



Executive Summary of Performance for

California Public Employees' Retirement System

Judges II

Legislators' Fund

Long-Term Care

California Employers' Retiree Benefit Trusts

California Employers' Pension Prefunding Trust

Health Care Fund

Supplemental Income Plans

Fourth Quarter 2023

FOURTH QUARTER 2023

Quarterly Market Commentary

Market Dashboard

Multi-Asset	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Global 60/40 (ACWI/U.S. Core Bonds)	4.41	9.36	15.36	15.36
Wilshire Risk Parity Index SM – 12% Volatility	4.67	10.24	12.58	12.58

Source: Bloomberg. Indexes are total return.

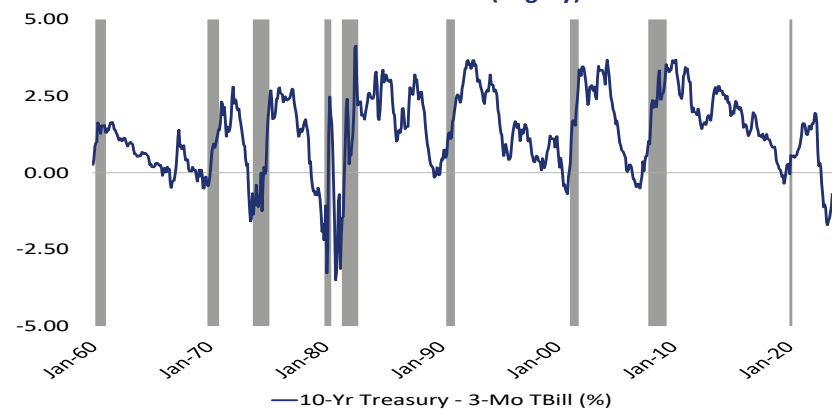
Strategic Allocation Themes	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Growth ⁱ	4.80	11.03	22.20	22.20
Defensive Growth ⁱⁱ	4.40	6.62	9.94	9.94
Diversified Credit ⁱⁱⁱ	3.84	7.36	12.42	12.42
Real Assets ^{iv}	3.95	7.29	2.43	2.43
Defensive ^v	3.83	6.82	5.53	5.53

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Quarterly Insight

Accurately forecasting recessions is notoriously difficult – as is predicting the future in any sense. One metric that is widely considered in the investing arena, however, is the spread between long- and short-term Treasury bond yields. When this spread turns negative – known as an inverted yield curve – a recession typically follows. During the past 60+ years, there is really only one instance (in 1966) that such conditions did not precede a recession. Currently, the curve is inverted to a degree not seen since the early 1980’s recession that was driven by high inflation and high unemployment. The Federal Reserve Bank of New York has a model that converts the term spread to a probability of recession during the next twelve months, which stands at 68%.

U.S. Yield Curve Inversion versus Recession (in gray)



Source: Bloomberg. For illustrative purposes only.

Economic highlights

GDP: Real GDP growth spiked recently, equaling 4.9% during the third quarter. Consumer spending has been seesawing for the past year and jumped again last quarter, contributing more than 2% to growth. Private spending continues to strengthen while government spending was also up. The Atlanta Federal Reserve’s GDPNow forecast for the fourth quarter of 2023 currently stands at 2.3%.

Source: Bureau of Economic Analysis.

Interest Rates: The Treasury curve fell across all maturities during the fourth quarter. The 10-year Treasury closed at 3.88%, down -69 basis points. The 10-year real yield (i.e., net of inflation) fell -52 basis points to 1.71%. The Federal Open Market Committee (FOMC) left their overnight rate unchanged, targeting a range of 5.25% to 5.50%. The committee’s current median outlook is for a rate of approximately 4.6% by the end of 2024.

Source: U.S. Treasury.

Inflation: Consumer price changes have ticked lower recently as the Consumer Price Index rose 0.5% for the three months ending November. For the one-year period, the CPI was up 3.1%. The 10-year breakeven inflation rate was down at 2.17% in December versus 2.34% in September.

Source: Dept. of Labor (BLS), U.S. Treasury.

Employment: Jobs growth has improved, with an average of 204,000 jobs/month added during the three months ending in November. The unemployment rate ticked lower at 3.7%, down from 3.8% in August. Wage growth picked up in November, equaling 0.4%.

Source: Dept. of Labor (BLS).

Housing: New data suggests that the housing market continues to rebound from a precipitous decline that started June 2022. The S&P Case-Shiller 20-City Home Price Index was up 2.1% during the three-months through October and 4.9% during the trailing 12-months.

Source: Standard & Poor’s.

U.S. Economy and Markets

The U.S. stock market, represented by the FT Wilshire 5000 IndexSM, was up 12.10% for the fourth quarter and is up 26.10% for all of 2023. Nearly every sector was also positive for the quarter. The best performing were real estate (+18.0%) and information technology (+17.0%). The worst performing and only negative sector was energy (-6.8%). From a size perspective, small-cap outperformed large-cap by 165 basis points but trailed for the 1-year period. Growth stocks generally outperformed value during the fourth quarter and, specifically, large-cap growth stocks held a massive advantage over large-cap value stocks for the year 2023.

U.S. Equity	MTD (%)	QTD (%)	YTD (%)	1Y (%)
FT Wilshire 5000 Index SM	5.33	12.10	26.10	26.10
Standard & Poor's 500	4.54	11.69	26.29	26.29
FT Wilshire 4500 Index SM	10.58	13.55	18.23	18.23
MSCI USA Minimum Volatility	2.71	7.79	9.79	9.79

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

U.S. Equity by Size/Style	MTD (%)	QTD (%)	YTD (%)	1Y (%)
FT Wilshire Large Cap Index SM	4.59	11.89	27.34	27.34
FT Wilshire Large Cap Growth Index SM	4.58	14.69	46.06	46.06
FT Wilshire Large Cap Value Index SM	4.60	9.11	11.06	11.06
FT Wilshire Small Cap Index SM	10.24	13.54	19.50	19.50
FT Wilshire Small Cap Growth Index SM	10.45	12.91	21.80	21.80
FT Wilshire Small Cap Value Index SM	10.03	14.15	17.23	17.23
FT Wilshire Micro Cap Index SM	13.49	13.73	8.76	8.76

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

GICS sector returns	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Communication Services	4.97	11.33	53.12	53.12
Consumer Discretionary	6.89	13.22	40.21	40.21
Consumer Staples	2.98	5.71	1.38	1.38
Energy	(0.08)	(6.78)	(0.10)	(0.10)
Financials	6.71	15.34	14.26	14.26
Health Care	5.49	7.15	2.76	2.76
Industrials	7.77	13.62	22.07	22.07
Information Technology	4.29	17.02	56.52	56.52
Materials	5.99	10.73	13.23	13.23
Real Estate	9.41	18.00	12.02	12.02
Utilities	2.36	8.62	(7.05)	(7.05)

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Large-cap growth stocks produced a massive gain in 2023, up +46.1%

International Economy and Markets

Performance results within international equity markets were positive for the fourth quarter, with developed outperforming emerging markets. The MSCI EAFE Index was up 10.42% for the quarter, while the MSCI Emerging Markets Index was up 7.86%. The eurozone likely fell into a mild recession in 2023 and recent data suggests that conditions are not improving. Business activity declined in December, according to a closely watched survey, as new orders fell and job cuts were reported. Germany, the eurozone’s largest economy, continues to suffer due to high energy prices and interest rate hikes. The Bank of France believes that their economy will avoid recession due to a growing services sector. Finally, similar conditions exist in England as their economy likely shrank modestly in the third quarter after zero growth during the quarter before. The outlook in China is complicated with recent data showing contraction in the factory and services sectors. A survey of factory managers indicates contraction in December for the third straight month. Recently, the government has raised infrastructure spending, cut interest rates and eased limits on home-buying.

Several European countries are struggling to produce positive economic growth

Non-U.S. Equity	MTD (%)	QTD (%)	YTD (%)	1Y (%)
MSCI ACWI	4.80	11.03	22.20	22.20
MSCI ACWI ex USA	5.02	9.75	15.62	15.62
MSCI ACWI ex USA Minimum Volatility	4.14	6.46	10.92	10.92
MSCI EAFE	5.31	10.42	18.24	18.24
MSCI Emerging Markets	3.91	7.86	9.83	9.83
MSCI ACWI ex USA Small Cap	6.35	10.12	15.66	15.66

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Non-U.S. Equity (local currency)	MTD (%)	QTD (%)	YTD (%)	1Y (%)
MSCI ACWI	4.05	9.38	21.61	21.61
MSCI ACWI ex USA	3.00	5.39	14.07	14.07
MSCI ACWI ex USA Minimum Volatility	2.24	2.93	10.95	10.95
MSCI EAFE	2.85	4.96	16.16	16.16
MSCI Emerging Markets	3.14	5.58	9.85	9.85
MSCI ACWI ex USA Small Cap	3.93	5.60	15.45	15.45

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Fixed Income Markets

The U.S. Treasury yield curve was down across the maturity spectrum during the quarter, and to a greater degree in the long end of the curve. The 10-year Treasury yield ended the quarter at 3.88%, down -69 basis points from September. Credit spreads were down, as well, during the quarter with high yield bond spreads down -71 basis points, the lowest level in more than a year. The FOMC met twice during the quarter, as scheduled, and left the overnight rate unchanged, targeting a range of 5.25% to 5.50%. The Fed’s “dot plot” is messaging that the current expectation is for a decrease in rates in 2024, by -0.75% after the December meeting. During a recent speech, Fed Chair Jerome Powell reiterated the central bank’s intent to be cautious, “Having come so far and so quickly, the FOMC is moving carefully forward, as the risks of under- and over-tightening are becoming more balanced.”

FOMC left their overnight rate unchanged; reiterated cautious approach

U.S. Fixed Income	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Bloomberg U.S. Aggregate	3.83	6.82	5.53	5.53
Bloomberg Long Term Treasury	8.61	12.70	3.06	3.06
Bloomberg Long Term Corporate	7.36	14.01	10.93	10.93
Bloomberg U.S. TIPS	2.69	4.71	3.90	3.90
Bloomberg U.S. Credit	4.19	8.15	8.18	8.18
Bloomberg U.S. Corporate High Yield	3.73	7.16	13.45	13.45
S&P/LSTA Leveraged Loan	1.60	2.84	13.29	13.29

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Market Rates	Dec 31	Sept 30	June 30	Mar 31
10-Year Treasury	3.88	4.57	3.84	3.47
10-Year Breakeven Inflation	2.17	2.34	2.23	2.32

Source: Bloomberg. Indexes are total return.

Global Fixed Income	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Bloomberg Global Aggregate	4.16	8.10	5.72	5.72
Bloomberg Global Aggregate (Hdg)	3.20	5.99	7.15	7.15
Bloomberg EM LC Gov’t Universal	2.54	5.97	6.44	6.44
Bloomberg EM LC Gov’t Universal (Hdg)	1.82	3.41	7.80	7.80

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Real Asset Markets

Real estate securities were up during the fourth quarter in both the United States and abroad. Commodity results were negative for the quarter, with crude oil falling by -21.1% to \$71.65 per barrel. This is the lowest price since the summer of 2023 and overall commodity returns are down for the past twelve months. Natural gas prices moved lower during the fourth quarter after six months of significant increases. Prices were down -14.2% and are down a massive -43.8% for the past twelve months. Prices closed December at \$2.51 per million BTUs. Gold prices were up during the quarter after six months of declines, 12.1% for the three months, finishing at approximately

Gold prices are currently above the \$2,000 per troy ounce level

\$2,072 per troy ounce. Gold above the \$2,000 mark has not happened often in its history.

