

Wilshire

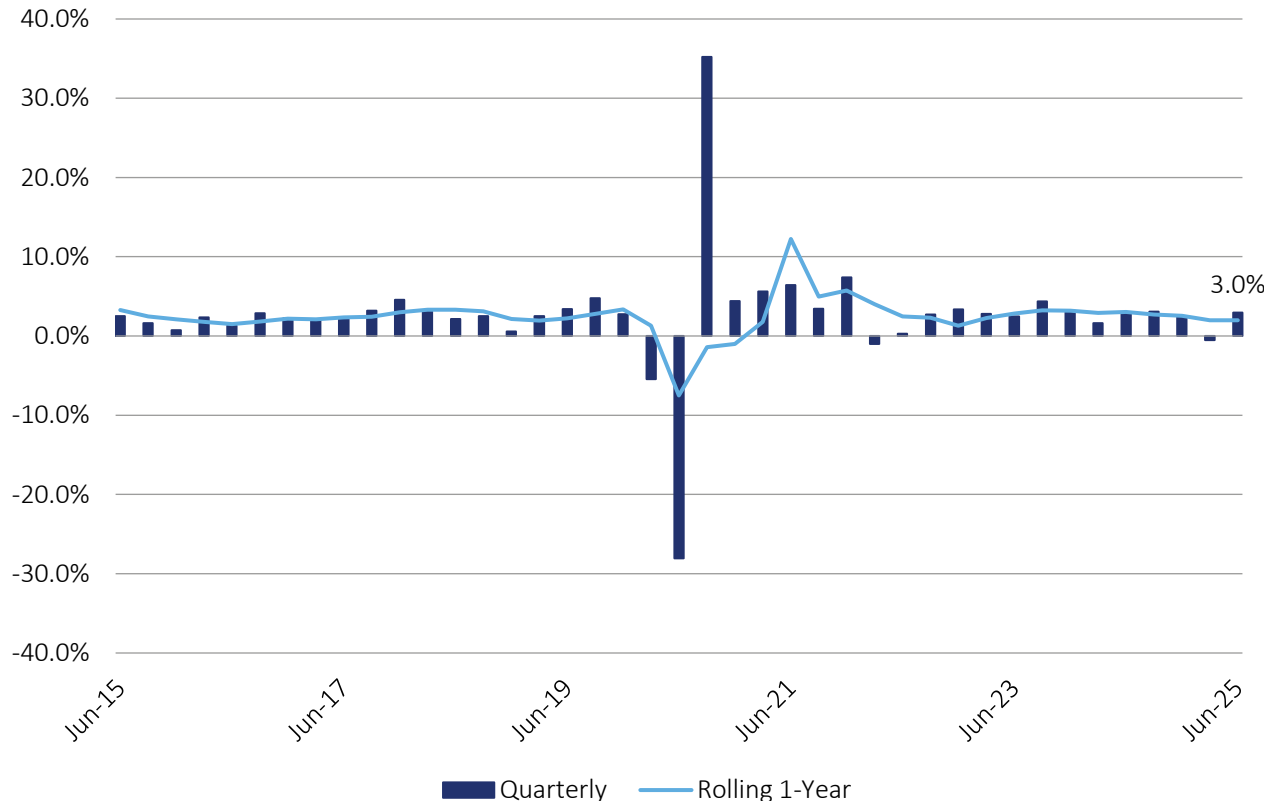
California Public Employees' Retirement System

Performance Review

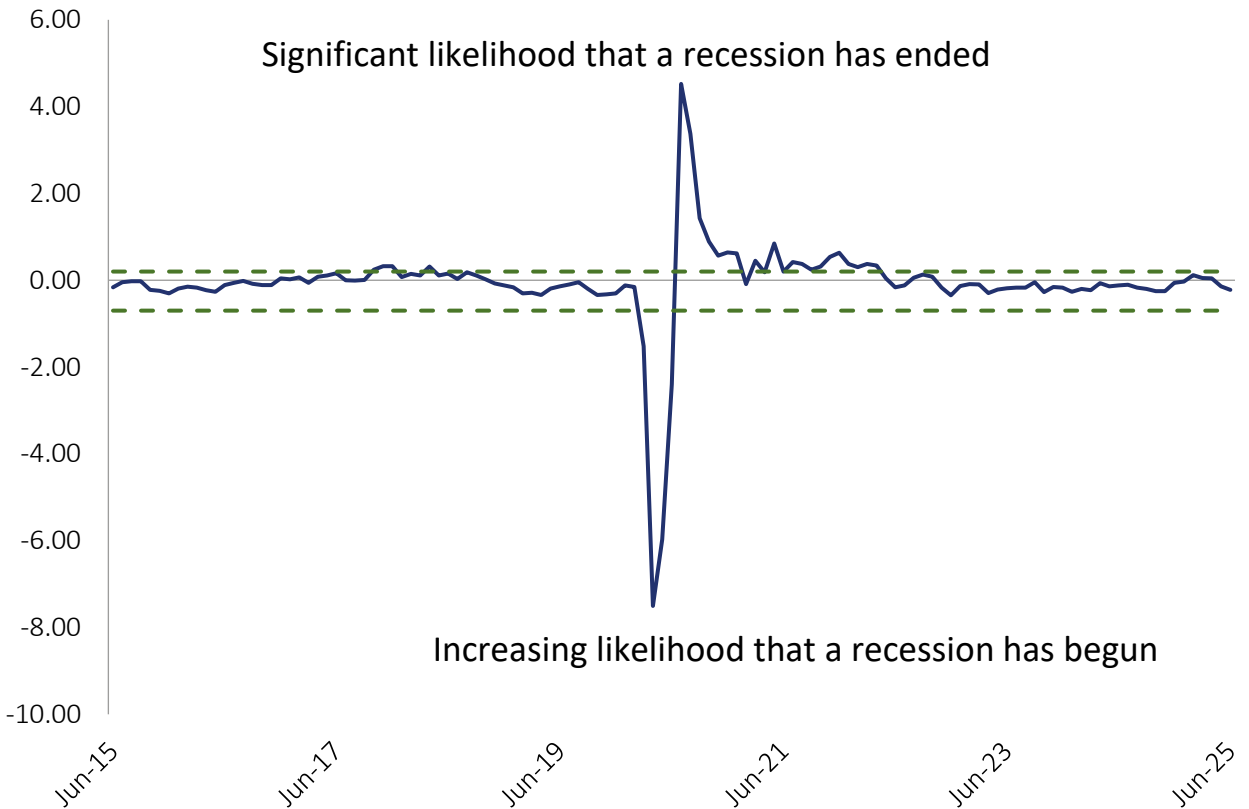
Second Quarter 2025

Economic Growth

Real GDP Growth

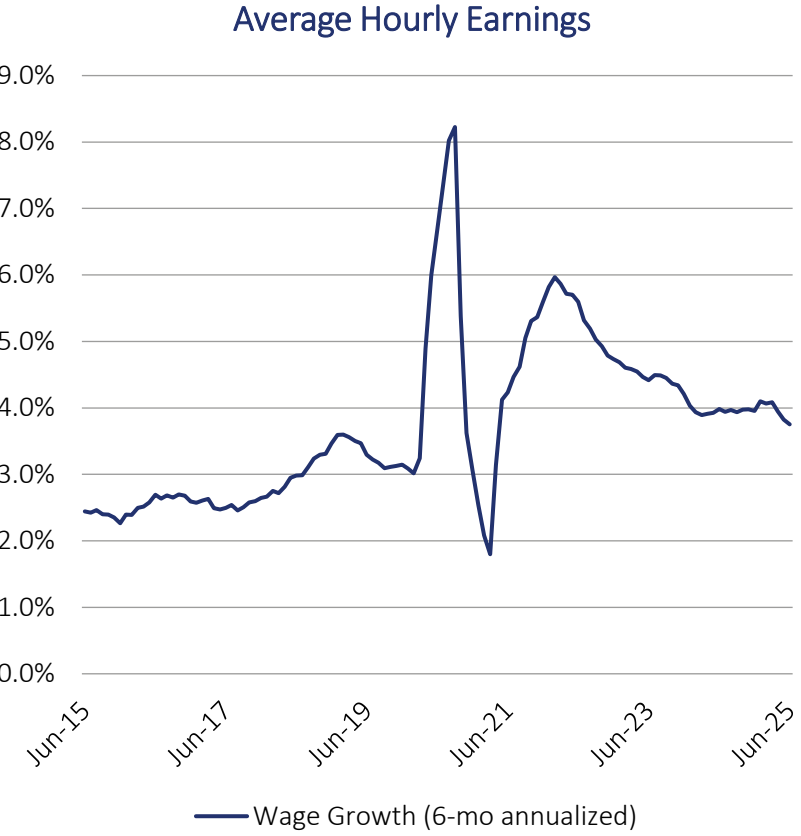
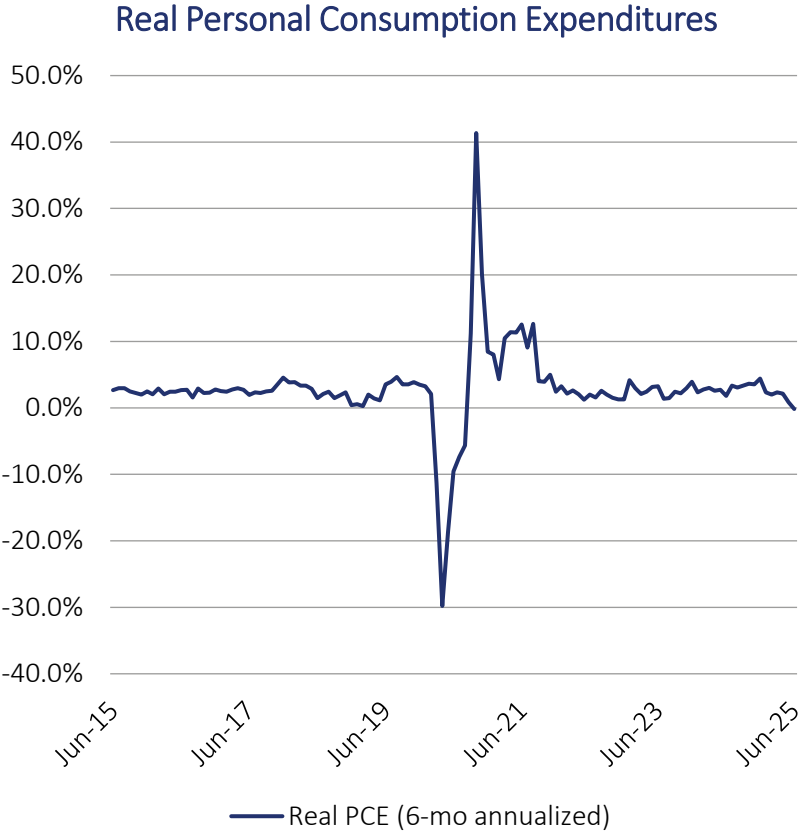
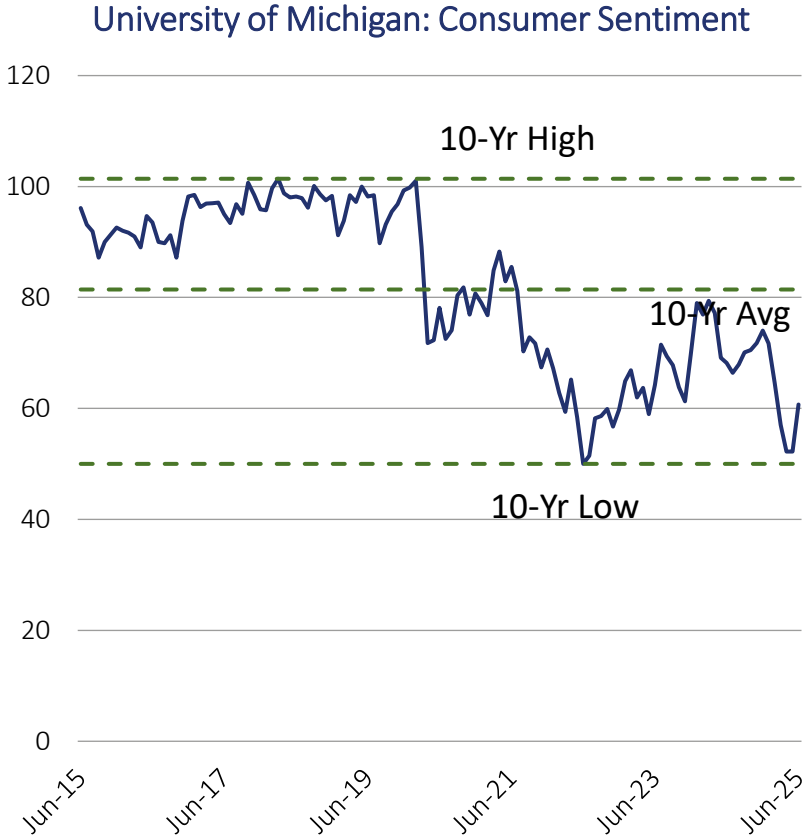


Chicago Fed. National Activity Index (3M MA)



Data Source: Bloomberg

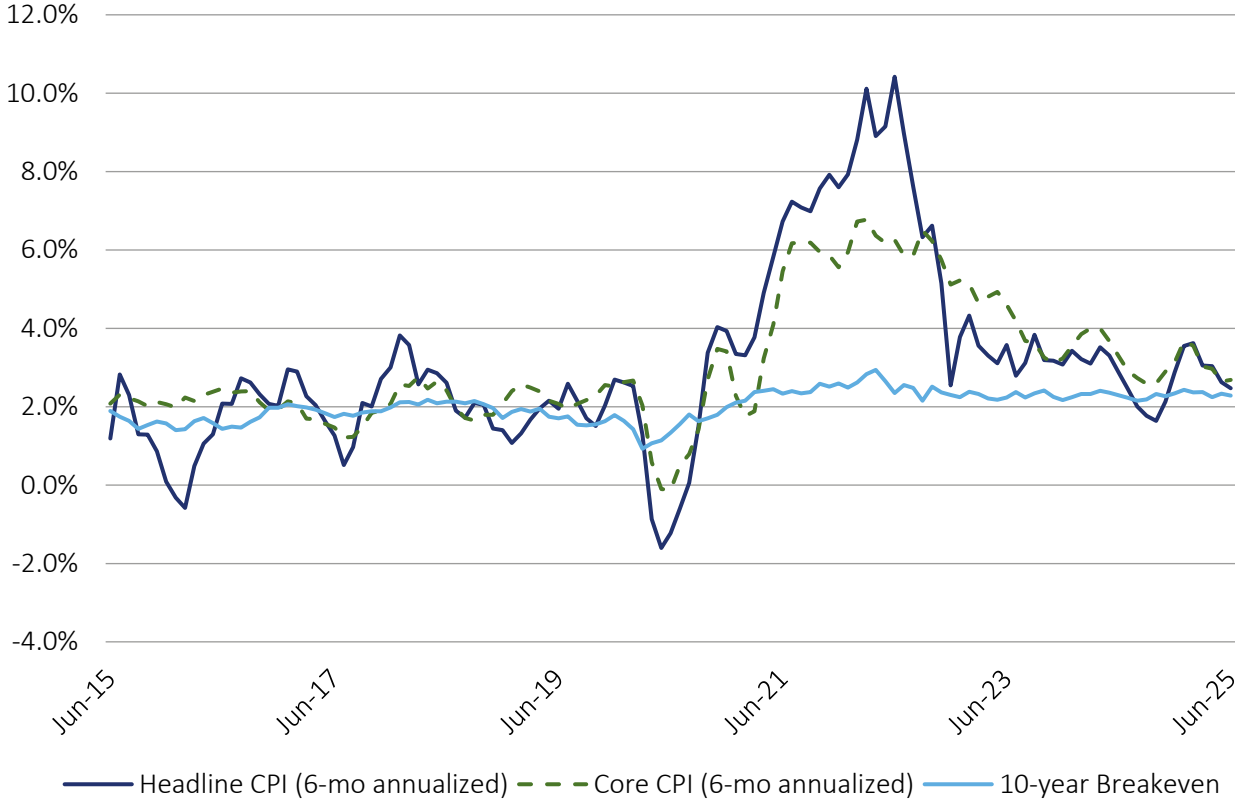
Consumer Activity



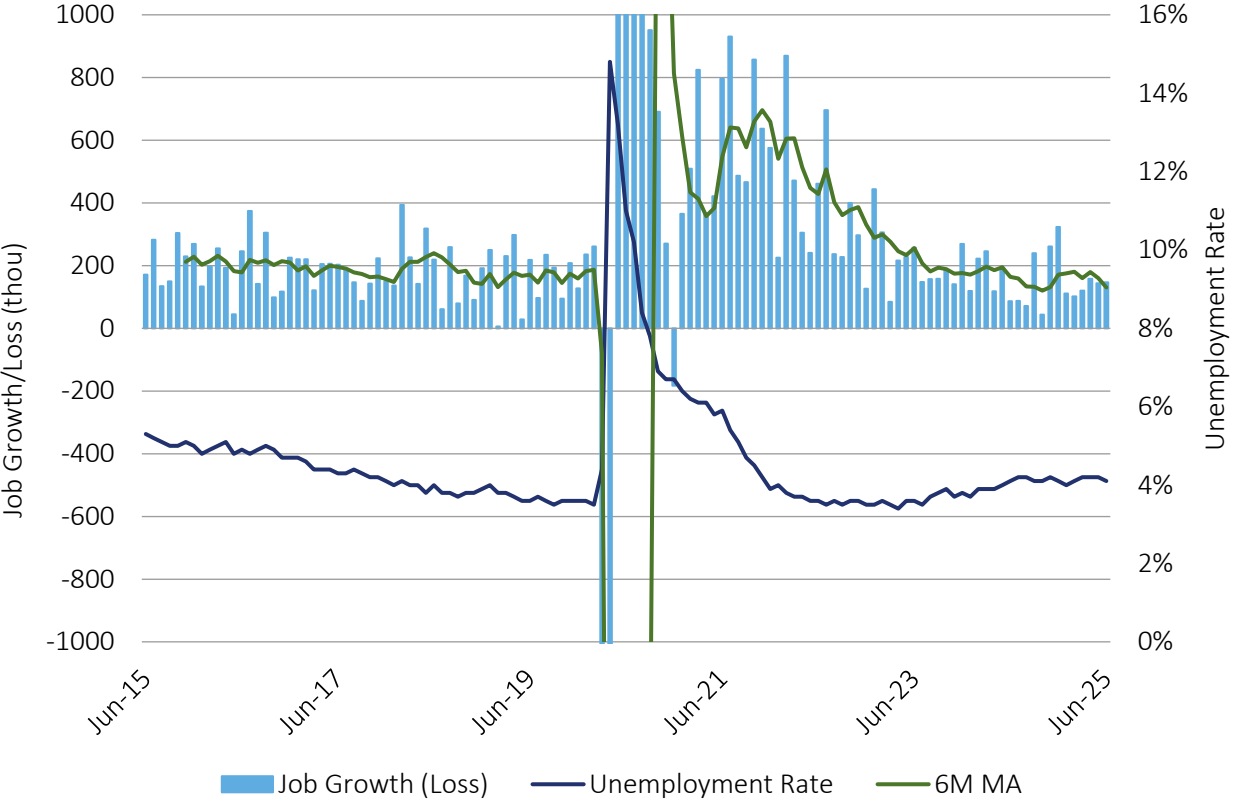
Data Source: Bloomberg

Inflation and Employment

Inflation: Actual & Expected

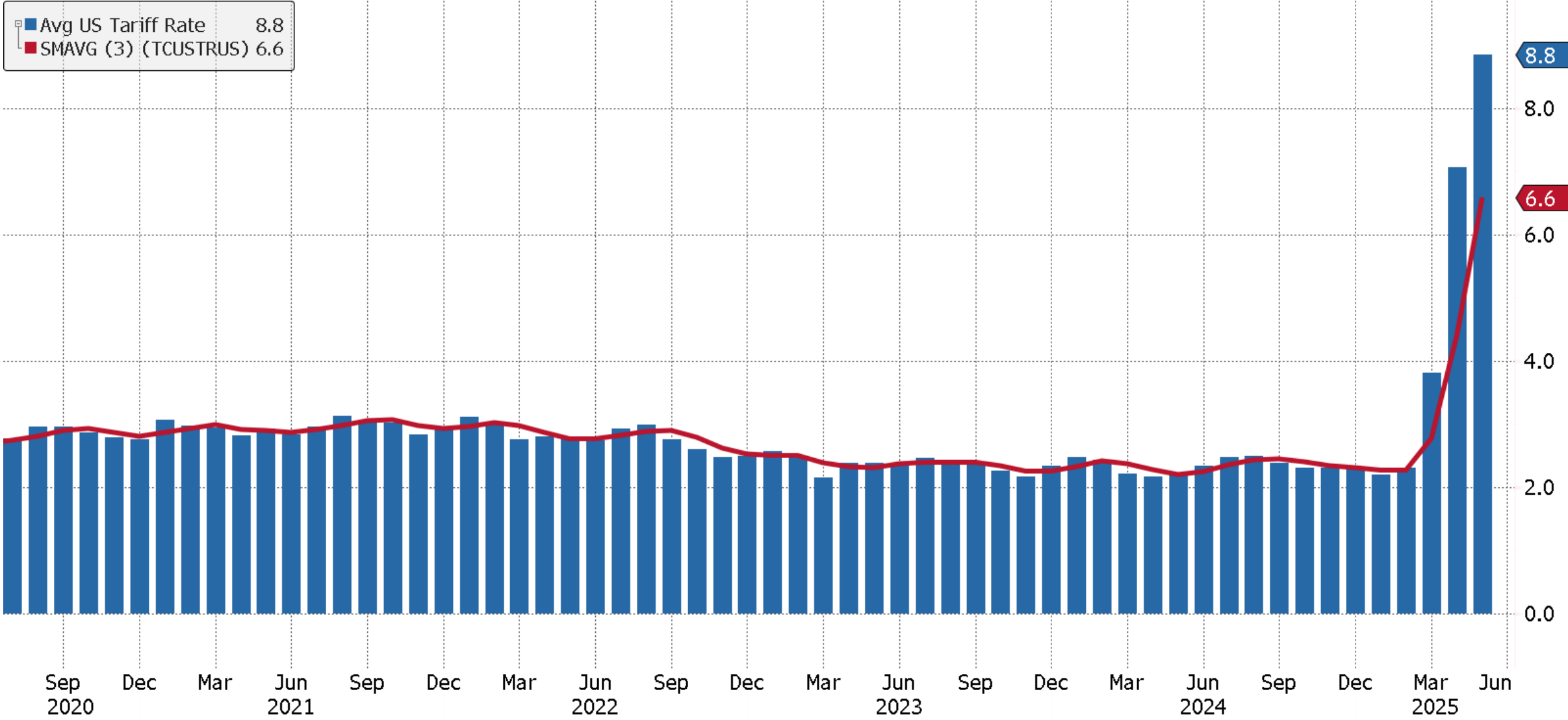


Employment Gains/Losses



Data Source: Bloomberg

Tariff Uncertainty Remains

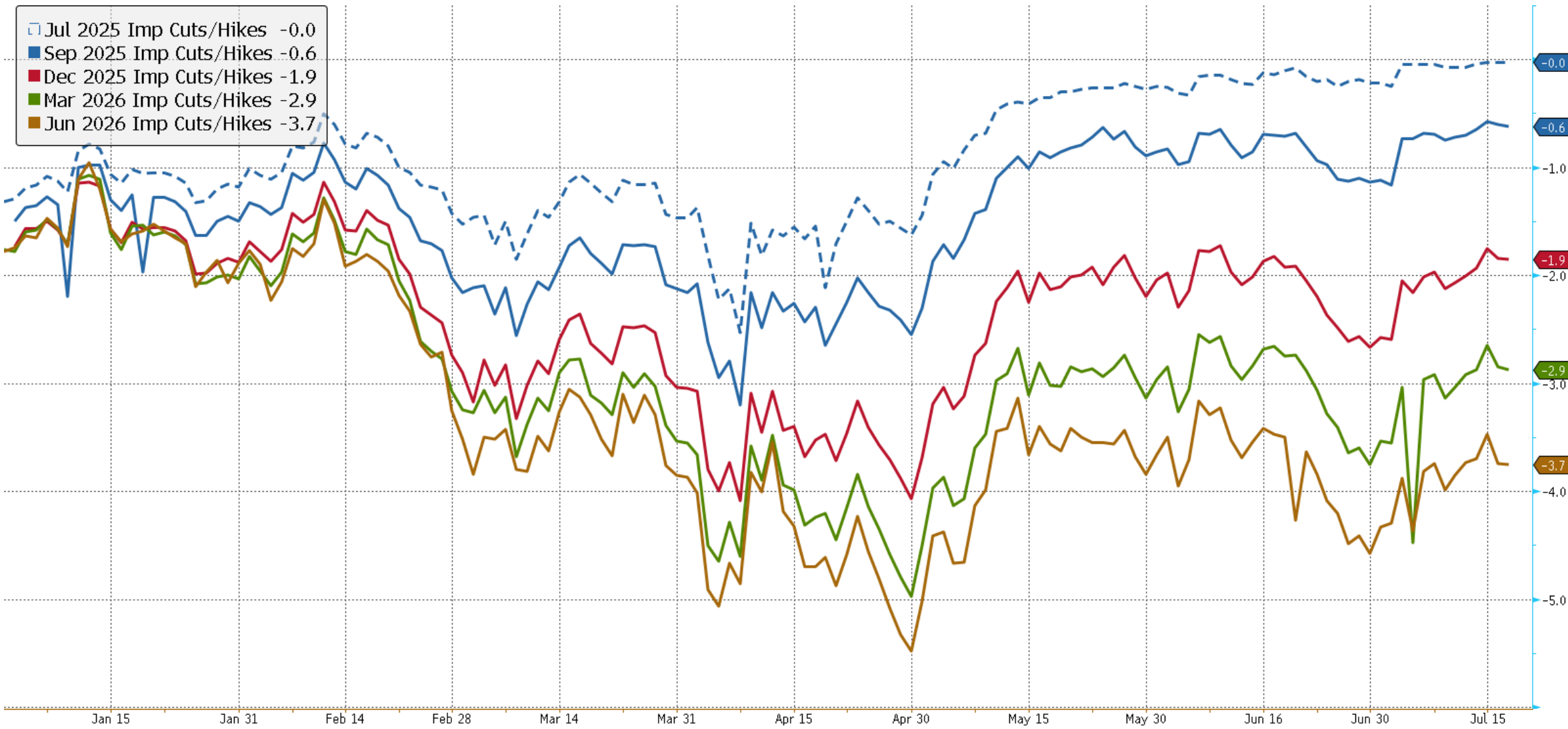


TCUSTRUS Index (USITC Approximate Effective Tariff Rate United States) Tariff Rate Monthly 12JUL2020-11JUL2025
Data Source: Bloomberg

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11-Jul-2025 13:57:02

Fed Funds Rate: Current & Implied (2 cuts expected by YE, red line)

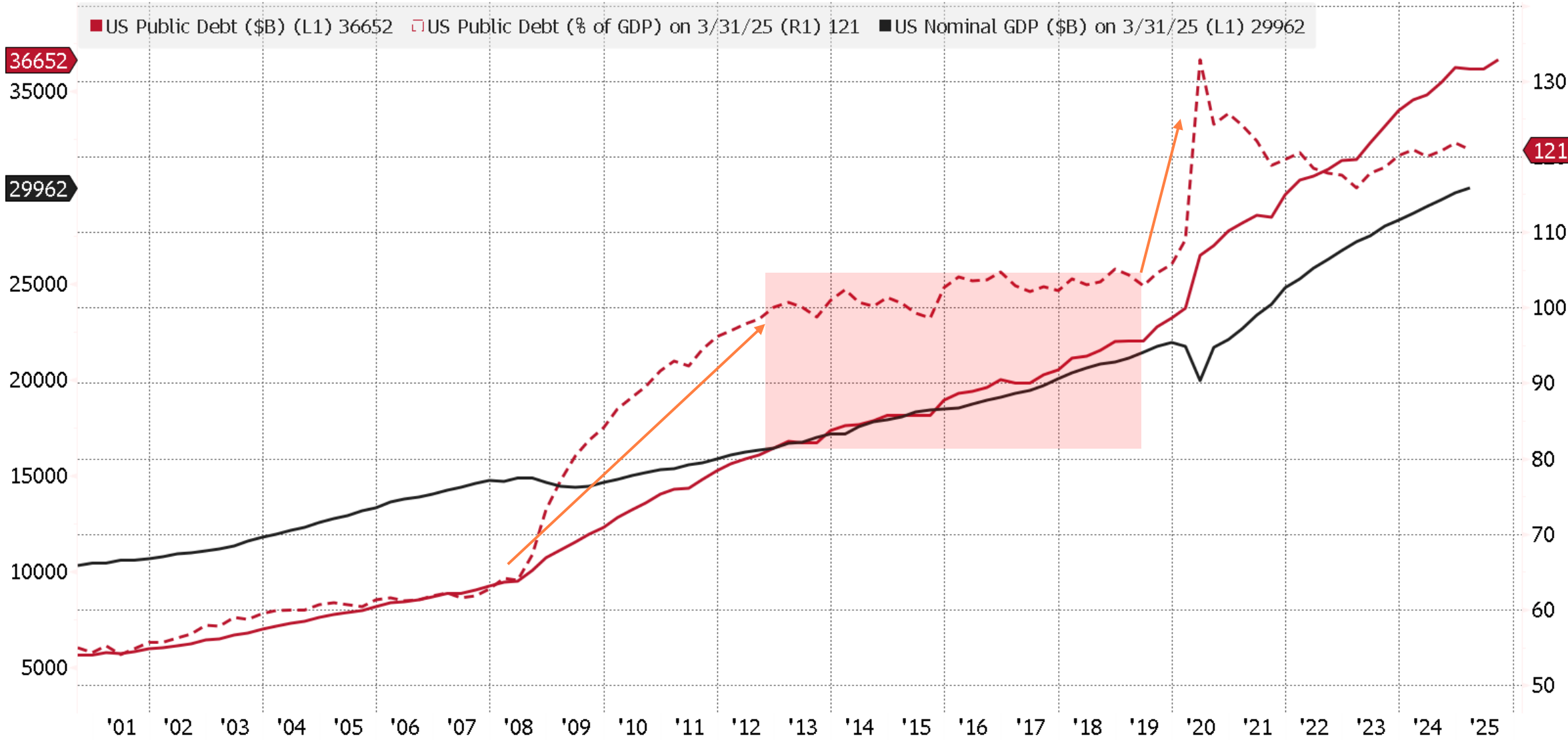


US0AFR JUL2025 Index (WIRP Implied Overnight Rate for the US - Futures Model) FFR Implied Daily 01JAN2025-16JUL2025
Data Source: Bloomberg

