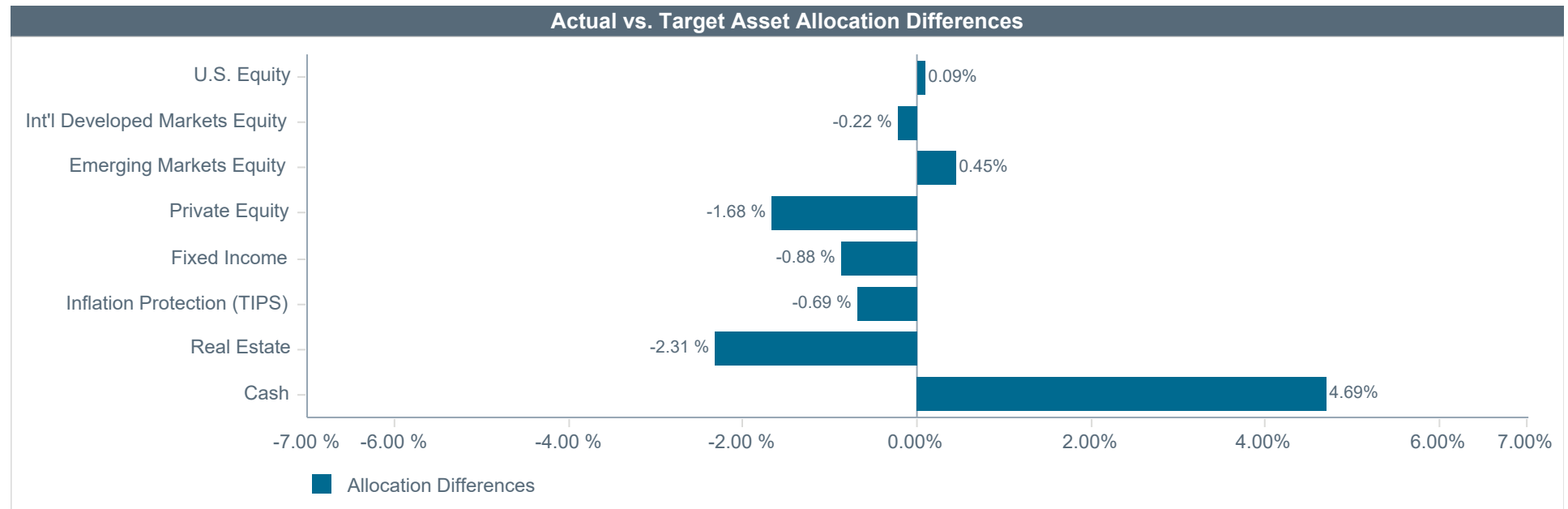
Schedule of Investable Assets

Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return
CYTD	42,577,402,125	-761,684,347	2,686,912,207	44,502,629,985	6.35

Performance shown is net of fees. Asset allocation by composite does not include Legacy Hedge Funds, Northern Trust Equity Transition, Northern Trust Fixed Income Transition, or Liquidated Holdings. Allocation to Private Equity includes Legacy Private Credit.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Total Fund Asset Allocation vs. Target Allocation

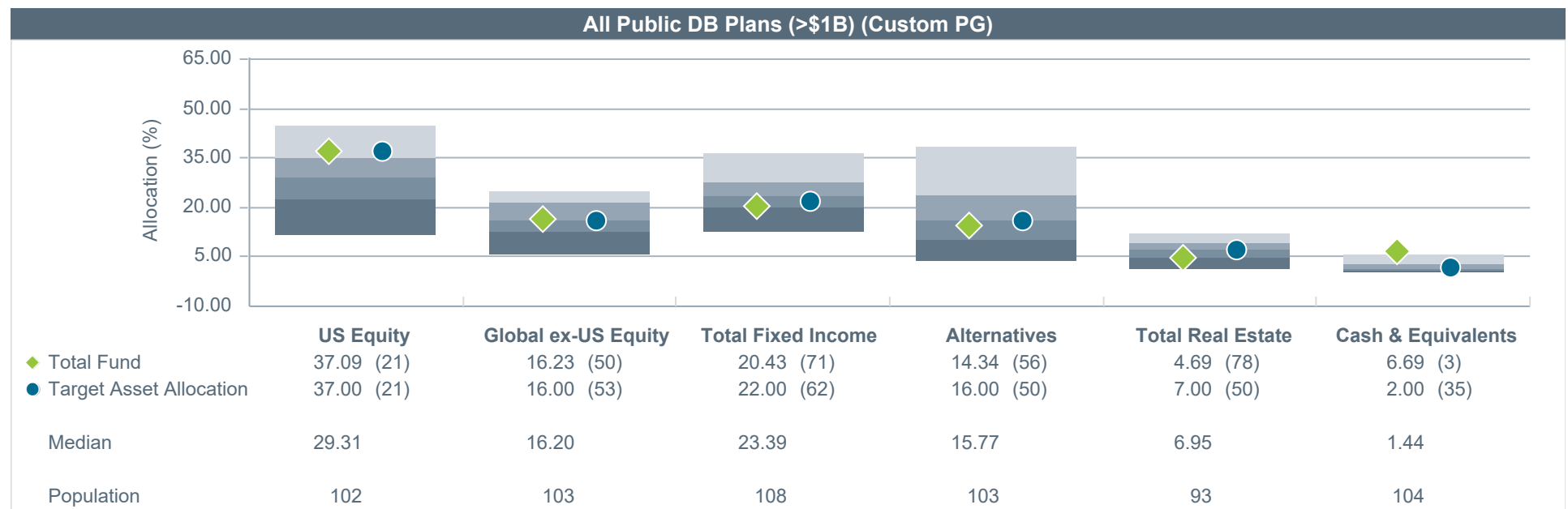
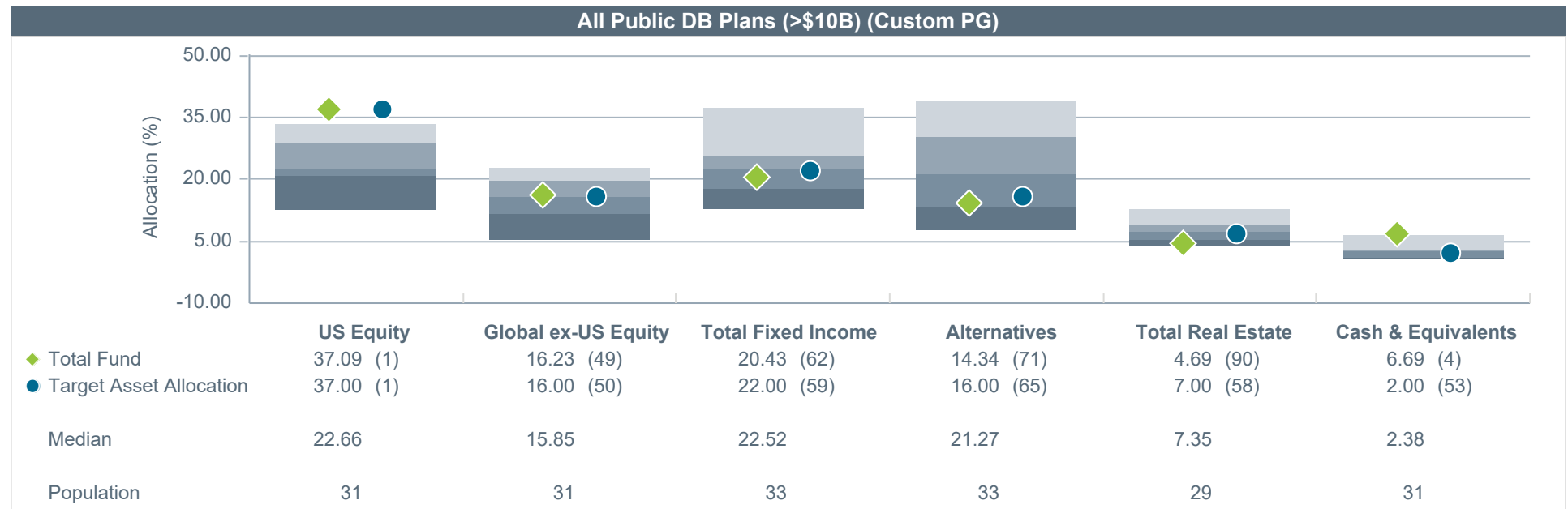
As of June 30, 2026



Asset Allocation vs. Target					
	Asset Allocation (\$000)	Asset Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)
Total Fund	44,502,630	100.00	-	-	100.00
U.S. Equity	16,505,003	37.09	32.00	42.00	37.00
International Developed Markets Equity	6,132,341	13.78	9.00	19.00	14.00
Emerging Markets Equity	1,092,111	2.45	0.00	4.00	2.00
Fixed Income	8,065,651	18.12	14.00	24.00	19.00
Inflation Protection (TIPS)	1,026,877	2.31	0.00	6.00	3.00
Private Equity	6,372,897	14.32	14.00	18.00	16.00
Real Estate	2,085,576	4.69	0.00	100.00	7.00
Cash	2,977,013	6.69	0.00	7.00	2.00

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Plan Sponsor TF Asset Allocation

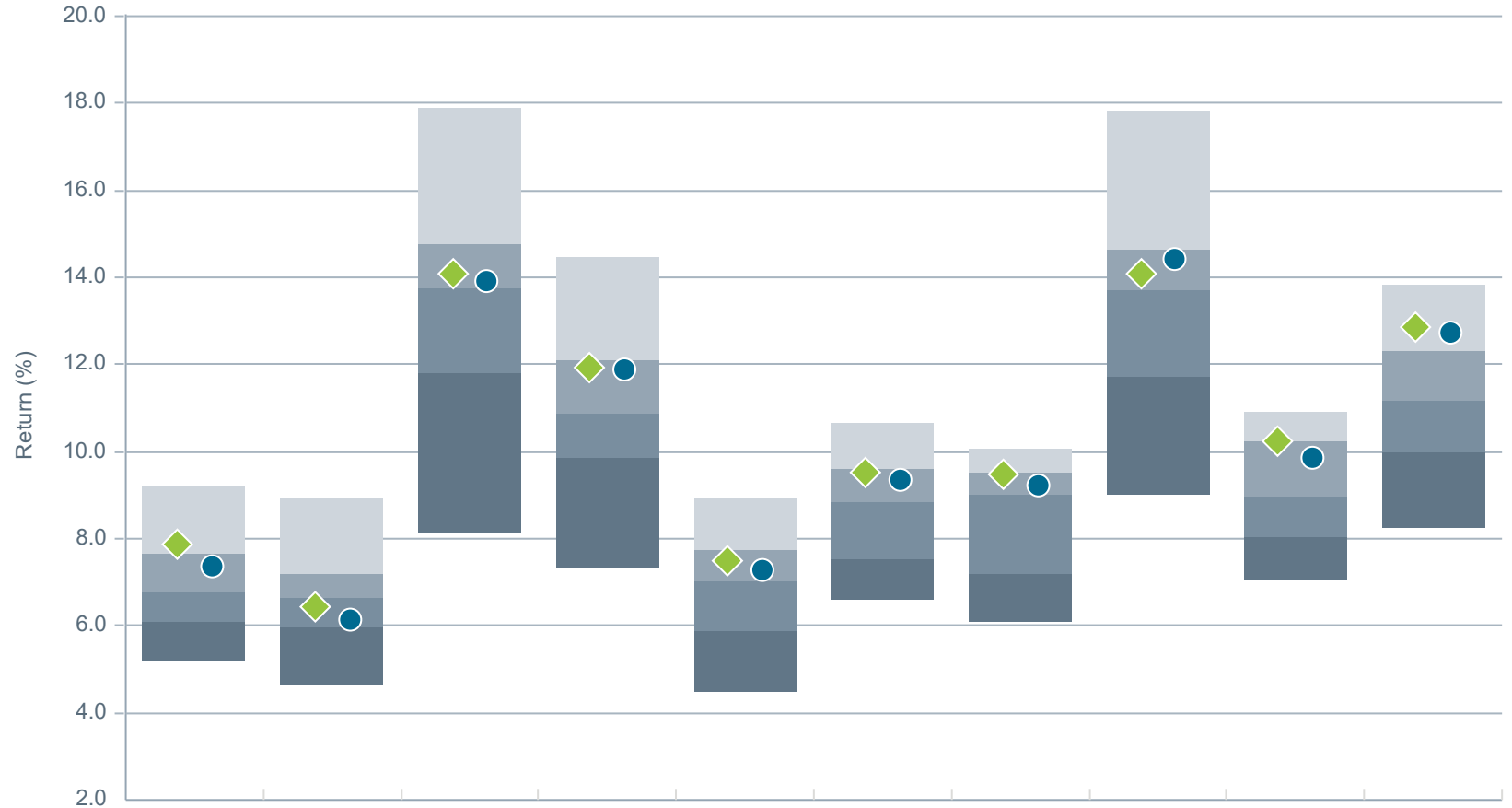
As of June 30, 2026



Parentheses contain percentile ranks. Allocation to "Alternatives" includes Private Equity, Legacy Private Credit, and Legacy Hedge Funds.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
All Public DB Plans (>\$10B) (Custom PG)
Plan Sponsor Peer Group Analysis