Real Assets	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Wilshire US Real Estate Securities Index SM	10.22	16.27	16.26	16.26
Wilshire Global Real Estate Securities Index SM	9.99	16.26	14.89	14.89
FTSE Global Core Infrastructure 50/50	4.52	11.11	3.10	3.10
Alerian Midstream Energy	(0.51)	6.45	14.02	14.02
Bloomberg Commodity	(2.69)	(4.63)	(7.91)	(7.91)
Gold	1.30	11.60	13.10	13.10
Bitcoin	11.08	55.88	152.94	152.94

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

Alternatives

The Wilshire Liquid Alternative Index returned 1.89% in the fourth quarter and 4.42% for the year. Equity hedge managers had a strong quarter, returning 2.79%, though the performance was largely driven by market movements rather than specific stock selections. Event-driven strategies showed muted but resilient performance. The closure of significant mergers and acquisitions, such as the VMware/Broadcom transaction and deals involving Horizon Pharma/Amgen and Activision/Microsoft, contributed positively to performance. However, broader market volatility, driven by factors such as fluctuating bond yields, geopolitical tensions, and a challenging regulatory landscape, created a difficult environment for consistent alpha generation. Despite some positive returns in discretionary macro strategies, particularly in emerging market rates and tactical trades in U.S. rates, the macro peer group faced difficulty due to market reversals in fixed income and currencies, with struggles in short positions in U.S. Treasuries and long USD positions. Relative value managers had a strong quarter, benefiting from the risk-on sentiment in the credit and equity markets. Capital structure arbitrage strategies performed particularly well in the supportive market backdrop.

Strong equity hedge returns were largely driven by market movements rather than specific stock selections

Alternatives	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Wilshire Liquid Alternative Index SM	0.40	1.89	4.42	4.42
Wilshire Liquid Alternative Equity Hedge Index SM	(0.25)	2.79	8.62	8.62
Wilshire Liquid Alternative Event Driven Index SM	(1.01)	0.02	2.18	2.18
Wilshire Liquid Alternative Global Macro Index SM	(1.66)	(4.61)	(3.21)	(3.21)
Wilshire Liquid Alternative Multi-Strategy Index SM	(0.41)	0.92	4.54	4.54
Wilshire Liquid Alternative Relative Value Index SM	1.95	3.72	4.13	4.13

Source: Bloomberg. Indexes are total return. For illustrative purposes only.

SUMMARY REVIEW OF PLANS

Period Ended December 31, 2023

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CalPERS PERF	\$ 483,723.2	7.0%	10.3%	3.5%	7.9%	6.5%
CalPERS PERF Policy Benchmark ¹		6.3%	11.4%	3.0%	7.6%	6.4%
Actuarial Rate		1.7%	6.8%	6.8%	7.0%	7.2%
Judges I						
Judges I	\$ 52.9	1.4%	5.4%	2.4%	2.0%	1.4%
91-Day Treasury Bill		1.4%	5.0%	2.2%	1.9%	1.3%
Judges II						
Judges II	\$ 2,489.3	10.7%	14.6%	2.1%	7.8%	5.8%
Weighted Policy Benchmark		10.7%	14.3%	1.9%	7.6%	5.6%
Legislators' Retirement System						
Legislators' Retirement System	\$ 95.7	9.1%	8.7%	-0.8%	4.7%	4.0%
Weighted Policy Benchmark		9.1%	8.6%	-0.8%	4.6%	3.9%
Long-Term Care ("LTC")						
Long-Term Care ("LTC")	\$ 4,265.8	9.7%	9.2%	-0.5%	4.4%	3.6%
Weighted Policy Benchmark		9.7%	9.3%	-0.6%	4.4%	3.5%
CERBT Strategy 1						
CERBT Strategy 1	\$ 16,763.2	10.7%	14.2%	2.2%	8.0%	5.9%
CERBT Strategy 1 Policy Benchmark		10.7%	14.0%	2.0%	7.8%	5.6%
CERBT Strategy 2						
CERBT Strategy 2	\$ 1,942.8	10.3%	11.7%	0.4%	6.3%	4.9%
CERBT Strategy 2 Policy Benchmark		10.3%	11.5%	0.3%	6.1%	4.6%
CERBT Strategy 3						
CERBT Strategy 3	\$ 789.7	9.7%	9.8%	-0.4%	4.9%	4.1%
CERBT Strategy 3 Policy Benchmark		9.8%	9.6%	-0.4%	4.8%	3.9%
CEPPT Strategy 1						
CEPPT Strategy 1	\$ 155.9	9.4%	12.0%	0.8%	-.%	-.%
CEPPT Strategy 1 Policy Benchmark		9.5%	11.9%	0.7%	-.%	-.%
CEPPT Strategy 2						
CEPPT Strategy 2	\$ 49.3	8.2%	9.1%	-1.0%	-.%	-.%
CEPPT Strategy 2 Policy Benchmark		8.3%	9.0%	-1.0%	-.%	-.%
Health Care Fund						
Health Care Fund	\$ 159.0	6.7%	5.6%	-3.4%	1.1%	1.9%
Barclays U.S. Aggregate		6.8%	5.5%	-3.3%	1.1%	1.8%
Supplemental Contribution Plan						
Supplemental Contribution Plan	\$ 111.2	NM	NM	NM	NM	NM
CalPERS Custom SCP Plan Index		NM	NM	NM	NM	NM
457 Program						
457 Program	\$ 2,252.3	NM	NM	NM	NM	NM
CalPERS Custom 457 Plan Index		NM	NM	NM	NM	NM

¹ CalPERS PERF Policy Benchmark is currently computed by weighting the System's major asset class benchmarks at their respective policy targets, rebalanced periodically.

CALPERS PERF

Period Ended December 31, 2023

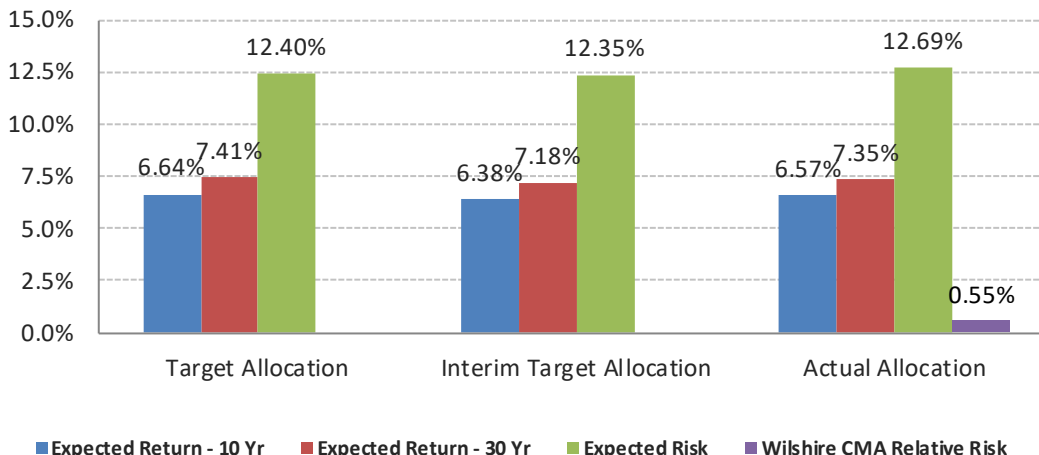
PERF TOTAL FUND PERFORMANCE

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		(\$Billion)	Sharpe
CALPERS PERF	\$ 483.7	7.0%	10.3%	3.5%	7.9%	6.5%	\$ 66.6	0.6	0.2
<i>CalPERS PERF Policy Benchmark</i>		6.3%	11.4%	3.0%	7.6%	6.4%		0.6	0.0
<i>Actuarial Rate</i>		1.7%	6.8%	6.8%	7.0%	7.2%			
PUBLIC EQUITY*	\$ 215.0	10.3%	19.1%	5.7%	11.1%	7.9%	\$ 44.3	0.5	0.5
<i>Public Equity Policy Benchmark</i>		10.4%	19.2%	5.6%	11.0%	7.9%		0.5	0.0
PUBLIC EQUITY - CAP WEIGHTED*	\$ 156.5	11.1%	22.3%	6.1%	12.2%	8.4%	\$ 35.1	0.6	0.4
<i>CalPERS Custom FTSE Global Benchmark</i>		11.2%	22.5%	6.0%	12.1%	8.3%		0.6	0.0
PUBLIC EQUITY - FACTOR WEIGHTED	\$ 58.5	8.4%	10.7%	4.1%	7.7%	--%	\$ 9.7	0.4	0.3
<i>CalPERS Custom FTSE Factor Wtd Bnchmrk</i>		8.3%	10.5%	4.1%	7.6%	--%		0.4	0.0
PRIVATE EQUITY	\$ 67.9	2.4%	8.8%	14.0%	11.4%	11.4%	\$ 27.3	1.1	0.2
<i>Private Equity Policy Benchmark</i>		-2.9%	22.8%	9.1%	8.3%	10.7%		0.3	0.0
INCOME*	\$ 130.7	9.6%	8.3%	-4.6%	1.8%	2.8%	\$ 7.7	0.0	0.8
<i>Income Policy Benchmark</i>		9.6%	8.2%	-4.6%	1.7%	2.4%		0.0	0.0
TREASURY*	\$ 25.1	10.6%	3.3%	-9.4%	-0.9%	1.6%	\$ 3.5	-0.2	-0.2
<i>Custom Bloomberg Government</i>		10.6%	3.3%	-9.4%	-0.9%	1.6%		-0.2	0.0
MORTGAGE-BACKED SECURITIES	\$ 25.0	7.3%	5.3%	-2.7%	0.5%	2.0%	\$ 0.2	-0.2	0.6
<i>Custom Bloomberg Mortgage</i>		7.3%	5.1%	-2.8%	0.4%	1.4%		-0.3	0.0
INVESTMENT GRADE CREDIT	\$ 33.7	12.4%	9.9%	-5.6%	3.0%	4.0%	\$ 3.5	0.1	0.5
<i>Custom Bloomberg Corp ex Sov</i>		12.5%	10.3%	-5.5%	2.8%	3.6%		0.1	0.0
HIGH YIELD	\$ 22.0	7.1%	12.8%	1.9%	5.1%	--%	\$ 2.3	0.3	0.4
<i>Custom Bloomberg High Yield</i>		7.1%	12.6%	1.9%	5.0%	--%		0.3	0.0
EM SOVEREIGN	\$ 25.0	9.4%	9.7%	--%	--%	--%	\$ 1.4	N/A	N/A
<i>Custom JPM EMBIG Diversified</i>		9.3%	9.3%	--%	--%	--%		N/A	N/A
REAL ASSETS	\$ 67.8	-2.6%	-9.6%	6.2%	4.9%	6.9%	\$ 9.8	0.7	0.0
<i>Real Assets Policy Benchmark</i>		-2.2%	-12.8%	6.2%	4.7%	6.9%		0.4	0.0
PRIVATE DEBT	\$ 12.2	4.3%	13.3%	--%	--%	--%	\$ 1.0	N/A	N/A
<i>Private Debt Blended Benchmark</i>		3.4%	15.1%	--%	--%	--%		N/A	N/A
OTHER TRUST LEVEL	\$ 16.1							N/A	N/A
LLER	\$ 11.9	2.2%	9.1%	3.7%	3.5%	--%	\$ 0.1	0.5	0.6
<i>LIBOR 1 Month w GBLSE Holiday</i>		1.4%	5.3%	2.4%	2.0%	--%		-0.6	0.0
OPPORTUNISTIC STRATEGIES	\$ 0.2	1.0%	8.8%	6.8%	--%	--%	\$ 0.0	N/A	N/A
<i>CalPERS Opportunistic Strategies BM</i>		1.7%	7.0%	7.0%	--%	--%		N/A	N/A
TOTAL FUND INCOME	\$ 2.6	2.0%	4.2%	-9.3%	--%	--%	\$ 0.4	N/A	N/A
<i>Custom Total Fund Income BM</i>		1.5%	3.9%	-9.3%	--%	--%		N/A	N/A
OTHER	\$ 1.4	NM	NM	NM	NM	NM		N/A	N/A
TOTAL FUND FINANCING	\$ (26.0)							N/A	N/A
TERMINATED AGENCY POOL	\$ 0.2	7.1%	3.6%	-5.6%	1.7%	2.8%		N/A	N/A
CalPERS PERF PLUS TAP	\$ 483.9	7.0%	10.3%	3.5%	7.9%	6.5%		N/A	N/A