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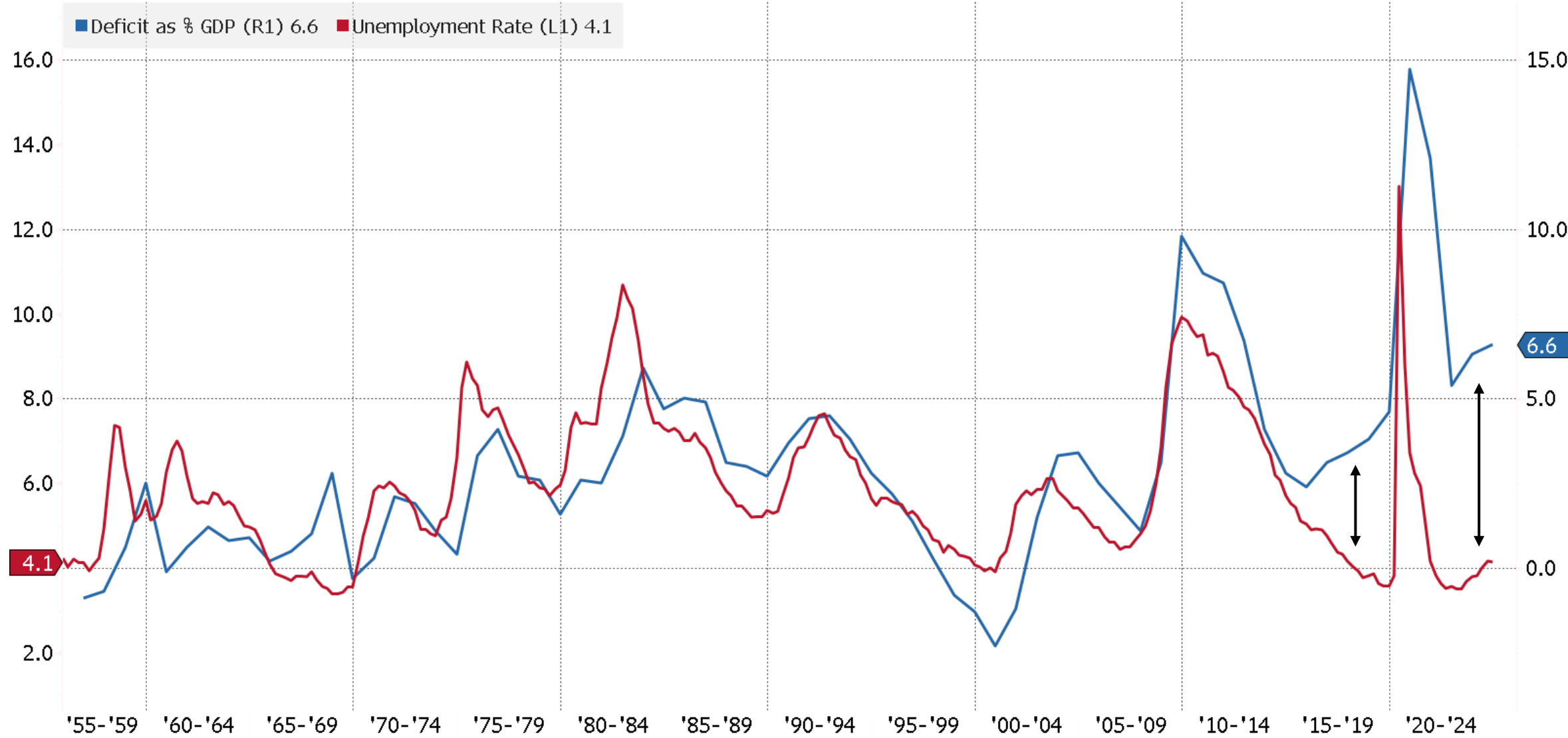
16-Jul-2025 15:30:17

Between This (current debt levels, ~\$36T, ~120% of GDP)...



PUBLDEBT Index (US Treasury Total Public Debt Outstanding) Debt to GDP Quarterly 16JUL2000-17JUL2025
 Data Source: Bloomberg
 Copyright © 2025 Bloomberg Finance L.P.
 16-Jul-2025 15:36:25

And This (running large deficits during “good times”)



FDEBSDFI Index (US Treasury Federal Budget Yearly Total Surplus/Deficit As A Percent of GDP) Deficits v UER Quarterly 31DEC1955-31DEC2024
 Data Source: Bloomberg Copyright© 2025 Bloomberg Finance L.P. 08-Jul-2025 11:26:20

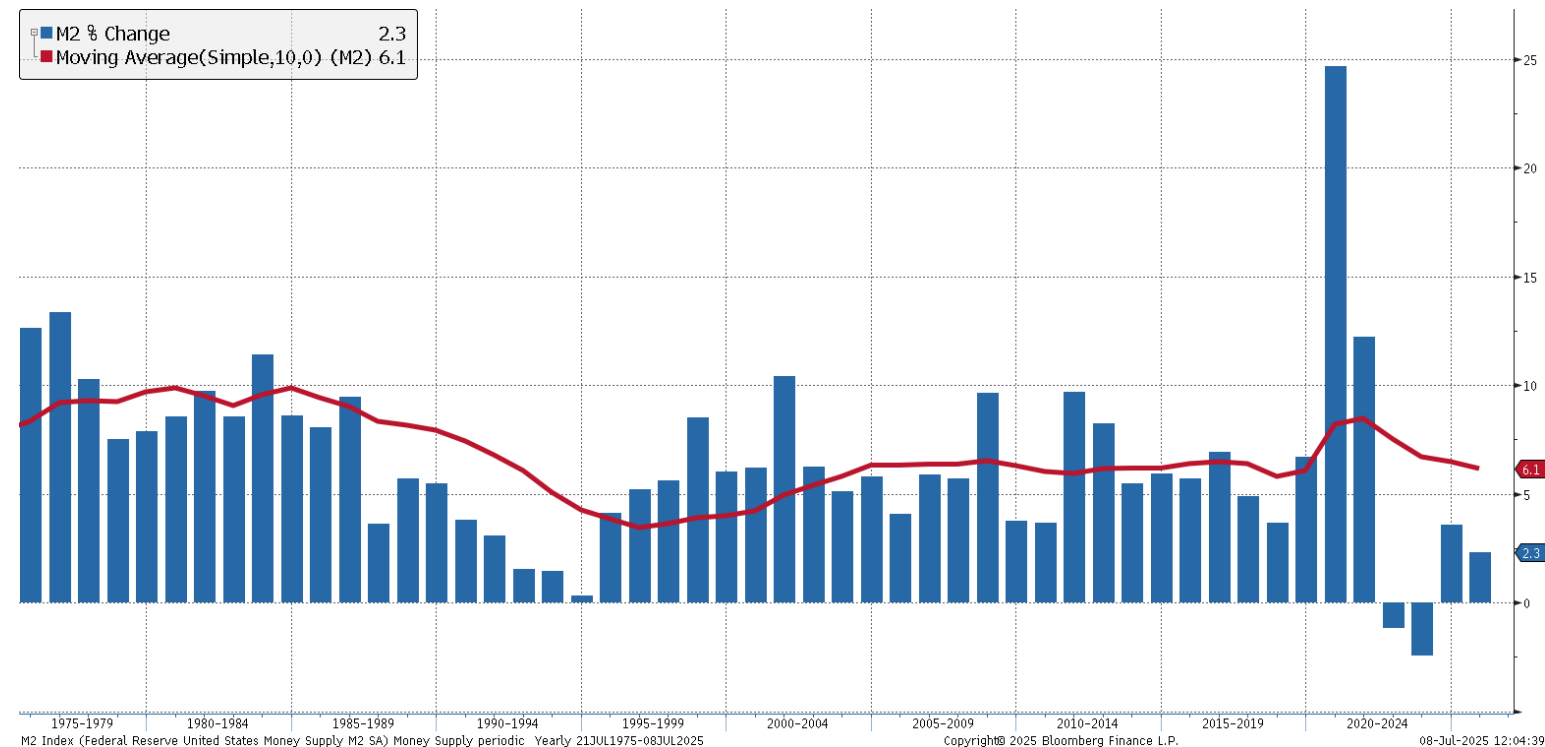
Few Options Left but to Print

Options for dealing with debt:

- You/Me/Corporations
 - Pay it back (can be painful)
 - Default/Restructure (painful)
- Government
 - Pay it back (can be painful)
 - Default/Restructure (painful)
 - Print money (easy, at least in the short-term)

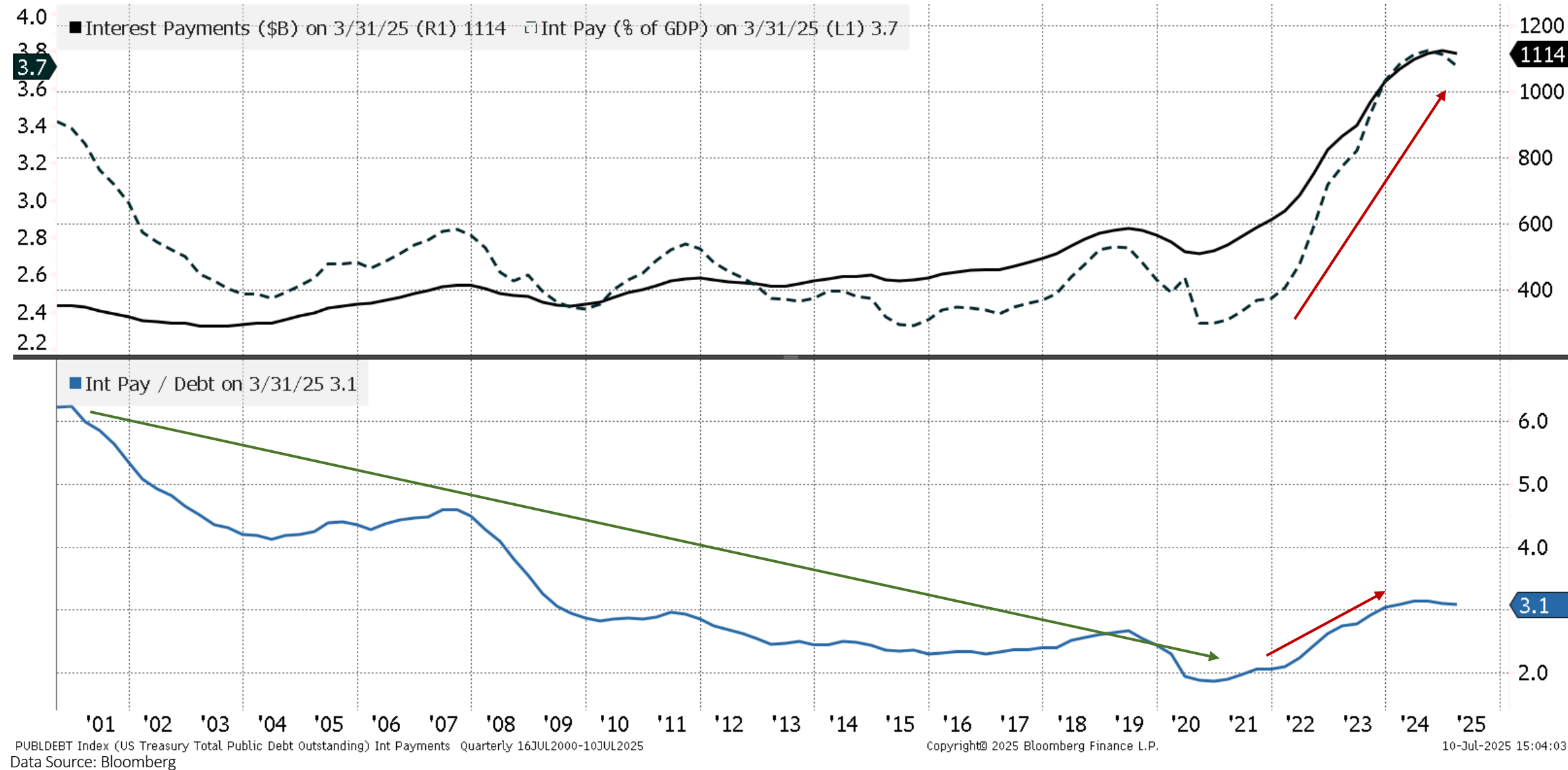
History tells us that the “easy” way out will be the likely path

- Such a path benefits assets of limited supply
- This is likely to be a decade-plus asset allocation trend



Data Source: Bloomberg

Interest Payment Dynamics: Vulnerability to Rising Rates



June 2025 Asset Class Assumptions

	Equity						Fixed Income						Real Assets						
	U.S. Stock	Dev ex-U.S. Stock	Emg Stock	Global ex-U.S. Stock	Global Stock	Private Equity	Cash	Core Bond	LT Core Bond	TIPS	High Yield	Private Credit	Dev ex-U.S. Bond (Hdg)	Real Estate			Cmdty	Real Assets	U.S. CPI
	U.S. RES	Global RES	Private RE																
Compound Return (%)	4.30	5.30	5.55	5.65	4.85	6.20	3.55	5.05	5.25	4.45	6.30	7.70	3.05	5.65	5.80	6.45	4.80	6.85	2.30
Arithmetic Return (%)	5.65	6.80	8.55	7.30	6.20	9.95	3.55	5.15	5.70	4.60	6.75	8.45	3.15	7.05	7.05	7.35	6.00	7.60	2.30
Risk (%)	17.00	18.00	26.00	19.05	17.00	29.65	0.75	4.75	9.90	6.00	10.00	12.75	4.00	17.50	16.55	13.95	16.00	12.60	1.75
Yield (%)	1.25	2.95	2.40	2.80	1.75	0.00	3.55	5.75	5.80	5.05	9.90	4.90	4.30	3.95	3.95	2.90	3.55	3.75	0.00
Growth Factor Exposure	8.00	8.00	8.00	8.00	8.00	14.00	0.00	-0.95	-2.55	-3.00	4.00	5.10	-1.00	6.00	6.00	3.70	0.00	2.85	0.00
Inflation Factor Exposure	-3.00	-1.00	3.00	0.15	-1.95	-4.25	0.00	-2.60	-6.95	2.50	-1.00	-1.50	-3.00	1.00	1.65	1.00	12.00	5.20	1.00

Correlations

U.S. Stock	1.00																		
Dev ex-U.S. Stock (USD)	0.81	1.00																	
Emerging Mkt Stock	0.74	0.74	1.00																
Global ex-U.S. Stock	0.84	0.96	0.89	1.00															
Global Stock	0.98	0.90	0.83	0.93	1.00														
Private Equity	0.72	0.63	0.61	0.66	0.73	1.00													
Cash Equivalents	-0.05	-0.09	-0.05	-0.08	-0.06	0.00	1.00												
Core Bond	0.27	0.13	0.00	0.08	0.21	0.30	0.18	1.00											
LT Core Bond	0.30	0.15	0.00	0.10	0.24	0.31	0.11	0.95	1.00										
TIPS	-0.05	0.00	0.15	0.06	-0.01	-0.03	0.20	0.60	0.47	1.00									
High Yield Bond	0.54	0.39	0.49	0.46	0.53	0.31	-0.10	0.24	0.32	0.05	1.00								
Private Credit	0.68	0.55	0.58	0.60	0.68	0.44	0.00	0.23	0.30	0.00	0.76	1.00							
Dev ex-U.S. Bond (Hdg)	0.16	0.25	-0.01	0.16	0.17	0.26	0.10	0.68	0.66	0.39	0.26	0.22	1.00						
U.S. RE Securities	0.57	0.47	0.44	0.49	0.56	0.49	-0.05	0.17	0.22	0.10	0.56	0.62	0.05	1.00					
Global RE Securities	0.62	0.55	0.52	0.58	0.63	0.54	-0.05	0.17	0.21	0.11	0.61	0.67	0.04	0.99	1.00				
Private Real Estate	0.55	0.45	0.45	0.48	0.55	0.50	-0.05	0.18	0.24	0.09	0.58	0.63	0.05	0.79	0.79	1.00			
Commodities	0.25	0.34	0.39	0.38	0.31	0.28	0.00	-0.03	-0.04	0.25	0.29	0.29	-0.10	0.25	0.28	0.25	1.00		
Real Assets	0.62	0.63	0.65	0.68	0.67	0.57	-0.03	0.24	0.25	0.32	0.64	0.69	0.06	0.79	0.83	0.77	0.63	1.00	
Inflation (CPI)	-0.10	-0.15	-0.13	-0.15	-0.12	-0.10	0.10	-0.12	-0.12	0.15	-0.08	0.00	-0.08	0.05	0.04	0.05	0.44	0.21	1.00

CalPERS PERF Expected Return and Risk Estimates

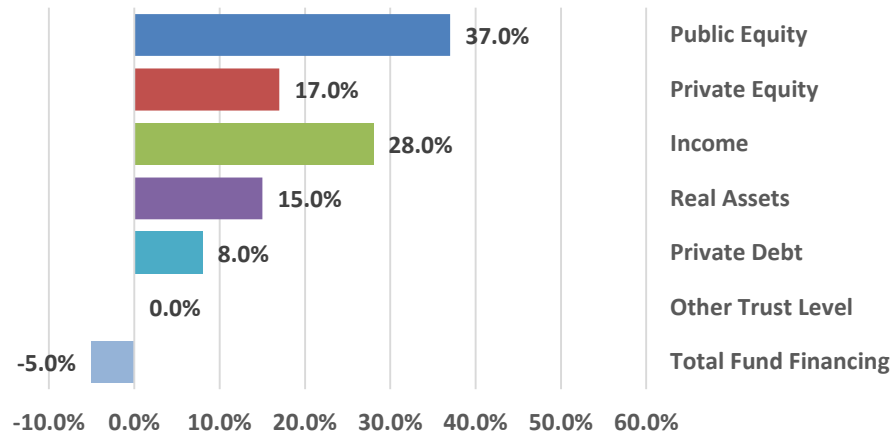
As of June 30, 2025



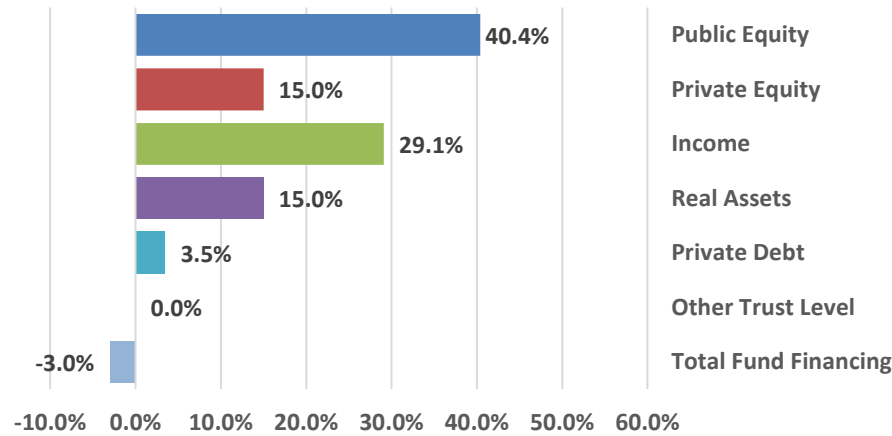
CalPERS PERF Assets and Risk Allocation

As of June 30, 2025

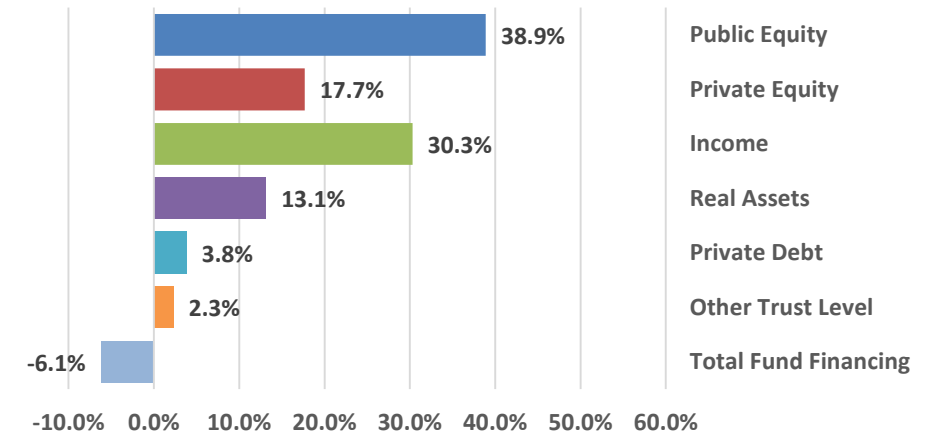
Target Asset Allocation



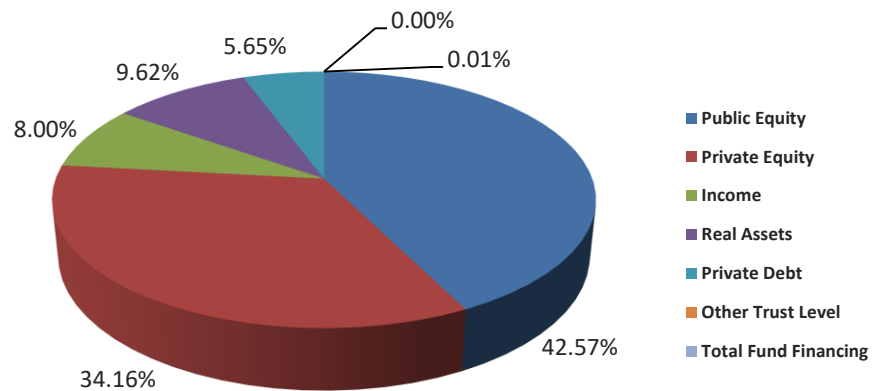
Interim Target Asset Allocation



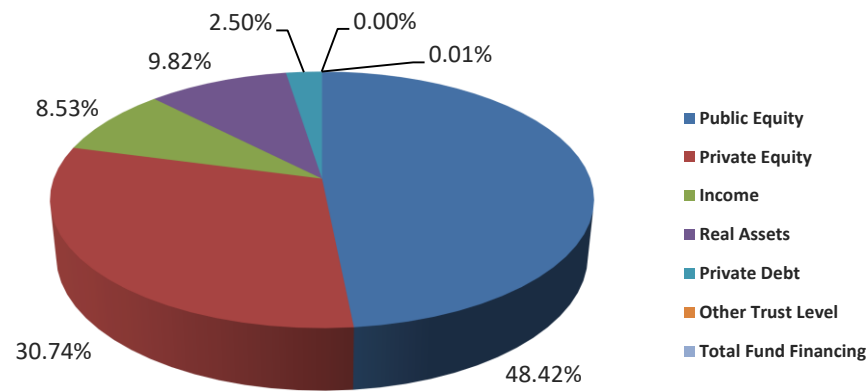
Actual Asset Allocation



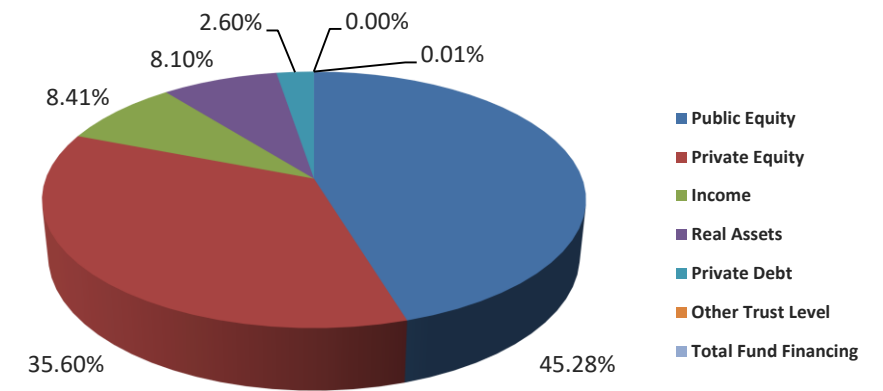
Contribution to Total Risk - Target Allocation



Contribution to Total Risk - Interim Target



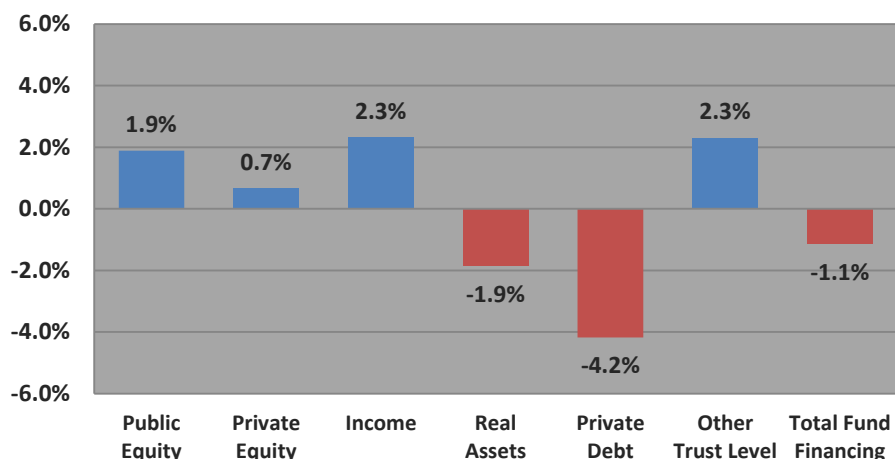
Contribution to Total Risk - Actual Allocation



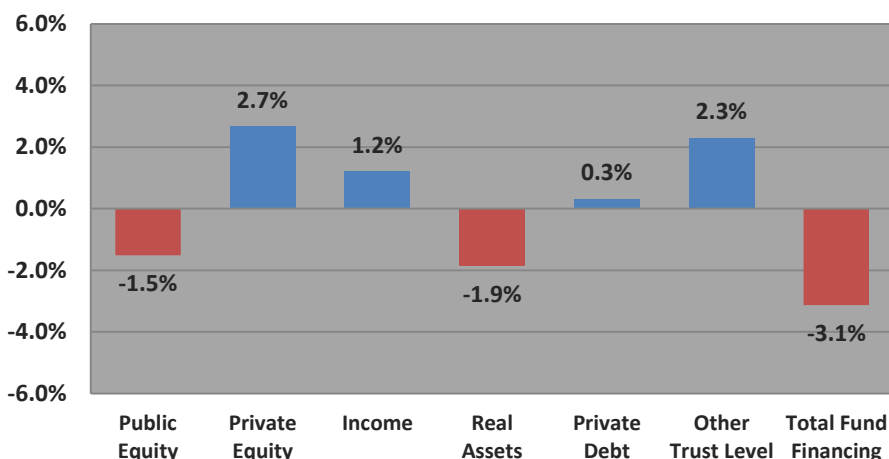
CalPERS PERF Drivers of Expected Excess Risk

As of June 30, 2025

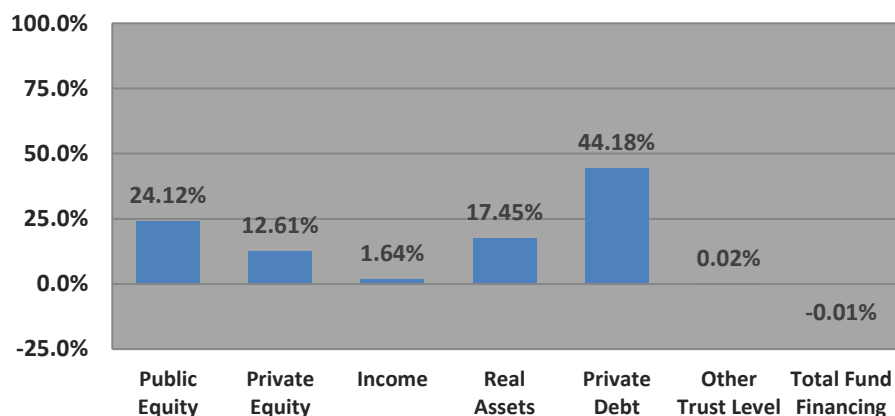
Allocation vs. Long-Term Strategic Targets



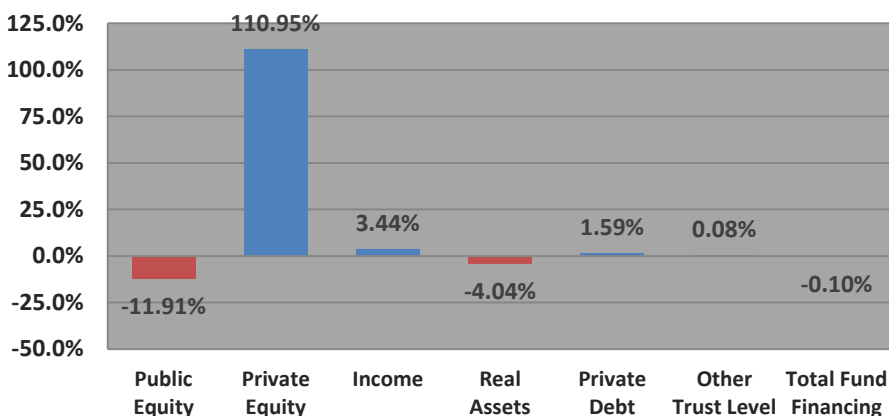
Allocation vs. Interim Targets



Contribution to Tracking Error vs. Long-Term Strategic Targets



Contribution to Tracking Error vs. Interim Targets



- This excess risk forecast is based on asset allocation variance only.
- Other sources of risk (structural within asset classes, manager/program specific source of tracking error, covariance, etc.) are not considered here.