As of June 30, 2026

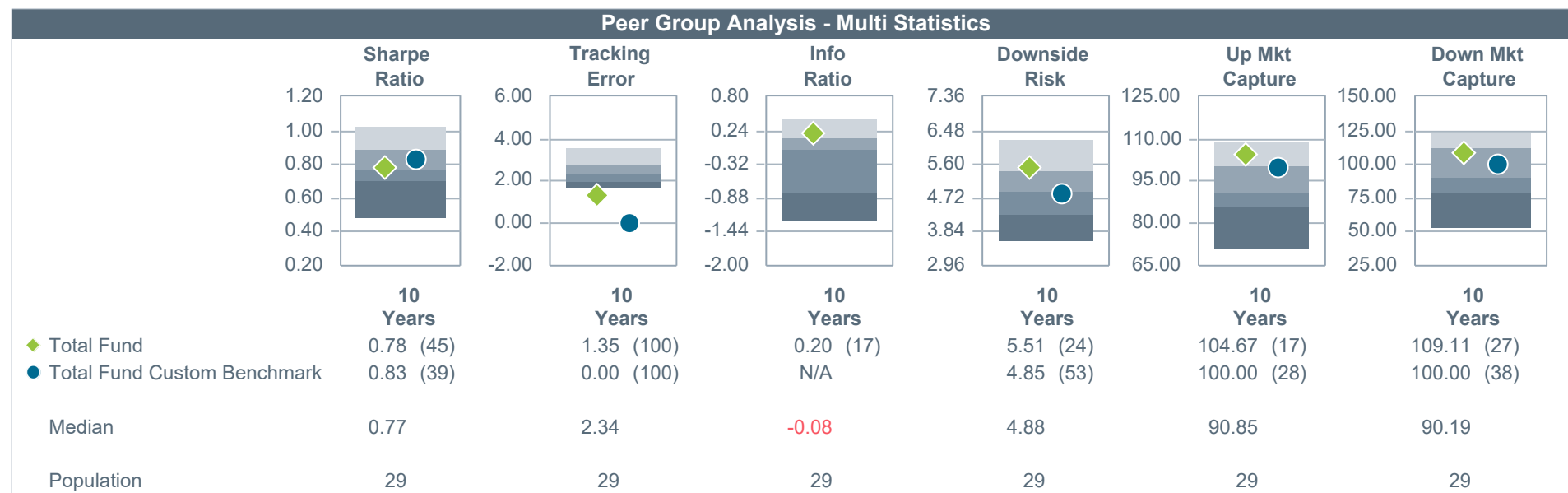
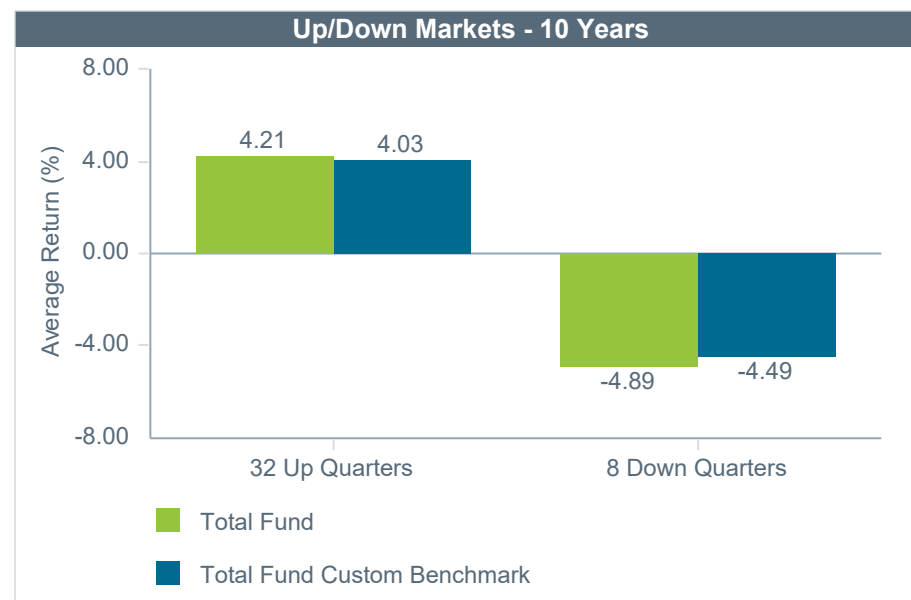
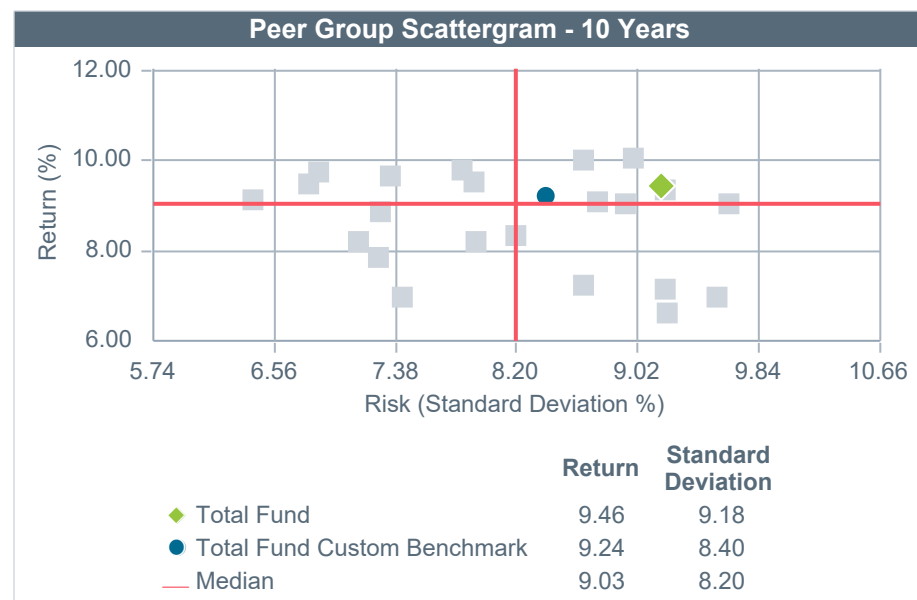


	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2025	2024	2023
◆ Total Fund	7.9 (22)	6.5 (55)	14.1 (46)	11.9 (28)	7.5 (34)	9.5 (32)	9.5 (31)	14.1 (35)	10.3 (26)	12.9 (17)
● Total Fund Custom Benchmark	7.4 (36)	6.2 (69)	13.9 (49)	11.9 (29)	7.3 (39)	9.4 (35)	9.2 (38)	14.4 (30)	9.9 (35)	12.7 (18)
5th Percentile	9.2	8.9	17.9	14.5	8.9	10.7	10.1	17.8	10.9	13.8
1st Quartile	7.7	7.2	14.8	12.1	7.7	9.6	9.5	14.6	10.3	12.3
Median	6.8	6.6	13.7	10.9	7.0	8.9	9.0	13.7	9.0	11.2
3rd Quartile	6.1	6.0	11.8	9.9	5.9	7.6	7.2	11.7	8.0	10.0
95th Percentile	5.2	4.7	8.1	7.3	4.5	6.6	6.1	9.0	7.1	8.3
Population	32	32	32	32	31	30	29	56	59	63

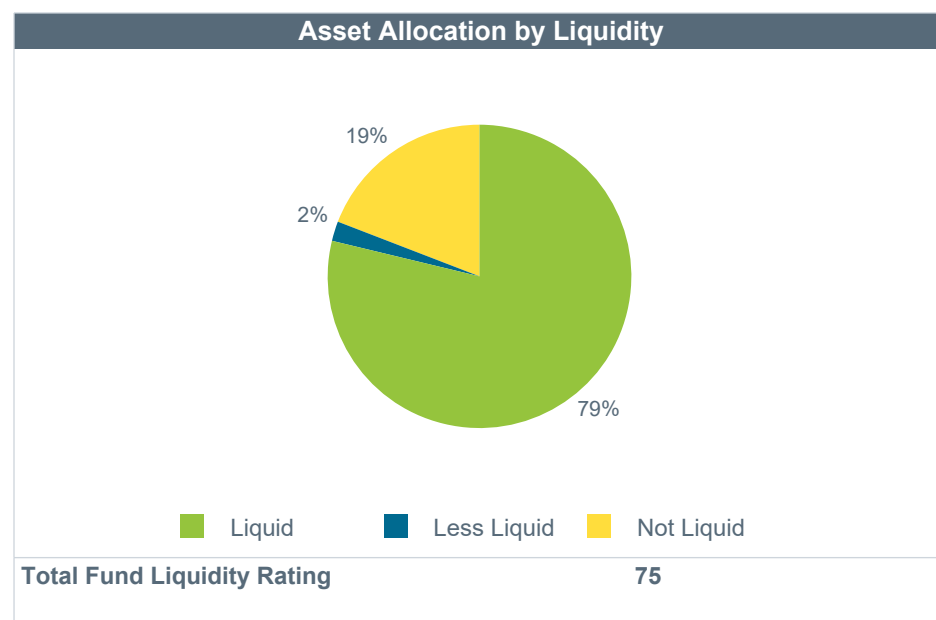
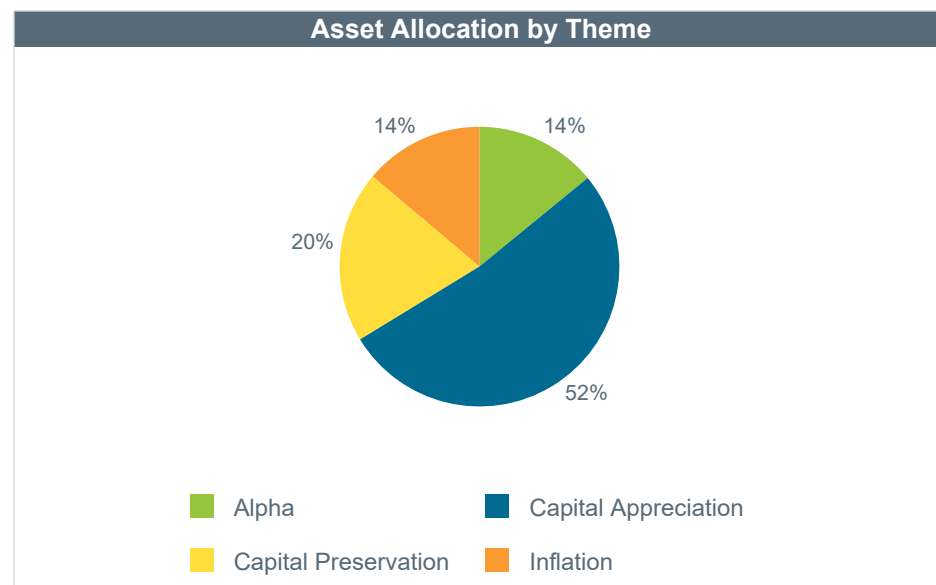
Performance shown is gross of fees. Parentheses contain percentile ranks.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Total Fund vs. All Public DB Plans (>\$10B) (Custom PG)

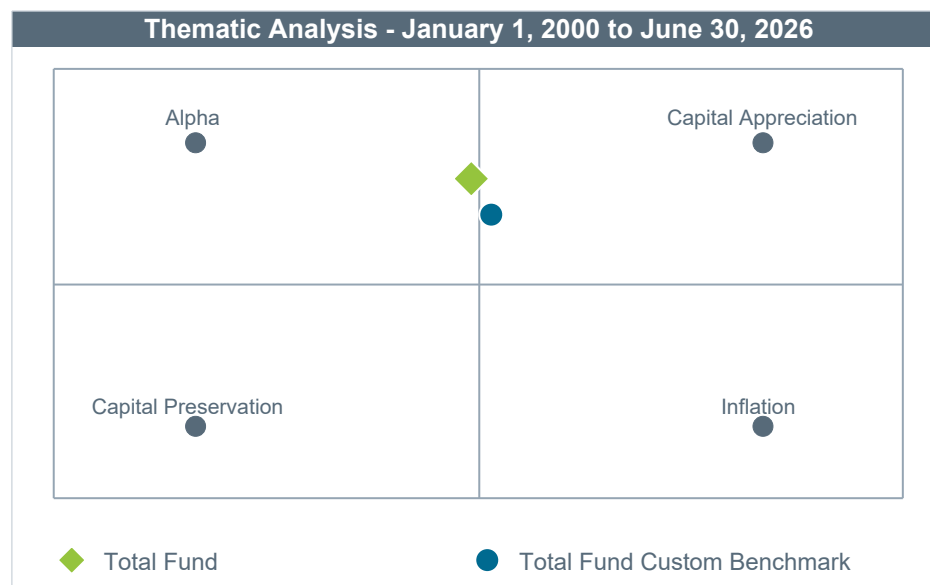
As of June 30, 2026



Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.



Asset Allocation by theme is based on dedicated manager allocations; as such, thematic allocations are approximations. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating. Please see the Glossary for additional information regarding liquidity, thematic and custom index descriptions.