CALPERS PERF

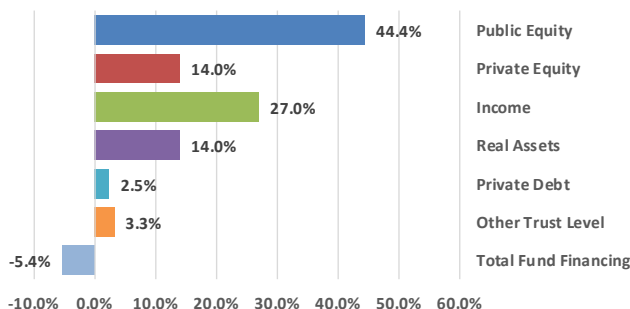
Period Ended December 31, 2023

EXPECTED RETURN AND RISK²

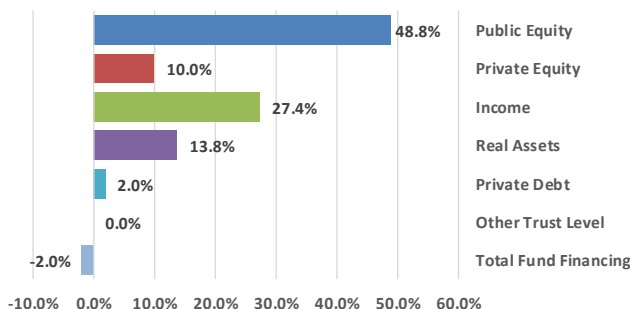


TOTAL FUND ASSET ALLOCATION BASED TRACKING ERROR

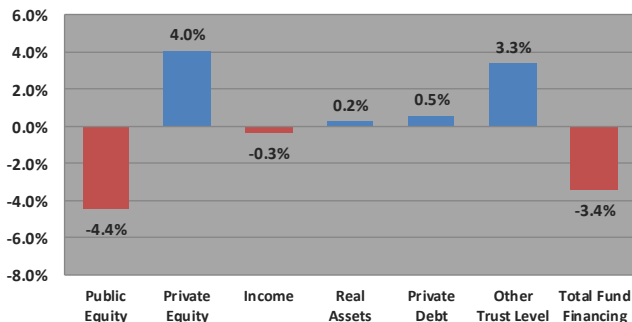
Actual Asset Allocation



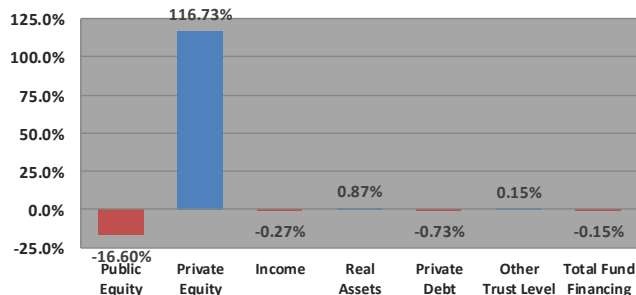
Interim Target Asset Allocation



Allocation vs. Interim Targets



Contribution to Tracking Error vs. Interim Targets



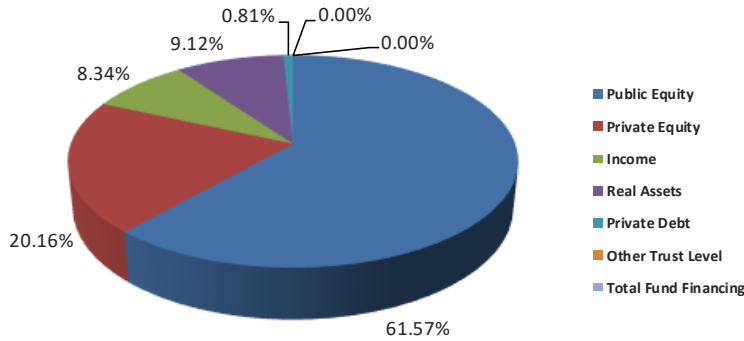
² Return and risk values expressed in this page are derived based on Wilshire Consulting Capital Market Assumptions, which are forward looking in nature.

CALPERS PERF

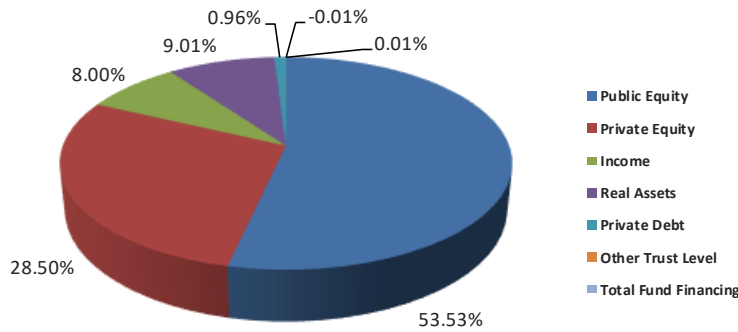
Period Ended December 31, 2023

CONTRIBUTION TO TOTAL RISK³

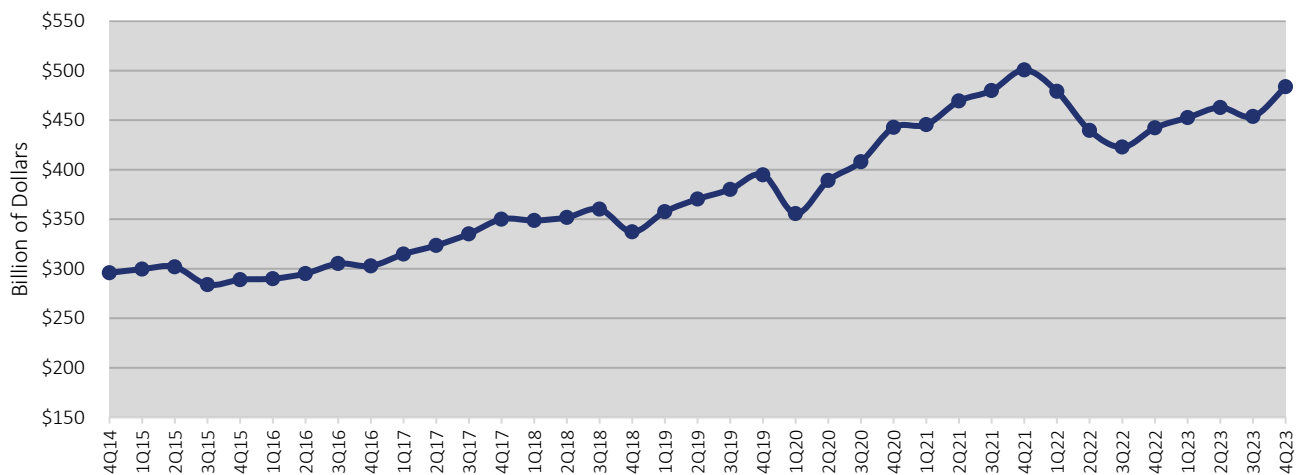
Contribution to Total Risk - Interim Target



Contribution to Total Risk - Actual Allocation



CHANGES IN ASSET VALUE



³ Return and risk values expressed in this page are derived based on Wilshire Consulting Capital Market Assumptions, which are forward looking in nature.

CALPERS PERF

Period Ended December 31, 2023

CALPERS PERF ATTRIBUTION – QUARTER

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
Public Equity	43.54	10.32	43.38	10.41	0.15	-0.09	0.01	-0.04	-0.03
Public Equity - Cap Weighted	31.50	11.06	31.32	11.23	0.18	-0.17	0.01	-0.05	-0.05
Public Equity - Factor Weighted	12.04	8.42	12.06	8.33	-0.03	0.09	0.00	0.01	0.01
Private Equity	14.25	2.40	14.25	-3.25	0.00	5.65	0.00	0.79	0.79
Income	26.53	9.61	26.72	9.60	-0.19	0.01	0.00	0.00	0.00
Treasury	5.08	10.60	5.12	10.60	-0.03	0.00	0.00	0.00	0.00
Mortgage-Backed Securities	5.12	7.34	5.15	7.28	-0.02	0.06	0.00	0.00	0.00
Investment Grade Credit	6.62	12.40	6.72	12.49	-0.10	-0.10	0.00	-0.01	-0.01
High Yield	4.56	7.12	4.57	7.13	-0.01	-0.01	0.00	0.00	0.00
EM Sovereign	5.15	9.44	5.17	9.33	-0.02	0.11	0.00	0.01	0.00
Real Assets	15.18	-2.55	15.17	-2.16	0.00	-0.39	0.00	-0.07	-0.07
Private Debt	2.47	4.29	2.47	3.40	0.00	0.89	0.00	0.02	0.02
Other Trust Level	3.49	-	0.00	-	3.49	-	-0.18	0.02	-0.15
LLER	2.66	2.19	0.00	1.37	2.66	0.82	-0.12	0.02	-0.10
Opportunistic Strategies	0.05	1.01	0.00	1.70	0.05	-0.69	0.00	0.00	0.00
Total Fund Income	0.48	1.97	0.00	1.50	0.48	0.48	-0.03	0.00	-0.03
Other PERF	0.04	-	0.00	-	0.04	-	0.00	0.00	0.00
TLPM	0.27	-	0.00	-	0.27	-	-0.02	0.00	-0.02
Total Fund Financing	-5.46	-	-2.00	-	-3.46	-	0.18	0.00	0.18
Monthly Linked Return	100.00	7.06	100.00	6.33	0.73	0.00	0.72	0.73	0.00
Residual		-0.02		-0.02		0.00			0.00
Total PERF		7.04		6.31		0.73			0.73

* Average period weight displayed.