CalPERS Total Fund Performance

CalPERS PERF – Performance

As of June 30, 2025

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		(\$Billion)	Sharpe
CALPERS PERF	\$ 556.3	5.7%	11.6%	8.9%	8.0%	7.1%	\$ 79.4	0.6	0.2
<i>CalPERS PERF Policy Benchmark</i>		4.1%	9.9%	8.6%	7.7%	7.1%		0.5	0.0
<i>Actuarial Rate</i>		1.7%	6.8%	6.8%	6.8%	7.1%			
PUBLIC EQUITY*	\$ 216.3	10.2%	16.8%	16.1%	13.2%	9.8%	\$ 43.4	0.7	1.1
<i>Public Equity Policy Benchmark</i>		10.1%	16.4%	15.8%	12.9%	9.7%		0.7	0.0
PRIVATE EQUITY	\$ 98.3	6.2%	14.3%	7.4%	16.6%	11.5%	\$ 38.1	1.9	0.0
<i>Private Equity Policy Benchmark</i>		-1.1%	8.3%	8.5%	17.4%	11.3%		0.9	0.0
INCOME*	\$ 168.6	1.6%	6.5%	3.4%	-1.2%	2.5%	\$ 7.7	-0.4	1.3
<i>Income Blended Benchmark</i>		1.5%	6.3%	3.3%	-1.3%	2.2%		-0.4	0.0
REAL ASSETS	\$ 73.0	0.9%	2.8%	-2.6%	3.3%	4.6%	\$ 9.6	0.1	0.2
<i>Real Assets Policy Benchmark</i>		0.9%	1.2%	-5.0%	2.0%	4.5%		-0.1	0.0
PRIVATE DEBT	\$ 21.3	4.6%	12.8%	12.0%	-.-%	-.-%	\$ 2.7	N/A	N/A
<i>Private Debt Policy Benchmark</i>		0.8%	8.4%	8.5%	-.-%	-.-%		N/A	N/A
OTHER TRUST LEVEL	\$ 12.8							N/A	N/A
TOTAL FUND FINANCING	\$ (34.1)							N/A	N/A
TERMINATED AGENCY POOL	\$ 0.2	-0.4%	3.7%	-0.1%	-2.4%	2.0%		N/A	N/A
CalPERS PERF PLUS TAP	\$ 556.5	5.7%	11.6%	8.9%	8.0%	7.1%		N/A	N/A

* The CalPERS PERF asset values shown include derivative exposure.

CalPERS PERF – Attribution (Quarter)

As of June 30, 2025

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
Public Equity	38.94	10.24	39.01	10.11	-0.08	0.13	0.06	0.05	0.11
Public Equity - Cap Weighted	29.50	11.75	28.94	11.64	0.55	0.10	0.05	0.03	0.08
Public Equity - Factor Weighted	9.44	5.06	10.07	4.81	-0.63	0.24	0.01	0.02	0.03
Private Equity	17.78	6.23	17.78	-1.46	0.00	7.68	0.00	1.33	1.33
Income	29.27	1.60	29.16	1.55	0.12	0.05	0.00	0.01	0.01
Treasury	7.28	-0.57	7.16	-0.57	0.12	0.00	0.00	0.00	0.00
Mortgage-Backed Securities	5.24	1.23	5.22	1.18	0.02	0.05	0.00	0.00	0.00
Investment Grade Credit	6.30	1.67	6.29	1.64	0.01	0.04	0.00	0.00	0.00
High Yield	5.24	3.58	5.25	3.48	-0.02	0.10	0.00	0.01	0.01
EM Sovereign	5.22	2.87	5.23	2.79	0.00	0.08	0.00	0.00	0.00
Real Assets	13.30	0.92	13.30	0.87	0.00	0.05	0.00	0.01	0.01
Private Debt	3.75	4.59	3.75	0.76	0.00	3.83	0.00	0.15	0.15
Other Trust Level	2.30	-	0.00	-	2.30	-	-0.07	0.01	-0.06
LLER	2.18	1.66	0.00	1.10	2.18	0.56	-0.07	0.01	-0.05
Opportunistic Strategies	0.04	-2.27	0.00	1.69	0.04	-3.96	0.00	0.00	0.00
Total Fund Income	0.00	-	0.00	-	0.00	-	0.00	0.00	0.00
Other PERF	0.03	-	0.00	-	0.03	-	0.00	0.00	0.00
TLPM	0.04	-	0.00	-	0.04	-	0.00	0.00	0.00
Total Fund Financing	-5.33	-	-2.99	-	-2.34	-	0.07	0.00	0.07
Monthly Linked Return	100.00	5.74	100.00	4.13	-	1.62	0.06	1.55	1.62
Residual		-0.05		-0.01		-0.03			-0.03
Total PERF		5.70		4.11		1.58			1.58

* Average period weight displayed.

CalPERS PERF – Attribution (Fiscal YTD)

As of June 30, 2025

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
Public Equity	40.25	16.81	40.16	16.36	0.09	0.45	0.05	0.16	0.22
Public Equity - Cap Weighted	30.30	16.73	30.05	16.19	0.25	0.54	0.04	0.15	0.19
Public Equity - Factor Weighted	9.95	15.89	10.11	15.68	-0.16	0.21	0.01	0.02	0.03
Private Equity	16.76	14.26	16.76	6.70	0.00	7.56	0.00	1.02	1.02
Income	29.48	6.48	29.58	6.28	-0.10	0.21	0.00	0.06	0.06
Treasury	7.29	3.04	7.30	3.04	-0.01	0.00	-0.01	0.00	-0.01
Mortgage-Backed Securities	5.27	6.86	5.29	6.58	-0.02	0.28	0.00	0.02	0.02
Investment Grade Credit	6.36	6.48	6.40	6.17	-0.03	0.31	0.00	0.02	0.02
High Yield	5.29	9.33	5.30	9.15	-0.02	0.18	0.00	0.01	0.01
EM Sovereign	5.27	7.88	5.29	7.56	-0.02	0.32	0.00	0.02	0.02
Real Assets	13.12	2.78	13.12	1.25	0.00	1.53	0.00	0.21	0.21
Private Debt	3.38	12.76	3.38	8.38	0.00	4.38	0.00	0.15	0.15
Other Trust Level	2.31	-	0.00	-	2.31	-	-0.12	0.03	-0.09
LLER	2.17	6.51	0.00	4.79	2.17	1.72	-0.11	0.04	-0.08
Opportunistic Strategies	0.04	3.43	0.00	7.02	0.04	-3.59	0.00	0.00	0.00
Total Fund Income	0.03	3.77	0.00	5.25	0.03	-1.48	-0.01	0.00	-0.01
Other PERF	0.03	-	0.00	-	0.03	-	0.00	0.00	0.00
TLPM	0.03	-	0.00	-	0.03	-	0.00	0.00	0.00
Total Fund Financing	-5.29	-	-2.99	-	-2.29	-	0.12	0.00	0.12
Monthly Linked Return	100.00	11.65	100.00	9.96	-	1.69	0.05	1.65	1.69
Residual		-0.01		-0.03		0.02			0.02
Total PERF		11.64		9.93		1.71			1.71

* Average period weight displayed.

CalPERS PERF – Attribution (Calendar YTD)

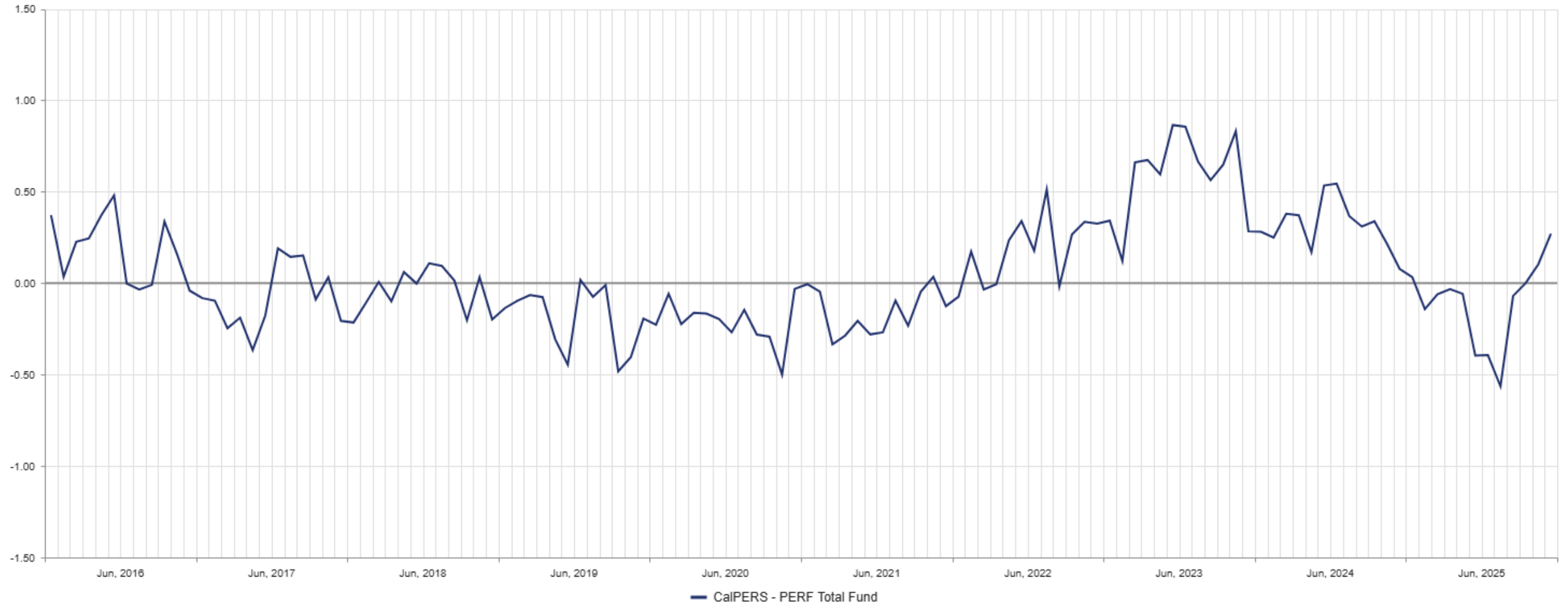
As of June 30, 2025

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
Public Equity	39.29	10.77	39.27	10.26	0.02	0.51	0.05	0.19	0.24
Public Equity - Cap Weighted	29.48	10.64	29.16	10.02	0.32	0.62	0.04	0.18	0.22
Public Equity - Factor Weighted	9.80	10.09	10.11	9.87	-0.30	0.22	0.01	0.02	0.03
Private Equity	17.39	8.13	17.39	-2.60	0.00	10.73	0.00	1.82	1.82
Income	29.35	4.45	29.35	4.37	0.00	0.08	-0.01	0.02	0.02
Treasury	7.28	3.80	7.25	3.80	0.02	0.00	-0.01	0.00	-0.01
Mortgage-Backed Securities	5.25	4.30	5.24	4.22	0.01	0.07	0.00	0.00	0.00
Investment Grade Credit	6.33	4.34	6.34	4.14	-0.01	0.20	0.00	0.01	0.01
High Yield	5.25	4.74	5.26	4.58	-0.01	0.16	0.00	0.01	0.01
EM Sovereign	5.24	5.28	5.25	5.29	-0.01	-0.01	0.00	0.00	0.00
Real Assets	13.28	1.34	13.28	1.86	0.00	-0.52	0.00	-0.07	-0.07
Private Debt	3.69	6.34	3.69	3.58	0.00	2.76	0.00	0.10	0.10
Other Trust Level	2.32	-	0.00	-	2.32	-	-0.07	0.01	-0.06
LLER	2.20	2.87	0.00	2.19	2.20	0.67	-0.07	0.02	-0.05
Opportunistic Strategies	0.04	0.09	0.00	3.40	0.04	-3.32	0.00	0.00	0.00
Total Fund Income	0.00	-	0.00	-	0.00	-	0.00	0.00	0.00
Other PERF	0.03	-	0.00	-	0.03	-	0.00	0.00	0.00
TLPM	0.04	-	0.00	-	0.04	-	0.00	0.00	0.00
Total Fund Financing	-5.32	-	-2.98	-	-2.34	-	0.07	0.00	0.07
Monthly Linked Return	100.00	7.25	100.00	5.12	-	2.13	0.04	2.08	2.13
Residual		-0.03		-0.01		-0.02			-0.02
Total PERF		7.22		5.11		2.11			2.11

* Average period weight displayed.

CalPERS PERF – Rolling Excess Return

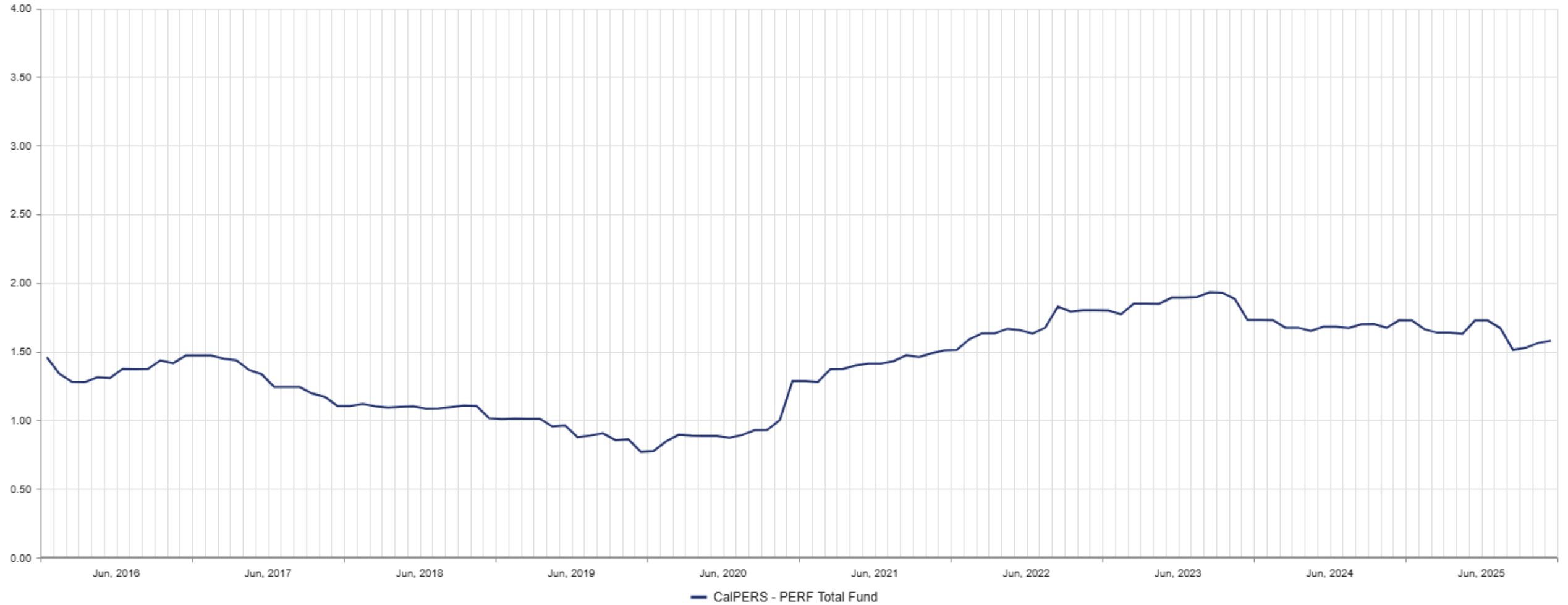
CalPERS - PERF Total Fund
36-Month Rolling Geometric Excess Return: June 30, 2015 - June 30, 2025
Benchmark: PERF Total Fund Policy Benchmark



* Monthly data; Net of Investment Management Fees

CalPERS PERF – Rolling Tracking Error

CalPERS - PERF Total Fund
 36-Month Rolling Geometric Excess Standard Deviation of Return: June 30, 2015 - June 30, 2025
 Benchmark: PERF Total Fund Policy Benchmark



* Monthly data; Net of Investment Management Fees

CalPERS Affiliate Investment Programs – Performance

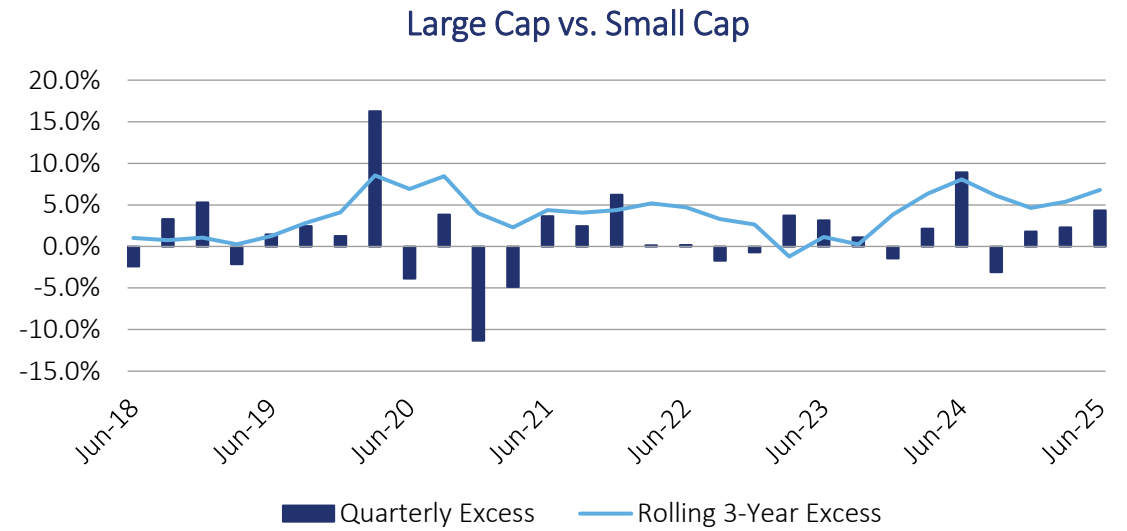
As of June 30, 2025

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
Judges I	\$ 65.7	1.1%	4.9%	4.9%	3.0%	2.2%
ICE BofA US 3-Month Treasury Bill Index		1.0%	4.7%	4.6%	2.8%	2.0%
Judges II	\$ 2,968.3	6.3%	11.7%	10.0%	7.5%	6.7%
Weighted Policy Benchmark		6.3%	11.4%	9.7%	7.3%	6.5%
Legislators' Retirement System	\$ 91.1	2.0%	7.2%	4.4%	2.9%	4.1%
Weighted Policy Benchmark		2.0%	7.2%	4.4%	2.9%	4.0%
Long-Term Care ("LTC")	\$ 4,659.8	3.9%	9.5%	5.8%	3.8%	4.2%
Weighted Policy Benchmark		4.0%	10.1%	6.1%	3.8%	4.2%
CERBT Strategy 1	\$ 22,009.4	7.0%	12.3%	9.9%	7.9%	6.9%
CERBT Strategy 1 Policy Benchmark		6.9%	12.0%	9.6%	7.7%	6.6%
CERBT Strategy 2	\$ 2,262.9	5.3%	10.6%	7.4%	5.3%	5.5%
CERBT Strategy 2 Policy Benchmark		5.3%	10.3%	7.3%	5.2%	5.3%
CERBT Strategy 3	\$ 917.1	4.1%	9.3%	5.7%	3.6%	4.5%
CERBT Strategy 3 Policy Benchmark		4.0%	9.1%	5.5%	3.5%	4.3%
CEPPT Strategy 1	\$ 235.4	5.5%	10.6%	8.1%	5.5%	-.-%
CEPPT Strategy 1 Policy Benchmark		5.5%	10.6%	8.1%	5.4%	-.-%
CEPPT Strategy 2	\$ 77.1	3.6%	8.8%	5.7%	2.6%	-.-%
CEPPT Strategy 2 Policy Benchmark		3.6%	8.7%	5.7%	2.5%	-.-%
Health Care Fund	\$ 77.1	1.1%	4.8%	2.1%	-1.0%	1.6%
Health Care Fund Policy Benchmark		1.0%	4.7%	2.1%	-1.0%	1.6%
Supplemental Contribution Plan	\$ 120.9	NM	NM	NM	NM	NM
457 Program	\$ 2,757.0	NM	NM	NM	NM	NM

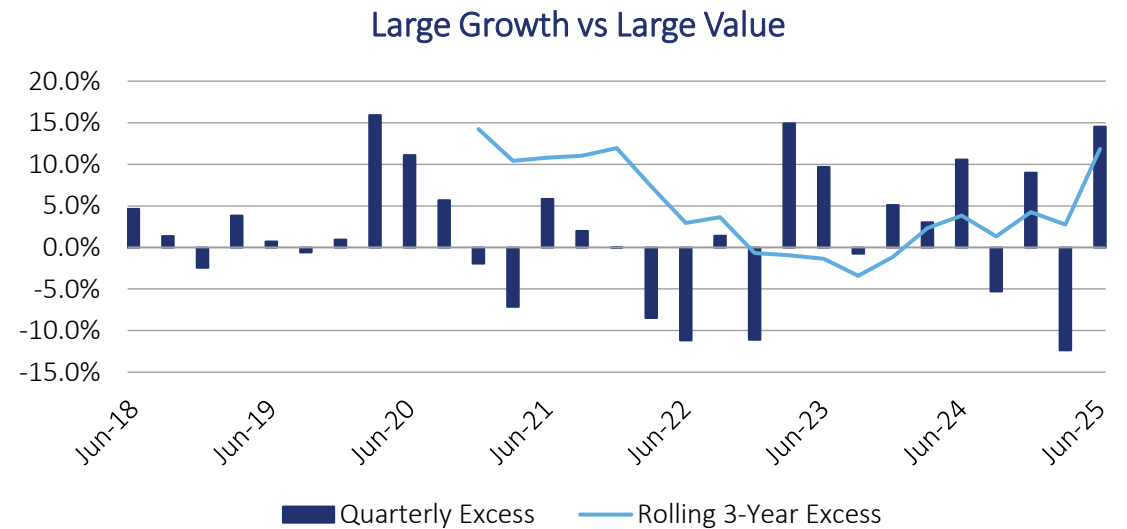
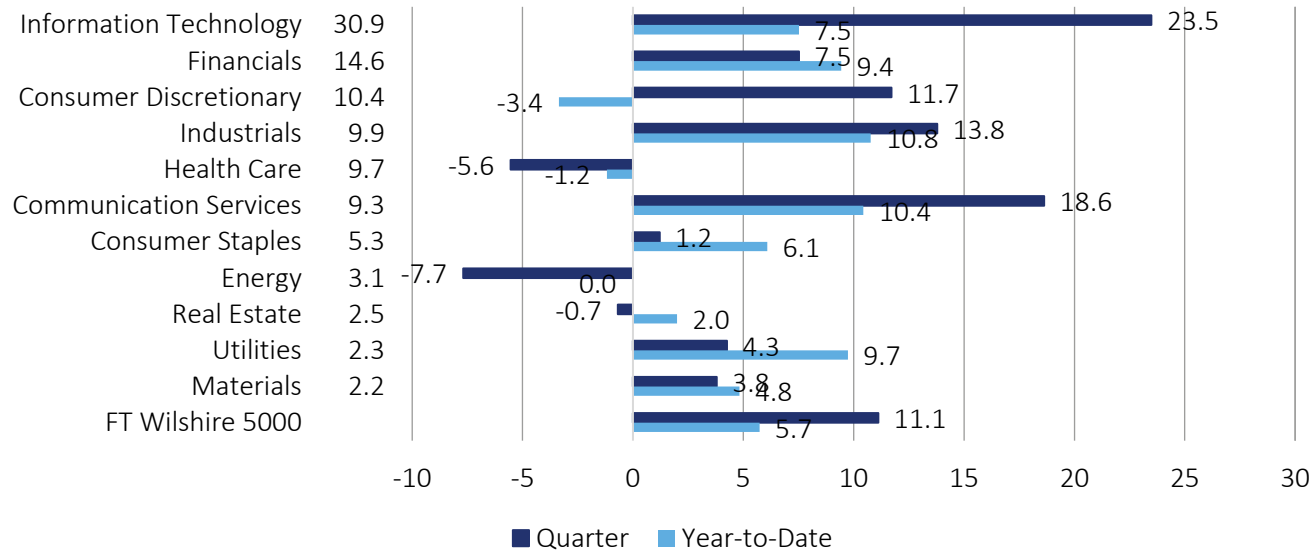
Appendix:
Asset Class Performance Detail

U.S. Equity Market

As of 6/30/2025	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
FT Wilshire 5000	11.1	5.7	15.2	19.1	16.2	13.2
FT Wilshire U.S. Large Cap	11.7	6.6	16.0	20.2	16.7	13.8
FT Wilshire U.S. Small Cap	7.0	-0.1	10.1	12.5	12.4	8.9
FT Wilshire U.S. Large Growth	19.5	7.0	18.1	27.0	18.5	n/a
FT Wilshire U.S. Large Value	4.3	6.6	14.0	13.5	14.6	n/a
FT Wilshire U.S. Small Growth	9.3	-0.3	10.8	13.1	9.2	n/a
FT Wilshire U.S. Small Value	4.7	0.1	9.3	11.9	15.5	n/a
Wilshire REIT Index	-1.2	-0.2	9.1	5.7	8.7	6.3
MSCI USA Min. Vol. Index	0.6	6.5	13.8	12.1	11.0	11.0
FTSE RAFI U.S. 1000 Index	4.5	5.3	13.1	14.9	16.7	11.4



U.S. Sector Weight and Return (%)



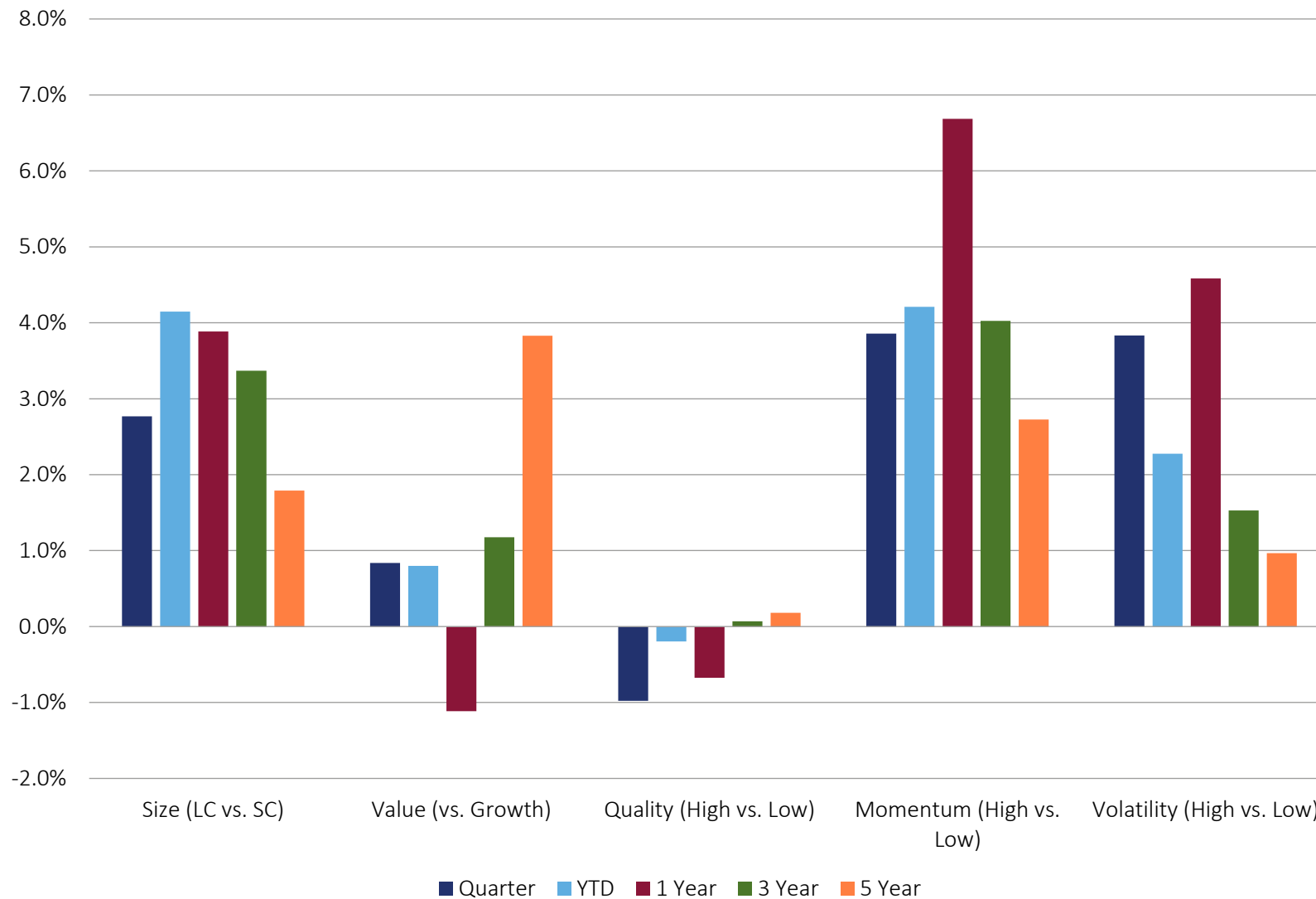
Data Sources: Bloomberg, Wilshire Atlas

U.S. Factor Returns

Factor returns represent the contribution from large cap, value, etc. stocks within Bloomberg's Portfolio & Risk Analytics module