Correlation Matrix - 10 Years

	A	B	C	D
A	1.00			
B	0.46	1.00		
C	-0.08	0.22	1.00	
D	0.43	0.78	0.24	1.00

A = HFRI EH: Equity Market Neutral Index (Alpha)
 B = MSCI ACW Index (USD) (Gross) (Capital Appreciation)
 C = Bloomberg US Govt Bond Index (Capital Preservation)
 D = Real Return Custom Index (Inflation)

**Pennsylvania State Employees' Retirement System Defined Benefit Plan
Projected Risk, Liquidity, and Correlation**

As of June 30, 2026

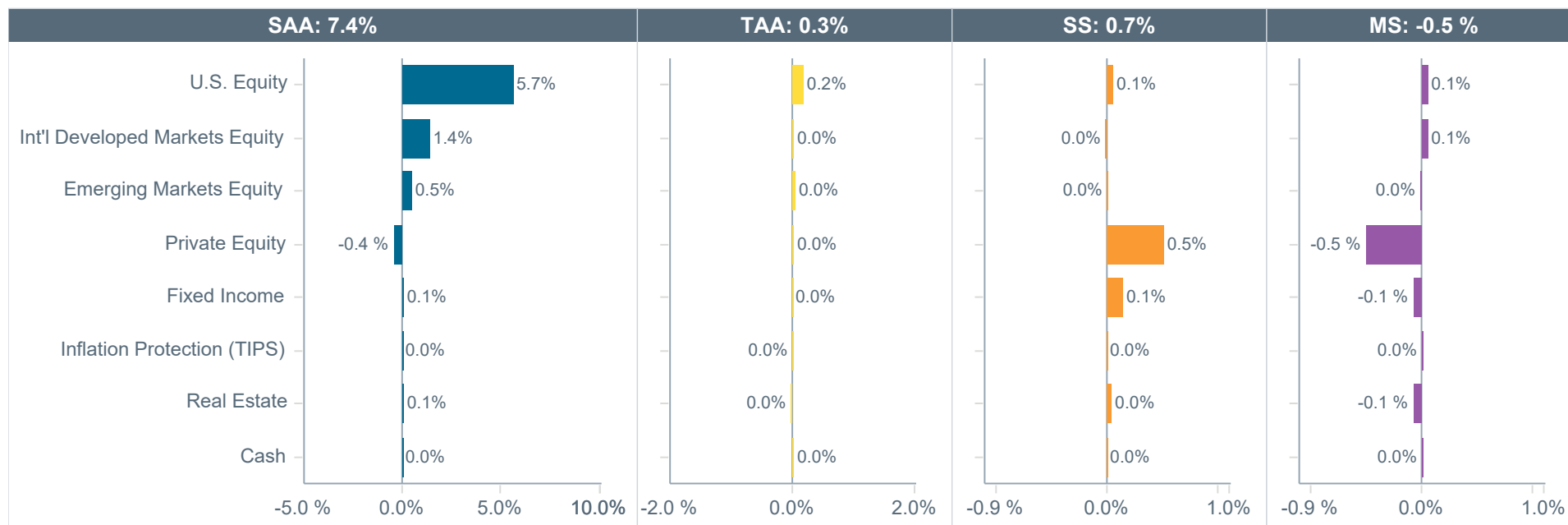
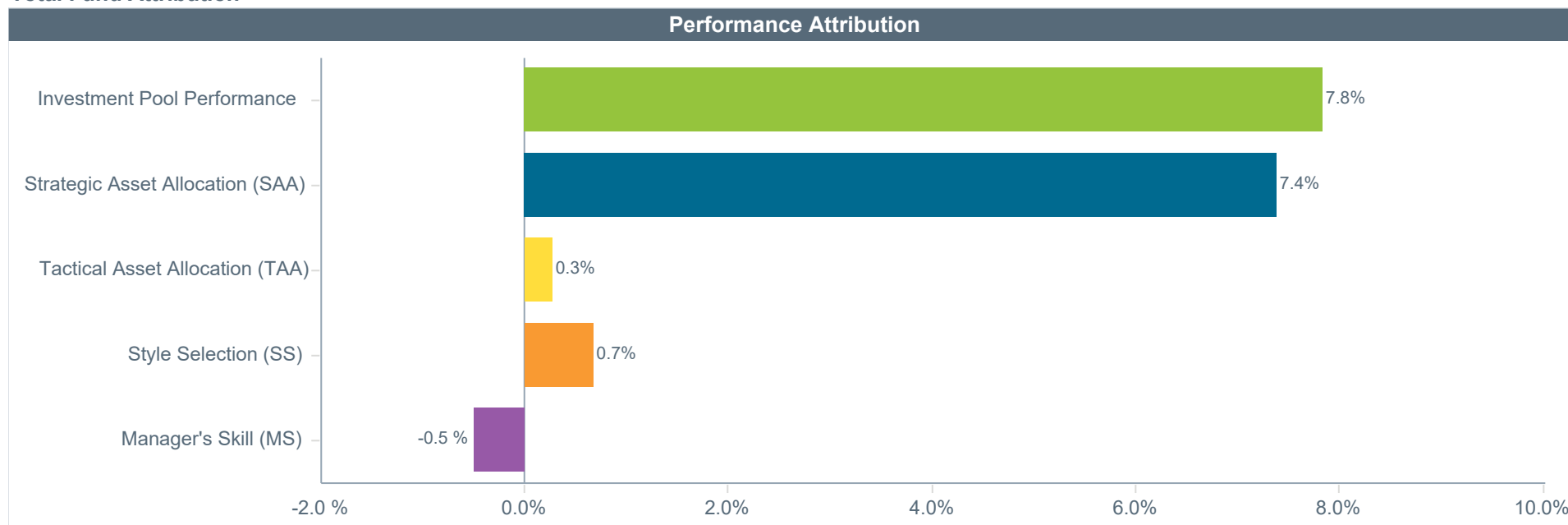
Capital Preservation Assets					Return Seeking Assets					
	Cash	Inflation Protection (TIPS)	Core Fixed Income	Nominal U.S. Treasury	U.S. Equity	Int'l Developed Markets Equity	Emerging Markets Equity	Opportunistic Fixed Income	Real Estate	Private Equity
Policy Target Asset Allocation	2%	3%	12%	5%	37%	14%	2%	2%	7%	16%
Projected Returns (Geometric)*	2.73%	3.85%	4.13%	3.71%	4.60%	6.74%	7.26%	5.73%	6.57%	7.35%
Projected Risk (Standard Deviation)*	2.00%	5.50%	5.00%	4.40%	16.04%	18.89%	25.00%	10.50%	17.76%	22.00%
Liquidity	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Less Liquid	Not Liquid	Not Liquid
Correlation to U.S. Equity*	-0.03	0.35	0.28	-0.02	1	0.86	0.72	0.77	0.28	0.66
Months of Benefit Payments**	8.5	2.9	14.5	6.0						
Months of Benefit Payments (Includes EE & ER contributions)**	25.8	8.9	43.8	18.2						
Cumulative Months of Benefit Payments (Includes EE & ER Contributions)**		96.7								

*RVK 2026 Capital Market Assumptions

**Provided by SERS IO as of 6/30/2026

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Total Fund Attribution

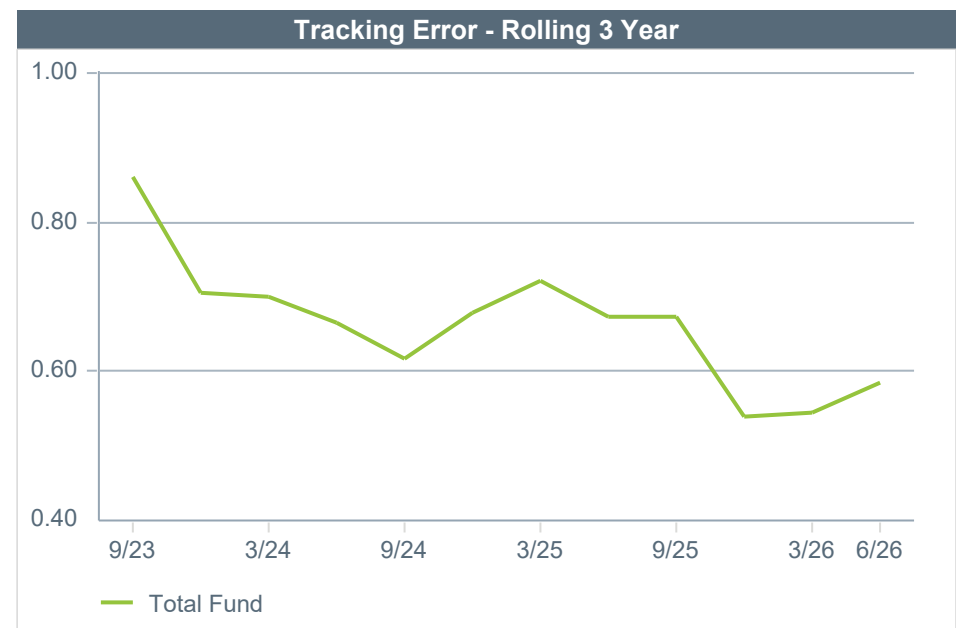
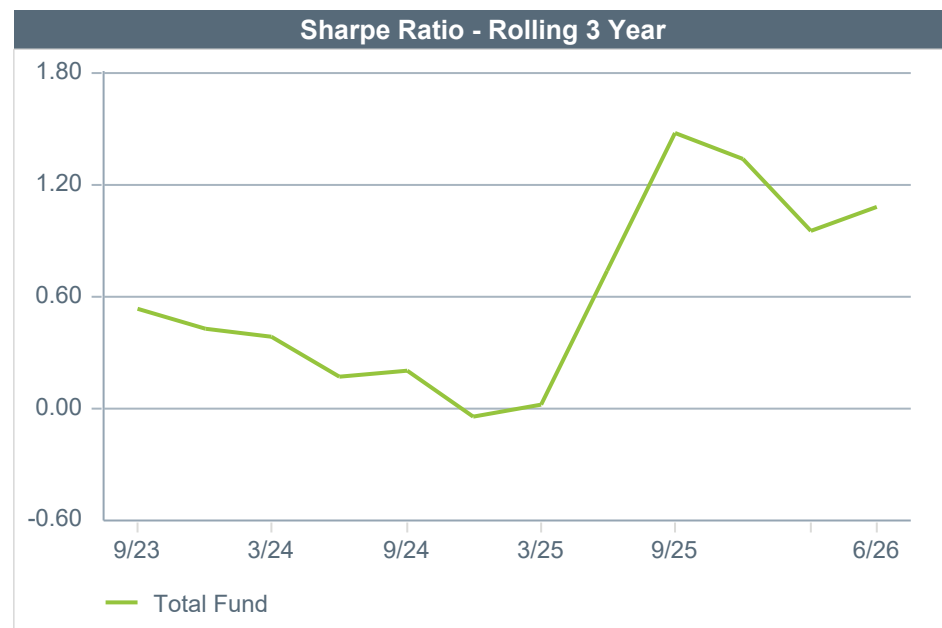
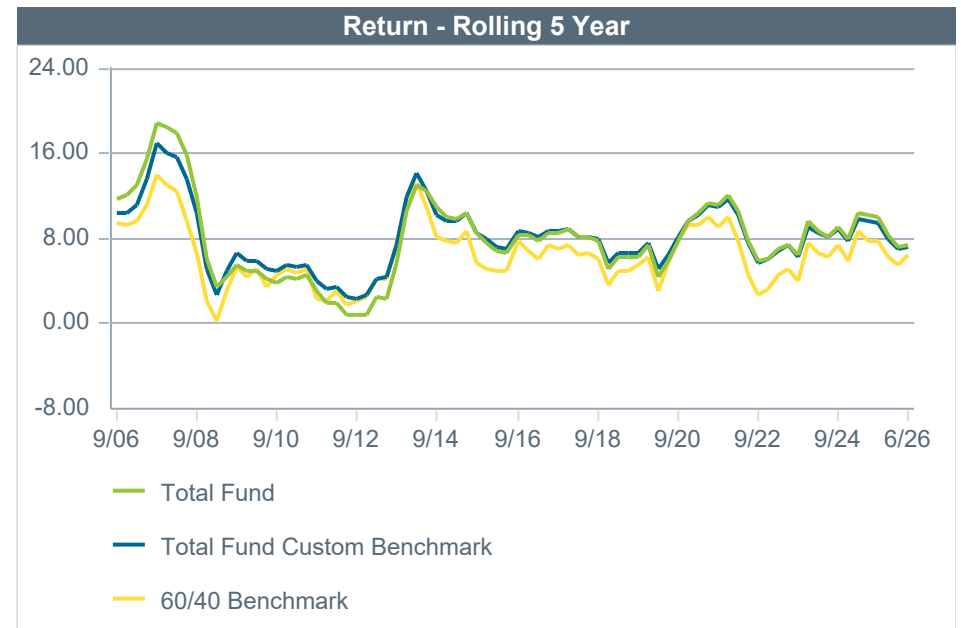
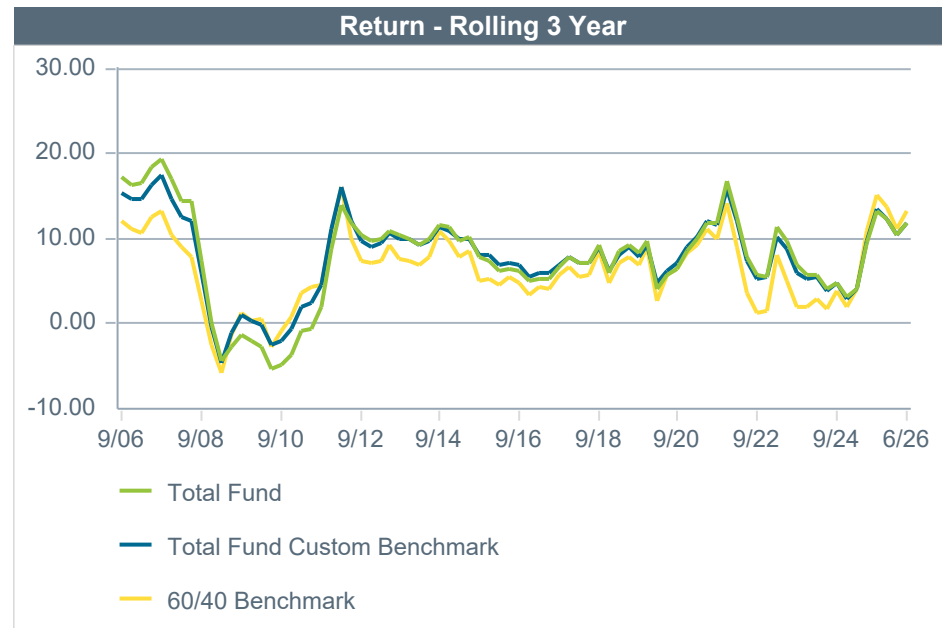
1 Quarter Ending June 30, 2026