CALPERS PERF

Period Ended December 31, 2023

CALPERS PERF ATTRIBUTION – FISCAL YEAR-TO-DATE

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
Public Equity	44.36	6.87	44.19	6.81	0.17	0.06	0.01	0.02	0.03
Public Equity - Cap Weighted	32.34	7.65	32.15	7.62	0.19	0.03	0.01	0.01	0.02
Public Equity - Factor Weighted	12.02	4.86	12.04	4.74	-0.01	0.12	0.00	0.01	0.01
Private Equity	13.67	4.68	13.65	2.78	0.02	1.90	0.00	0.13	0.13
Income	26.44	4.56	26.69	4.57	-0.25	-0.01	0.00	0.00	0.00
Treasury	4.81	0.27	5.09	0.27	-0.28	0.00	0.05	0.00	0.05
Mortgage-Backed Securities	5.10	3.20	5.14	3.20	-0.04	0.00	0.00	0.00	0.00
Investment Grade Credit	6.61	5.61	6.70	5.75	-0.09	-0.14	0.00	-0.01	-0.01
High Yield	4.56	7.20	4.58	7.21	-0.03	-0.01	0.00	0.00	0.00
EM Sovereign	5.14	6.36	5.17	6.17	-0.04	0.19	0.00	0.01	0.01
Real Assets	15.11	-4.18	15.12	-4.86	-0.01	0.68	0.00	0.10	0.10
Private Debt	2.35	8.35	2.35	7.17	0.00	-	0.00	0.02	0.02
Other Trust Level	3.37	-	0.00	-	3.37	-	-0.06	0.06	0.00
LLER	2.77	4.67	0.00	2.74	2.77	1.93	-0.02	0.05	0.03
Opportunistic Strategies	0.05	4.02	0.00	3.43	0.05	0.59	0.00	0.00	0.00
Total Fund Income	0.25	2.74	0.00	2.51	0.25	0.24	-0.03	0.00	-0.03
Other PERF	0.04	-	0.00	-	0.04	-	0.00	0.00	0.00
TLPM	0.26	-	0.00	-	0.26	-	-0.01	0.00	-0.01
Total Fund Financing	-5.31	-	-2.00	-	-3.31	-	0.06	-0.11	-0.05
Monthly Linked Return	100.00	4.28	100.00	4.04	0.24	0.01	0.23	0.24	0.24
Residual		0.08		-0.02		0.10			0.10
Total PERF		4.36		4.02		0.34			0.34

* Average period weight displayed.

CALPERS PERF

Period Ended December 31, 2023

CALPERS PERF ATTRIBUTION – CALENDAR YEAR-TO-DATE

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
Public Equity	45.27	19.15	45.23	19.24	0.04	-0.10	-0.01	-0.05	-0.06
Public Equity - Cap Weighted	33.25	22.30	33.21	22.51	0.04	-0.21	-0.01	-0.07	-0.07
Public Equity - Factor Weighted	12.02	10.66	12.02	10.51	0.00	0.15	0.00	0.02	0.02
Private Equity	12.82	8.84	12.74	20.98	0.08	-12.14	0.04	-1.65	-1.61
Income	26.06	8.28	26.23	8.24	-0.17	0.05	0.01	0.01	0.03
Treasury	4.15	3.29	5.01	3.29	-0.85	0.00	0.12	0.00	0.12
Mortgage-Backed Securities	5.15	5.29	5.20	5.08	-0.04	0.21	0.00	0.01	0.01
Investment Grade Credit	6.47	9.92	6.52	10.35	-0.05	-0.42	0.00	-0.03	-0.02
High Yield	4.57	12.77	4.59	12.60	-0.02	0.17	0.00	0.01	0.01
EM Sovereign	4.88	9.65	4.90	9.27	-0.03	0.38	0.00	0.02	0.02
Real Assets	15.55	-9.61	15.58	-12.80	-0.03	3.19	0.01	0.55	0.56
Private Debt	2.21	13.35	2.19	15.14	0.02	-1.80	0.00	-0.04	-0.04
Other Trust Level	3.53	-	0.00	-	3.53	-	-0.26	0.12	-0.14
LLER	2.96	9.07	0.00	5.26	2.96	3.81	-0.17	0.12	-0.06
Opportunistic Strategies	0.05	8.80	0.00	6.98	0.05	1.82	0.00	0.00	0.00
Total Fund Income	0.12	2.74	0.00	2.51	0.12	0.24	-0.03	0.00	-0.03
Other PERF	0.03	-	0.00	-	0.03	-	0.00	0.00	0.00
TLPM	0.36	-	0.00	-	0.36	-	-0.05	0.00	-0.05
Total Fund Financing	-5.43	-	-1.97	-	-3.47	-	0.24	-0.24	-0.01
Monthly Linked Return	100.00	10.13	100.00	11.40	-	-1.27	0.03	-1.30	-1.27
Residual		0.16		0.03		0.13			0.13
Total PERF		10.30		11.43		-1.13			-1.13

* Average period weight displayed.

CALPERS PERF

Period Ended December 31, 2023

CALPERS PERF ATTRIBUTION – WILSHIRE COMMENT

The California Public Employees’ Retirement System (“CalPERS PERF, the System”) generated a total fund return of 7.04% for the quarter ended December 31, 2023. CalPERS’ return can be attributed as follows:

6.31%	Strategic Policy Allocation
0.00%	Actual/Tactical Asset Allocation
0.72%	Active Management
<u>0.00%</u>	Residual (Trading/Currency Hedging)
7.04%	Total Return

The total fund attribution table in the previous pages display the return contribution of each asset class to the total fund. These tables allows the Board to see whether tactical allocation and active management within asset classes helped or hurt performance during the measured period.

- Strategic Policy: The contribution to total return from each asset class, calculated as the percentage allocated to each asset class multiplied by the benchmark return for that asset class
- Actual Allocation: The return contribution during the measured period due to differences in the actual allocation from the policy allocation (i.e. the actual allocation to total equity was higher than the policy allocation). A positive number would indicate an overweight benefited performance and vice versa
- Active Management: The return contribution from active management. The number would be positive if the asset class outperformed the designated policy index and vice versa (i.e. the Income segment outperformed its custom benchmark during a quarter and contributed positively to active management)
- Actual Return: The actual return of the asset classes if allocations to them were static during the quarter. These returns will not match exactly with the actual segment returns since asset class allocations change during the quarter due to market movement, cash flows, etc.

Wilshire attribution showed that CalPERS PERF finished in front of its policy benchmark by +73 bps in the 4th Quarter primarily helped by favorable relative results from the Private Equity asset class, where this program’s modest 2.4% return outperformed by a +565 bps margin. This strong relative showing more than offset the mild below-benchmark finishes from the Public Equity and Real Assets asset classes, it also made Private Equity a contributor that boosted CalPERS PERF’s full 2023 performance.

CALPERS PERF

Period Ended December 31, 2023

CALPERS PERF PROGRAMS NOTES

Public Equity: Global equities concluded the last quarter of 2023 in rallying mode following a surge of sentiment in November and December, with most major markets (China being the main exception) shrug off geopolitical uncertainty and advanced amid the easing inflation and rate cuts (or expected rate cuts) euphoria. Among major CalPERS asset classes Public Equity finished at the top of the leaderboard in Q4 as it rode this benign macro backdrop to a 10.3% return. This rally also catapulted the program to a 19.1% full-year gain, allowing it to bounce back from the severe losses of 2022 (-15.8%). Both performance figures showed respectably well in relative terms, too, closely matching Public Equity's own policy benchmark's respective returns of 10.4% and 19.2%.

Private Equity: The uncertainties that arose from the end of the easy money era continue to plague most private equity segments throughout 2023. Under the current persistently high interest rate environment that is signified by financing challenges, lower valuation, subdued deal activity, and lack of exit options, the CalPERS Private Equity program's results (the underlying partnerships are reported on a lagged basis) have been constrained and came in at 2.4% for Q4. This is its third straight quarterly return in the 2% range and sharply contrasted with the double-digit rate gains from the Public Equity program, but the output did outperform Private Equity's own policy benchmark which was -2.9% for the same period. For the full year, the PE program settled with a respectable 8.8% return that trailed the policy's 22.8% rate.

Income: The U.S. bond market carried a huge wave of positive momentum and roared into the fourth quarter closing. With falling inflation readings leading to the Fed signaling a potential pivot in messaging that likely means the end of the current tightening cycle and lower rates to come in 2024, US Treasury yields reacted favorably and pulled back significantly from the cycle highs reached in mid-October: 10 Year UST closed at 3.88%, down -69 bps from the beginning of the quarter. Such development provided major tailwind to the CalPERS Income asset class, resulting in an impressive 9.6% rally on the quarter that was the second highest quarterly return in the program's entire history. This solid gain helped offset losses incurred in the two previous quarters and pulled the Income's full-year 2023 to a 8.3% finish. Relatively speaking these output were also on par with the Income Policy Benchmark and did not detract from an active management perspective.

Real Assets: This CalPERS program is a blend of privately held real estate, infrastructure, and forestland investments. Real Assets struggled during the quarter with its return coming in at -2.6%, as results from all three of its components, particularly real estate, lagged other asset returns due to the interest rate environment and continued questions around real estate demand post-COVID putting continued pressure on real properties. Q4's negative return finish dragged the cumulative 2023 full-year return to -9.6%. On the bright side, the 1-year returns fared better than the Real Assets policy benchmark by a sizable margin (+319 bps), therefore still contributing positively to CalPERS PERF relative return.

Private Debt: The Private Debt program has done well in the current environment where higher interest rates is steering more companies/entities towards private lenders to satisfy financing needs: it turned in a welcoming 4.3% return in Q4 that was stronger than the other two private asset classes (Private Equity and Real Assets), and compared well against the 3.4% return of the Private Debt Blended Benchmark. This figure rounded into a 13.3% full-year return for 2023, which was not quite as strong as the benchmark's 15.1% pace, but it did still compare well to other CalPERS programs while providing diversification to the PERF portfolio.

PUBLIC EQUITY

Period Ended December 31, 2023

PUBLIC EQUITY ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
PUBLIC EQUITY	44.4%	48.8%	-4.4%
Public Equity - Cap Weighted	32.4%	36.8%	-4.5%
Public Equity - Factor Weighted	12.1%	12.0%	0.1%

PUBLIC EQUITY SEGMENT PERFORMANCE

	Asset Value (\$Billion)	Asset Value					VaR (\$Billion)	5-Year Ratios	
		Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
PUBLIC EQUITY*	\$ 215.0	10.3%	19.1%	5.7%	11.1%	7.9%	\$ 44.3	0.5	0.5
<i>Public Equity Policy Benchmark</i>		10.4%	19.2%	5.6%	11.0%	7.9%		0.5	0.0
Public Equity - Cap Weighted*	\$ 156.5	11.1%	22.3%	6.1%	12.2%	8.4%	\$ 35.1	0.6	0.4
<i>CalPERS Custom FTSE Global Benchmark</i>		11.2%	22.5%	6.0%	12.1%	8.3%		0.6	0.0
Public Equity - Factor Weighted	\$ 58.5	8.4%	10.7%	4.1%	7.7%	-.%	\$ 9.7	0.4	0.3
<i>CalPERS Custom FTSE Factor Weighted BM</i>		8.3%	10.5%	4.1%	7.6%	-.%		0.4	0.0

* The CalPERS asset values shown include derivative exposure.