Size contributed to returns during the quarter while quality was a detractor

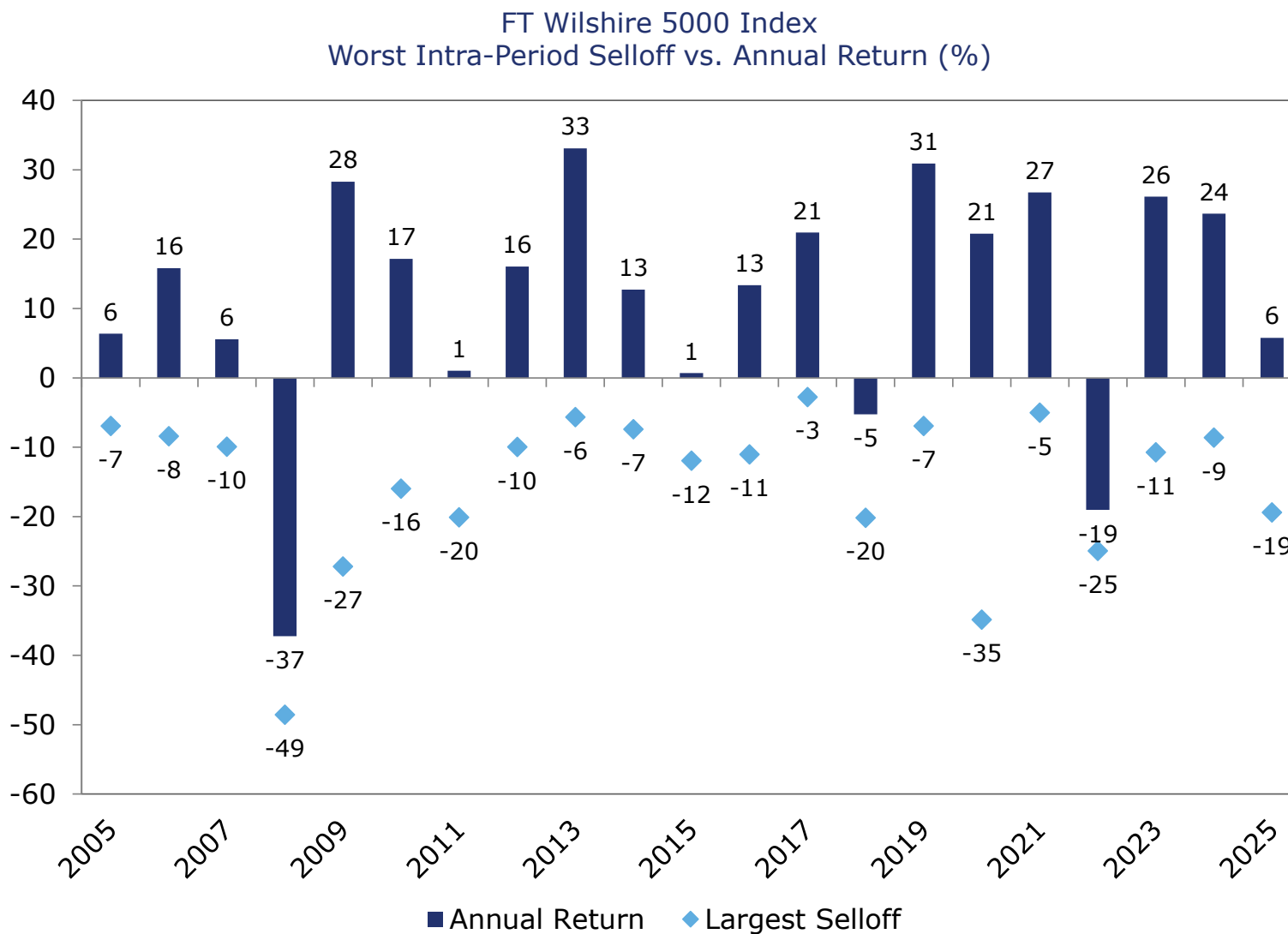
Bloomberg U.S. Pure Factor Returns



Data Source: Bloomberg

Annual Equity Market Selloffs

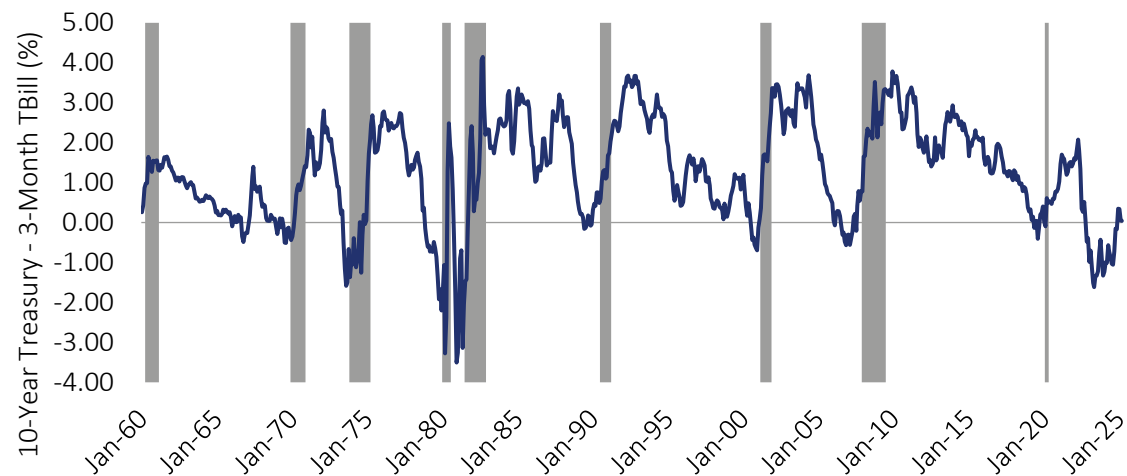
U.S. equity initially reached correction territory in mid-March and then worsened into April; strong recovery in May and June



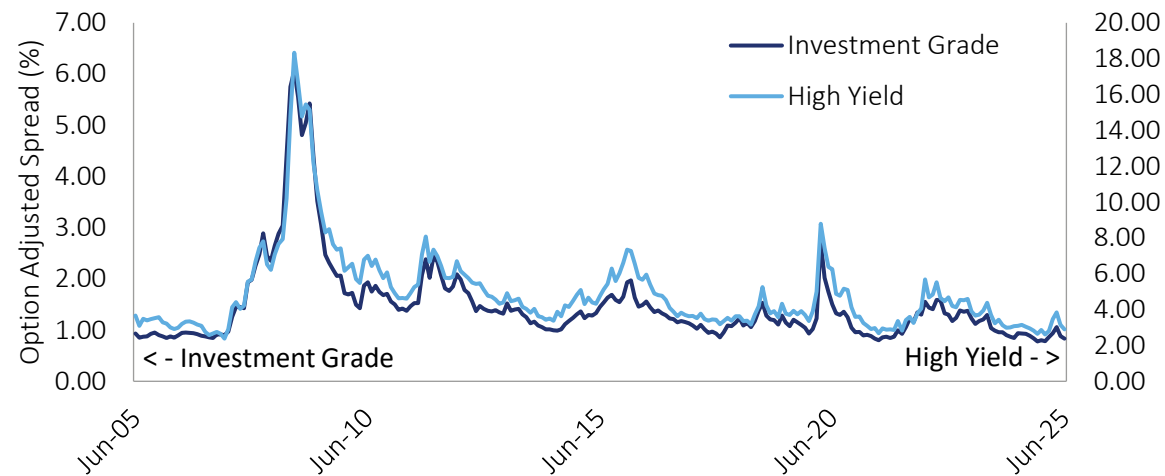
Data Sources: Wilshire Web, Bloomberg

Risk Monitor

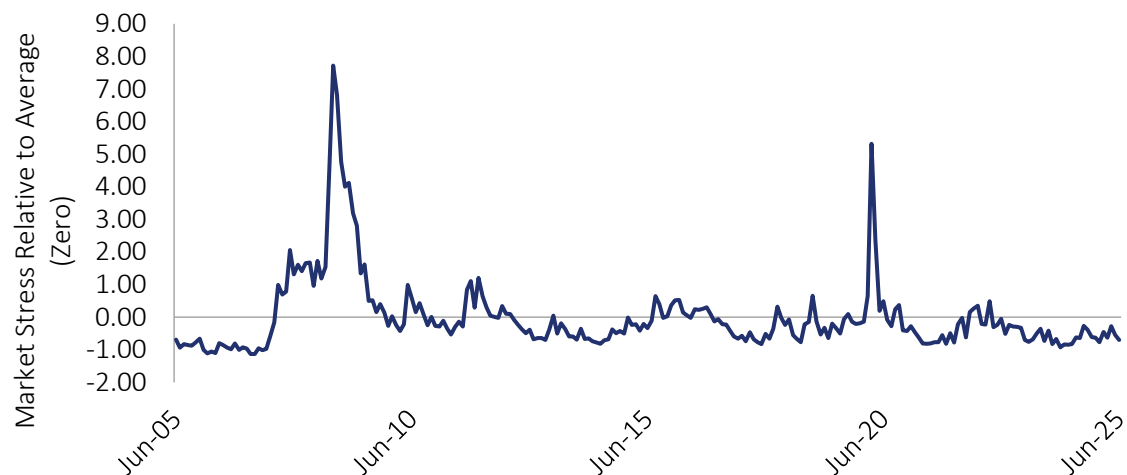
Yield Curve Slope vs Recessions (IN GRAY)



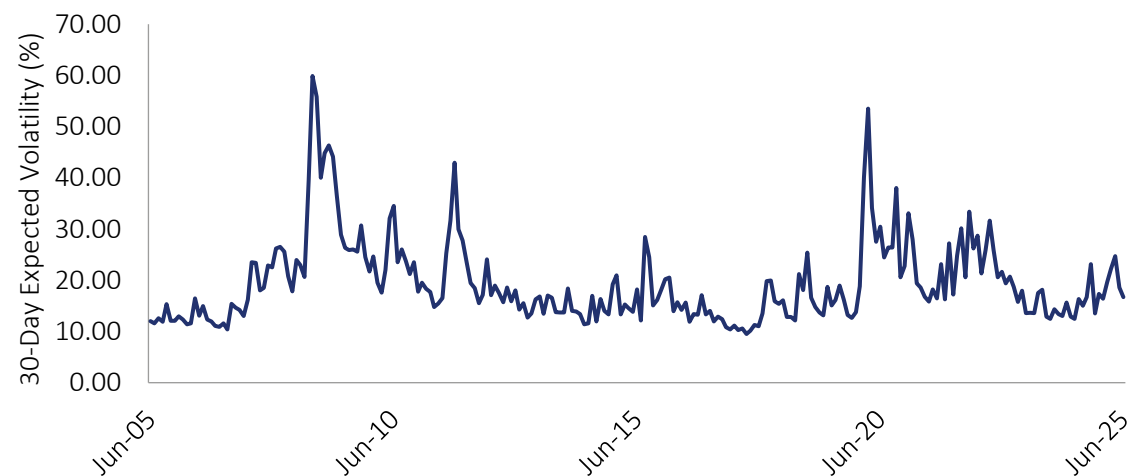
Bloomberg Credit Indexes



St. Louis Fed. Financial Stress Index



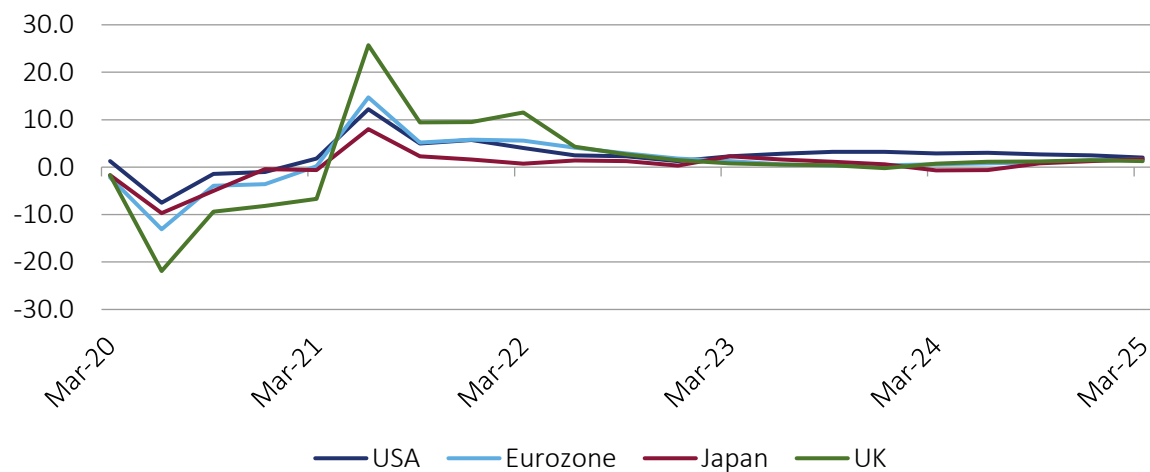
CBOE Volatility Index



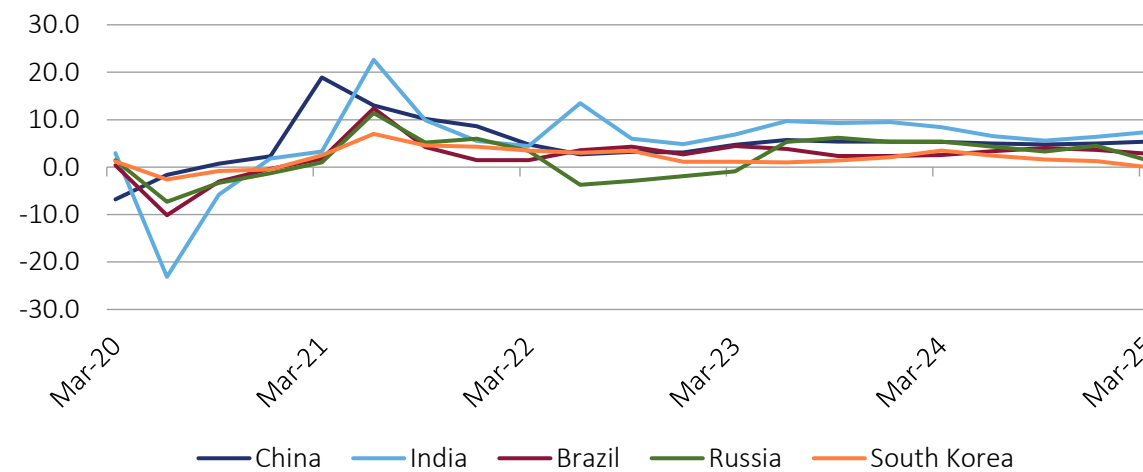
Data Source: Bloomberg

Non-U.S. Growth and Inflation

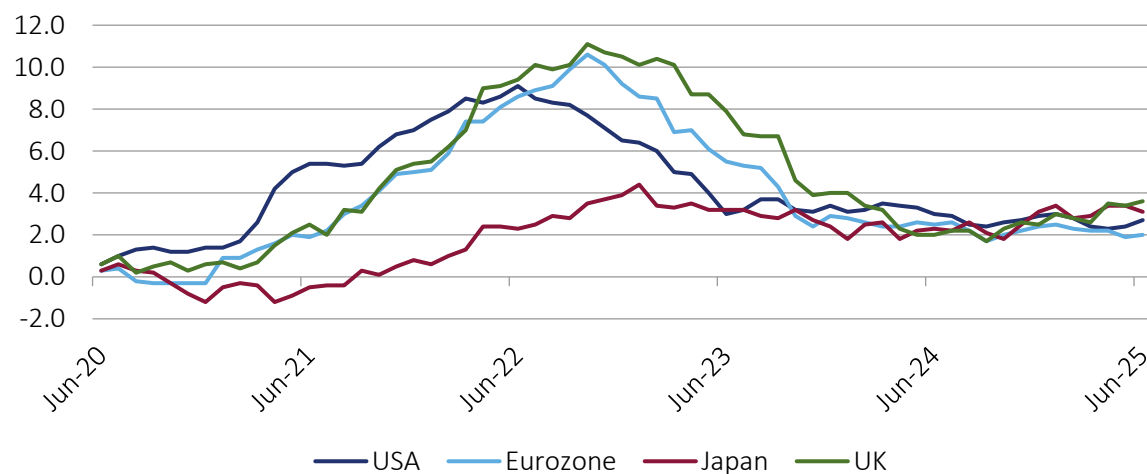
Developed Markets Real GDP Growth YoY (%)



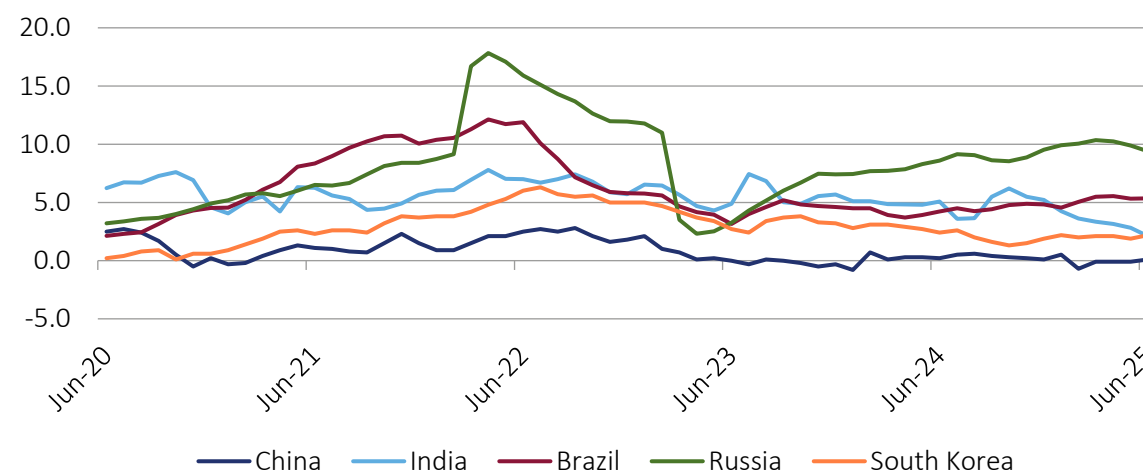
Emerging Markets Real GDP Growth YoY (%)



Developed Markets CPI Growth YoY (%)



Emerging Markets CPI Growth YoY (%)



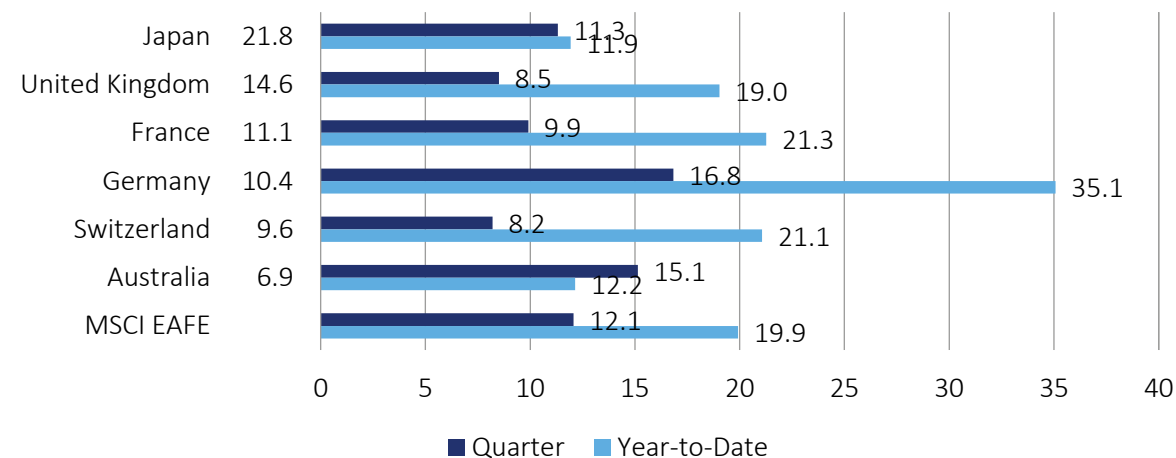
Data Source: Bloomberg

Non-U.S. Equity Market

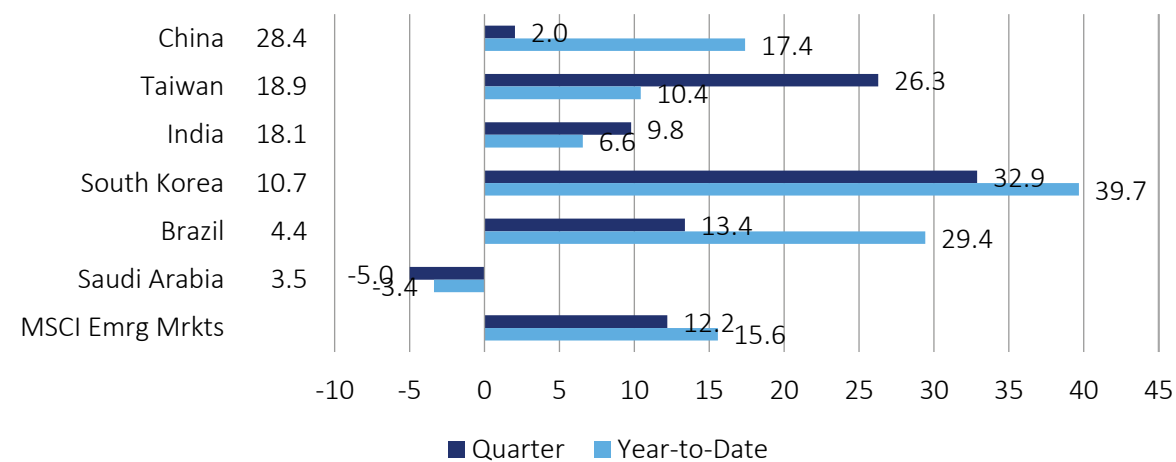
As of 6/30/2025	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
MSCI ACWI ex-US (\$G)	12.3	18.3	18.4	14.6	10.7	6.6
MSCI EAFE (\$G)	12.1	19.9	18.3	16.6	11.7	7.0
MSCI Emerging Markets (\$G)	12.2	15.6	16.0	10.2	7.3	5.2
MSCI Frontier Markets (\$G)	11.0	18.7	22.3	12.5	8.5	2.9
MSCI ACWI ex-US Growth (\$G)	13.8	16.2	14.5	12.8	7.4	6.7
MSCI ACWI ex-US Value (\$G)	11.4	20.2	22.0	16.3	13.9	6.5
MSCI ACWI ex-US Small (\$G)	17.2	18.0	18.9	14.0	11.3	7.0
MSCI All Country World Index	11.7	10.3	16.7	17.9	14.2	10.5
MSCI ACWI Minimum Volatility	3.1	9.6	16.5	10.8	9.0	8.3
MSCI EAFE Minimum Volatility	10.3	21.0	25.5	13.7	8.2	6.1
FTSE RAFI Developed ex-US	11.8	21.9	21.8	17.3	14.8	7.2
MSCI EAFE LC (G)	5.1	8.3	8.6	14.1	12.2	7.6
MSCI Emerging Markets LC (G)	8.1	11.1	13.6	11.0	8.4	6.9

Data Source: Bloomberg

Developed Markets Weight and Return (%)



Emerging Markets Weight and Return (%)



CalPERS PERF Public Equity – Performance

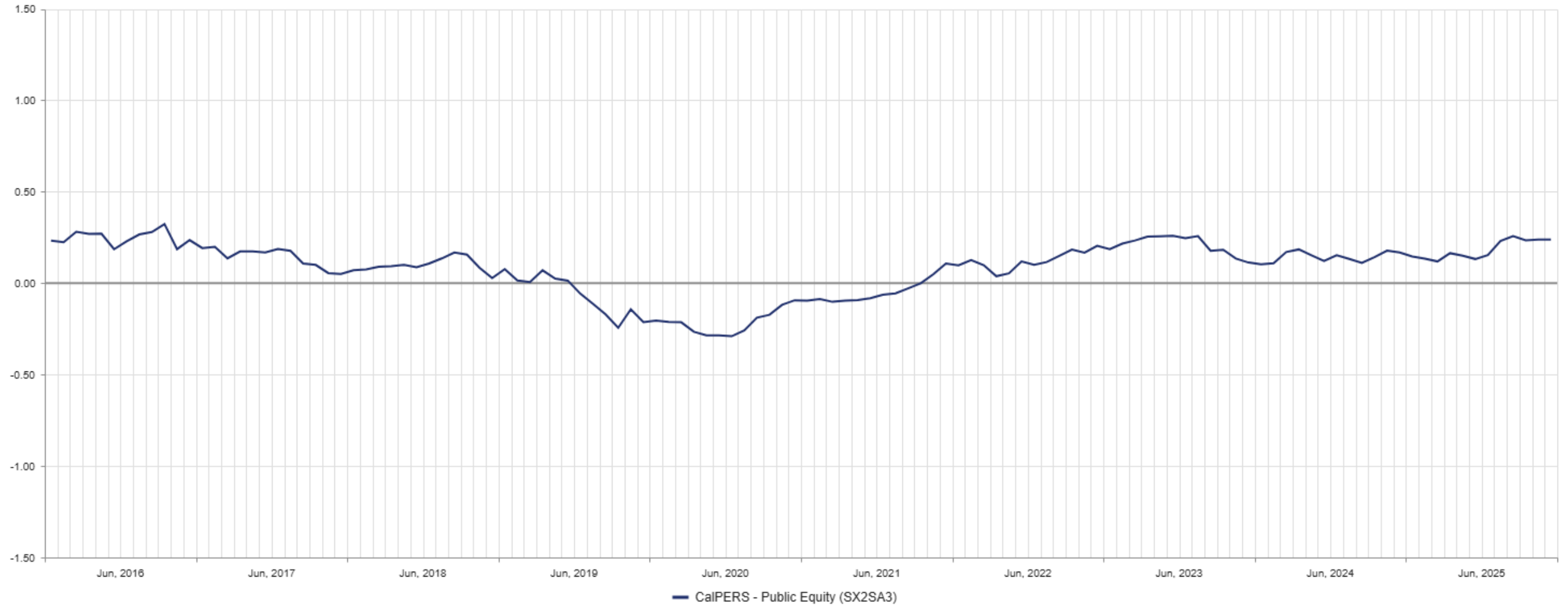
As of June 30, 2025

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
PUBLIC EQUITY*	\$ 216.3	10.2%	16.8%	16.1%	13.2%	9.8%	\$ 43.4	0.7	1.1	
<i>Public Equity Policy Benchmark</i>		10.1%	16.4%	15.8%	12.9%	9.7%		0.7	0.0	
Public Equity - Cap Weighted*	\$ 175.6	11.7%	16.7%	17.7%	14.3%	10.4%	\$ 38.2	0.7	1.1	
<i>CalPERS Custom FTSE Global Benchmark</i>		11.6%	16.2%	17.4%	14.0%	10.2%		0.7	0.0	
Public Equity - Factor Weighted	\$ 40.8	5.1%	15.9%	11.5%	9.6%	-.-%	\$ 6.6	0.6	0.4	
<i>CalPERS FTSE Factor Wtd Blend Benchmark</i>		4.8%	15.7%	11.4%	9.6%	-.-%		0.6	0.0	

* The CalPERS asset values shown include derivative exposure.