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

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Total Fund - Rolling Stats

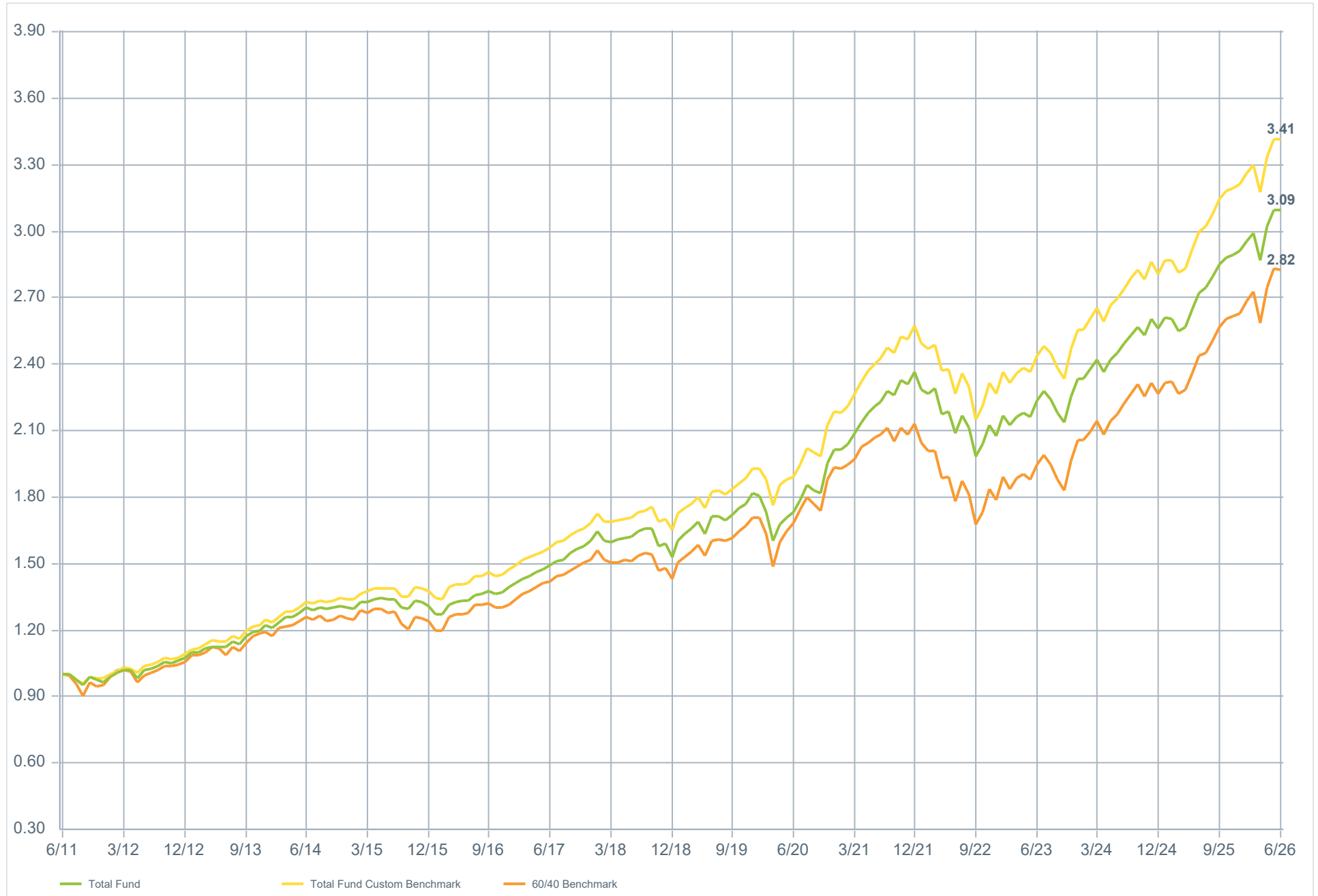
As of June 30, 2026



Performance shown is gross of fees. Calculations for the top charts are based on monthly periodicity. Calculations for the bottom charts are based on quarterly periodicity. Tracking Error is calculated using the Total Fund Custom Benchmark.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Growth of \$1

15 Years Ending June 30, 2026



Calculation is based on monthly periodicity.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
Total Fund	44,502,629,985	100.00	7.84	6.35	13.76	11.50	6.94	8.80	7.82	6.76	7.08	9.41	01/01/1981
Total Fund Custom Benchmark			7.39	6.16	13.90	11.89	7.27	9.24	8.53	7.78	7.77	N/A	
Difference			0.45	0.19	-0.15	-0.38	-0.34	-0.44	-0.70	-1.02	-0.68	N/A	
Public Market Equivalent Custom Benchmark			7.47	6.54	17.25	14.96	8.69	10.07	9.13	9.59	7.92	N/A	
Difference			0.37	-0.19	-3.50	-3.46	-1.76	-1.27	-1.31	-2.83	-0.84	N/A	
60/40 Benchmark			9.14	7.37	15.84	13.24	6.43	8.25	7.16	6.68	6.70	N/A	
Difference			-1.30	-1.01	-2.08	-1.74	0.51	0.55	0.66	0.09	0.38	N/A	
U.S. Equity	16,505,003,279	37.09	15.89	11.47	23.92	20.61	12.26	14.60	13.53	10.17	9.22	11.34	01/01/1981
Russell 3000 Index*			15.43	10.86	22.81	20.35	12.30	15.06	13.89	11.16	9.59	11.61	
Difference			0.46	0.61	1.11	0.25	-0.04	-0.46	-0.36	-0.99	-0.37	-0.27	
S&P 1500 Comp Index			15.28	10.89	22.87	20.22	13.01	15.18	14.09	11.29	9.65	N/A	
Difference			0.62	0.58	1.05	0.39	-0.75	-0.57	-0.55	-1.12	-0.43	N/A	
International Developed Markets Equity	6,132,340,936	13.78	10.62	9.53	20.06	16.20	9.12	10.43	7.74	5.80	N/A	7.39	01/01/2002
MSCI Wld Ex US Index (USD) (Net)*			10.22	9.19	20.99	16.73	8.77	9.67	6.89	5.71	6.80	7.38	
Difference			0.40	0.34	-0.93	-0.53	0.35	0.76	0.85	0.09	N/A	0.01	
Emerging Markets Equity	1,092,110,951	2.45	23.66	23.88	43.66	22.96	6.99	11.18	5.60	5.57	N/A	8.29	01/01/2002
MSCI Emg Mkts Index (USD) (Net)*			24.05	23.85	43.51	23.39	7.85	10.32	5.48	7.04	9.68	9.90	
Difference			-0.39	0.04	0.15	-0.44	-0.85	0.86	0.12	-1.47	N/A	-1.62	
Private Equity	6,372,896,511	14.32	-2.16	-0.69	2.80	4.76	6.54	11.58	10.75	10.58	9.41	11.02	01/01/1986
Burgiss All Pvt Equity Custom Index (1 Qtr Lag)			1.11	4.30	11.81	8.05	8.55	13.29	12.51	12.03	11.20	19.04	
Difference			-3.27	-4.99	-9.01	-3.29	-2.01	-1.71	-1.76	-1.45	-1.80	-8.02	
Fixed Income	8,065,650,804	18.12	1.10	1.17	4.28	4.57	0.61	2.01	2.52	3.84	4.50	7.33	01/01/1981
Bloomberg US Agg Bond Index			0.67	0.62	3.79	4.16	0.08	1.54	2.28	3.32	3.65	6.65	
Difference			0.43	0.55	0.48	0.41	0.53	0.46	0.24	0.52	0.85	0.68	
Inflation Protection (TIPS)	1,026,877,055	2.31	0.81	1.11	3.30	3.92	0.63	2.38	2.03	3.15	N/A	3.01	02/01/2003
Bloomberg US Trsy US TIPS Index			0.89	1.15	3.42	3.98	1.01	2.58	2.60	3.66	4.32	3.85	
Difference			-0.08	-0.04	-0.12	-0.06	-0.38	-0.21	-0.57	-0.51	N/A	-0.84	
Real Estate	2,085,576,244	4.69	0.72	-0.83	-1.85	-6.38	-1.99	0.92	3.83	2.40	4.72	7.02	03/01/1984
Real Estate Custom Benchmark			1.04	1.75	3.14	-3.05	1.85	3.58	6.34	4.56	5.97	N/A	
Difference			-0.32	-2.58	-4.99	-3.33	-3.83	-2.66	-2.51	-2.16	-1.25	N/A	
CPI (All Urban Consumers) +3% (1 Qtr Lag)			2.66	3.18	6.35	6.13	7.64	6.42	5.72	5.62	5.62	5.92	
Difference			-1.94	-4.01	-8.20	-12.51	-9.63	-5.50	-1.89	-3.22	-0.90	1.11	
Legacy Private Credit	234,680,306	0.53	-1.34	0.83	5.04	8.35	9.08	N/A	N/A	N/A	N/A	9.46	04/01/2018
S&P Leverage Loan Index +1% (1 Qtr Lag)			-0.23	1.21	5.84	9.10	6.91	6.65	5.93	5.84	5.94	6.29	
Difference			-1.12	-0.38	-0.80	-0.75	2.18	N/A	N/A	N/A	N/A	3.17	

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
Cash	2,977,012,531	6.69	0.92	1.85	3.99	4.80	3.68	2.52	1.82	1.96	2.14	3.51	01/01/1987
ICE BofA 3 Mo US T-Bill Index			0.88	1.74	3.84	4.64	3.52	2.34	1.58	1.69	1.80	3.25	
Difference			0.03	0.11	0.15	0.16	0.16	0.18	0.23	0.27	0.34	0.26	
Legacy Hedge Funds	9,446,382	0.02											

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Total Fund	44,502,629,985	100.00	13.69	9.82	12.22	-12.15	17.24	11.11	18.75	-4.55	15.08	6.51	0.40	6.35	13.61
Total Fund Custom Benchmark			14.41	9.88	12.74	-11.78	17.51	13.50	16.81	-2.09	14.46	6.81	2.85	7.32	14.13
Difference			-0.73	-0.05	-0.53	-0.37	-0.27	-2.40	1.94	-2.46	0.62	-0.30	-2.45	-0.97	-0.52
Public Market Equivalent Custom Benchmark			16.91	15.19	17.12	-13.69	13.64	13.24	16.28	-1.02	16.07	8.44	0.60	7.59	15.52
Difference			-3.23	-5.36	-4.91	1.55	3.60	-2.13	2.47	-3.53	-0.99	-1.92	-0.21	-1.24	-1.91
60/40 Benchmark			16.06	10.14	15.03	-16.04	10.03	13.56	19.28	-5.93	15.39	6.22	-0.88	4.77	12.74
Difference			-2.37	-0.32	-2.81	3.90	7.21	-2.45	-0.53	1.39	-0.31	0.29	1.27	1.58	0.87
U.S. Equity	16,505,003,279	37.09	17.72	23.38	25.56	-19.06	24.62	21.28	30.37	-7.48	20.54	11.17	-0.53	11.22	34.14
Russell 3000 Index*			17.15	23.81	25.96	-19.21	25.66	20.89	31.02	-5.24	21.13	12.74	0.48	12.56	33.55
Difference			0.58	-0.43	-0.39	0.15	-1.04	0.39	-0.65	-2.24	-0.59	-1.57	-1.01	-1.34	0.58
S&P 1500 Comp Index			17.02	23.95	25.47	-17.78	28.44	17.92	30.90	-4.96	21.13	13.03	1.01	13.08	32.80
Difference			0.71	-0.57	0.10	-1.28	-3.83	3.36	-0.54	-2.51	-0.59	-1.86	-1.55	-1.87	1.34
International Developed Markets Equity	6,132,340,936	13.78	28.87	4.97	18.99	-15.17	14.48	9.62	23.90	-14.83	29.12	2.05	-1.88	-4.85	23.65
MSCI Wld Ex US Index (USD) (Net)*			31.85	4.15	17.18	-15.26	12.40	8.32	22.91	-14.68	25.17	2.95	-1.95	-4.45	21.57
Difference			-2.98	0.81	1.81	0.08	2.08	1.30	1.00	-0.15	3.95	-0.90	0.07	-0.39	2.08
Emerging Markets Equity	1,092,110,951	2.45	32.79	8.64	11.40	-22.84	-0.45	24.45	21.32	-15.82	41.38	10.32	-12.38	-5.93	-1.09
MSCI Emg Mkts Index (USD) (Net)*			33.57	7.43	11.67	-19.83	-0.28	18.39	17.65	-15.05	36.83	9.90	-13.86	-1.79	-2.20
Difference			-0.78	1.21	-0.27	-3.00	-0.17	6.05	3.67	-0.78	4.55	0.42	1.48	-4.14	1.10
Private Equity	6,372,896,511	14.32	5.91	6.28	6.59	-5.06	52.83	18.37	9.55	11.90	12.83	6.79	6.42	13.15	12.56
Burgiss All Pvt Equity Custom Index (1 Qtr Lag)			10.13	8.20	4.51	-1.71	50.24	15.78	9.18	16.91	15.61	8.92	8.71	16.61	15.93
Difference			-4.22	-1.93	2.08	-3.35	2.59	2.59	0.38	-5.01	-2.78	-2.13	-2.29	-3.46	-3.37
Fixed Income	8,065,650,804	18.12	7.03	2.48	5.57	-12.34	-0.75	5.78	9.51	-0.99	4.68	5.62	-2.73	6.21	-1.37
Bloomberg US Agg Bond Index			7.30	1.25	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
Difference			-0.27	1.23	0.04	0.67	0.79	-1.72	0.80	-1.01	1.13	2.97	-3.28	0.25	0.66
Inflation Protection (TIPS)	1,026,877,055	2.31	7.03	1.81	3.85	-12.99	5.16	11.04	8.36	-1.75	3.89	4.64	-1.71	3.87	-8.12
Bloomberg US Trsy US TIPS Index			7.01	1.84	3.90	-11.85	5.96	10.99	8.43	-1.26	3.01	4.68	-1.44	3.64	-8.61
Difference			0.02	-0.02	-0.05	-1.15	-0.79	0.05	-0.07	-0.49	0.89	-0.05	-0.27	0.23	0.49
Real Estate	2,085,576,244	4.69	0.84	-12.25	-11.91	6.02	18.04	2.11	10.98	-2.34	2.02	3.23	9.92	10.94	13.70
Real Estate Custom Benchmark			3.07	-8.44	-13.08	17.38	17.48	0.25	4.75	7.24	5.61	9.87	12.86	11.38	12.41
Difference			-2.23	-3.81	1.17	-11.36	0.56	1.86	6.23	-9.57	-3.59	-6.65	-2.94	-0.44	1.29
CPI (All Urban Consumers) +3% (1 Qtr Lag)			6.10	5.51	6.81	11.45	8.55	4.41	4.76	5.35	5.30	4.51	2.96	4.71	4.22
Difference			-5.26	-17.76	-18.72	-5.42	9.49	-2.30	6.22	-7.68	-3.28	-1.28	6.96	6.23	9.48
Legacy Private Credit	234,680,306	0.53	7.65	10.50	10.85	8.00	21.24	3.26	8.35	N/A	N/A	N/A	N/A	N/A	N/A
S&P Leverage Loan Index +1% (1 Qtr Lag)			8.16	10.75	13.60	-1.65	9.54	1.84	4.14	6.63	6.42	6.40	2.25	5.35	6.89
Difference			-0.50	-0.25	-2.75	9.65	11.70	1.42	4.21	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. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Cash	2,977,012,531	6.69	4.35	5.44	5.14	1.65	0.06	0.64	2.32	2.10	1.49	0.63	0.72	0.41	0.19
ICE BofA 3 Mo US T-Bill Index			4.18	5.25	5.02	1.46	0.05	0.67	2.28	1.87	0.86	0.33	0.05	0.04	0.07
Difference			0.17	0.19	0.12	0.19	0.01	-0.03	0.04	0.22	0.63	0.30	0.67	0.38	0.12
Legacy Hedge Funds	9,446,382	0.02													