PUBLIC EQUITY PORTFOLIOS PERFORMANCE

	Asset Value (\$Billion)	Asset Value					VaR (\$Billion)	5-Year Ratios	
		Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
PUBLIC EQUITY – CAP WEIGHTED									
Global Equity Index-Oriented Strategy	\$ 128.9	11.3%	22.6%	6.2%	12.4%	8.6%		0.6	1.5
<i>GE Index-Oriented Strategy Benchmark</i>		11.2%	22.6%	6.0%	12.2%	8.4%		0.6	0.0
Global Equity Alternative Beta	\$ 5.1	10.8%	19.1%	7.4%	11.9%	7.8%		0.6	-0.1
<i>GE Alternative Beta Custom Index</i>		11.2%	22.5%	6.0%	12.1%	8.1%		0.6	0.0
GE Public Equity - Traditional Active	\$ 14.2	9.3%	20.8%	6.5%	13.4%	8.3%		0.7	0.7
<i>GE Active ex-Alt Beta Custom Index</i>		11.1%	22.0%	5.4%	11.3%	7.5%		0.5	0.0
Other	\$ 8.2	NM	NM	NM	NM	NM		N/A	N/A
PUBLIC EQUITY – FACTOR WEIGHTED									
Internal Factor Weighted Index Oriented	\$ 58.5	8.4%	10.7%	4.1%	7.7%	-.%		0.4	0.3
<i>CalPERS Custom FTSE Factor Weighted Bm</i>		8.3%	10.5%	4.1%	7.6%	-.%		0.4	0.0

PUBLIC EQUITY

Period Ended December 31, 2023

PERFORMANCE NOTES – PUBLIC EQUITY

Cap Weighted Public Equity – Index-Oriented Strategy: The largest Public Equity component with 60% of the assets at the end of December, Index-Oriented Strategy continues to function as intended by providing accurate beta exposure and closely tracked the global equity markets' 11.2% 4th Quarter gain as well as the 22.6% full-year return. The Strategy's longer-term track record also reflects this ability in properly mirroring the broader global equity opportunity set by tracking its own assigned benchmark measure while incrementally adding value.

Cap Weighted Public Equity – Traditional Active: With assets invested either directly by external managers or through models provided by external managers, the Traditional Active Equity program recorded good gains during Q4's market rebound and was up 9.3%. While this was Traditional Active's highest quarterly return in 2023, it missed the mark in relative terms when the program custom benchmark was up 11.1%. Q4's -186 bps underperformance also turned out to be a drag that weighed on the full-year result, as Traditional Active's 20.8% cumulative gain, while impressive on its own, did not keep up with the custom benchmark's 22.0% pace. When looking past the near-term results, Traditional Active Equity has demonstrated the ability to capture broad equity market's forward momentum while adding additional alpha: this program's 13.4% 5-year return and 8.3% 10-year return have represented solid outperformance while also contributing to Public Equity's overall success.

Cap Weighted Public Equity – Alternative Beta: A small member component of Public Equity (accounting for approx. 7% of the asset class assets), Alternative Beta struggled in relative terms through a large part of 2023 that saw equity market performance largely dominated by a concentrated group of AI/Tech-related mega cap stocks (think "Magnificent 7"). Q4 was no exception, as this program recorded a nice 10.8% absolute return was not quite good enough to match the 11.2% of its custom benchmark. Similar result extends to the full-year period, where Alternative Beta underperformed by -336 bps despite earning 19.1% total. While this component was not exactly a contributor in Public Equity for 2023, things appear more steady when factoring in longer-term track record: it had previously performed better in 2022 and 2021, and continues to hold near-benchmark level annualized returns from the three-year mark and on.

Factor Weighted Public Equity: With the hope of rate cuts to come in 2024 reigniting investor risk appetite, the 4th Quarter saw investors rotating out of Quality and Value. As a result, the factor weighted equity segment experienced nice overall gains but the pace was not quite as robust as its cap-weighted counterpart. The same held true for the internally managed passive Factor Weighted portfolio, where it earned a Public Equity asset class-low of 8.4% Q4 return that tracked just ahead of the custom FTSE Factor Weighted Benchmark. Similar level of performance divergence between cap- and factor-weighted equity did persist for most of 2023, which in turn led to a larger gap for the full year with this portfolio totaling 10.7% compared to double the pace of gains by the cap weighted portfolios. The sizable near-term return disparity aside, it is important to note that the Factor Weighted portfolio has provided key diversification benefits in volatile periods such as during the drawdown through first three quarters of 2022, while properly mirroring or faring better than its assigned custom benchmark.

PRIVATE EQUITY

Period Ended December 31, 2023

PRIVATE EQUITY ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
PRIVATE EQUITY	14.0%	10.0%	4.0%
Private Equity	14.0%	10.0%	4.0%

PRIVATE EQUITY SEGMENT PERFORMANCE ⁴

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info
PRIVATE EQUITY	\$ 67.9	2.4%	8.8%	14.0%	11.4%	11.4%	\$ 27.3	1.1	0.2
<i>Private Equity Policy Benchmark</i>		-2.9%	22.8%	9.1%	8.3%	10.7%		0.3	0.0

PRIVATE EQUITY PORTFOLIOS PERFORMANCE

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info
PRIVATE EQUITY									
Private Equity Partnership Investments	\$ 67.9	2.4%	8.9%	14.1%	11.5%	11.4%		N/A	N/A
Private Equity Distribution Stock	\$ 0.0	-10.9%	-33.1%	-44.4%	-28.9%	-21.9%		N/A	N/A

⁴ Performance of CalPERS' private equity investments is 1-quarter lagged.

INCOME

Period Ended December 31, 2023

INCOME ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
INCOME	27.0%	27.4%	-0.3%
Treasury	5.2%	5.3%	-0.1%
Mortgages	5.2%	5.3%	-0.1%
Investment Grade Corporates	7.0%	6.9%	0.0%
High Yield	4.5%	4.7%	-0.1%
EM Sovereign Bonds	5.2%	5.3%	-0.1%

INCOME SEGMENT & PORTFOLIO PERFORMANCE

	Asset Value			VaR				5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info
INCOME*	\$ 130.7	9.6%	8.3%	-4.6%	1.8%	2.8%	\$ 7.7	0.0	0.8
<i>Income Policy Benchmark</i>		9.6%	8.2%	-4.6%	1.7%	2.4%		0.0	0.0
Treasury*	\$ 25.1	10.6%	3.3%	-9.4%	-0.9%	1.6%	\$ 3.5	-0.2	-0.2
<i>Custom Bloomberg Government</i>		10.6%	3.3%	-9.4%	-0.9%	1.6%		-0.2	0.0
Mortgage-Backed Securities	\$ 25.0	7.3%	5.3%	-2.7%	0.5%	2.0%	\$ 0.2	-0.2	0.6
<i>Custom Bloomberg Mortgage</i>		7.3%	5.1%	-2.8%	0.4%	1.4%		-0.3	0.0
Investment Grade Credit	\$ 33.7	12.4%	9.9%	-5.6%	3.0%	4.0%	\$ 3.5	0.1	0.5
<i>Custom Bloomberg Corp ex Sov</i>		12.5%	10.3%	-5.5%	2.8%	3.6%		0.1	0.0
High Yield	\$ 22.0	7.1%	12.8%	1.9%	5.1%	-.-%	\$ 2.3	0.3	0.4
<i>Custom Bloomberg High Yield</i>		7.1%	12.6%	1.9%	5.0%	-.-%		0.3	0.0
EM Sovereign	\$ 25.0	9.4%	9.7%	-.-%	-.-%	-.-%	\$ 1.4	N/A	N/A
<i>Custom JPM EMBIG Diversified</i>		9.3%	9.3%	-.-%	-.-%	-.-%		N/A	N/A

* The CalPERS asset values shown include derivative exposure.

INCOME

Period Ended December 31, 2023

PERFORMANCE NOTES – INCOME

Treasury: Having suffered steep losses in the two prior quarters when yields made their historic ascend during the summer and into the fall, Treasuries staged a dramatic comeback in the fourth quarter after the end of Fed rate hikes and the expectations of future cuts sparked a major bond rally that ultimately drove the entire yield curve meaningfully lower: 2-Year UST yield fell 80 bps, 5-Year UST yield fell 76 bps, and 10-Year UST yield fell 69 bps. The internally-managed Treasury program responded favorably and jumped to a 10.6% Q4 return. This impressive performance saved Treasury from posting back-to-back yearly losses, as it concluded 2023 with a modest total gain of 3.3%. Both return figures were nicely in line with Treasury's own custom benchmark.

Mortgage-Backed Securities: The sharp decrease in rates was a boost to nearly all fixed income sectors, MBS included: this Income program, which had a cumulative return of -1.9% through the first nine months of 2023, notched a solid Q4 return of 7.3% and mirrored the pace of the Bloomberg LMTG Index. For the full year its return came in at 5.3%, stronger than Treasury and was better than the 5.1% pace of its own benchmark.

Investment Grade Credit: Benefiting from Q4's sharply lower government bond yields and tighter credit spread environment, the IG Credit program enjoyed a solid quarter, returning 12.4% and paced all other Income components. Similar result is observed over the trailing 12-month stretch, where this portfolio's 9.9% cumulative 2023 gain topped all other programs outside of High Yield. These output were a small miss in relative terms, however, as IG Credit's own benchmark was up 12.5% and 10.4% respectively over the same periods.

High Yield: High yield bonds also participated in Q4's relief rally, benefiting as both interest rates and spreads registered significant decline while the U.S. economy remains (surprisingly) resilient. The CalPERS High Yield program performed well for the quarter amid this backdrop, with a 7.1% return that was its strongest quarterly showing in more than three years and comfortably matched the Bloomberg U.S. High Yield BB/B Liquid Index. Having now recorded five straight quarterly gains and being the only Income component to have achieved this feat, the High Yield program currently holds a towering 12.8% full-year return that also links up to solid longer term track record (1.9% for 3 years and 5.1% for 5 years), all of which are placed at the top of the leaderboard within the Income asset class while matching well against the high yield benchmark.