CalPERS PERF Public Equity – Rolling Excess Return

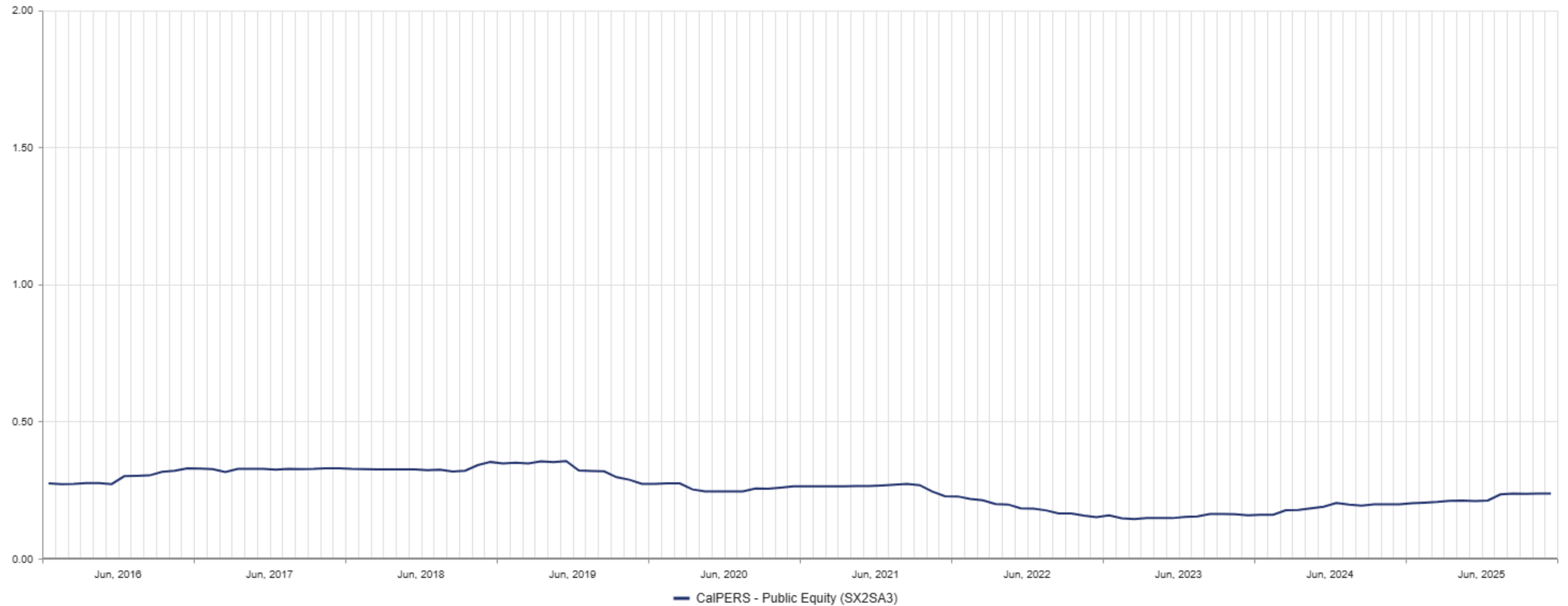
CalPERS - Public Equity (SX2SA3)
36-Month Rolling Geometric Excess Return: June 30, 2015 - June 30, 2025
Benchmark: Public Equity Policy Benchmark



* Monthly data; Net of Investment Management Fees

CalPERS PERF Public Equity – Rolling Tracking Error

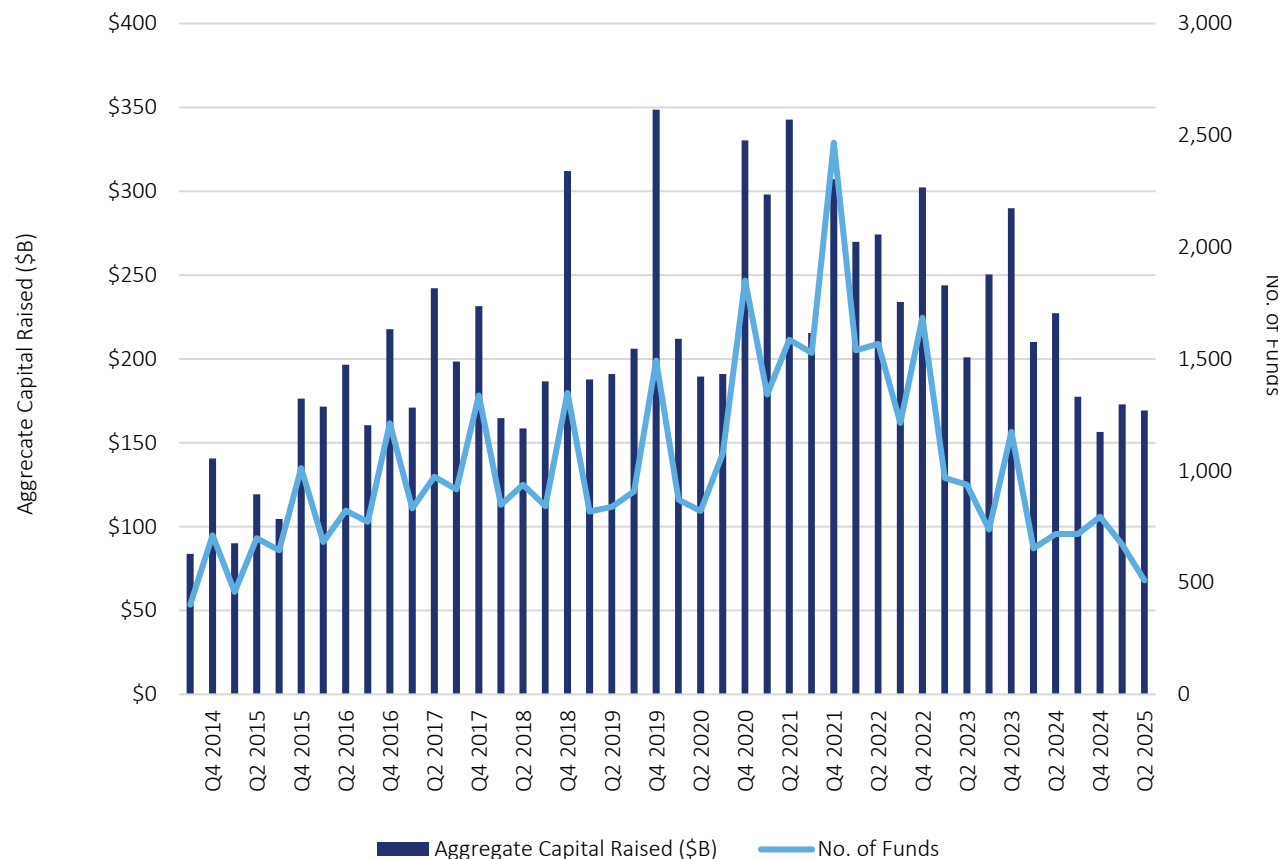
CalPERS - Public Equity (SX2SA3)
36-Month Rolling Geometric Excess Standard Deviation of Return: June 30, 2015 - June 30, 2025
Benchmark: Public Equity Policy Benchmark



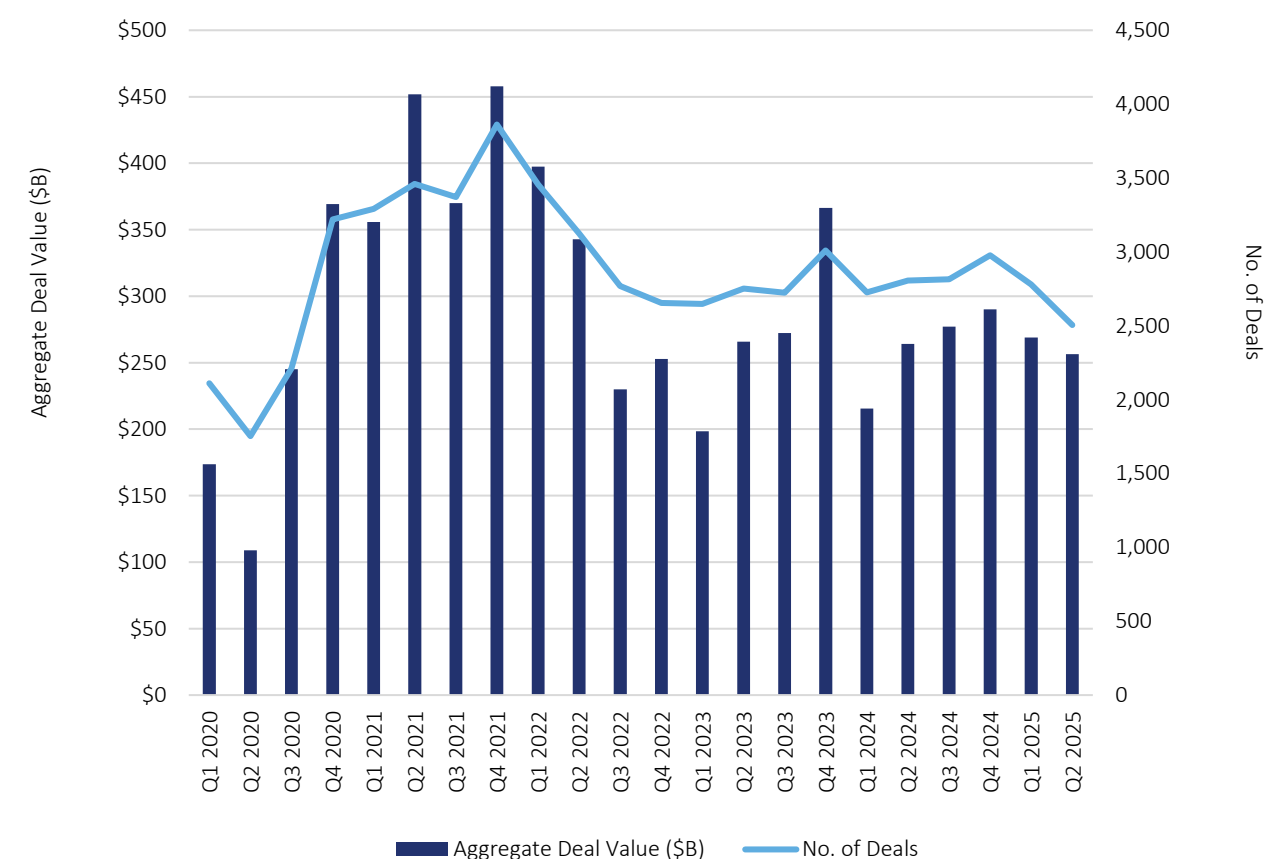
* Monthly data; Net of Investment Management Fees

Private Equity – Fundraising & Investment Activity

Global Private Equity Fundraising, by Quarter



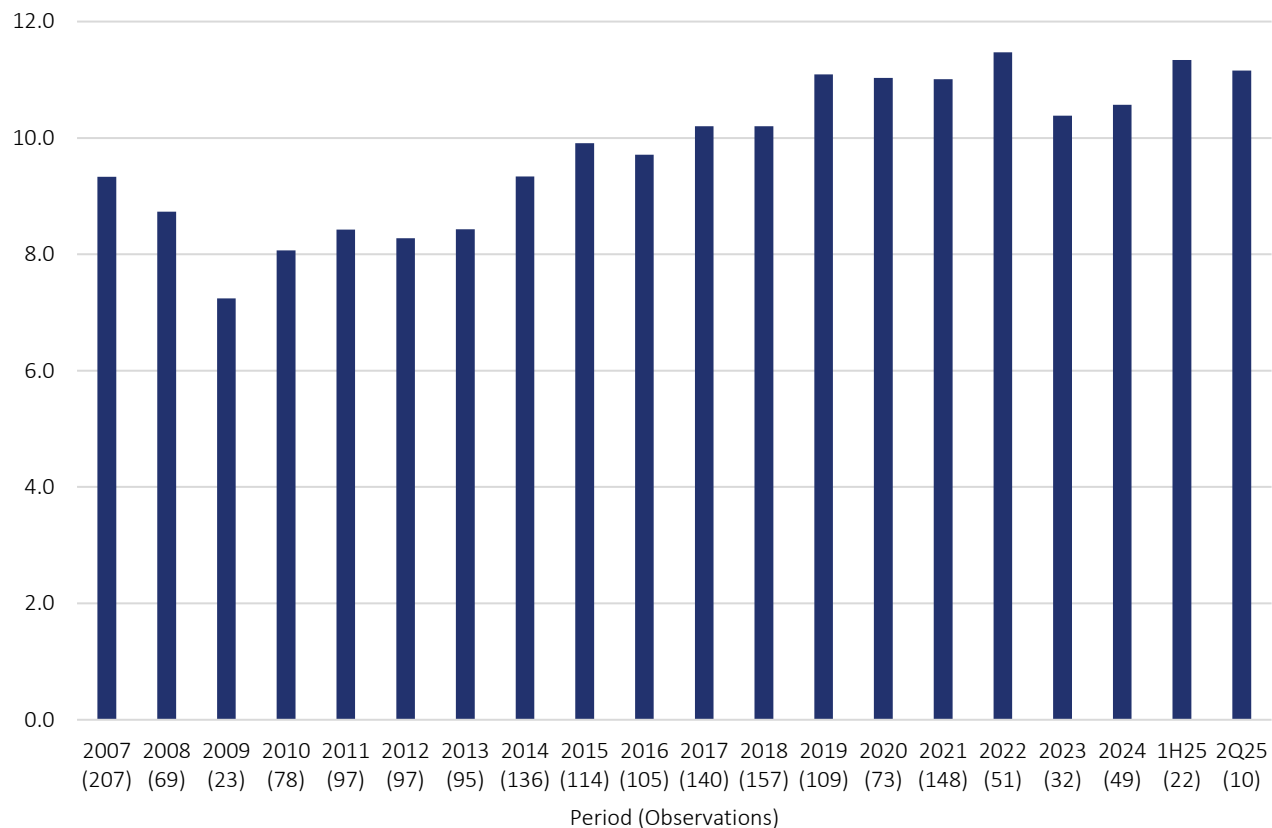
Global Private Equity-Backed Deals, by Quarter



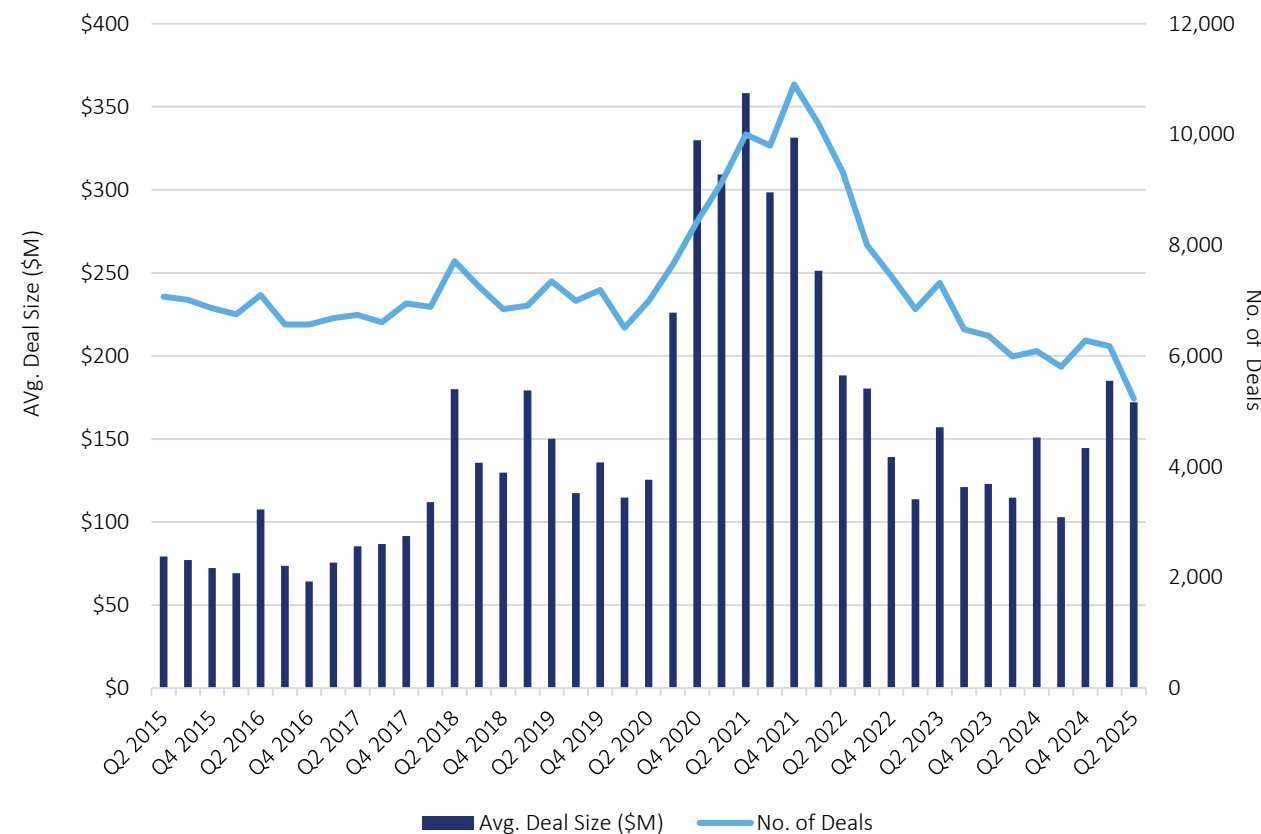
Source: Preqin as of August 13, 2025.

Private Equity – Pricing & Valuations

LBO Purchase Price Multiples



Global Venture Capital Deals, by Quarter

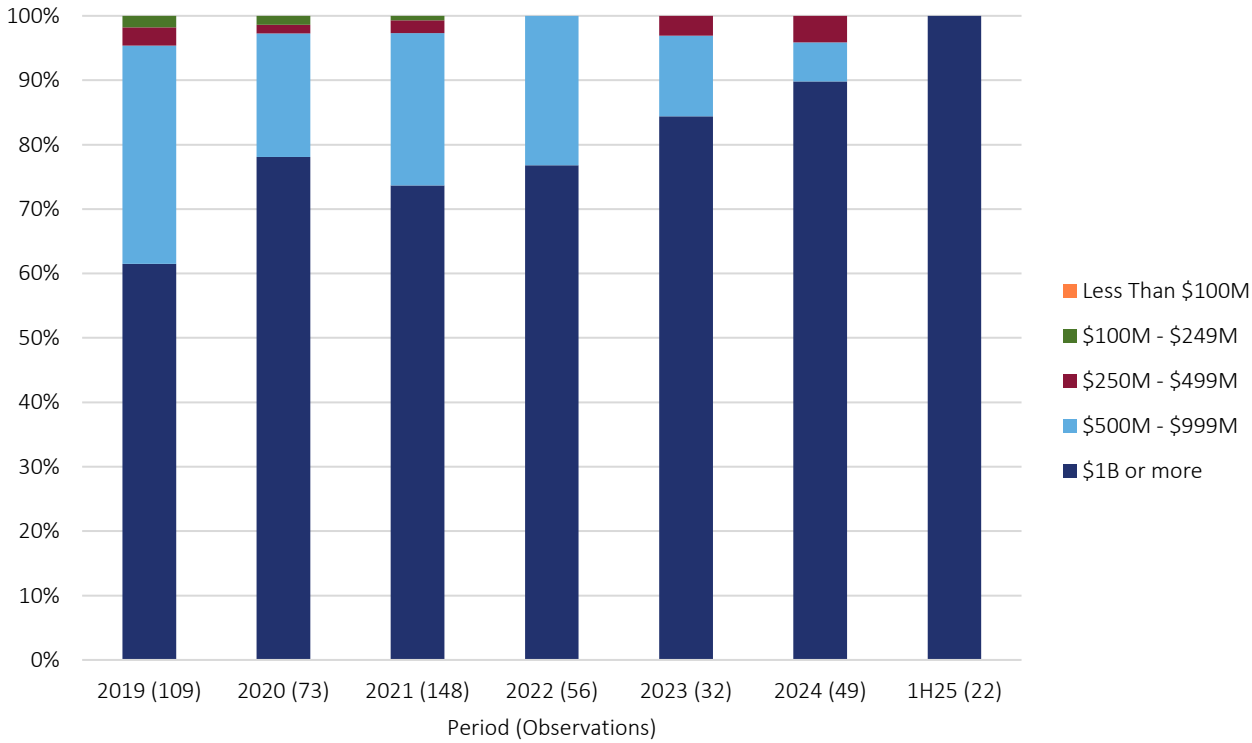


Source: S&P LCD Q2 2025 Report; Preqin as of August 13, 2025.

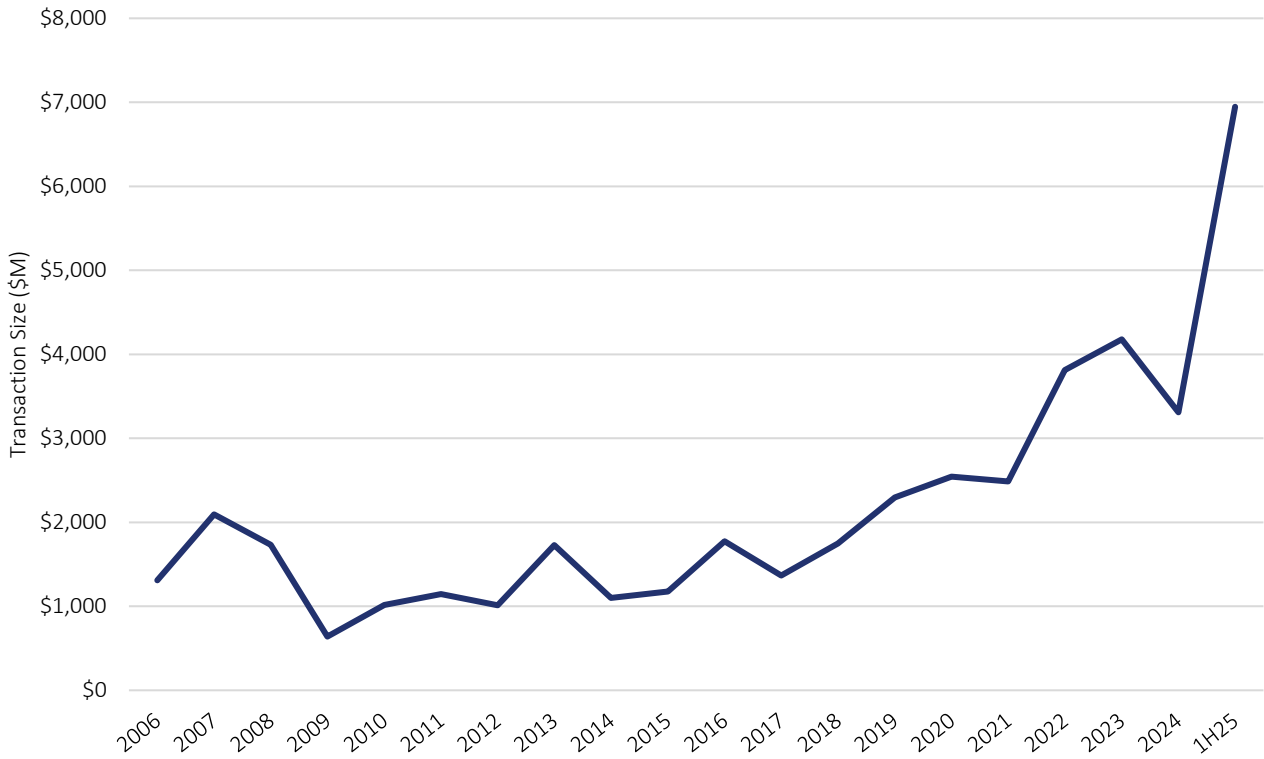
U.S. Investment Activity by Deal Size

- Deal volume in Q1 was generally consistent with 2024 but has not returned to pre-COVID levels, though a majority of deals stay in the upper, large cap market.
- Average LBO transaction size increased in H1 2025 with an increase in the number of LBO transactions in the large cap market.

Distribution of U.S. LBO Transactions, by Deal Size



Average Transaction Size of U.S. LBOs

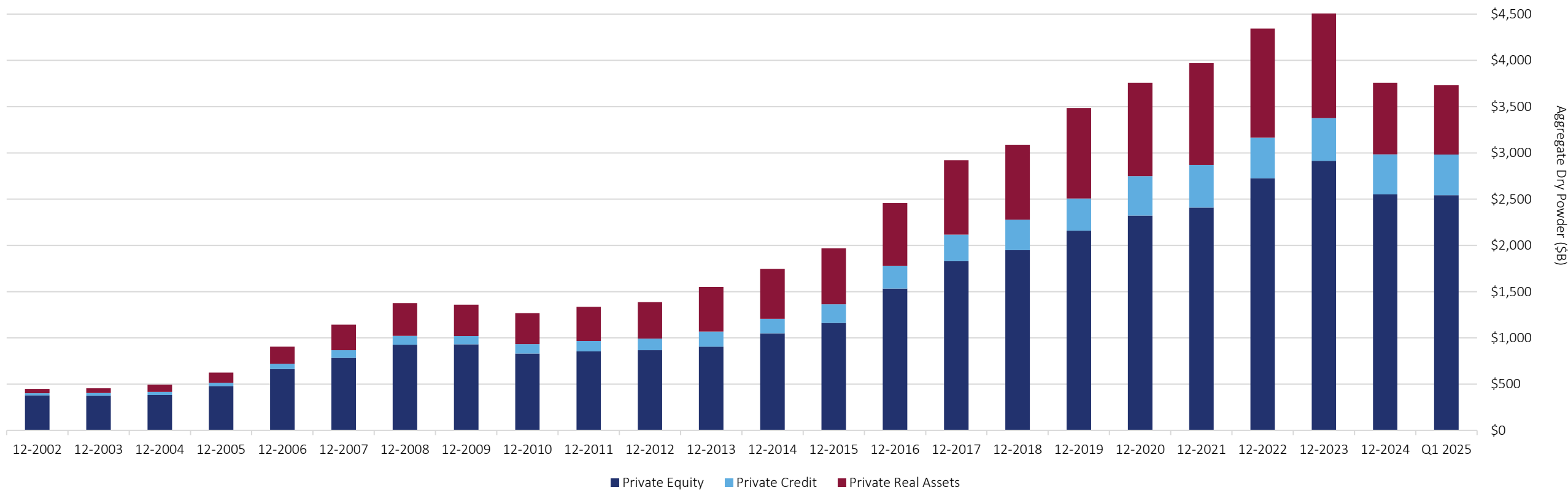


Source: S&P LCD Q2 2025 Report.

Private Capital Dry Powder

- Global private equity and real assets dry powder has decreased from peak at the end of 2023 but global private capital dry powder remains elevated.
- Private equity comprises approximately 68% of total dry powder as of February 13, 2025, and continues to drive heightened levels of dry powder.

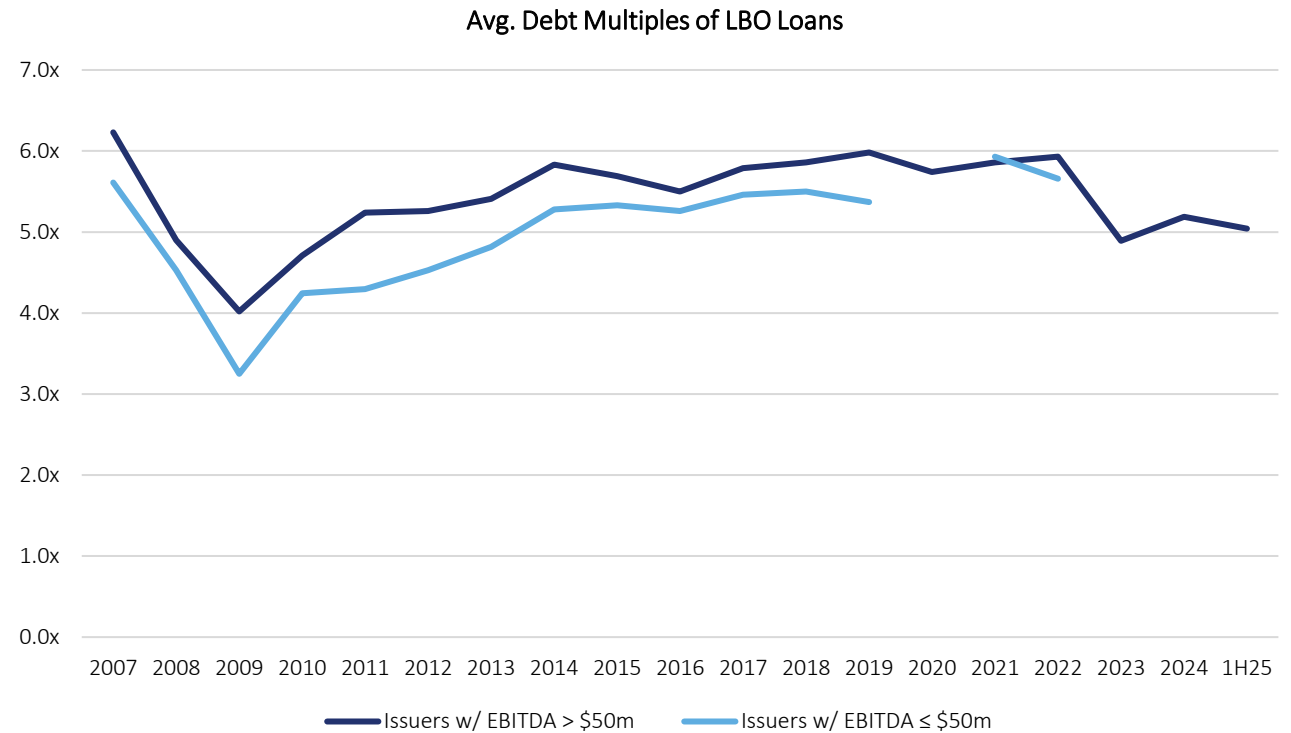
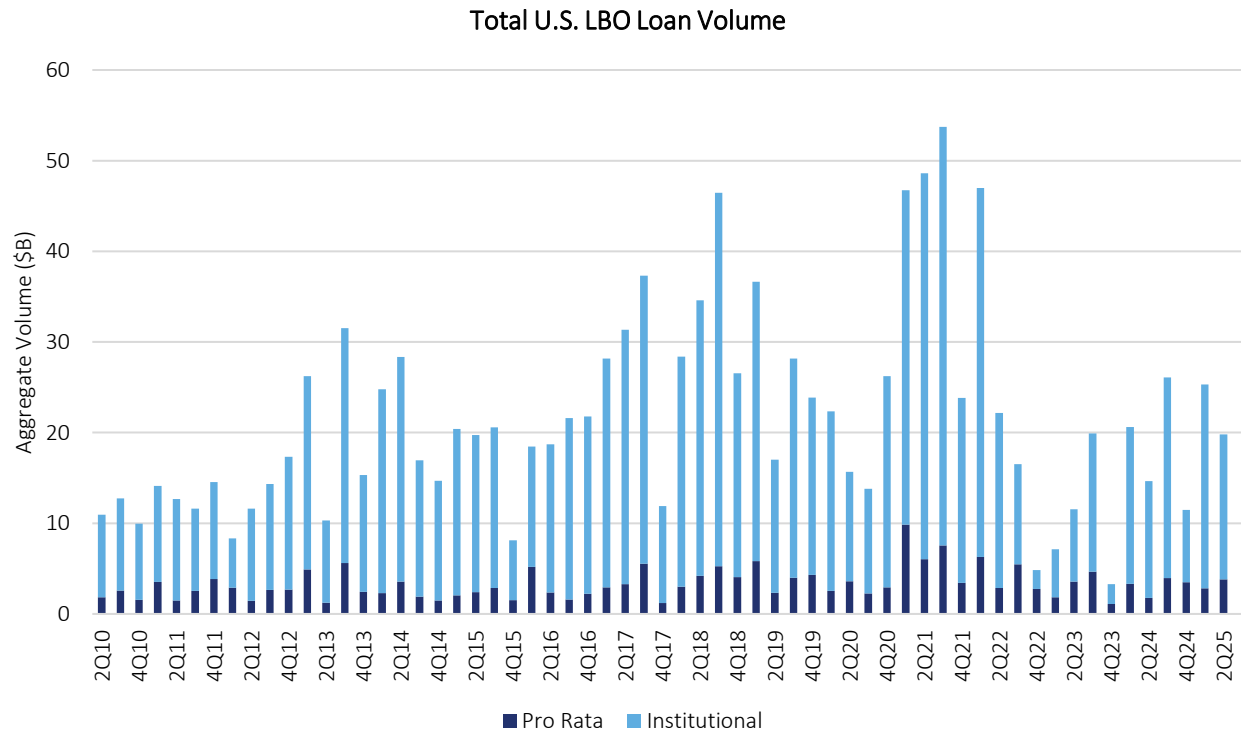
Global Private Capital Dry Powder, at Month



Source: Preqin as of February 13, 2025.