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
Total Fund	44,502,629,985	100.00	7.84	6.35	13.76	11.50	6.94	8.80	7.82	6.76	7.08	9.41	01/01/1981
Total Fund Custom Benchmark			7.39	6.16	13.90	11.89	7.27	9.24	8.53	7.78	7.77	N/A	
Difference			0.45	0.19	-0.15	-0.38	-0.34	-0.44	-0.70	-1.02	-0.68	N/A	
Public Market Equivalent Custom Benchmark			7.47	6.54	17.25	14.96	8.69	10.07	9.13	9.59	7.92	N/A	
Difference			0.37	-0.19	-3.50	-3.46	-1.76	-1.27	-1.31	-2.83	-0.84	N/A	
60/40 Benchmark			9.14	7.37	15.84	13.24	6.43	8.25	7.16	6.68	6.70	N/A	
Difference			-1.30	-1.01	-2.08	-1.74	0.51	0.55	0.66	0.09	0.38	N/A	
U.S. Equity	16,505,003,279	37.09	15.89	11.47	23.92	20.61	12.26	14.60	13.53	10.17	9.22	11.34	01/01/1981
Russell 3000 Index*			15.43	10.86	22.81	20.35	12.30	15.06	13.89	11.16	9.59	11.61	
Difference			0.46	0.61	1.11	0.25	-0.04	-0.46	-0.36	-0.99	-0.37	-0.27	
S&P 1500 Comp Index			15.28	10.89	22.87	20.22	13.01	15.18	14.09	11.29	9.65	N/A	
Difference			0.62	0.58	1.05	0.39	-0.75	-0.57	-0.55	-1.12	-0.43	N/A	
MCM Russell 1000 Index (SA)	15,175,679,241	34.10	15.12	10.31	21.97	20.45	12.76	15.34	N/A	N/A	N/A	15.05	01/01/2012
Russell 1000 Index			15.13	10.32	22.01	20.47	12.66	15.29	14.15	11.33	9.64	15.04	
Difference			-0.01	0.00	-0.04	-0.02	0.10	0.05	N/A	N/A	N/A	0.01	
S&P 500 Index (Cap Wtd)			15.20	10.21	22.33	20.61	13.41	15.51	14.36	11.39	9.55	15.19	
Difference			-0.08	0.10	-0.35	-0.16	-0.65	-0.16	N/A	N/A	N/A	-0.14	
MCM Russell 2000 Core Index (SA)	140,287,537	0.32	21.51	22.62	40.98	18.86	7.71	N/A	N/A	N/A	N/A	10.74	12/01/2016
Russell 2000 Index			21.49	22.57	40.78	18.60	6.98	11.62	10.52	8.88	8.80	10.49	
Difference			0.01	0.05	0.20	0.26	0.72	N/A	N/A	N/A	N/A	0.25	
S&P Sm Cap 600 Index (Cap Wtd)			19.70	23.90	37.50	16.05	7.37	11.52	11.41	9.67	9.95	10.40	
Difference			1.81	-1.29	3.48	2.82	0.34	N/A	N/A	N/A	N/A	0.34	
MCM Russell 2000 Val Index (SA)	448,620,631	1.01	17.16	22.96	42.98	18.75	8.31	N/A	N/A	N/A	N/A	9.39	12/01/2016
Russell 2000 Val Index			17.19	22.99	43.01	18.73	8.23	10.89	9.97	7.98	8.99	9.36	
Difference			-0.02	-0.03	-0.02	0.03	0.07	N/A	N/A	N/A	N/A	0.03	
S&P Sm Cap 600 Val Index			15.93	20.93	39.72	14.92	7.30	10.80	10.99	8.93	9.47	9.49	
Difference			1.23	2.03	3.26	3.83	1.01	N/A	N/A	N/A	N/A	-0.10	
Emerald Advisers Div Sm Cap Grth (SA)	740,415,871	1.66	39.83	39.10	75.50	32.91	14.70	N/A	N/A	N/A	N/A	16.12	12/01/2016
Russell 2000 Grth Index			25.71	22.18	38.74	18.44	5.57	11.97	10.81	9.53	8.29	11.24	
Difference			14.12	16.93	36.76	14.47	9.13	N/A	N/A	N/A	N/A	4.88	
S&P Sm Cap 600 Grth Index			23.66	27.05	35.62	17.10	7.38	12.05	11.71	10.32	10.30	11.12	
Difference			16.17	12.06	39.88	15.81	7.32	N/A	N/A	N/A	N/A	5.00	

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
International Developed Markets Equity	6,132,340,936	13.78	10.62	9.53	20.06	16.20	9.12	10.43	7.74	5.80	N/A	7.39	01/01/2002
MSCI Wrld Ex US Index (USD) (Net)*			10.22	9.19	20.99	16.73	8.77	9.67	6.89	5.71	6.80	7.38	
Difference			0.40	0.34	-0.93	-0.53	0.35	0.76	0.85	0.09	N/A	0.01	
BlackRock MSCI World ex US Index (CF)	5,612,674,702	12.61	10.43	9.70	21.49	17.32	9.78	N/A	N/A	N/A	N/A	9.21	06/01/2017
MSCI Wrld Ex US Index (USD) (Net)			10.22	9.19	20.99	16.90	9.32	9.84	6.89	5.65	6.59	8.74	
Difference			0.21	0.51	0.50	0.42	0.46	N/A	N/A	N/A	N/A	0.47	
Xponance Non-US Small Cap (CIT)	328,818,000	0.74	10.10	8.41	12.58	14.09	4.60	N/A	N/A	N/A	N/A	6.60	10/01/2018
MSCI ACW Ex US Sm Cap Index (USD) (Net)			9.62	9.10	19.83	16.42	6.30	9.10	6.78	6.56	8.85	8.06	
Difference			0.48	-0.69	-7.25	-2.33	-1.70	N/A	N/A	N/A	N/A	-1.46	
Harris Assoc Int'l SCV (SA)	185,992,377	0.42	6.76	-3.54	-0.47	9.96	4.62	8.81	6.98	6.88	N/A	10.05	07/01/2003
MSCI Wrld Ex US Sm Cap Index (USD) (Net)			7.94	7.54	19.36	16.51	6.03	8.91	7.12	6.09	8.47	9.15	
Difference			-1.18	-11.07	-19.83	-6.56	-1.40	-0.11	-0.13	0.79	N/A	0.89	
MSCI Wrld Ex US Sm Val Index (USD) (Net)			5.46	5.32	20.20	17.84	8.37	9.15	7.07	6.28	9.14	9.36	
Difference			1.30	-8.85	-20.67	-7.89	-3.74	-0.34	-0.09	0.60	N/A	0.68	
Emerging Markets Equity	1,092,110,951	2.45	23.66	23.88	43.66	22.96	6.99	11.18	5.60	5.57	N/A	8.29	01/01/2002
MSCI Emg Mkts Index (USD) (Net)*			24.05	23.85	43.51	23.39	7.85	10.32	5.48	7.04	9.68	9.90	
Difference			-0.39	0.04	0.15	-0.44	-0.85	0.86	0.12	-1.47	N/A	-1.62	
BlackRock MSCI Emg Mkts Index (CF)	1,092,033,912	2.45	23.66	23.88	43.66	22.73	6.97	N/A	N/A	N/A	N/A	8.40	07/01/2017
MSCI Emg Mkts Index (USD) (Net)			24.05	23.85	43.51	23.03	7.20	10.07	5.25	6.76	9.50	8.65	
Difference			-0.39	0.04	0.15	-0.29	-0.23	N/A	N/A	N/A	N/A	-0.25	