REAL ASSETS

Period Ended December 31, 2023

REAL ASSETS ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
REAL ASSETS	14.0%	13.8%	0.2%
Real Estate	10.8%	--	--
Forestland	0.1%	--	--
Infrastructure	3.1%	--	--

REAL ASSETS SEGMENT & PORTFOLIOS PERFORMANCE ⁵

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
REAL ASSETS	\$ 67.8	-2.6%	-9.6%	6.2%	4.9%	6.9%	\$ 9.8	0.7	0.0	
<i>Real Assets Policy Benchmark</i>		-2.2%	-12.8%	6.2%	4.7%	6.9%		0.4	0.0	
Real Estate	\$ 52.3	-2.9%	-13.1%	5.4%	4.5%	6.9%	\$ 7.5	0.5	0.0	
<i>CalPERS Custom Real Estate Benchmark</i>		-2.2%	-12.8%	6.2%	4.7%	7.2%		0.4	0.0	
Infrastructure	\$ 15.2	-1.5%	5.2%	9.4%	6.9%	10.6%	\$ 2.2	0.9	0.3	
<i>CalPERS Custom Infrastructure Benchmark</i>		-2.2%	-12.8%	6.2%	4.7%	5.2%		0.4	0.0	
Forestland	\$ 0.3	1.4%	9.5%	5.8%	4.0%	0.2%	\$ 0.0	0.4	-0.1	
<i>CalPERS Custom Forestland Benchmark</i>		-2.2%	-12.8%	6.2%	4.7%	5.5%		0.4	0.0	

PERFORMANCE NOTES – REAL ASSETS

Real Estate: The PERF Real Estate program had a challenging year in 2023, losing -2.9% in Q4 and -13.1% cumulatively for the full year as it contended with the decades-high interest rates challenge that’s continuing to pressure real estate assumptions/values. Both performance figures modestly trailed the real estate custom benchmark. Real Estate is currently holding on to a solid 5.4% annualized gain over the past three years thanks to the robust valuation rebound coming out of the COVID lockdown and has earned 6.9% over the past decade.

Infrastructure: The PERF Infrastructure portfolio lost ground in Q4 by falling -1.5%, but did manage to contribute in relative sense as this performance compared better than the custom infrastructure benchmark by approx. 66 bps. Having previously strung together 3 straight quarters of modest gains, this defensive-nature portfolio netted a respectable total 2023 return of 5.2%, which also represented a sizable benchmark-beat that contributed to Real Assets’ relative outperformance while adding on to a solid longer-term track record that makes Infrastructure the strongest returning Real Assets component.

Forestland: Real Assets’ smallest component was a notable contributor in the latest calendar year by earning a 9.5% 2023 total return, far outstripping the custom benchmark’s -12.8% for the same period. Although after factoring in drag from the sale of a legacy timber investment that represented a sizable portfolio value markdown in 2018, Forestland’s longer-term track record remains soft, currently underperforming against the Real Assets Policy Benchmark.

⁵ Performance of CalPERS’ Real Assets investments is reported on a 1-quarter lagged basis.

PRIVATE DEBT

Period Ended December 31, 2023

PRIVATE DEBT LEVEL ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
PRIVATE DEBT	2.5%	2.0%	0.5%
Private Debt	2.5%	2.0%	0.5%

PRIVATE DEBT SEGMENT & PORTFOLIO PERFORMANCE

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
PRIVATE DEBT	\$ 12.2	4.3%	13.3%	--%	--%	--%	\$ 1.0	N/A	N/A	
<i>Private Debt Blended Benchmark</i>		3.4%	15.1%	--%	--%	--%		N/A	N/A	

OTHER TRUST LEVEL

Period Ended December 31, 2023

OTHER TRUST LEVEL ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
OTHER TRUST LEVEL	3.3%	0.0%	3.3%
LLER	2.5%	--	2.5%
Opportunistic Strategies	0.0%	--	0.0%
Total Fund Income	0.5%	--	0.5%
TLPM	0.3%	--	0.3%
Other PERF	0.0%	--	0.0%

OTHER TRUST LEVEL SEGMENT & PORTFOLIO PERFORMANCE

	Asset Value							VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	(\$Billion)	Sharpe	Info	
OTHER TRUST LEVEL	\$ 16.1									
LLER	\$ 11.9	2.2%	9.1%	3.7%	3.5%	--%	\$ 0.1	0.5	0.6	
<i>LIBOR 1 Month w GBLSE Holiday</i>		1.4%	5.3%	2.4%	2.0%	--%		-0.6	0.0	
Opportunistic Strategies	\$ 0.2	1.0%	8.8%	6.8%	--%	--%	\$ 0.0	N/A	N/A	
<i>Custom Opportunistic Strategies Benchmark</i>		1.7%	7.0%	7.0%	--%	--%		N/A	N/A	
Total Fund Income	\$ 2.6	2.0%	4.2%	-9.3%	--%	--%	\$ 0.4	N/A	N/A	
<i>Custom Total Fund Income Benchmark</i>		1.5%	3.9%	-9.3%	--%	--%		N/A	N/A	
Trust Level Portfolio Management	\$ 1.2	NM	NM	NM	NM	NM		N/A	N/A	
Other Perf	\$ 0.2	NM	NM	NM	NM	NM		N/A	N/A	

TOTAL FUND FINANCING

Period Ended December 31, 2023

TOTAL FUND FINANCING ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
TOTAL FUND FINANCING	-5.4%	-2.0%	-3.4%
Strategic	-2.0%	-2.0%	0.0%
Active	-3.3%	0.0%	-3.3%

TOTAL FUND FINANCING SEGMENT PERFORMANCE

	Asset Value (\$Billion)	Asset Value					VaR (\$Billion)	5-Year Ratios	
		Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
TOTAL FUND FINANCING	\$ (26.0)	-.%	-.%	-.%	-.%	-.%		N/A	N/A
Strategic	\$ (9.9)	-.%	-.%	-.%	-.%	-.%		N/A	N/A
Active	\$ (16.1)	-.%	-.%	-.%	-.%	-.%		N/A	N/A

SECURITIES LENDING

Period Ended December 31, 2023

SEC LENDING SEGMENT & PORTFOLIOS PERFORMANCE

	Asset Value (\$Billion)	Asset Value					VaR (\$Billion)	5-Year Ratios	
		Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
Sec Lending Composite	\$ 14.5	1.3%	5.4%	2.4%	2.0%	1.4%		N/A	N/A
Internal Sec Lending Portfolio	\$ 0.9	1.4%	5.4%	2.4%	2.1%	1.5%		N/A	N/A
<i>CaIPERS GSTIF</i>		1.4%	5.4%	2.4%	2.1%	1.4%		N/A	N/A

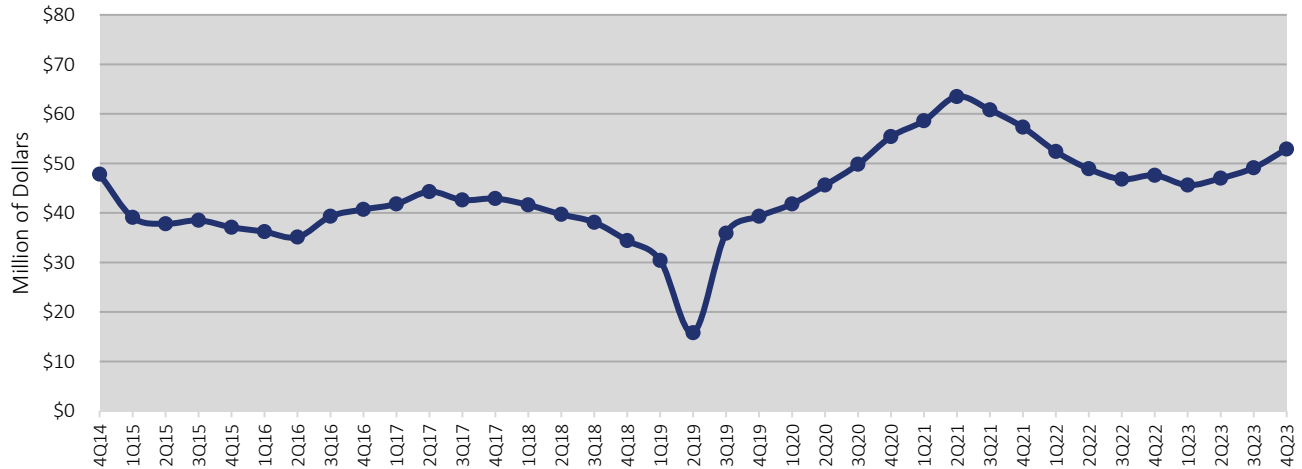
AFFILIATE FUND INFORMATION

JUDGES RETIREMENT SYSTEM I FUND

JUDGES I PERFORMANCE

Period Ended December 31, 2023

GROWTH IN ASSETS



NET OF FEE PLAN PERFORMANCE RESULTS – JUDGES I ⁶

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
Judges Retirement I Fund	\$ 52.9	1.4%	5.4%	2.4%	2.0%	1.4%
<i>91-Day Treasury Bill</i>		1.4%	5.0%	2.2%	1.9%	1.3%
Judges I Programs:						
Judges I Internal Short-Term	\$ 52.9	1.4%	5.4%	2.4%	2.0%	1.4%
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	1.9%	1.3%

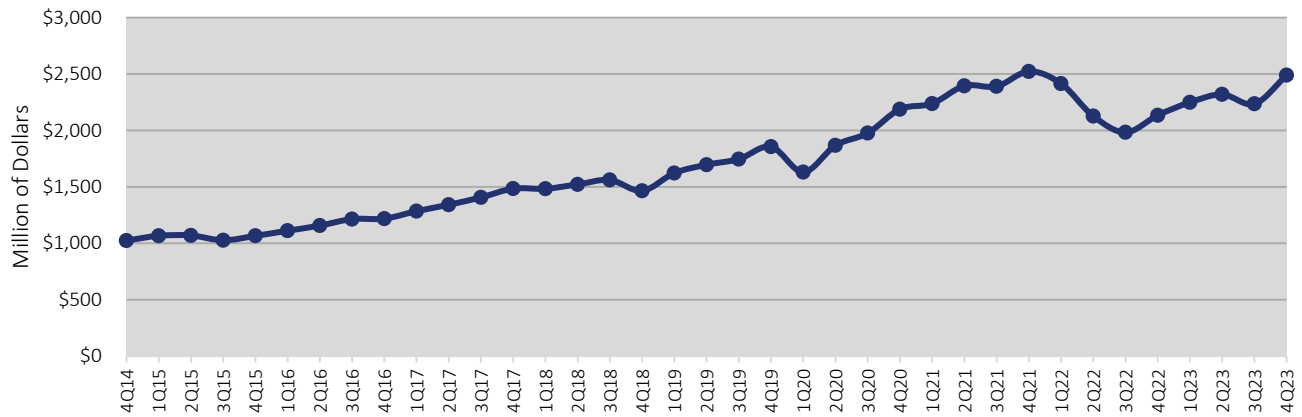
⁶ JRS I maintains a reserve balance of approximately two months of benefit payments. Prior to 2009-2010 fiscal year, the fund held approximately one month of benefit reserve with the majority of funds held at the State Treasurer’s Office.