Private Equity – U.S. Debt Markets

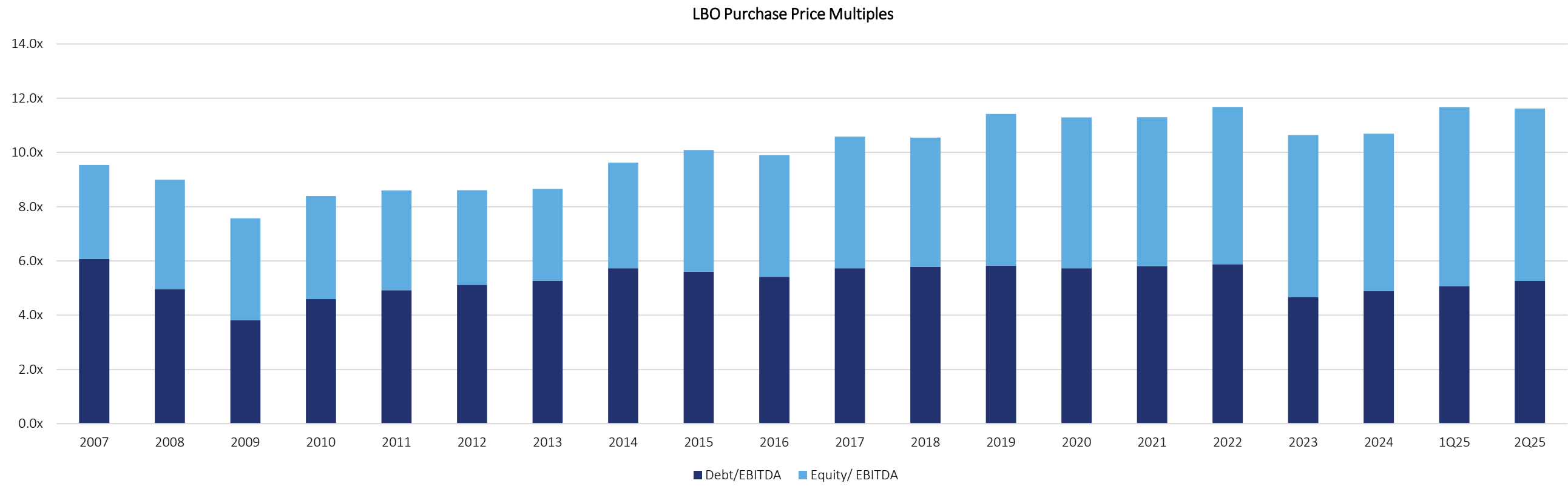
- Q2 2025 saw ~19.8 billion in supporting loan issuance, continuing the rebound since record low levels in 2023.
- Debt multiples of sponsor-backed, large corporate loans stay approximately the same as 2023 for 2024 in total at ~5.0x, lower than recent years with debt multiples just under 6.0x.



Source: S&P LCD Q2 2025 Report.

Private Equity – U.S. LBO Purchase Price Multiples

- All in purchase price multiples for Q1 2025 are slightly higher than 2024 purchase price multiples, with equity continuing to contribute a majority of capital.
- Debt contributions in Q4 2024 are 42% of purchase price multiples.



Source: S&P LCD Q2 2025 Report.

CalPERS PERF Private Equity – Performance

As of June 30, 2025

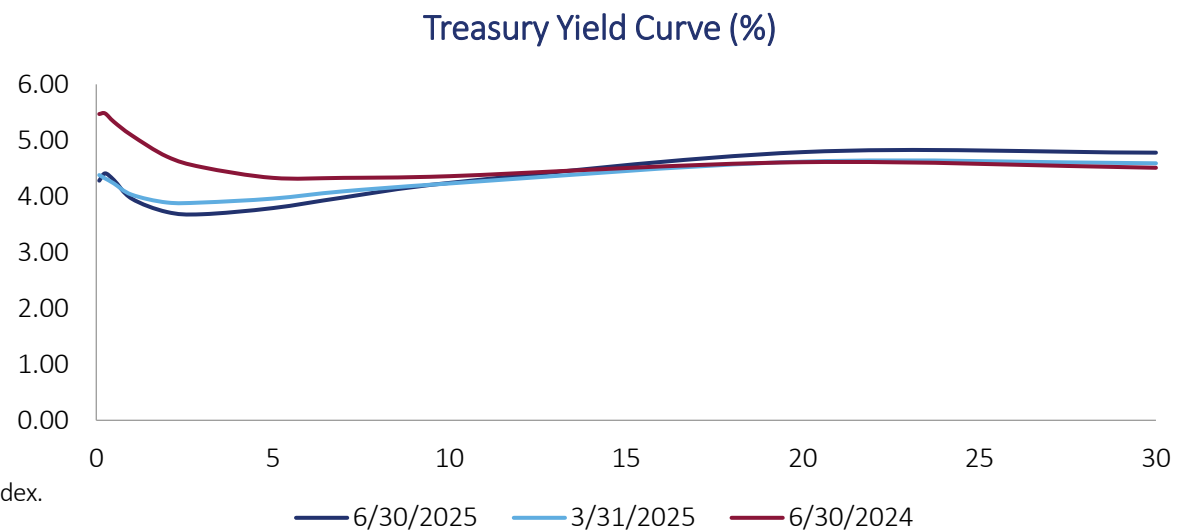
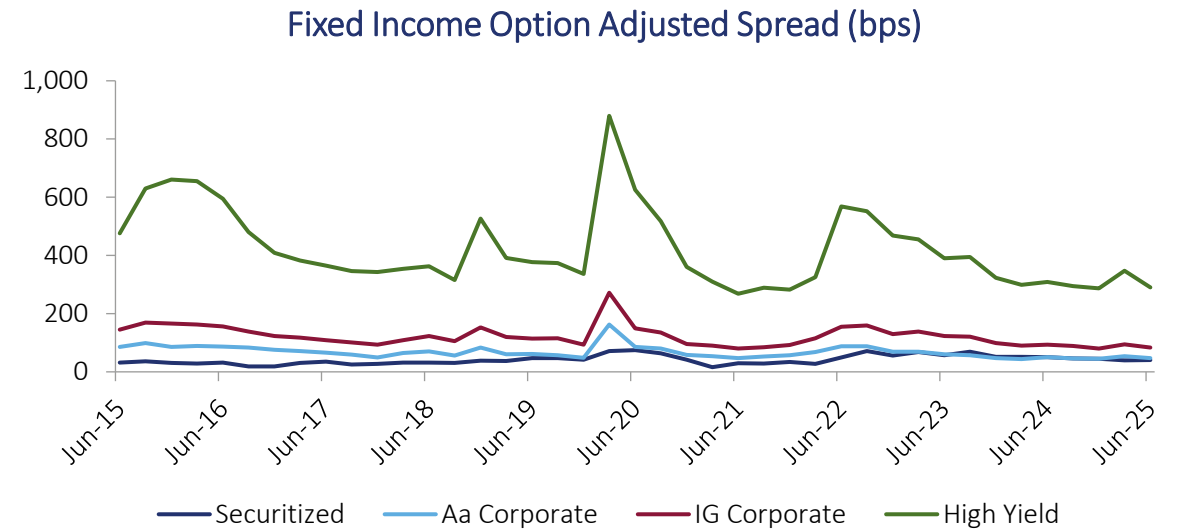
	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
PRIVATE EQUITY	\$ 98.3	6.2%	14.3%	7.4%	16.6%	11.5%	\$ 38.1	1.9	0.0	
<i>Private Equity Policy Benchmark</i>		-1.1%	8.3%	8.5%	17.4%	11.3%		0.9	0.0	
Private Equity Partnership Investments	\$ 98.3	6.2%	14.3%	7.4%	16.7%	11.6%		N/A	N/A	
Private Equity Distribution Stock	\$ 0.0	44.5%	-8.3%	-12.4%	-29.7%	-18.6%		N/A	N/A	

U.S. Fixed Income

As of 6/30/2025	YTW	Dur.	QTR	YTD	1 YR	3 YR	5 YR	10 YR
Bloomberg Aggregate	4.5	6.1	1.2	4.0	6.1	2.5	-0.7	1.8
Bloomberg Treasury	4.0	5.9	0.8	3.8	5.3	1.5	-1.6	1.2
Bloomberg Gov't-Rel.	4.5	5.3	1.7	4.4	6.2	3.2	0.1	2.0
Bloomberg Securitized	4.9	5.8	1.2	4.2	6.6	2.4	-0.5	1.4
Bloomberg Corporate	5.0	6.8	1.8	4.2	6.9	4.3	0.1	2.9
Bloomberg LT Gov't/Credit	5.2	13.7	-0.2	3.4	3.3	-0.3	-4.9	1.8
Bloomberg LT Treasury	4.8	14.7	-1.5	3.1	1.6	-3.7	-8.2	0.1
Bloomberg LT Gov't-Rel.	5.8	11.5	1.4	4.7	4.6	2.2	-2.3	2.3
Bloomberg LT Corporate	5.7	12.7	1.2	3.6	5.2	2.8	-2.3	3.1
Bloomberg U.S. TIPS*	4.0	6.1	0.5	4.7	5.8	2.3	1.6	2.7
Bloomberg High Yield	7.1	2.8	3.5	4.6	10.3	9.9	6.0	5.4
S&P/LSTA Leveraged Loan	7.8	0.3	2.3	2.8	7.3	9.7	7.5	5.1
Treasury Bills	4.3	0.3	1.1	2.1	4.8	4.6	2.8	2.0

*Yield and Duration statistics are for a proxy index based on similar maturity, the Bloomberg Barclays U.S. Treasury 5-10 Year Index.

Data Source: Bloomberg



Federal Reserve

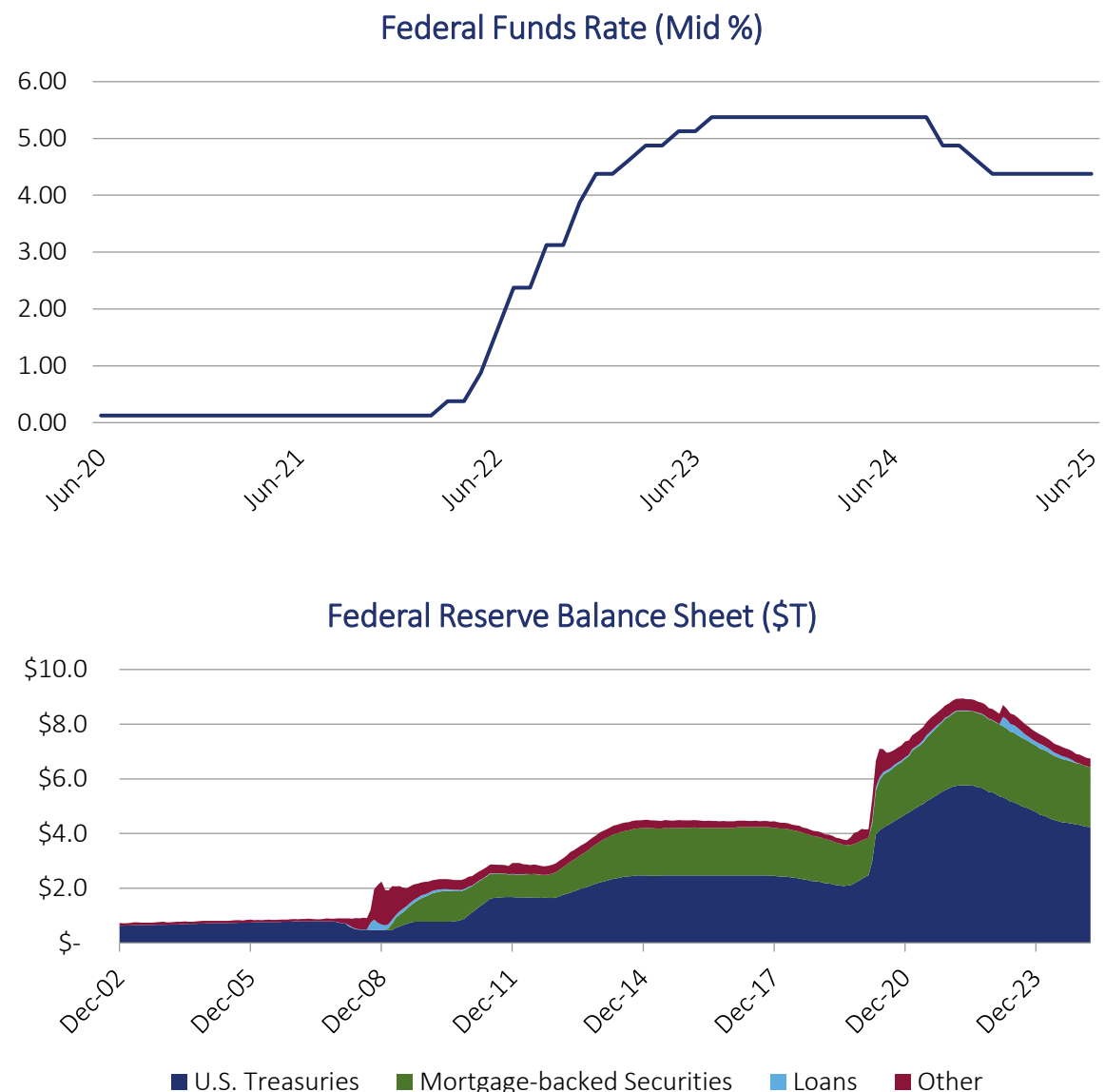
The Federal Open Market Committee left their overnight rate unchanged during Q2

QE4 was larger than the 3 phases of quantitative easing – combined – following the global financial crisis

The Fed’s current balance sheet is roughly equal to its level following the COVID spike

	Announced	Closed	Amount (bil)
QE1	11/25/2008	3/31/2010	\$1,403
QE2	11/3/2010	6/29/2012	\$568
QE3	9/13/2012	10/29/2014	\$1,674
QE4	3/23/2020	3/15/2022	\$4,779

Data Source: Bloomberg

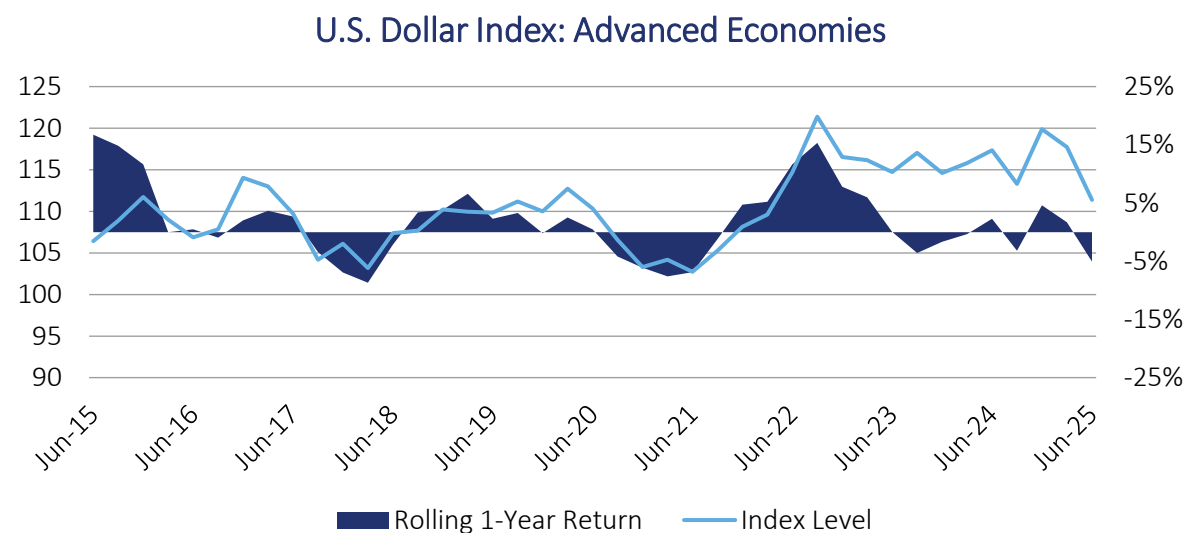
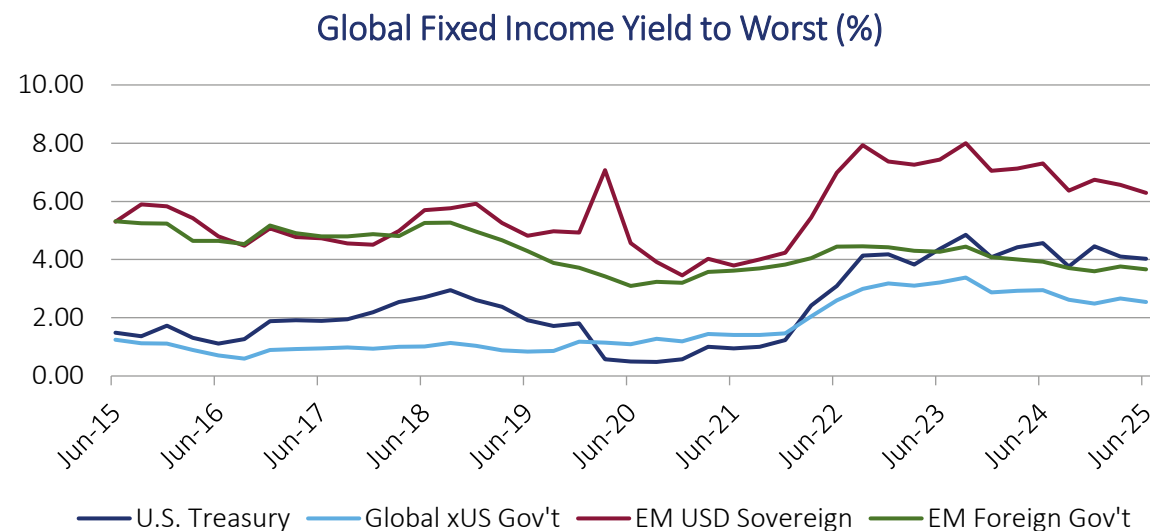


Non-U.S. Fixed Income

<u>As of 6/30/2025</u>	<u>Quarter</u>	<u>YTD</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>10 Year</u>
Developed Markets						
Bloomberg Global Aggregate xUS	7.3	10.0	11.2	2.7	-1.6	0.6
Bloomberg Global Aggregate xUS*	1.9	1.8	6.1	4.3	0.9	2.7
Bloomberg Global Inflation Linked xUS	8.5	11.6	8.1	0.2	-2.8	-0.1
Bloomberg Global Inflation Linked xUS*	1.7	1.0	0.8	-1.4	-2.7	1.8
Emerging Markets (Hard Currency)						
Bloomberg EM USD Aggregate	2.5	4.9	9.4	7.7	1.7	3.4
Emerging Markets (Foreign Currency)						
Bloomberg EM Local Currency Gov't	5.4	7.1	10.3	5.4	2.7	2.7
Bloomberg EM Local Currency Gov't*	2.3	3.2	8.7	7.9	3.3	3.8
Euro vs. Dollar	9.0	13.8	10.0	4.0	1.0	0.6
Yen vs. Dollar	4.1	9.1	11.7	-2.0	-5.6	-1.6
Pound vs. Dollar	6.3	9.7	8.6	4.1	2.1	-1.3

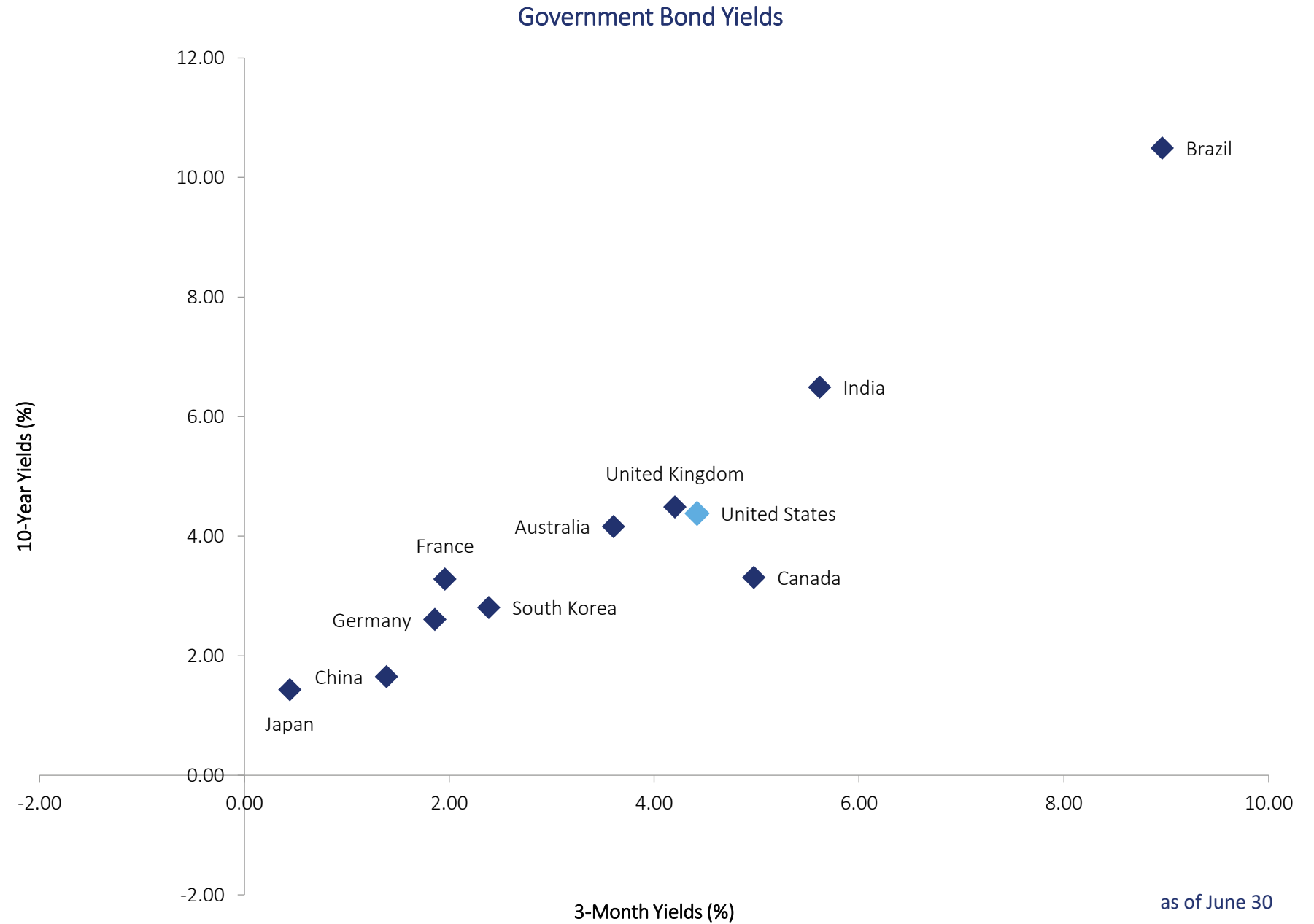
*Returns are reported in terms of local market investors, which removes currency effects.