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
Private Equity	6,372,896,511	14.32	-2.16	-0.69	2.80	4.76	6.54	11.58	10.75	10.58	9.41	11.02	01/01/1986
Burgiss All Pvt Equity Custom Index (1 Qtr Lag)			1.11	4.30	11.81	8.05	8.55	13.29	12.51	12.03	11.20	19.04	
Difference			-3.27	-4.99	-9.01	-3.29	-2.01	-1.71	-1.76	-1.45	-1.80	-8.02	
Global Equity+3% (1 Qtr Lag)			-2.62	0.96	22.11	19.94	13.57	16.41	15.70	15.24	13.91	N/A	
Difference			0.46	-1.65	-19.31	-15.19	-7.03	-4.83	-4.95	-4.66	-4.50	N/A	
Buyouts	3,578,721,931	8.04	-2.35	-1.22	1.58	3.55	6.45	11.68	11.65	11.64	11.40	12.79	04/01/1986
Burgiss Buyout Custom Index (1 Qtr Lag)			-0.78	1.23	7.39	7.10	9.86	13.63	12.65	12.44	12.78	18.70	
Difference			-1.57	-2.44	-5.81	-3.54	-3.41	-1.95	-0.99	-0.80	-1.38	-5.91	
Special Situations	1,617,988,175	3.64	-0.89	-0.19	3.82	7.36	11.31	13.20	11.89	12.26	12.56	12.69	01/01/1995
Burgiss Special Situations Custom Index (1 Qtr Lag)			1.08	2.67	8.50	8.56	8.76	8.54	8.39	8.19	9.70	10.12	
Difference			-1.96	-2.86	-4.68	-1.20	2.55	4.66	3.50	4.07	2.86	2.57	
Growth Equity	1,066,220,408	2.40	-3.11	1.56	6.73	6.79	5.56	15.56	12.22	9.98	4.78	8.42	01/01/1986
Burgiss Venture Capital Custom Index (1 Qtr Lag)			4.60	11.31	24.32	9.72	5.44	15.48	15.60	13.48	8.07	14.14	
Difference			-7.71	-9.74	-17.59	-2.93	0.13	0.08	-3.39	-3.50	-3.29	-5.73	
Keystone Legacy	109,965,997	0.25	-4.79	-10.52	-7.28	-8.12	-10.56	N/A	N/A	N/A	N/A	-5.76	07/01/2018
Fixed Income	8,065,650,804	18.12	1.10	1.17	4.28	4.57	0.61	2.01	2.52	3.84	4.50	7.33	01/01/1981
Bloomberg US Agg Bond Index			0.67	0.62	3.79	4.16	0.08	1.54	2.28	3.32	3.65	6.65	
Difference			0.43	0.55	0.48	0.41	0.53	0.46	0.24	0.52	0.85	0.68	
Core Fixed Income	5,040,229,045	11.33	0.73	0.66	3.89	4.28	0.43	1.83	2.55	3.66	N/A	3.86	01/01/2002
Bloomberg US Agg Bond Index			0.67	0.62	3.79	4.16	0.08	1.54	2.28	3.32	3.65	3.53	
Difference			0.07	0.05	0.10	0.13	0.34	0.28	0.28	0.34	N/A	0.32	
MCM Bond Index (SA)	3,422,632,583	7.69	0.65	0.62	3.76	4.18	0.11	1.52	2.22	3.24	3.61	6.15	04/01/1984
Bloomberg US Agg Bond Index*			0.67	0.62	3.79	4.16	0.08	1.54	2.28	3.32	3.71	6.38	
Difference			-0.01	0.00	-0.03	0.02	0.02	-0.02	-0.06	-0.08	-0.09	-0.24	
Loomis Sayles Core Bond (SA)	500,061,037	1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2026
Bloomberg US Agg Bond Index			0.67	0.62	3.79	4.16	0.08	1.54	2.28	3.32	3.65	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
NISA Inv Adv Core Bond (SA)	501,237,349	1.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2026
Bloomberg US Agg Bond Index			0.67	0.62	3.79	4.16	0.08	1.54	2.28	3.32	3.65	N/A	
Difference			N/A	N/A	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. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
PIMCO Core Bond (SA)	616,298,077	1.38	1.01	0.72	5.36	5.41	0.91	2.28	N/A	N/A	N/A	2.32	01/01/2013
Bloomberg US Aggregate ex Treasury			0.54	0.49	4.28	4.78	0.41	1.93	2.59	3.62	3.91	2.20	
Difference			0.46	0.22	1.08	0.62	0.50	0.35	N/A	N/A	N/A	0.12	
Opportunistic Fixed Income	920,400,464	2.07	5.04	6.24	10.72	9.88	8.61	6.95	N/A	N/A	N/A	6.04	10/01/2012
HFRI FOF Comp Index			7.73	8.48	16.57	10.70	5.86	5.99	4.52	3.76	4.26	5.11	
Difference			-2.69	-2.24	-5.85	-0.82	2.75	0.96	N/A	N/A	N/A	0.93	
Blackstone Keystone (CF)	920,400,464	2.07	5.04	6.24	10.72	9.88	8.32	7.72	N/A	N/A	N/A	7.84	07/01/2012
HFRI FOF Comp Index			7.73	8.48	16.57	10.70	5.86	5.99	4.52	3.76	4.26	5.19	
Difference			-2.69	-2.24	-5.85	-0.82	2.46	1.73	N/A	N/A	N/A	2.65	
Nominal U.S. Treasuries	2,091,459,632	4.70	0.32	0.27	2.71	2.35	-1.82	-0.07	N/A	N/A	N/A	1.12	09/01/2011
Bloomberg US Trsy Index			0.32	0.28	2.71	3.18	-0.42	0.86	1.74	2.84	3.21	1.45	
Difference			0.00	0.00	0.00	-0.83	-1.40	-0.93	N/A	N/A	N/A	-0.33	
MCM US Treas Index (SA)	2,091,459,632	4.70	0.32	0.27	2.71	N/A	N/A	N/A	N/A	N/A	N/A	4.85	05/01/2024
Bloomberg US Trsy Index			0.32	0.28	2.71	3.18	-0.42	0.86	1.74	2.84	3.21	4.87	
Difference			0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	-0.02	
Legacy Fixed Income	13,561,662	0.03	0.10	2.61	-0.24	6.94	N/A	N/A	N/A	N/A	N/A	4.24	07/01/2022
Bloomberg US CMBS Ex AAA Index			0.53	0.98	4.20	6.52	0.55	2.79	3.63	1.06	N/A	3.53	
Difference			-0.42	1.63	-4.44	0.43	N/A	N/A	N/A	N/A	N/A	0.70	
Fidelity HY CMBS (SA)	13,561,662	0.03	0.09	2.60	-0.48	7.13	2.59	3.16	5.41	5.03	6.29	7.08	04/01/1997
Bloomberg US CMBS Ex AAA Index*			0.53	0.98	4.20	6.52	0.55	2.79	3.63	5.91	6.49	6.01	
Difference			-0.43	1.62	-4.68	0.61	2.04	0.37	1.78	-0.88	-0.20	1.07	
Inflation Protection (TIPS)	1,026,877,055	2.31	0.81	1.11	3.30	3.92	0.63	2.38	2.03	3.15	N/A	3.01	02/01/2003
Bloomberg US Trsy US TIPS Index			0.89	1.15	3.42	3.98	1.01	2.58	2.60	3.66	4.32	3.85	
Difference			-0.08	-0.04	-0.12	-0.06	-0.38	-0.21	-0.57	-0.51	N/A	-0.84	
NISA Inv Adv TIPS (SA)	501,827,218	1.13	0.83	1.11	3.30	3.96	1.00	2.56	2.03	N/A	N/A	2.99	04/01/2007
Bloomberg US Trsy US TIPS Index*			0.89	1.15	3.42	3.98	1.01	2.58	2.03	N/A	N/A	N/A	
Difference			-0.06	-0.04	-0.12	-0.02	-0.01	-0.02	0.00	N/A	N/A	N/A	
Brown Brothers TIPS (SA)	525,049,837	1.18	0.80	1.11	3.30	3.91	0.92	2.51	N/A	N/A	N/A	2.09	02/01/2012
Bloomberg US Trsy US TIPS Index			0.89	1.15	3.42	3.98	1.01	2.58	2.60	3.66	4.32	2.04	
Difference			-0.09	-0.04	-0.12	-0.07	-0.09	-0.07	N/A	N/A	N/A	0.05	

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Incep.	Inception Date
Real Estate	2,085,576,244	4.69	0.72	-0.83	-1.85	-6.38	-1.99	0.92	3.83	2.40	4.72	7.02	03/01/1984
Real Estate Custom Benchmark			1.04	1.75	3.14	-3.05	1.85	3.58	6.34	4.56	5.97	N/A	
Difference			-0.32	-2.58	-4.99	-3.33	-3.83	-2.66	-2.51	-2.16	-1.25	N/A	
CPI (All Urban Consumers) +3% (1 Qtr Lag)			2.66	3.18	6.35	6.13	7.64	6.42	5.72	5.62	5.62	5.92	
Difference			-1.94	-4.01	-8.20	-12.51	-9.63	-5.50	-1.89	-3.22	-0.90	1.11	
Real Estate Securities	177,813,788	0.40	13.01	18.80	22.67	13.56	6.51	6.81	7.66	6.57	9.37	9.46	04/01/1996
FTSE NAREIT Eq REITs Index (TR)			12.43	17.83	21.53	12.47	5.90	6.11	8.23	6.77	9.18	9.56	
Difference			0.58	0.97	1.15	1.10	0.60	0.71	-0.57	-0.21	0.18	-0.11	
CenterSquare (SA)	177,811,755	0.40	13.01	18.80	22.67	13.55	6.65	7.00	9.14	8.21	N/A	10.53	05/01/2002
FTSE NAREIT Eq REITs Index (TR)			12.43	17.83	21.53	12.47	5.90	6.11	8.23	6.77	9.18	9.02	
Difference			0.58	0.97	1.14	1.08	0.75	0.89	0.91	1.44	N/A	1.52	
Core/Core Plus Real Estate Funds	1,000,932,714	2.25	-1.07	-1.42	-1.43	-2.92	1.72	3.82	6.73	5.16	6.11	6.32	09/01/1986
NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag)			1.04	1.75	3.11	-2.81	2.34	3.79	6.52	4.58	5.66	5.63	
Difference			-2.11	-3.17	-4.54	-0.11	-0.62	0.03	0.21	0.58	0.44	0.69	
Value Add/Opportunistic SMA	97,959,161	0.22	-10.82	-27.93	-42.83	-36.01	-23.84	-12.09	-5.49	-4.97	-1.83	0.82	06/01/1988
NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag)			1.04	1.75	3.11	-2.81	2.34	3.79	6.52	4.58	5.66	5.64	
Difference			-11.87	-29.67	-45.94	-33.20	-26.18	-15.87	-12.00	-9.55	-7.49	-4.82	
Value Add/Opportunistic Funds	808,870,581	1.82	2.18	1.06	3.83	-2.54	1.23	4.31	6.69	3.66	6.05	7.02	03/01/1984
NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag)			1.04	1.75	3.11	-2.81	2.34	3.79	6.52	4.58	5.66	5.92	
Difference			1.14	-0.68	0.72	0.28	-1.11	0.52	0.17	-0.92	0.39	1.10	
Legacy Private Credit	234,680,306	0.53	-1.34	0.83	5.04	8.35	9.08	N/A	N/A	N/A	N/A	9.46	04/01/2018
S&P Leveraged Loan Index +1.0% (1 Qtr Lag)			-0.23	1.21	5.84	9.10	6.91	6.65	5.93	5.84	5.94	6.29	
Difference			-1.12	-0.38	-0.80	-0.75	2.18	N/A	N/A	N/A	N/A	3.17	
Cash	2,977,012,531	6.69	0.92	1.85	3.99	4.80	3.68	2.52	1.82	1.96	2.14	3.51	01/01/1987
ICE BofA 3 Mo US T-Bill Index			0.88	1.74	3.84	4.64	3.52	2.34	1.58	1.69	1.80	3.25	
Difference			0.03	0.11	0.15	0.16	0.16	0.18	0.23	0.27	0.34	0.26	

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Total Fund	44,502,629,985	100.00	13.69	9.82	12.22	-12.15	17.24	11.11	18.75	-4.55	15.08	6.51	0.40	6.35	13.61
Total Fund Custom Benchmark			14.41	9.88	12.74	-11.78	17.51	13.50	16.81	-2.09	14.46	6.81	2.85	7.32	14.13
Difference			-0.73	-0.05	-0.53	-0.37	-0.27	-2.40	1.94	-2.46	0.62	-0.30	-2.45	-0.97	-0.52
Public Market Equivalent Custom Benchmark			16.91	15.19	17.12	-13.69	13.64	13.24	16.28	-1.02	16.07	8.44	0.60	7.59	15.52
Difference			-3.23	-5.36	-4.91	1.55	3.60	-2.13	2.47	-3.53	-0.99	-1.92	-0.21	-1.24	-1.91
60/40 Benchmark			16.06	10.14	15.03	-16.04	10.03	13.56	19.28	-5.93	15.39	6.22	-0.88	4.77	12.74
Difference			-2.37	-0.32	-2.81	3.90	7.21	-2.45	-0.53	1.39	-0.31	0.29	1.27	1.58	0.87
U.S. Equity	16,505,003,279	37.09	17.72	23.38	25.56	-19.06	24.62	21.28	30.37	-7.48	20.54	11.17	-0.53	11.22	34.14
Russell 3000 Index*			17.15	23.81	25.96	-19.21	25.66	20.89	31.02	-5.24	21.13	12.74	0.48	12.56	33.55
Difference			0.58	-0.43	-0.39	0.15	-1.04	0.39	-0.65	-2.24	-0.59	-1.57	-1.01	-1.34	0.58
S&P 1500 Comp Index			17.02	23.95	25.47	-17.78	28.44	17.92	30.90	-4.96	21.13	13.03	1.01	13.08	32.80
Difference			0.71	-0.57	0.10	-1.28	-3.83	3.36	-0.54	-2.51	-0.59	-1.86	-1.55	-1.87	1.34
MCM Russell 1000 Index (SA)	15,175,679,241	34.10	17.36	24.43	26.60	-18.88	26.66	20.85	31.37	-4.63	21.62	12.15	0.94	13.20	33.12
Russell 1000 Index			17.37	24.51	26.53	-19.13	26.45	20.96	31.43	-4.78	21.69	12.05	0.92	13.24	33.11
Difference			-0.01	-0.08	0.07	0.25	0.21	-0.11	-0.06	0.15	-0.07	0.10	0.02	-0.04	0.01
S&P 500 Index (Cap Wtd)			17.88	25.02	26.29	-18.11	28.71	18.40	31.49	-4.38	21.83	11.96	1.38	13.69	32.39
Difference			-0.52	-0.59	0.31	-0.77	-2.04	2.45	-0.12	-0.25	-0.21	0.19	-0.44	-0.49	0.73
MCM Russell 2000 Core Index (SA)	140,287,537	0.32	13.11	12.00	17.03	-20.33	17.16	19.04	25.52	-11.04	14.62	N/A	N/A	N/A	N/A
Russell 2000 Index			12.81	11.54	16.93	-20.44	14.82	19.96	25.53	-11.01	14.65	21.31	-4.41	4.89	38.82
Difference			0.31	0.46	0.10	0.11	2.35	-0.92	-0.01	-0.03	-0.02	N/A	N/A	N/A	N/A
S&P Sm Cap 600 Index (Cap Wtd)			6.02	8.70	16.05	-16.10	26.82	11.29	22.78	-8.48	13.23	26.56	-1.97	5.76	41.31
Difference			7.10	3.30	0.98	-4.23	-9.65	7.75	2.74	-2.56	1.39	N/A	N/A	N/A	N/A
MCM Russell 2000 Val Index (SA)	448,620,631	1.01	12.71	8.08	14.69	-14.32	28.33	4.66	22.36	-12.90	7.79	N/A	N/A	N/A	N/A
Russell 2000 Val Index			12.59	8.05	14.65	-14.48	28.27	4.63	22.39	-12.86	7.84	31.74	-7.47	4.22	34.52
Difference			0.11	0.02	0.05	0.17	0.06	0.02	-0.04	-0.04	-0.05	N/A	N/A	N/A	N/A
S&P Sm Cap 600 Val Index			6.70	7.56	14.89	-11.04	30.95	2.53	24.54	-12.64	11.51	31.32	-6.67	7.54	39.98
Difference			6.01	0.52	-0.19	-3.27	-2.61	2.12	-2.18	-0.26	-3.73	N/A	N/A	N/A	N/A
Emerald Advisers Div Sm Cap Grth (SA)	740,415,871	1.66	33.92	19.85	18.59	-24.10	3.31	36.46	30.17	-11.14	26.09	N/A	N/A	N/A	N/A
Russell 2000 Grth Index			13.01	15.15	18.66	-26.36	2.83	34.63	28.48	-9.31	22.17	11.32	-1.38	5.60	43.30
Difference			20.91	4.69	-0.07	2.26	0.47	1.83	1.69	-1.83	3.92	N/A	N/A	N/A	N/A
S&P Sm Cap 600 Grth Index			5.37	9.63	17.10	-21.08	22.62	19.60	21.13	-4.05	14.79	22.16	2.78	3.87	42.69
Difference			28.55	10.22	1.49	-3.02	-19.32	16.86	9.04	-7.08	11.30	N/A	N/A	N/A	N/A