JUDGES RETIREMENT SYSTEM II FUND

JUDGES II PERFORMANCE

Period Ended December 31, 2023

GROWTH IN ASSETS



NET OF FEE PLAN PERFORMANCE RESULTS – JUDGES II ⁷

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
Judges Retirement II Fund	\$ 2,489.3	10.7%	14.6%	2.1%	7.8%	5.8%
<i>Weighted Policy Benchmark</i>		10.7%	14.3%	1.9%	7.6%	5.6%
Judges II Programs:						
JRS II Global Equity	\$ 1,271.3	11.2%	22.0%	5.9%	11.9%	8.3%
<i>Global Equity Benchmark</i>		11.1%	21.6%	5.5%	11.5%	8.0%
JRS II US Fixed Income	\$ 520.6	9.6%	6.0%	-6.1%	0.8%	2.5%
<i>Custom Benchmark</i>		9.7%	6.0%	-6.0%	0.7%	2.2%
JRS II TIPS	\$ 124.1	4.6%	3.9%	-1.0%	3.1%	2.4%
<i>Bloomberg U.S. TIPS Index</i>		4.7%	3.9%	-1.0%	3.2%	2.4%
JRS II REITs	\$ 499.5	15.5%	10.5%	1.9%	3.6%	4.5%
<i>Custom Benchmark</i>		15.3%	9.7%	1.2%	2.8%	4.0%
JRS II Commodities	\$ 73.6	-10.8%	-4.4%	18.9%	8.6%	-3.5%
<i>GSCI Total Return</i>		-10.7%	-4.3%	19.2%	8.7%	-3.6%
JRS II Cash/Short-Term	\$ 0.1	NM	NM	NM	NM	NM
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	1.9%	1.3%

⁷ JRS II weighted policy benchmark is calculated based on asset class index returns weighted at their respective asset class policy targets.

JRS II Global Equity Benchmark is MSCI ACWI IMI Net starting 6/07/2018. Between 6/06/2018 and 9/08/2011 the custom benchmark was run by FTSE. Prior of that it was calculated as an asset weighted benchmark of its underlying domestic and international funds.

Current US Fixed Income Custom Benchmark is the Bloomberg Long Liability Index. Bloomberg Long Liability ex TIPS was used as the benchmark between June 2005 and May 2007. Prior of that the benchmark was Citigroup LPF.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Between 3/26/2020 and 6/07/2018 it was FTSE EPRA/NAREIT Developed Liquid (Net) Index. Between 6/06/2018 and 9/08/2011 the it was FTSE EPRA/NAREIT Developed (TR) Index. Prior of that it was the Wilshire RESI and REIT Indices.

JUDGES II PERFORMANCE

Period Ended December 31, 2023

JUDGES II ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

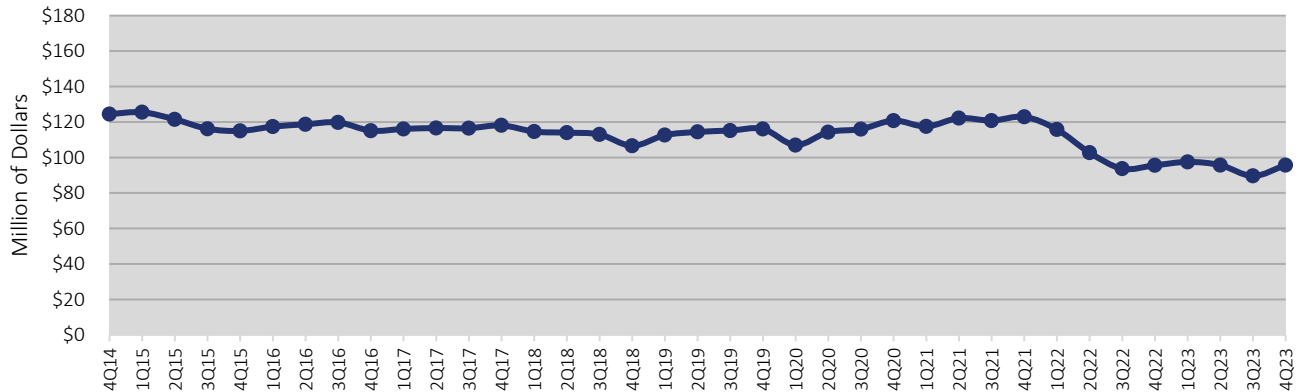
Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
JUDGES II TOTAL FUND	100.0%	100.0%	0.0%
Global Equity	51.1%	51.0%	0.1%
US Fixed Income	20.9%	21.0%	-0.1%
TIPS	5.0%	5.0%	0.0%
REITs	20.1%	20.0%	0.1%
Commodities	3.0%	3.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

LEGISLATORS' RETIREMENT SYSTEM FUND

LEGISLATORS' RETIREMENT SYSTEM PERFORMANCE

Period Ended December 31, 2023

GROWTH IN ASSETS



NET OF FEE PLAN PERFORMANCE RESULTS – LEGISLATORS' ⁸

	Asset Value		Quarter	1-Year	3-Year	5-Year	10-Year
	(\$Million)						
Legislators' Retirement System Fund	\$ 95.7		9.1%	8.7%	-0.8%	4.7%	4.0%
<i>Weighted Policy Benchmark</i>			9.1%	8.6%	-0.8%	4.6%	3.9%
LRS Programs:							
LRS Global Equity	\$ 17.3		11.2%	22.0%	5.9%	11.9%	8.3%
<i>Global Equity Benchmark</i>			11.1%	21.6%	5.5%	11.5%	8.0%
LRS US Fixed Income	\$ 43.0		9.6%	6.0%	-6.1%	0.7%	2.5%
<i>Custom Benchmark</i>			9.7%	6.0%	-6.0%	0.7%	2.2%
LRS TIPS	\$ 19.1		4.6%	3.9%	-1.0%	3.1%	2.4%
<i>Custom Benchmark</i>			4.7%	3.9%	-1.0%	3.2%	2.4%
LRS REITs	\$ 13.5		15.5%	10.5%	1.9%	3.6%	4.5%
<i>Custom Benchmark</i>			15.3%	9.7%	1.2%	2.8%	4.0%
LRS Commodities	\$ 2.8		-10.8%	-4.4%	18.9%	8.6%	-3.4%
<i>GSCI Total Return</i>			-10.7%	-4.3%	19.2%	8.7%	-3.6%
LRS Cash/Short-Term	\$ 0.0		NM	NM	NM	NM	NM
<i>ICE BofA US 3-Month Treasury Bill Index</i>			1.4%	5.0%	2.2%	1.9%	1.3%

⁸ LRS weighted policy benchmark is calculated based on asset class index returns weighted at their respective asset class policy targets.

LRS Global Equity Benchmark is MSCI ACWI IMI Net starting 6/07/2018. Between 6/06/2018 and 9/08/2011 the custom benchmark was run by FTSE. Prior of that it was calculated as an asset weighted benchmark of its underlying domestic and international funds.

Current US Fixed Income Custom Benchmark is the Bloomberg Long Liability Index. Bloomberg Long Liability ex TIPS was used as the benchmark between June 2005 and May 2007. Prior of that the benchmark was Citigroup LPF.

TIPS Benchmark is currently the Bloomberg U.S. TIPS Index. Prior of July 2017 it was the Bloomberg Long Liability TIPS Index.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Between 3/26/2020 and 6/07/2018 it was FTSE EPRA/NAREIT Developed Liquid (Net) Index. Between 6/06/2018 and 9/08/2011 the benchmark was FTSE EPRA/NAREIT Developed (TR) Index. Prior of that it was the Wilshire RESI and REIT Indices.

LEGISLATORS' RETIREMENT SYSTEM PERFORMANCE

Period Ended December 31, 2023

LEGISLATORS' ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

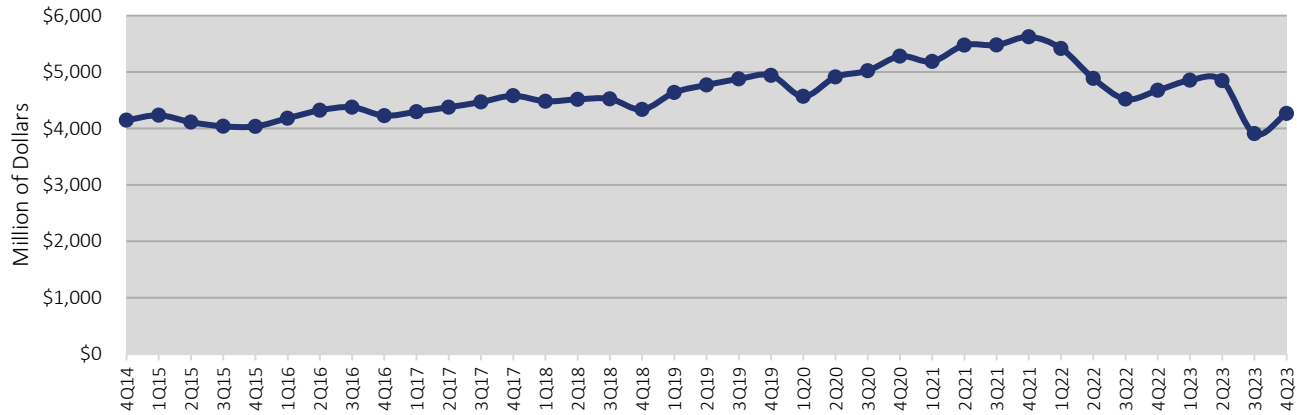
Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
LEGISLATORS' RETIREMENT SYSTEM FUND	100.0%	100.0%	0.0%
Global Equity	18.1%	18.0%	0.1%
US Fixed Income	44.9%	45.0%	-0.1%
TIPS	20.0%	20.0%	0.0%
REITs	14.1%	14.0%	0.1%
Commodities	3.0%	3.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

LONG-TERM CARE FUND

LONG-TERM CARE FUND PERFORMANCE

Period Ended December 31, 2023

GROWTH IN ASSETS



NET OF FEE PLAN PERFORMANCE RESULTS – LONG-TERM CARE FUND⁹

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
Long-Term Care Fund	\$ 4,265.8	9.7%	9.2%	-0.5%	4.4%	3.6%
<i>Weighted Policy Benchmark</i>		9.7%	9.3%	-0.6%	4.4%	3.5%
LTC Programs:						
LTC Global Equity	\$ 1,269.0	8.8%	20.9%	5.5%	11.6%	8.0%
<i>Custom Benchmark</i>		8.9%	20.6%	5.2%	11.3%	7.7%
LTC US Fixed Income	\$ 2,572.4	10.4%	7.5%	-5.2%	1.2%	2.4%
<i>Custom Benchmark</i>		10.3%	7.4%	-5.1%	1.3%	2.4%
LTC REITs	\$ 310.0	13.9%	8.4%	1.3%	3.2%	4.0%
<i>Custom Benchmark</i>		13.9%	9.5%	1.1%	2.8%	3.4%
LTC Commodities	\$ 111.4	-4.3%	-2.5%	19.7%	9.0%	-3.5%
<i>GSCI Total Return</i>		-4.6%	-2.3%	20.0%	9.2%	-3.4%
LTC Cash/Short-Term	\$ 3.0	NM	NM	NM	NM	NM
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	1.9%	1.3%

⁹ LTC weighted policy benchmark is calculated based on asset class index returns weighted at their respective asset class policy targets.

LTC Global Equity Benchmark is MSCI ACWI IMI Net starting 12/12/2012. Prior of that it was calculated as an asset weighted benchmark of its underlying domestic and international funds.

Current US Fixed Income Custom Benchmark is the Bloomberg Long Liability Index. Bloomberg Long Liability ex TIPS ex High Yield was the benchmark between June 2007 and July 2005. Prior of that the benchmark was Bloomberg Aggregate Bond Index.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Between 3/26/2020 and 12/12/2012 it was FTSE EPRA/NAREIT Developed Liquid (Net) Index.

LTC ending asset values presented were as of July 3, 2023.