Data Source: Bloomberg



Global Interest Rates

Short-term rates remain positive across the globe; longer-term rates above 4.0% in the U.S., U.K. and Australia



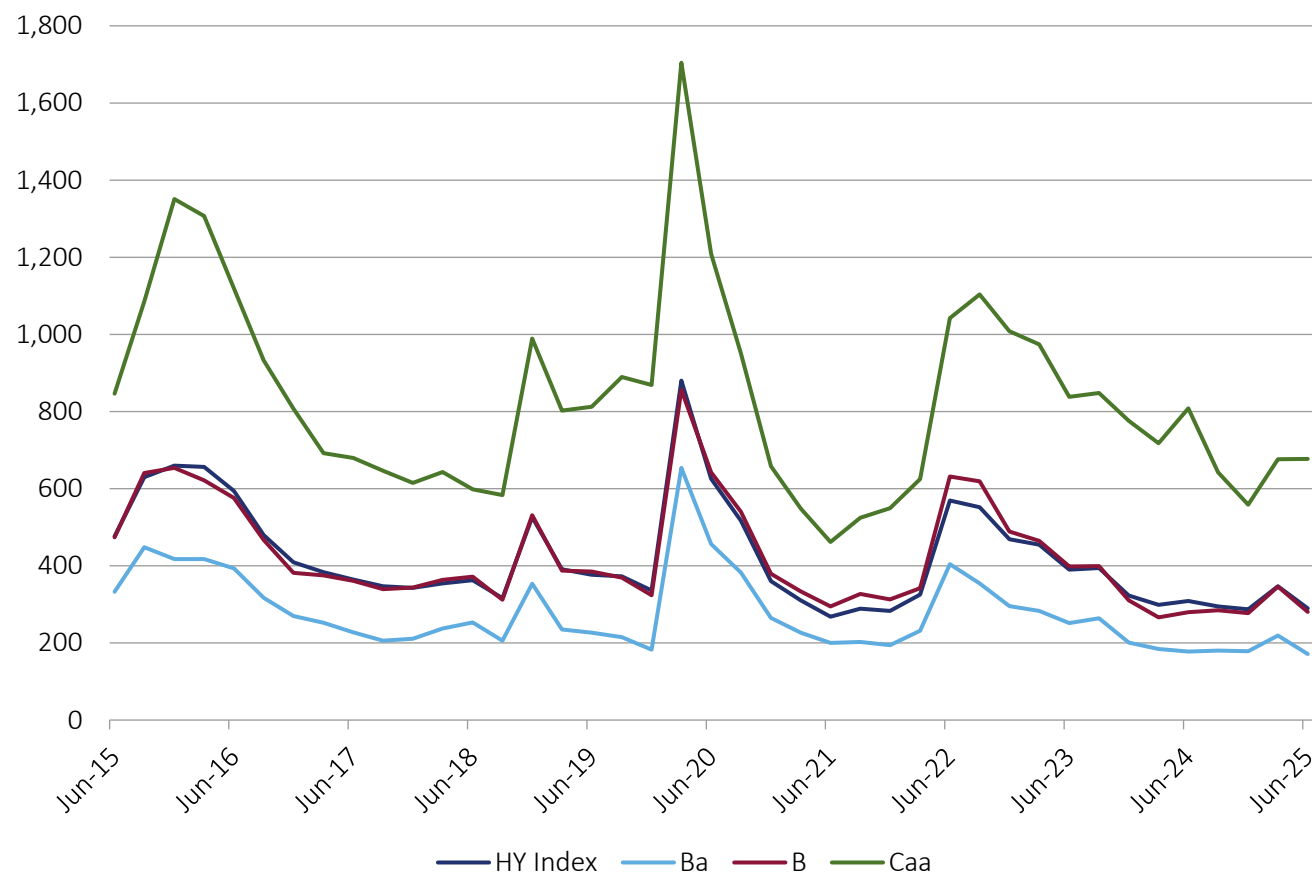
Data Source: Bloomberg

as of June 30

High Yield Bond Market

As of 6/30/2025	Weight	YTW	QTR	YTD	1 YR	3 YR	5 YR	10 YR
Bloomberg High Yield		7.1	3.5	4.6	10.3	9.9	6.0	5.4
S&P LSTA Leveraged Loan		7.8	2.8	3.2	7.8	10.1	6.9	4.9
High Yield Quality Distribution								
Ba U.S. High Yield	51.3%	5.9	3.4	5.0	8.9	8.9	5.0	5.4
B U.S. High Yield	35.7%	7.0	3.6	4.4	9.5	10.0	5.8	5.0
Caa U.S. High Yield	11.6%	10.8	4.0	3.5	16.7	12.6	8.9	5.7
Ca to D U.S. High Yield	1.4%	20.8	0.6	2.2	27.9	24.9	20.5	7.6

Fixed Income Option Adjusted Spread (bps)



Data Source: Bloomberg

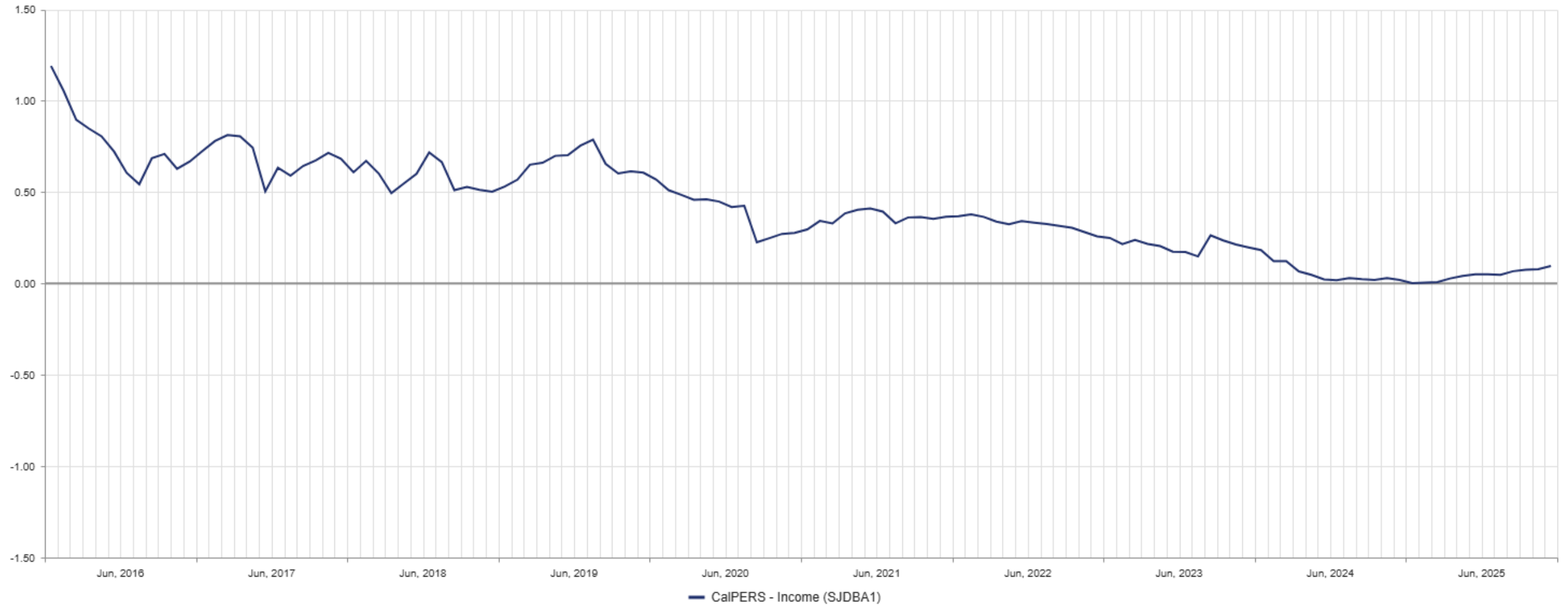
CalPERS PERF Income – Performance

As of June 30, 2025

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
INCOME	\$ 168.6	1.6%	6.5%	3.4%	-1.2%	2.5%	\$ 7.7	-0.4	1.3	
<i>Income Policy Benchmark</i>		1.5%	6.3%	3.3%	-1.3%	2.2%		-0.4	0.0	
Treasury	\$ 43.9	-0.6%	3.0%	-2.1%	-6.4%	0.3%	\$ 4.6	-0.8	0.7	
<i>Custom Bloomberg Government</i>		-0.6%	3.0%	-2.1%	-6.4%	0.3%		-0.8	0.0	
Mortgage-Backed Securities	\$ 32.0	1.2%	6.9%	2.7%	-0.3%	1.7%	\$ 0.1	-0.4	0.7	
<i>Custom Bloomberg Mortgage</i>		1.2%	6.6%	2.4%	-0.5%	1.4%		-0.5	0.0	
Investment Grade Credit	\$ 34.0	1.7%	6.5%	3.4%	-1.4%	3.3%	\$ 3.3	-0.3	0.0	
<i>Custom Bloomberg Corp ex Sov</i>		1.6%	6.2%	3.5%	-1.4%	3.0%		-0.3	0.0	
High Yield	\$ 29.3	3.6%	9.3%	9.4%	5.6%	-.%	\$ 2.8	0.4	0.5	
<i>Custom Bloomberg High Yield</i>		3.5%	9.1%	9.3%	5.5%	-.%		0.4	0.0	
EM Sovereign	\$ 29.4	2.9%	7.9%	-.%	-.%	-.%	\$ 1.6	N/A	N/A	
<i>Custom JPM EMBIG Diversified</i>		2.8%	7.6%	-.%	-.%	-.%		N/A	N/A	

CalPERS PERF Income – Rolling Excess Return

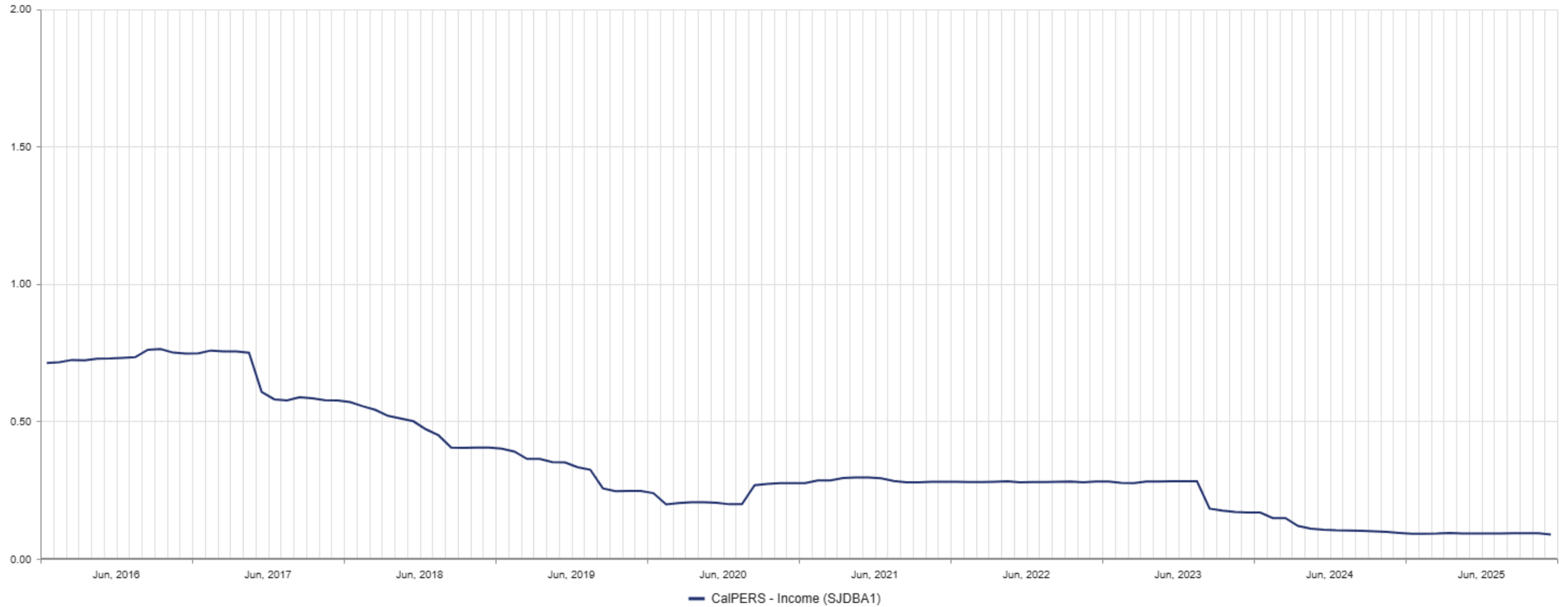
CalPERS - Income (SJDBA1)
36-Month Rolling Geometric Excess Return: June 30, 2015 - June 30, 2025
Benchmark: Income Policy Benchmark



* Monthly data; Net of Investment Management Fees

CalPERS PERF Income – Rolling Tracking Error

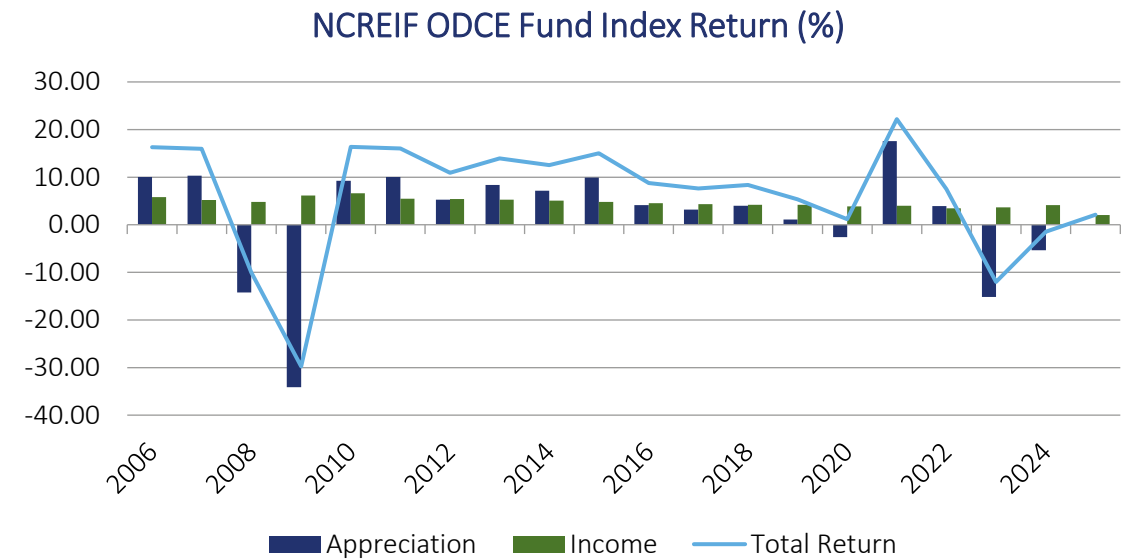
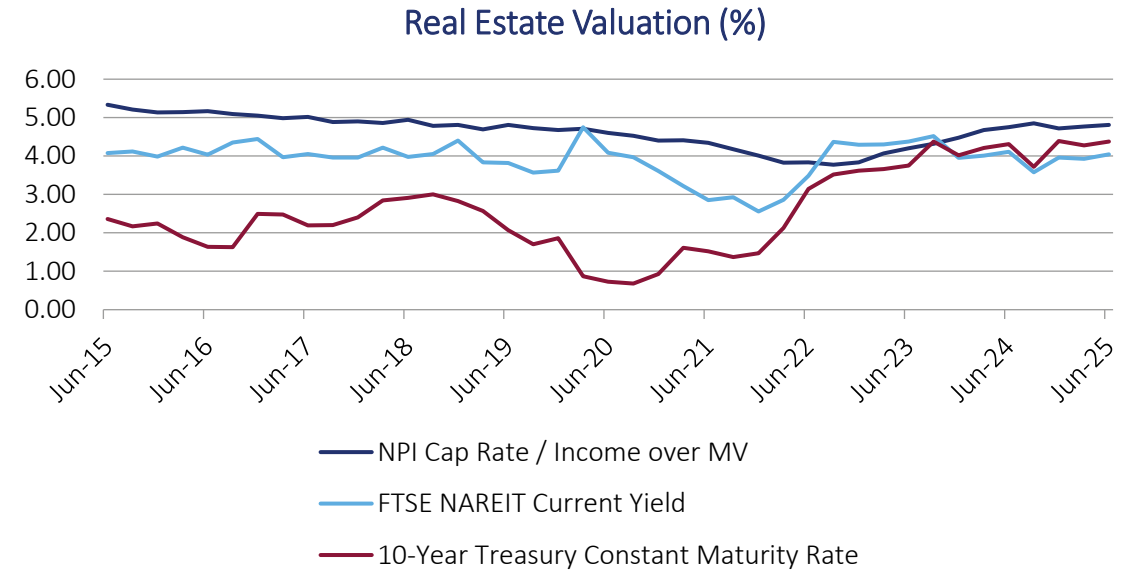
CalPERS - Income (SJDBA1)
 36-Month Rolling Geometric Excess Standard Deviation of Return: June 30, 2015 - June 30, 2025
 Benchmark: Income Policy Benchmark



* Monthly data; Net of Investment Management Fees

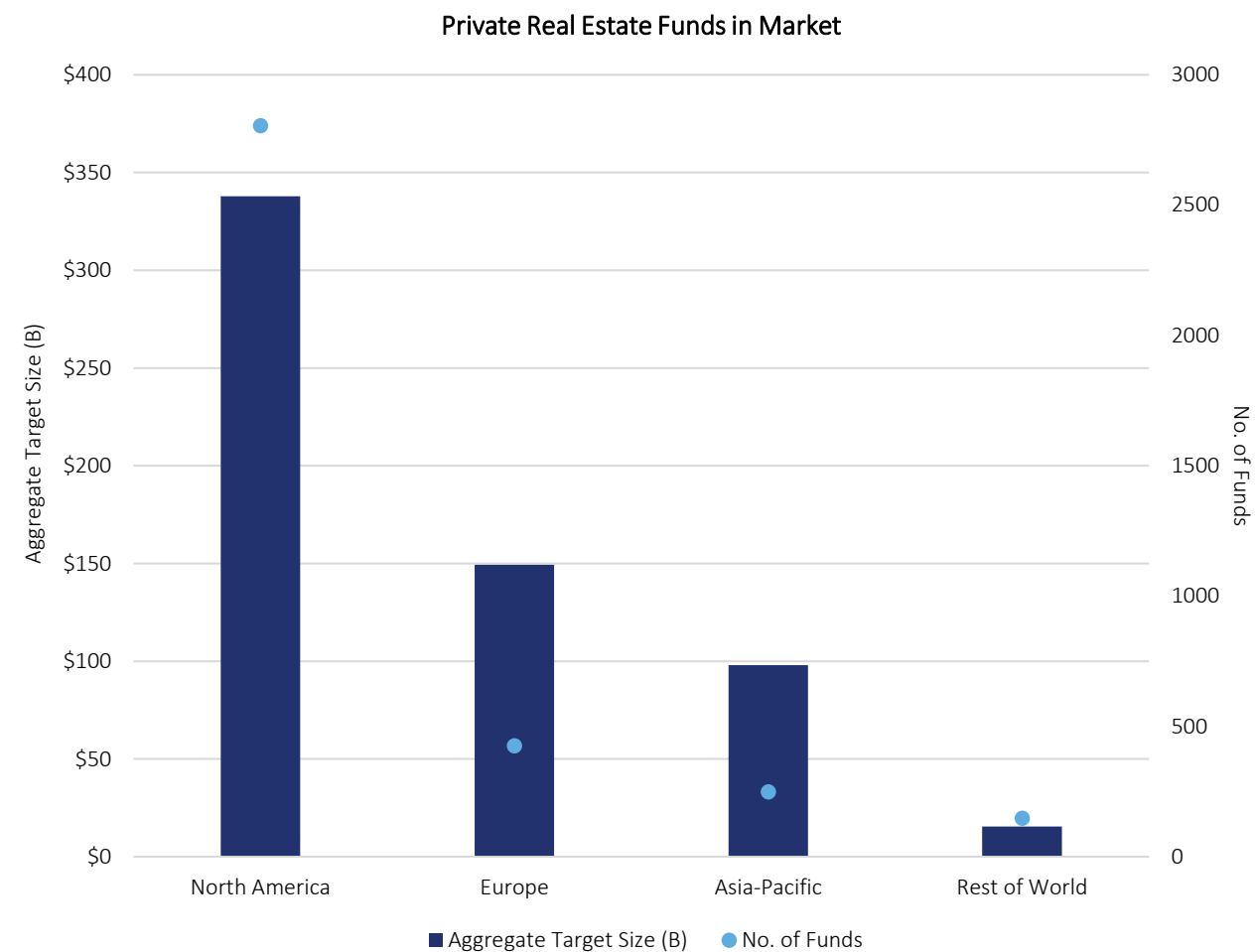
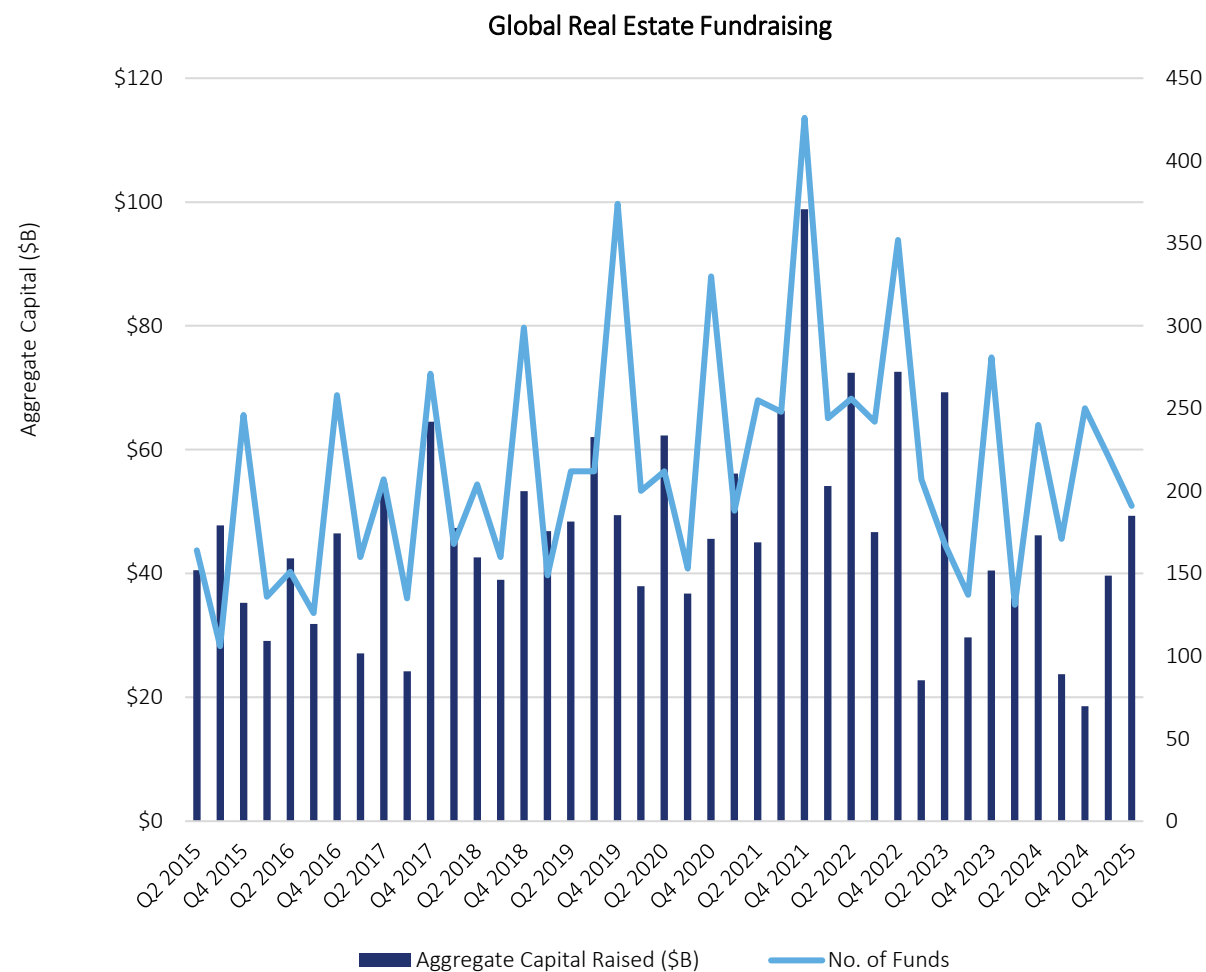
Real Assets

As of 6/30/2025	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
Bloomberg U.S. TIPS	0.5	4.7	5.8	2.3	1.6	2.7
Bloomberg Commodity Index	-3.1	5.5	5.8	0.1	12.7	2.0
Bloomberg Gold Index	5.2	24.4	39.8	21.4	11.8	9.9
Wilshire Global RESI Index	1.8	4.4	11.5	6.1	7.9	5.2
NCREIF ODCE Fund Index	1.0	2.1	3.5	-5.4	3.4	5.3
NCREIF Timberland Index	1.4	2.3	5.3	8.7	8.2	5.4
FTSE Global Core Infrastructure	4.6	9.8	18.0	7.6	9.0	7.7
Alerian Midstream Energy	-1.2	5.1	30.8	22.9	26.0	7.7
Bitcoin	30.6	14.8	73.8	79.1	63.7	82.6



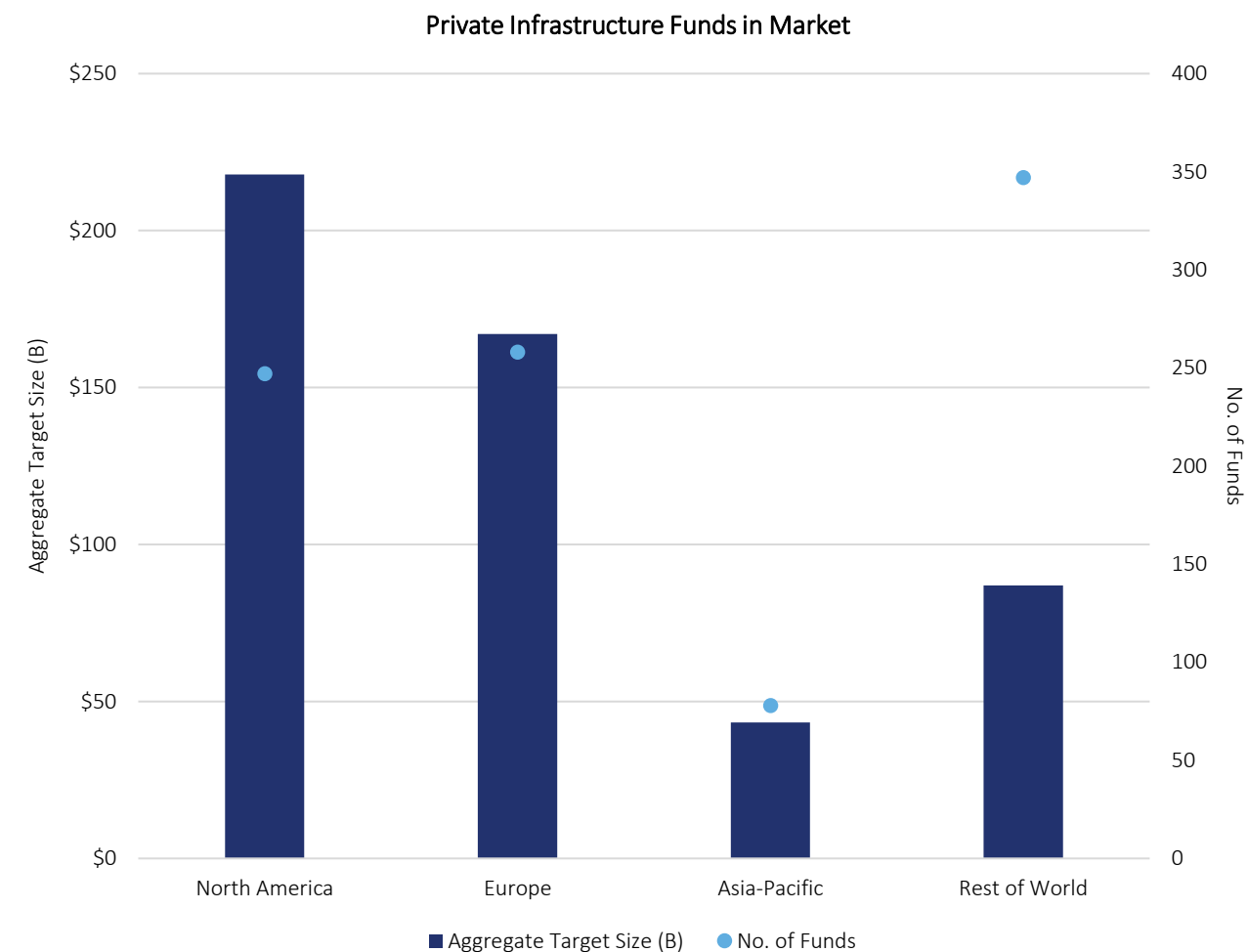
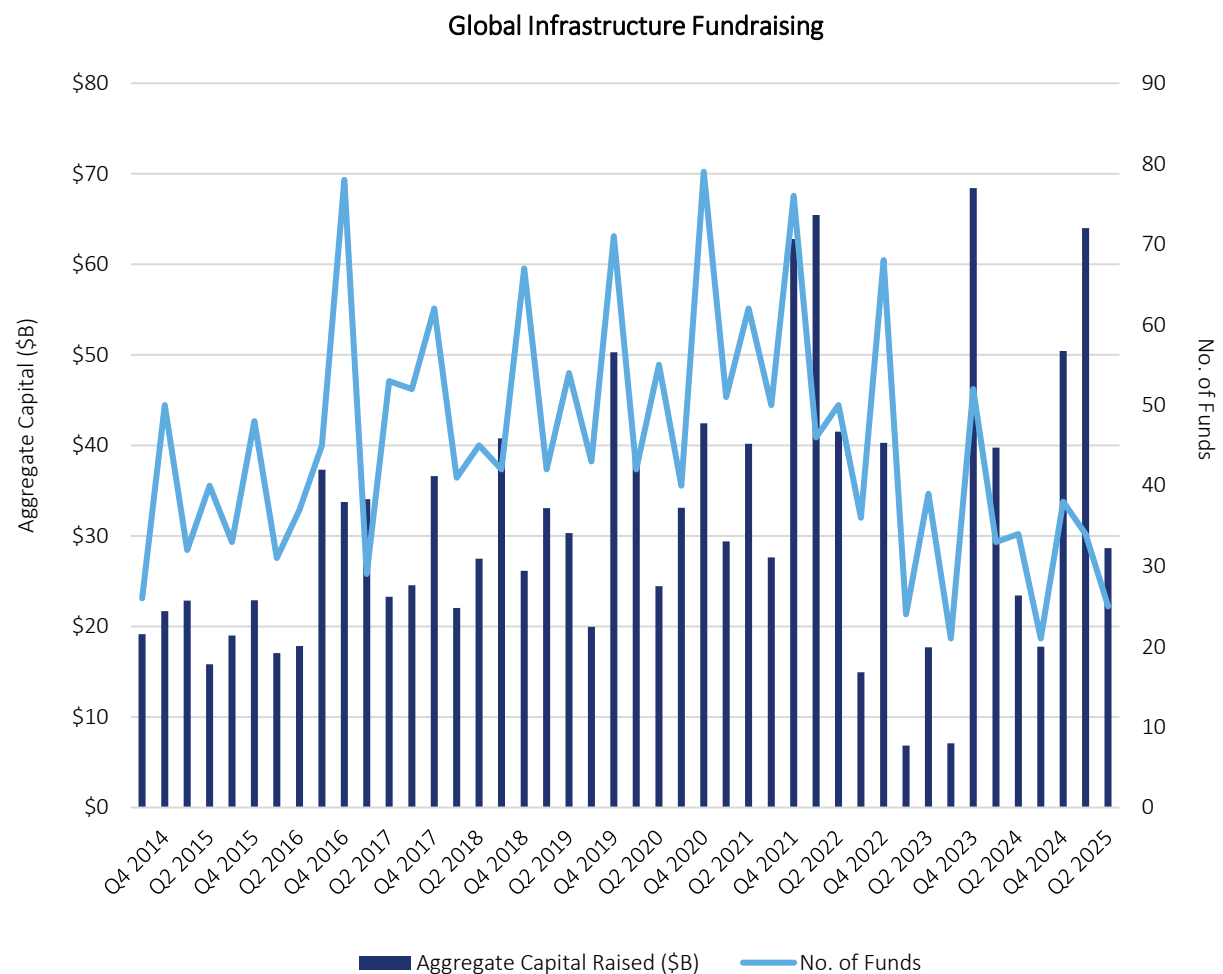
Data Sources: Bloomberg, National Council of Real Estate Investment Fiduciaries