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
International Developed Markets Equity	6,132,340,936	13.78	28.87	4.97	18.99	-15.17	14.48	9.62	23.90	-14.83	29.12	2.05	-1.88	-4.85	23.65
MSCI Wrld Ex US Index (USD) (Net)*			31.85	4.15	17.18	-15.26	12.40	8.32	22.91	-14.68	25.17	2.95	-1.95	-4.45	21.57
Difference			-2.98	0.81	1.81	0.08	2.08	1.30	1.00	-0.15	3.95	-0.90	0.07	-0.39	2.08
BlackRock MSCI World ex US Index (CF)	5,612,674,702	12.61	32.48	4.82	18.40	-13.85	13.11	8.01	22.99	-13.76	N/A	N/A	N/A	N/A	N/A
MSCI Wrld Ex US Index (USD) (Net)			31.85	4.70	17.94	-14.29	12.62	7.59	22.49	-14.09	24.21	2.75	-3.04	-4.32	21.02
Difference			0.63	0.12	0.46	0.44	0.48	0.42	0.50	0.33	N/A	N/A	N/A	N/A	N/A
Xponance Non-US Small Cap (CIT)	328,818,000	0.74	23.35	4.78	15.89	-22.67	11.78	9.38	22.82	N/A	N/A	N/A	N/A	N/A	N/A
MSCI ACW Ex US Sm Cap Index (USD) (Net)			29.26	3.36	15.66	-19.97	12.93	14.24	22.42	-18.20	31.65	3.91	2.60	-4.03	19.73
Difference			-5.91	1.43	0.23	-2.70	-1.15	-4.86	0.40	N/A	N/A	N/A	N/A	N/A	N/A
Harris Assoc Int'l SCV (SA)	185,992,377	0.42	30.32	-2.22	20.11	-14.34	19.02	7.32	32.78	-23.53	27.48	7.28	0.98	-6.81	31.25
MSCI Wrld Ex US Sm Cap Index (USD) (Net)			34.07	2.76	12.62	-20.59	11.14	12.78	25.41	-18.07	31.04	4.32	5.46	-5.35	25.55
Difference			-3.75	-4.99	7.49	6.25	7.88	-5.46	7.37	-5.46	-3.55	2.96	-4.48	-1.46	5.70
MSCI Wrld Ex US Sm Val Index (USD) (Net)			38.55	2.95	14.70	-14.00	13.27	2.58	22.83	-18.38	27.93	7.87	1.06	-5.87	27.73
Difference			-8.23	-5.18	5.41	-0.34	5.76	4.74	9.96	-5.15	-0.44	-0.59	-0.08	-0.94	3.52
Emerging Markets Equity	1,092,110,951	2.45	32.79	8.64	11.40	-22.84	-0.45	24.45	21.32	-15.82	41.38	10.32	-12.38	-5.93	-1.09
MSCI Emg Mkts Index (USD) (Net)*			33.57	7.43	11.67	-19.83	-0.28	18.39	17.65	-15.05	36.83	9.90	-13.86	-1.79	-2.20
Difference			-0.78	1.21	-0.27	-3.00	-0.17	6.05	3.67	-0.78	4.55	0.42	1.48	-4.14	1.10
BlackRock MSCI Emg Mkts Index (CF)	1,092,033,912	2.45	33.63	7.13	9.25	-20.20	-2.75	17.85	18.12	-14.75	N/A	N/A	N/A	N/A	N/A
MSCI Emg Mkts Index (USD) (Net)			33.57	7.50	9.83	-20.09	-2.54	18.31	18.42	-14.57	37.28	11.19	-14.92	-2.19	-2.60
Difference			0.06	-0.38	-0.57	-0.11	-0.21	-0.46	-0.30	-0.18	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. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Private Equity	6,372,896,511	14.32	5.91	6.28	6.59	-5.06	52.83	18.37	9.55	11.90	12.83	6.79	6.42	13.15	12.56
Burgiss All Pvt Equity Custom Index (1 Qtr Lag)			10.13	8.20	4.51	-1.71	50.24	15.78	9.18	16.91	15.61	8.92	8.71	16.61	15.93
Difference			-4.22	-1.93	2.08	-3.35	2.59	2.59	0.38	-5.01	-2.78	-2.13	-2.29	-3.46	-3.37
Global Equity+3% (1 Qtr Lag)			19.87	35.89	24.90	-15.48	33.88	15.55	6.65	20.71	21.76	18.22	2.71	20.90	24.74
Difference			-13.96	-29.61	-18.31	10.43	18.95	2.82	2.91	-8.81	-8.93	-11.43	3.72	-7.76	-12.18
Buyouts	3,578,721,931	8.04	5.20	4.14	7.61	-0.41	41.70	20.77	8.69	13.04	15.32	10.85	7.77	15.31	13.75
Burgiss Buyout Custom Index (1 Qtr Lag)			8.12	9.41	9.44	2.03	47.10	13.28	8.44	16.20	18.88	12.03	6.25	15.12	16.53
Difference			-2.91	-5.27	-1.83	-2.44	-5.40	7.49	0.25	-3.16	-3.56	-1.18	1.52	0.19	-2.78
Special Situations	1,617,988,175	3.64	7.22	10.74	8.78	10.74	48.46	9.32	17.28	7.55	17.50	1.13	1.67	9.00	16.79
Burgiss Special Situations Custom Index (1 Qtr Lag)			8.45	10.18	10.17	4.09	19.76	2.10	4.02	9.01	10.42	5.96	4.52	11.96	13.83
Difference			-1.23	0.56	-1.39	6.66	28.70	7.21	13.26	-1.47	7.09	-4.82	-2.85	-2.96	2.96
Growth Equity	1,066,220,408	2.40	8.82	8.86	1.36	-15.66	81.31	37.49	22.47	23.49	4.36	1.25	6.09	9.93	6.07
Burgiss Venture Capital Custom Index (1 Qtr Lag)			16.80	4.41	-8.88	-10.93	78.30	30.83	14.67	25.42	10.25	3.31	25.46	28.90	15.49
Difference			-7.99	4.45	10.24	-4.73	3.00	6.65	7.80	-1.93	-5.89	-2.06	-19.37	-18.98	-9.42
Keystone Legacy	109,965,997	0.25	-9.57	-7.77	1.83	-41.45	57.71	-6.30	-1.97	N/A	N/A	N/A	N/A	N/A	N/A
Fixed Income	8,065,650,804	18.12	7.03	2.48	5.57	-12.34	-0.75	5.78	9.51	-0.99	4.68	5.62	-2.73	6.21	-1.37
Bloomberg US Agg Bond Index			7.30	1.25	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
Difference			-0.27	1.23	0.04	0.67	0.79	-1.72	0.80	-1.01	1.13	2.97	-3.28	0.25	0.66
Core Fixed Income	5,040,229,045	11.33	7.24	1.69	5.76	-11.94	-1.58	6.86	9.64	-0.60	4.34	3.54	-0.02	5.98	-2.10
Bloomberg US Agg Bond Index			7.30	1.25	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
Difference			-0.06	0.44	0.23	1.07	-0.03	-0.65	0.93	-0.62	0.80	0.89	-0.57	0.01	-0.08
MCM Bond Index (SA)	3,422,632,583	7.69	7.24	1.48	5.62	-13.00	-1.76	7.42	8.65	0.01	3.54	2.51	0.51	5.98	-2.25
Bloomberg US Agg Bond Index*			7.30	1.25	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
Difference			-0.07	0.23	0.09	0.01	-0.21	-0.08	-0.07	0.00	0.00	-0.14	-0.04	0.02	-0.23
Loomis Sayles Core Bond (SA)	500,061,037	1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bloomberg US Agg Bond Index			7.30	1.25	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NISA Inv Adv Core Bond (SA)	501,237,349	1.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bloomberg US Agg Bond Index			7.30	1.25	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
Difference			N/A	N/A	N/A	N/A	N/A	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. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
PIMCO Core Bond (SA)	616,298,077	1.38	9.35	2.50	6.80	-13.21	-0.86	7.65	9.80	-0.79	4.98	3.48	0.14	5.87	-2.75
Bloomberg US Aggregate ex Treasury			8.14	1.76	6.58	-13.35	-1.08	6.85	9.93	-0.51	4.26	3.58	0.39	6.47	-1.61
Difference			1.22	0.73	0.22	0.14	0.22	0.81	-0.13	-0.29	0.72	-0.10	-0.25	-0.60	-1.14
Opportunistic Fixed Income	920,400,464	2.07	7.92	10.94	7.62	6.46	8.01	2.87	10.84	-2.08	6.52	11.11	-8.50	7.44	5.75
HFRI FOF Comp Index			10.48	9.15	6.07	-5.31	6.17	10.88	8.39	-4.02	7.77	0.51	-0.27	3.37	8.96
Difference			-2.56	1.79	1.55	11.77	1.84	-8.01	2.45	1.93	-1.25	10.59	-8.23	4.07	-3.21
Blackstone Keystone (CF)	920,400,464	2.07	7.92	10.94	7.62	6.67	11.00	2.54	11.18	-0.34	7.94	2.92	2.29	9.51	15.72
HFRI FOF Comp Index			10.48	9.15	6.07	-5.31	6.17	10.88	8.39	-4.02	7.77	0.51	-0.27	3.37	8.96
Difference			-2.56	1.79	1.55	11.98	4.82	-8.34	2.79	3.68	0.16	2.41	2.56	6.14	6.76
Nominal U.S. Treasuries	2,091,459,632	4.70	6.29	0.11	3.55	-17.68	-5.71	11.12	8.78	0.60	2.42	0.48	1.18	10.39	-7.46
Bloomberg US Trsy Index			6.32	0.58	4.05	-12.46	-2.32	8.00	6.86	0.86	2.31	1.04	0.84	5.05	-2.75
Difference			-0.02	-0.47	-0.50	-5.22	-3.39	3.12	1.92	-0.26	0.11	-0.56	0.34	5.33	-4.71
MCM US Treas Index (SA)	2,091,459,632	4.70	6.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bloomberg US Trsy Index			6.32	0.58	4.05	-12.46	-2.32	8.00	6.86	0.86	2.31	1.04	0.84	5.05	-2.75
Difference			-0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Legacy Fixed Income	13,561,662	0.03	4.64	16.46	-3.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bloomberg US CMBS Ex AAA Index			7.94	6.04	3.63	-13.65	2.86	4.13	10.39	2.05	6.03	4.57	0.07	3.89	1.43
Difference			-3.31	10.42	-7.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fidelity HY CMBS (SA)	13,561,662	0.03	4.38	17.36	-4.14	-7.37	8.10	-5.48	8.11	3.45	5.68	3.13	3.89	10.37	10.70
Bloomberg US CMBS Ex AAA Index*			7.94	6.04	3.63	-13.65	2.86	4.13	10.39	2.05	6.03	4.57	0.07	3.89	1.43
Difference			-3.56	11.32	-7.78	6.28	5.24	-9.61	-2.29	1.41	-0.36	-1.44	3.82	6.48	9.28
Inflation Protection (TIPS)	1,026,877,055	2.31	7.03	1.81	3.85	-12.99	5.16	11.04	8.36	-1.75	3.89	4.64	-1.71	3.87	-8.12
Bloomberg US Trsy US TIPS Index			7.01	1.84	3.90	-11.85	5.96	10.99	8.43	-1.26	3.01	4.68	-1.44	3.64	-8.61
Difference			0.02	-0.02	-0.05	-1.15	-0.79	0.05	-0.07	-0.49	0.89	-0.05	-0.27	0.23	0.49
NISA Inv Adv TIPS (SA)	501,827,218	1.13	6.98	2.05	3.81	-11.90	5.95	10.89	8.35	-1.32	3.12	4.70	-1.39	3.61	-8.69
Bloomberg US Trsy US TIPS Index*			7.01	1.84	3.90	-11.85	5.96	10.99	8.43	-1.26	3.01	4.68	-1.44	3.64	-8.61
Difference			-0.03	0.22	-0.08	-0.06	-0.01	-0.10	-0.08	-0.05	0.12	0.02	0.05	-0.03	-0.08
Brown Brothers TIPS (SA)	525,049,837	1.18	7.07	1.88	3.51	-11.67	5.79	10.64	8.42	-1.36	2.90	4.93	-1.09	3.79	-8.44
Bloomberg US Trsy US TIPS Index			7.01	1.84	3.90	-11.85	5.96	10.99	8.43	-1.26	3.01	4.68	-1.44	3.64	-8.61
Difference			0.06	0.04	-0.38	0.18	-0.17	-0.36	0.00	-0.10	-0.11	0.24	0.35	0.15	0.16