Private Real Assets – Real Estate Fundraising Activity



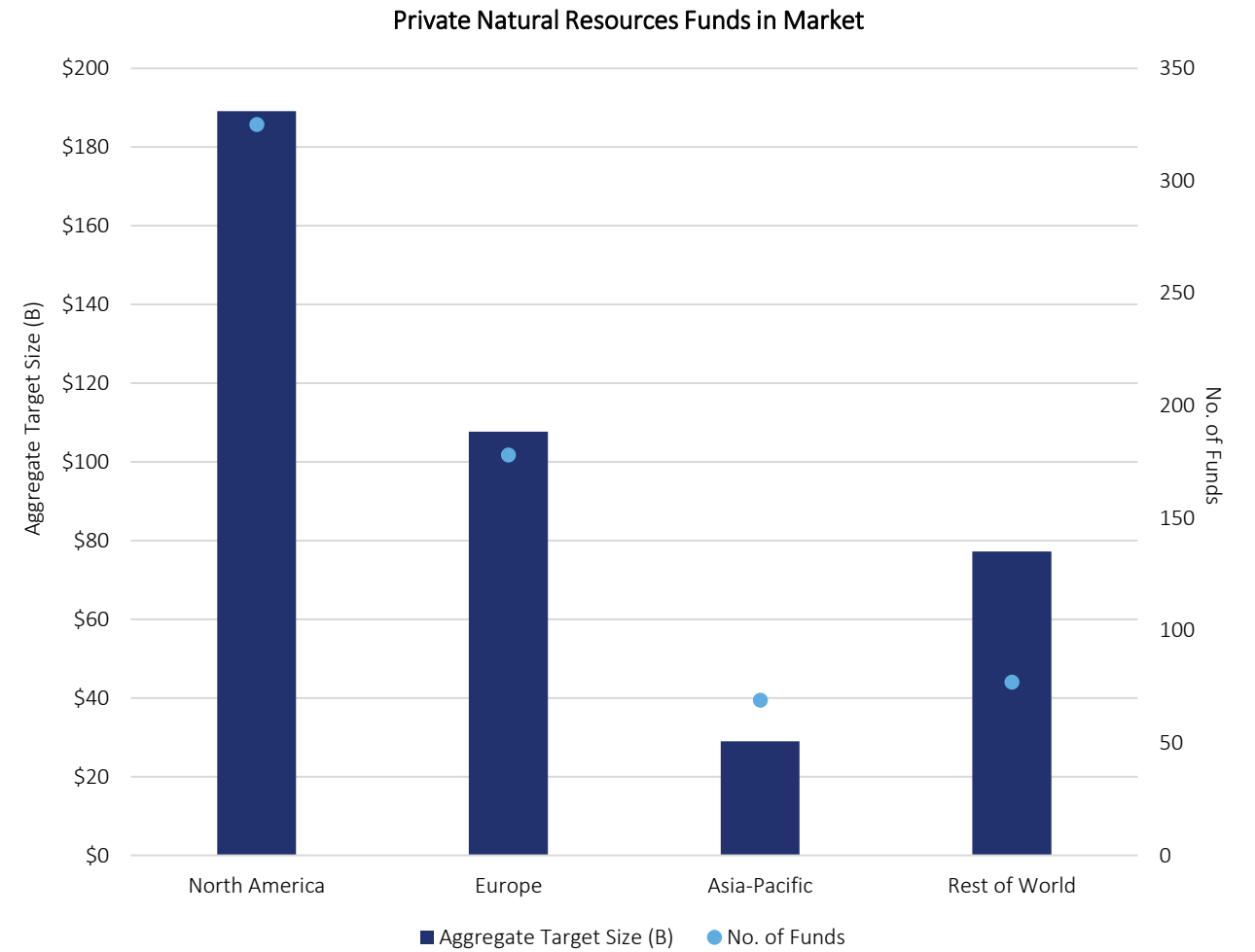
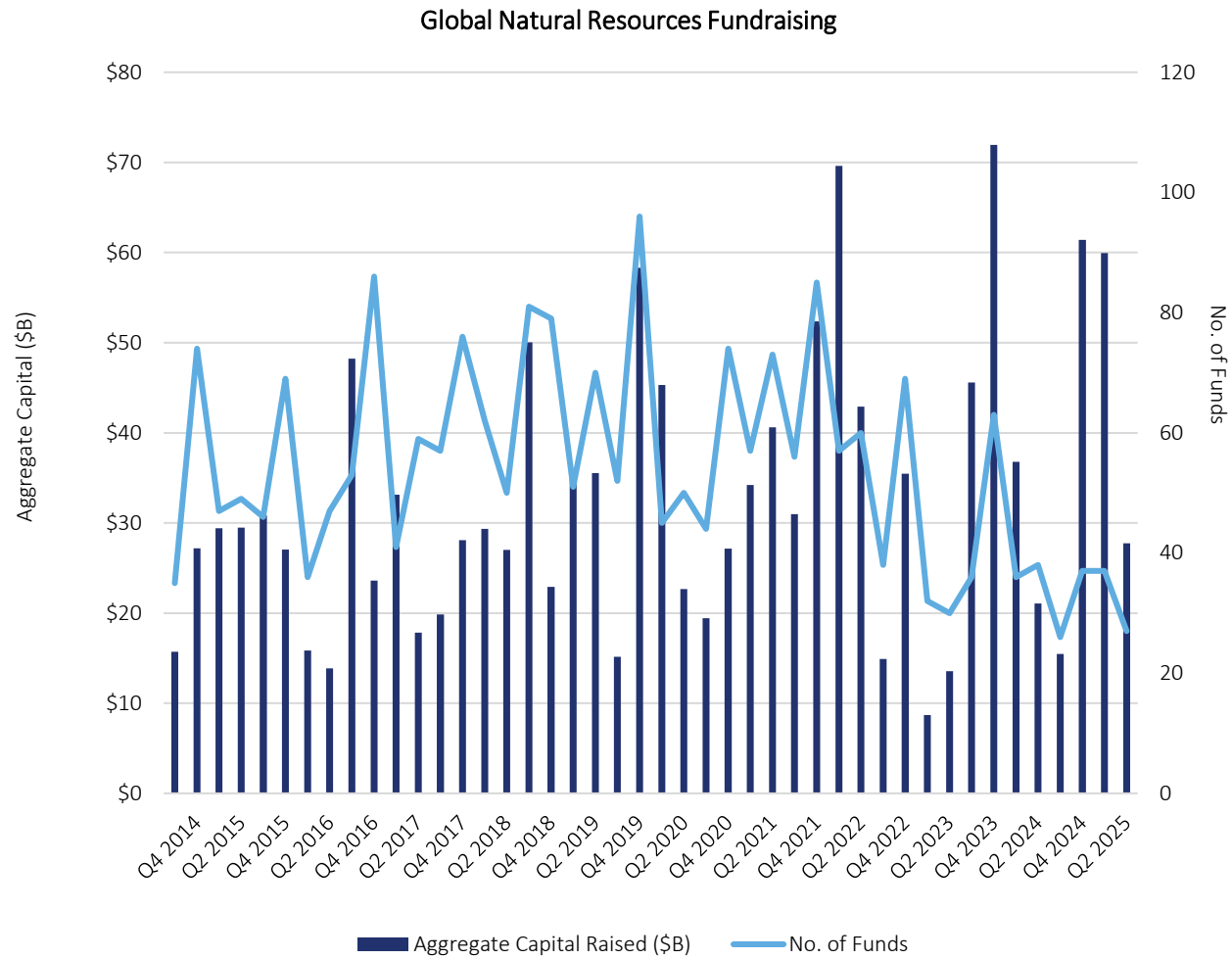
Source: Prequin as of August 13, 2025.

Private Real Assets – Infrastructure Fundraising



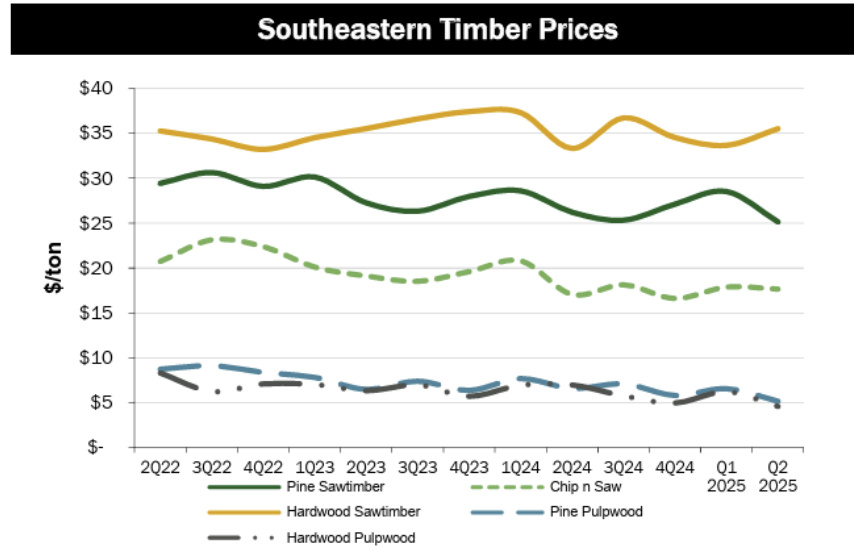
Source: Prequin as of August 13, 2025.

Private Real Assets – Natural Resources Fundraising

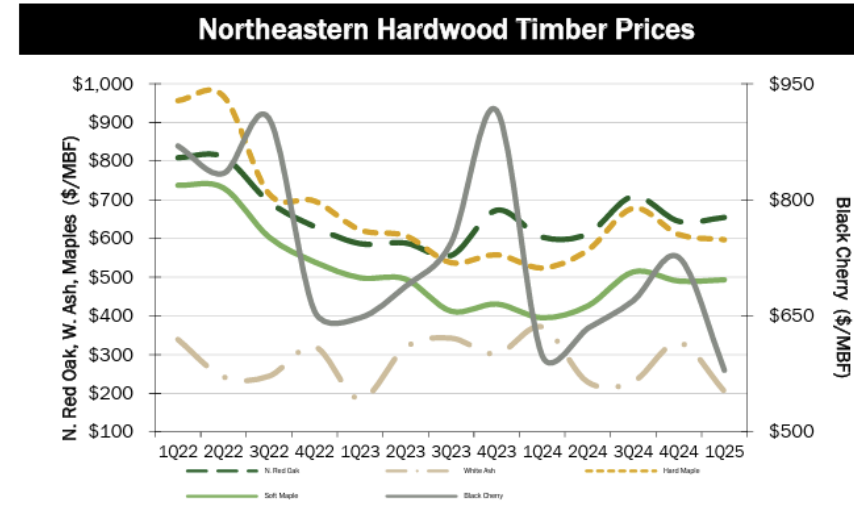


Source: Preqin as of August 13, 2025.

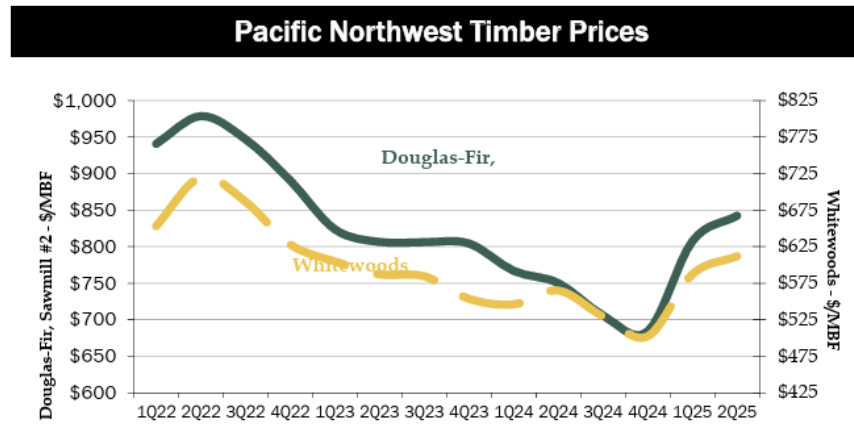
Timber Investments



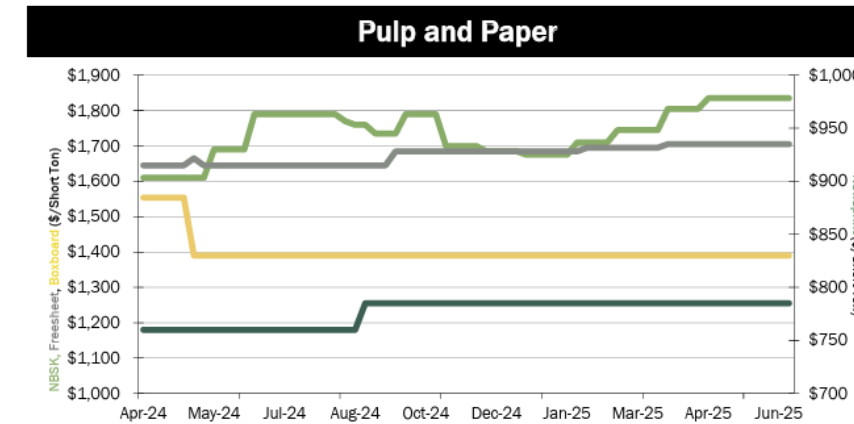
Source: Forest2Market®



Source: Pennsylvania Woodlands Timber Market Report - Northwest Region



Source: Fastmarkets RISI - Log Lines®



Source: Fastmarkets RISI

Data Sources: Forest Investment Associates

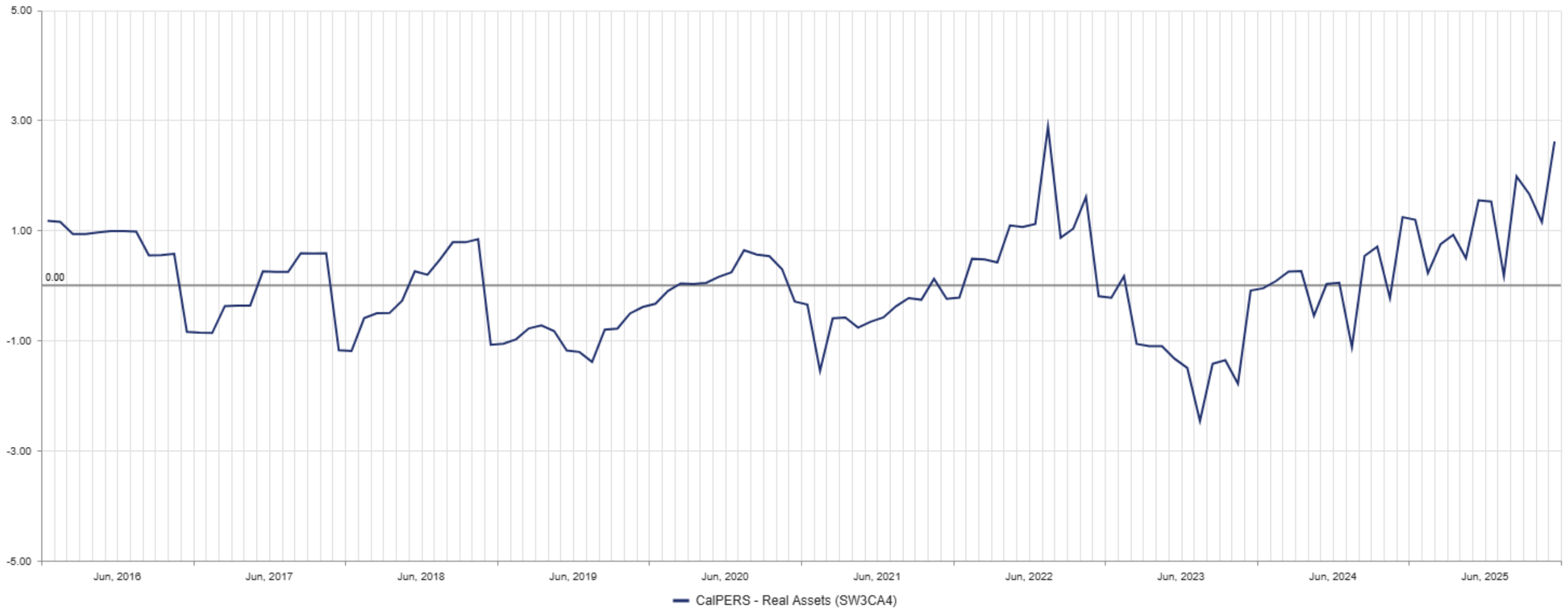
CalPERS PERF Real Assets – Performance

As of June 30, 2025

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
REAL ASSETS	\$ 73.0	0.9%	2.8%	-2.6%	3.3%	4.6%	\$ 9.6	0.1	0.2	
<i>Real Assets Policy Benchmark</i>		0.9%	1.2%	-5.0%	2.0%	4.5%		-0.1	0.0	
Real Estate	\$ 51.6	1.1%	1.1%	-5.0%	2.0%	4.0%	\$ 6.8	-0.1	0.0	
<i>CalPERS Custom Real Estate Benchmark</i>		0.9%	1.2%	-5.0%	2.0%	4.7%		-0.1	0.0	
Infrastructure	\$ 21.1	0.6%	7.5%	6.1%	8.0%	9.0%	\$ 2.8	1.1	0.7	
<i>CalPERS Custom Infrastructure Benchmark</i>		0.9%	1.2%	-5.0%	2.0%	3.8%		-0.1	0.0	
Forestland	\$ 0.3	-0.9%	10.7%	8.6%	6.0%	1.1%	\$ 0.0	0.4	0.4	
<i>CalPERS Custom Forestland Benchmark</i>		0.9%	1.2%	-5.0%	2.0%	3.1%		-0.1	0.0	

CalPERS PERF Real Assets – Rolling Excess Return

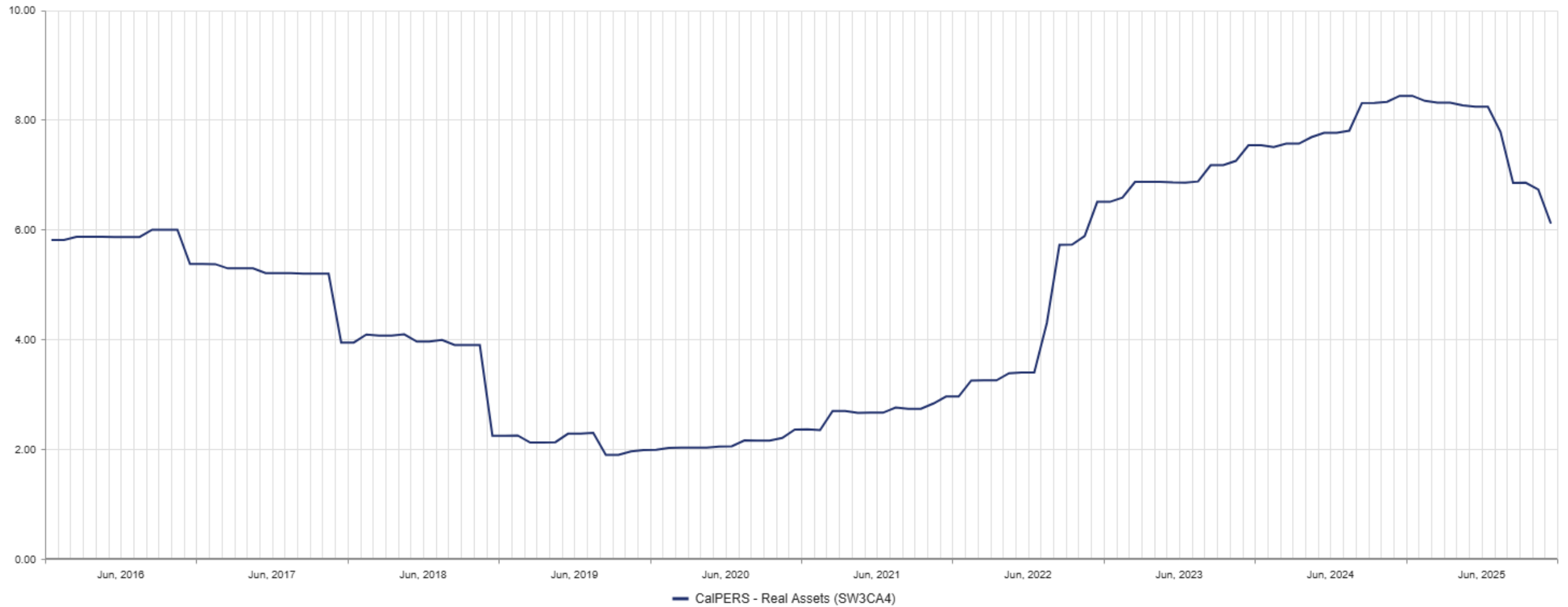
CalPERS - Real Assets (SW3CA4)
 36-Month Rolling Geometric Excess Return: June 30, 2015 - June 30, 2025
 Benchmark: Real Assets Policy Benchmark



* Monthly data; Net of Investment Management Fees

CalPERS PERF Real Assets – Rolling Tracking Error

CalPERS - Real Assets (SW3CA4)
 36-Month Rolling Geometric Excess Standard Deviation of Return: June 30, 2015 - June 30, 2025
 Benchmark: Real Assets Policy Benchmark



* Monthly data; Net of Investment Management Fees

CalPERS PERF Private Debt, Other Trust Level – Performance

As of June 30, 2025

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info
PRIVATE DEBT	\$ 21.3	4.6%	12.8%	12.0%	--%	--%	\$ 2.7	N/A	N/A
<i>Private Debt Policy Benchmark</i>		0.8%	8.4%	8.5%	--%	--%		N/A	N/A

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info
OTHER TRUST LEVEL	\$ 12.8								
LLER	\$ 11.9	1.7%	6.5%	7.3%	4.9%	3.7%	\$ 0.0	1.3	1.4
<i>Custom LLER Benchmark</i>		1.1%	4.8%	4.8%	3.0%	2.1%		0.3	0.0
Opportunistic Strategies	\$ 0.5	-2.3%	3.4%	4.2%	6.8%	--%	\$ 0.0	0.7	0.3
<i>Custom Opportunistic Strategies Benchmark</i>		1.7%	7.0%	7.0%	7.0%	--%		2.2	0.0
Trust Level Portfolio Management	\$ 0.2	NM	NM	NM	NM	NM		N/A	N/A
Other Perf	\$ 0.2	NM	NM	NM	NM	NM		N/A	N/A

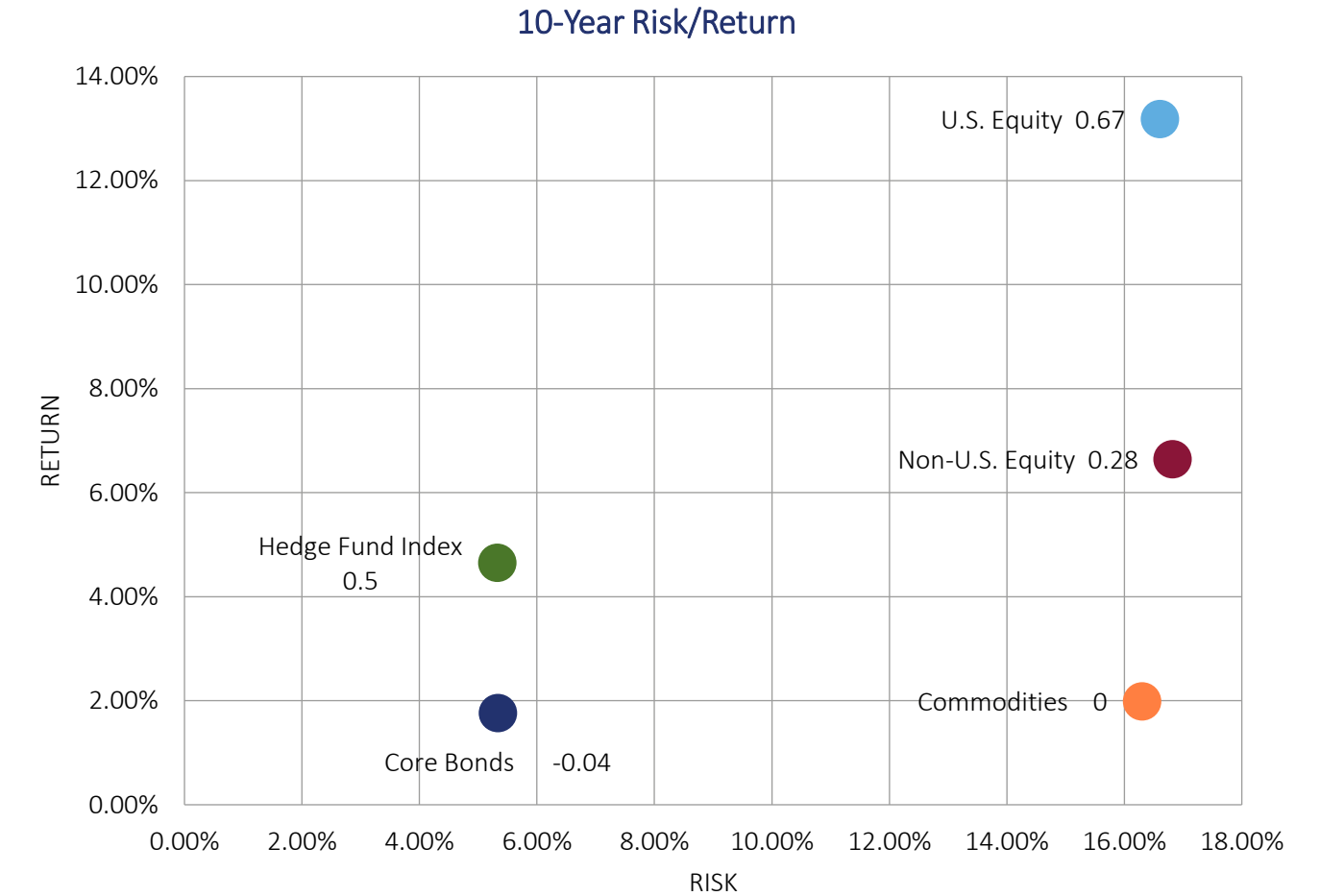
CalPERS PERF Total Fund Financing – Performance

As of June 30, 2025

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
TOTAL FUND FINANCING	\$ (34.1)	--%	--%	--%	--%	--%		N/A	N/A	
Strategic	\$ (21.3)	--%	--%	--%	--%	--%		N/A	N/A	
Active	\$ (12.8)	--%	--%	--%	--%	--%		N/A	N/A	

Hedge Fund Performance

As of 6/30/2025	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
Credit Suisse Hedge Fund Index	2.2	4.3	7.2	7.1	7.8	4.7
Event Driven	3.0	3.7	10.8	9.0	9.3	4.2
Global Macro	-0.4	3.1	4.7	0.5	7.7	4.7
Long/Short Equity	6.2	6.9	11.1	11.8	9.0	5.8
Multi-Strategy	0.6	4.1	5.9	7.9	7.5	5.2
FT Wilshire 5000	11.1	5.7	15.2	19.1	16.2	13.2
MSCI ACWI ex-US (\$G)	12.3	18.3	18.4	14.6	10.7	6.6
Bloomberg Aggregate	1.2	4.0	6.1	2.5	-0.7	1.8
Bloomberg Commodity Index	-3.1	5.5	5.8	0.1	12.7	2.0



Note: Sharpe Ratio is included for each market segment

Data Sources: Bloomberg

Asset Class Performance

Asset Class Returns - Best to Worst

2020	2021	2022	2023	2024	2025 YTD	Annualized 5-Year as of 6/25
U.S. Equity 20.8%	REITs 46.2%	Commodities 16.1%	U.S. Equity 26.1%	U.S. Equity 23.8%	Developed 19.9%	U.S. Equity 16.2%
Emrg Mrkts 18.7%	Commodities 27.1%	T-Bills 1.3%	Developed 18.9%	REITs 9.1%	Emrg Mrkts 15.6%	Commodities 12.7%
U.S. TIPS 11.0%	U.S. Equity 26.7%	High Yield -11.2%	REITs 16.1%	High Yield 8.2%	U.S. Equity 5.7%	Developed 11.7%
Developed 8.3%	Developed 11.8%	U.S. TIPS -11.8%	High Yield 13.4%	Emrg Mrkts 8.1%	Commodities 5.5%	REITs 8.7%
Core Bond 7.5%	U.S. TIPS 6.0%	Core Bond -13.0%	Emrg Mrkts 10.3%	Commodities 5.4%	U.S. TIPS 4.7%	Emrg Mrkts 7.3%
High Yield 7.1%	High Yield 5.3%	Developed -14.0%	Core Bond 5.5%	T-Bills 5.3%	High Yield 4.6%	High Yield 6.0%
T-Bills 0.7%	T-Bills 0.0%	U.S. Equity -19.0%	T-Bills 5.1%	Developed 4.3%	Core Bond 4.0%	T-Bills 2.8%
Commodities -3.1%	Core Bond -1.5%	Emrg Mrkts -19.7%	U.S. TIPS 3.9%	U.S. TIPS 1.8%	T-Bills 2.1%	U.S. TIPS 1.6%
REITs -7.9%	Emrg Mrkts -2.2%	REITs -26.8%	Commodities -1.3%	Core Bond 1.3%	REITs -0.2%	Core Bond -0.7%

Data Sources: Bloomberg

Note: Developed asset class is developed equity markets ex-U.S., ex-Canada