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Pennsylvania State Employees' Retirement System Defined Benefit Plan
Asset Allocation & Performance - Net

As of June 30, 2026

	Allocation		Performance (%)												
	Market Value (\$)	%	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Real Estate	2,085,576,244	4.69	0.84	-12.25	-11.91	6.02	18.04	2.11	10.98	-2.34	2.02	3.23	9.92	10.94	13.70
Real Estate Custom Benchmark			3.07	-8.44	-13.08	17.38	17.48	0.25	4.75	7.24	5.61	9.87	12.86	11.38	12.41
Difference			-2.23	-3.81	1.17	-11.36	0.56	1.86	6.23	-9.57	-3.59	-6.65	-2.94	-0.44	1.29
CPI (All Urban Consumers) +3% (1 Qtr Lag)			6.10	5.51	6.81	11.45	8.55	4.41	4.76	5.35	5.30	4.51	2.96	4.71	4.22
Difference			-5.26	-17.76	-18.72	-5.42	9.49	-2.30	6.22	-7.68	-3.28	-1.28	6.96	6.23	9.48
Real Estate Securities	177,813,788	0.40	2.77	11.26	13.21	-23.73	42.47	-4.20	26.81	-3.52	-4.74	13.96	4.63	8.44	12.02
FTSE NAREIT Eq REITs Index (TR)			2.88	8.73	13.73	-24.34	43.24	-8.00	26.00	-4.62	5.23	8.52	3.20	30.14	2.47
Difference			-0.11	2.53	-0.52	0.61	-0.76	3.80	0.81	1.10	-9.97	5.44	1.43	-21.70	9.55
CenterSquare (SA)	177,811,755	0.40	2.76	11.26	14.14	-23.73	42.15	-4.20	26.80	-5.00	6.33	8.46	4.95	32.21	3.24
FTSE NAREIT Eq REITs Index (TR)			2.88	8.73	13.73	-24.34	43.24	-8.00	26.00	-4.62	5.23	8.52	3.20	30.14	2.47
Difference			-0.12	2.53	0.40	0.61	-1.09	3.80	0.80	-0.37	1.10	-0.06	1.76	2.07	0.77
Core/Core Plus Real Estate Funds	1,000,932,714	2.25	2.80	-7.13	-6.17	14.63	12.91	2.11	4.00	8.80	5.91	9.89	12.19	11.28	12.74
NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag)			3.19	-8.04	-12.88	20.96	13.64	0.52	4.64	7.71	6.70	9.08	13.86	11.36	11.97
Difference			-0.39	0.91	6.72	-6.32	-0.74	1.59	-0.65	1.09	-0.79	0.81	-1.68	-0.08	0.77
Value Add/Opportunistic SMA	97,959,161	0.22	-19.07	-43.83	-31.23	0.88	12.67	8.22	15.76	-12.22	1.57	-2.35	11.44	9.43	14.65
NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag)			3.19	-8.04	-12.88	20.96	13.64	0.52	4.64	7.71	6.70	9.08	13.86	11.36	11.97
Difference			-22.26	-35.79	-18.35	-20.08	-0.97	7.71	11.12	-19.93	-5.13	-11.43	-2.43	-1.94	2.68
Value Add/Opportunistic Funds	808,870,581	1.82	3.81	-6.96	-10.80	12.11	23.05	-1.54	5.60	8.98	8.03	6.01	9.46	16.34	15.37
NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag)			3.19	-8.04	-12.88	20.96	13.64	0.52	4.64	7.71	6.70	9.08	13.86	11.36	11.97
Difference			0.62	1.08	2.09	-8.85	9.40	-2.06	0.96	1.28	1.33	-3.07	-4.40	4.98	3.40
Legacy Private Credit	234,680,306	0.53	7.65	10.50	10.85	8.00	21.24	3.26	8.35	N/A	N/A	N/A	N/A	N/A	N/A
S&P Leveraged Loan Index +1.0% (1 Qtr Lag)			8.16	10.75	13.60	-1.65	9.54	1.84	4.14	6.63	6.42	6.40	2.25	5.35	6.89
Difference			-0.50	-0.25	-2.75	9.65	11.70	1.42	4.21	N/A	N/A	N/A	N/A	N/A	N/A
Cash	2,977,012,531	6.69	4.35	5.44	5.14	1.65	0.06	0.64	2.32	2.10	1.49	0.63	0.72	0.41	0.19
ICE BofA 3 Mo US T-Bill Index			4.18	5.25	5.02	1.46	0.05	0.67	2.28	1.87	0.86	0.33	0.05	0.04	0.07
Difference			0.17	0.19	0.12	0.19	0.01	-0.03	0.04	0.22	0.63	0.30	0.67	0.38	0.12

Performance shown is net of fees. Performance is annualized for periods greater than one year. *See addendum for custom benchmark definitions.

Appendix

Performance Related Comments:

- Performance and accounting data are provided by BNY Mellon.
- Market Values shown are net of accrued fees.
- Performance for the Burgiss Custom Indices is available 1 quarter in arrears, 0.00% return is assumed for inter-quarter months and until available.

Custom Benchmark Definitions:

- Total Fund Custom Benchmark currently consists of 19% Bloomberg U.S. Aggregate Index, 16% SERS Private Equity Composite, 37% Russell 3000 Index, 14% MSCI World ex U.S. (Net), 7% NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag), 2% MSCI Emerging Markets (Net), 3% Bloomberg U.S. TIPS Index, and 2% ICE BofA 3 Month U.S. T-Bill. Prior to 10/01/2025, Total Fund Custom Benchmark consisted of 19% Bloomberg U.S. Aggregate Index, 16% SERS Private Equity Composite, 37% Russell 3000 Index, 14% MSCI World ex U.S. (Net), 7% NCREIF ODCE Index (EWA) (Net) (1 Qtr Lag), 2% MSCI Emerging Markets (Net), 3% Bloomberg U.S. TIPS Index, and 2% ICE BofA 3 Month U.S. T-Bill. Prior to 01/01/2025, Total Fund Custom Benchmark returns were provided by Callan.
- Public Market Equivalent Custom Benchmark currently consists of 19% Bloomberg U.S. Aggregate Index, 37% Russell 3000 Index, 14% MSCI World ex U.S. (Net), 12% Russell 3000 Index +3% (1 Qtr Lag), 7% Consumer Price Index (All Urban Consumers) +3% (1 Qtr Lag), 3% Bloomberg U.S. TIPS Index, 2% MSCI Emerging Markets (Net), 4% MSCI World ex U.S. (Net) +3% (1 Qtr Lag), and 2% ICE BofA 3 Month U.S. T-Bill. Public Market Equivalent Custom Benchmark returns prior to 01/01/2024 were provided by Callan.
- 60/40 Benchmark consists of 60% MSCI AC World IMI Index (Net) and 40% Bloomberg U.S. Aggregate Index.
- Russell 3000 Index* currently consists of 100% Russell 3000 Index. Prior to 01/01/1999, the benchmark consisted of 100% Wilshire 5000 Value Weighted Total Index.
- MSCI Wrld Ex US Index (USD) (Net)* currently consists of 100% MSCI World ex U.S. (Net). Prior to 07/01/2024, the benchmark consisted of 100% MSCI World ex U.S. IMI Index (Net).
- MSCI Emg Mkts Index (USD) (Net)* currently consists of 100% MSCI Emerging Markets (Net). Prior to 07/01/2024, the benchmark consisted of 100% MSCI Emerging Markets IMI (Net).
- Global Equity +3% (1 Qtr Lag) currently consists of 75% Russell 3000 Index +3% (1 Qtr Lag) and 25% MSCI World ex U.S. (Net) (1 Qtr Lag). Global Equity +3% (1 Qtr Lag) returns prior to 01/01/2025 were provided by Callan.
- Bloomberg US Agg Bond Index* currently consists of 100% Bloomberg U.S. Aggregate Index. Prior to 12/31/2002, the benchmark consisted of 20% Bloomberg U.S. Government: Intermediate Index, 30% Bloomberg U.S. Government: Long Term Bond Index, 25% Bloomberg U.S. Corporate Investment Grade Index, and 25% Bloomberg U.S. Mortgage Backed Securities.
- Bloomberg US CMBS Ex AAA Index* currently consists of 100% Bloomberg U.S. CMBS ex AAA Index. Prior to 01/01/2010, the benchmark consisted of 100% FTSE High Yield Market Index.
- Bloomberg US Trsy US TIPS Index* currently consists of 100% Bloomberg U.S. TIPS Index. Prior to 01/01/2013, the benchmark was a custom blend of TIPS based on the following: 1) Identify all TIPS with real durations between 4 and 6 years and find the average duration of all such; 2) Identify all TIPS with real durations between 2 and 4 years and find the average duration of all such securities 3) Weight each of the buckets created in steps 1 and 2 such that the weighted average real duration of all included securities is 4.0 years. If there are less than two securities identified in #1 above, the two TIPS with real durations immediately above 4 years will be identified. If there are less than two securities identified in #2 above, the two TIPS with real durations immediately below 4 years will be identified.
- Real Estate Custom Benchmark currently consists of 100% NCREIF ODCE Index (AWA) (Net) (1 Qtr Lag). Prior to 10/01/2025, Real Estate Custom Benchmark consisted of 100% NCREIF ODCE Index (EWA) (Net) (1 Qtr Lag). Prior to 01/01/2025, Real Estate Custom Benchmark returns were provided by Callan.

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:

<u>S&P</u>	<u>Moody's</u>	<u>Explanation</u>	<u>S&P</u>	<u>Moody's</u>	<u>Explanation</u>
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. Attribution to "Other" is the result of securities based in industries that do not fit into any GICS classification.

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. Attribution to "EMEA" represents securities based in Europe, the Middle East, and Africa. Attribution to "Other" is the result of securities based in countries/regions that do not fit into any MSCI classification.

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, and 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.

Glossary

Capital Markets Review -

Breakeven 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.

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.

Unemployment Rate - The percentage of the total labor force that is unemployed but actively seeking employment.

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.

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 that 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 BofA 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.

Glossary

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.

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.

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.

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 - RVK calculates performance for investment managers and composites using different methodologies.

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 & Distribution (%) - Due to disclosure guidelines set by each investment manager, portfolio characteristics and distribution percentages shown are as of the most recent date available.

Price to Earnings Ratio - The ratio valuing a company's current share price relative to its trailing 12-month per-share earnings (EPS).

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 BofA 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.

<u>Asset Class</u>	<u>RVK Liquidity Rating</u>	<u>Asset Class</u>	<u>RVK Liquidity Rating</u>
<u>Liquid Investments</u>		<u>Less Liquid Investments</u>	
T-Bills and Treasuries	100	Fixed Income Plus Sector	50
Cash Equivalents	98	Stable Value (Plan Sponsor Directed)	50
TIPS	95	Hedge Funds of Funds	35
US Large Cap Equity	95		
Diversified Real Return	93		
Stable Value (Participant Directed)	91		
Global Equity	90	<u>Not Liquid Investments</u>	
Non-US Large Cap Equity	90	Core Real Estate	25
Global Tactical Asset Allocation	88	Core Plus Real Estate	15
MLPs	85	Non-Core Real Estate	5
US Mid Cap Equity	85	Private Equity	5
US SMid Cap Equity	85	Private Credit	5
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. An allocation to "Other" is the result of securities that do not fit into RVK's standardized classification, such as Catastrophe, CLOs, Common Stock, Convertibles, CRTs, Derivatives, Direct Loans, Emerging Markets Local Corporates, ETFs, FX Forwards, Infrastructure Debt, Reverse Repo, Swaps, Trade Finance, Unsecured Bonds, and Other Assets.

Sharpe Ratio - Represents the excess rate of return over the risk-free return (i.e., ICE BofA 3 Mo US T-Bill Index unless specified otherwise), divided by the standard deviation of the portfolio. 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:

<u>Alpha</u>	<u>Capital Appreciation</u>	<u>Capital Preservation</u>	<u>Inflation</u>
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 the 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.

Glossary

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.

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 BofA 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 portfolio's 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.

RVK

Disclaimer of Warranties and Limitation of Liability - This document was prepared by RVK, Inc. (RVK) and may include information and data from some or all of the following sources: client staff; custodian banks; investment managers; specialty investment consultants; actuaries; plan administrators/record-keepers; index providers; as well as other third-party sources as directed by the client or as we believe necessary or appropriate. In the preparation of this document, the author(s) may have used Microsoft CoPilot to conduct any of the following: proofreading and editing, visual layout and design, assistance with data organization, support with modeling, coding and programming, drafting content with appropriate human oversight, and initial review and summarization of drafted materials. RVK has taken reasonable care to ensure the accuracy of the information or data, but makes no warranties and disclaims responsibility for the accuracy or completeness of information or data provided or methodologies employed by any external source. It should not be construed as legal or tax advice. It does not constitute a recommendation by RVK or an offer of, or a solicitation for, any particular security and it is not intended to convey any guarantees as to the future performance of the investment products, asset classes, or capital markets. This document should not be construed as investment advice: it does not reflect all potential risks with regard to the client's investments and should not be used to make investment decisions without additional considerations or discussions about the risks and limitations involved. Any decision, investment or otherwise, made on the basis of this document is the sole responsibility of the client or intended recipient.