LONG-TERM CARE FUND PERFORMANCE

Period Ended December 31, 2023

LONG-TERM CARE FUND ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS ¹⁰

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
LONG-TERM CARE TOTAL FUND	100.0%	100.0%	0.0%
Global Equity	29.7%	30.0%	-0.3%
US Fixed Income	60.3%	60.0%	0.3%
REITs	7.3%	7.0%	0.3%
Commodities	2.6%	3.0%	-0.4%
Cash/Short-Term	0.1%	0.0%	0.1%

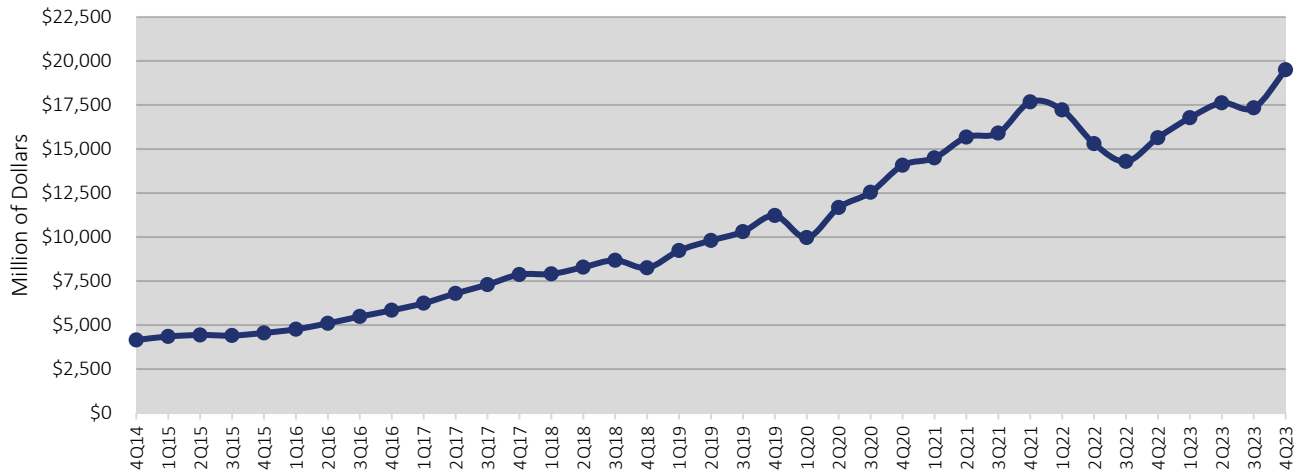
¹⁰ LTC actual asset allocation weights presented were based on December 31, 2023 ending asset values.

**CALIFORNIA EMPLOYERS' RETIREE
BENEFIT TRUST**

CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST AGGREGATE

Period Ended December 31, 2023

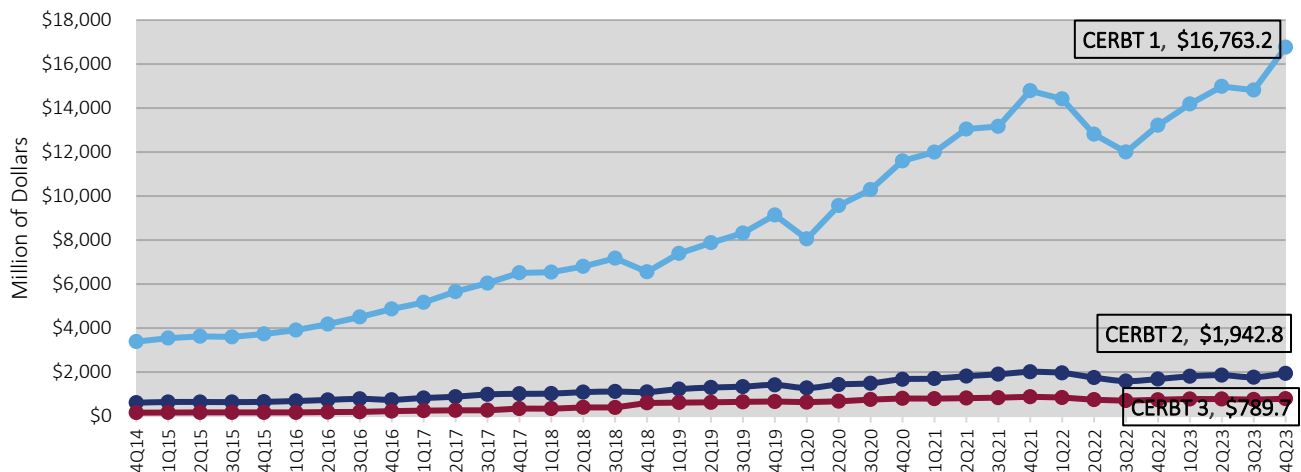
GROWTH IN ASSETS – CERBT AGGREGATE



NET OF FEE PLAN PERFORMANCE RESULTS – CERBT AGGREGATE

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CERBT Aggregate	\$ 19,495.7	10.6%	13.8%	1.9%	7.7%	5.7%
<i>CERBT Trust Aggregate Benchmark</i>		<i>10.6%</i>	<i>13.5%</i>	<i>1.7%</i>	<i>7.5%</i>	<i>5.4%</i>

GROWTH IN ASSETS – CERBT 1, 2, 3



CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST 1

Period Ended December 31, 2023

CERBT 1 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
TOTAL CERBT 1	100.0%	100.0%	0.0%
Global Equity	49.1%	49.0%	0.1%
US Fixed Income	22.9%	23.0%	-0.1%
TIPS	5.0%	5.0%	0.0%
REITs	20.1%	20.0%	0.1%
Commodities	3.0%	3.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

NET OF FEE PLAN PERFORMANCE RESULTS – CERBT 1 ¹¹

	Asset Value (\$Million)	Performance				
		Quarter	1-Year	3-Year	5-Year	10-Year
CERBT Strategy 1	\$ 16,763.2	10.7%	14.2%	2.2%	8.0%	5.9%
<i>Total CERBT Strategy 1 Benchmark</i>		10.7%	14.0%	2.0%	7.8%	5.6%
CERBT 1 Programs:						
Global Equity	\$ 8,226.0	11.2%	21.9%	5.8%	11.8%	8.1%
<i>CERBT Global Equity Benchmark</i>		11.1%	21.6%	5.5%	11.5%	7.8%
Domestic Fixed Income	\$ 3,840.0	9.6%	5.9%	-6.2%	0.7%	2.5%
<i>CalPERS Custom Long Liability</i>		9.7%	6.0%	-6.0%	0.7%	2.2%
TIPS	\$ 835.3	4.6%	3.9%	-1.0%	3.1%	2.4%
<i>CalPERS TIPS</i>		4.7%	3.9%	-1.0%	3.2%	2.4%
REITs	\$ 3,363.7	15.5%	10.5%	1.9%	3.6%	4.3%
<i>Custom Benchmark</i>		15.3%	9.7%	1.2%	2.8%	3.4%
Commodities	\$ 495.2	-10.8%	-4.4%	18.9%	8.6%	-3.6%
<i>GSCI Total Return</i>		-10.7%	-4.3%	19.2%	8.7%	-3.6%
Cash/Short-Term	\$ 3.0	NM	NM	NM	NM	NM
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	1.9%	1.3%

¹¹ CERBT Strategy 1 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST 2

Period Ended December 31, 2023

CERBT 2 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
TOTAL CERBT 2	100.0%	100.0%	0.0%
Global Equity	34.1%	34.0%	0.1%
US Fixed Income	40.9%	41.0%	-0.1%
TIPS	5.0%	5.0%	0.0%
REITs	17.1%	17.0%	0.1%
Commodities	3.0%	3.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

NET OF FEE PLAN PERFORMANCE RESULTS – CERBT 2 ¹²

	Asset Value (\$Million)	Performance				
		Quarter	1-Year	3-Year	5-Year	10-Year
CERBT Strategy 2	\$ 1,942.8	10.3%	11.7%	0.4%	6.3%	4.9%
<i>Total CERBT Strategy 2 Benchmark</i>		10.3%	11.5%	0.3%	6.1%	4.6%
CERBT 2 Programs:						
Global Equity	\$ 662.2	11.2%	21.9%	5.8%	11.8%	8.1%
<i>CERBT Global Equity Benchmark</i>		11.1%	21.6%	5.5%	11.5%	7.8%
Domestic Fixed Income	\$ 794.3	9.6%	6.0%	-6.1%	0.7%	2.5%
<i>CalPERS Custom Long Liability</i>		9.7%	6.0%	-6.0%	0.7%	2.2%
TIPS	\$ 96.9	4.6%	3.9%	-1.0%	3.1%	2.4%
<i>CalPERS TIPS</i>		4.7%	3.9%	-1.0%	3.2%	2.4%
REITs	\$ 331.7	15.5%	10.5%	1.9%	3.6%	4.2%
<i>Custom Benchmark</i>		15.3%	9.7%	1.2%	2.8%	3.4%
Commodities	\$ 57.4	-10.8%	-4.4%	18.9%	8.6%	-3.5%
<i>GSCI Total Return</i>		-10.7%	-4.3%	19.2%	8.7%	-3.6%
Cash/Short-Term	\$ 0.3	NM	NM	NM	NM	NM
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	1.9%	1.3%

¹² CERBT Strategy 2 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

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CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST 3

Period Ended December 31, 2023

CERBT 3 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
TOTAL CERBT 3	100.0%	100.0%	0.0%
Global Equity	23.0%	23.0%	0.0%
US Fixed Income	50.7%	51.0%	-0.3%
TIPS	9.0%	9.0%	0.0%
REITs	14.0%	14.0%	0.0%
Commodities	2.9%	3.0%	-0.1%
Cash/Short-Term	0.4%	0.0%	0.4%

NET OF FEE PLAN PERFORMANCE RESULTS – CERBT 3 ¹³

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CERBT Strategy 3	\$ 789.7	9.7%	9.8%	-0.4%	4.9%	4.1%
<i>Total CERBT Strategy 3 Benchmark</i>		9.8%	9.6%	-0.4%	4.8%	3.9%
CERBT 3 Programs:						
Global Equity	\$ 181.6	11.2%	21.9%	5.8%	11.8%	8.1%
<i>CERBT Global Equity Benchmark</i>		11.1%	21.6%	5.5%	11.5%	7.8%
Domestic Fixed Income	\$ 400.5	9.6%	6.0%	-6.1%	0.7%	2.4%
<i>CalPERS Custom Long Liability</i>		9.7%	6.0%	-6.0%	0.7%	2.2%
TIPS	\$ 70.7	4.6%	3.9%	-1.0%	3.1%	2.4%
<i>CalPERS TIPS</i>		4.7%	3.9%	-1.0%	3.2%	2.4%
REITs	\$ 110.7	15.5%	10.5%	1.9%	3.6%	4.2%
<i>Custom Benchmark</i>		15.3%	9.7%	1.2%	2.8%	3.4%
Commodities	\$ 23.3	-10.8%	-4.4%	18.9%	8.6%	-3.4%
<i>GSCI Total Return</i>		-10.7%	-4.3%	19.2%	8.7%	-3.6%
Cash/Short-Term	\$ 2.9	NM	NM	NM	NM	NM
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	1.9%	1.3%

¹³ CERBT Strategy 3 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

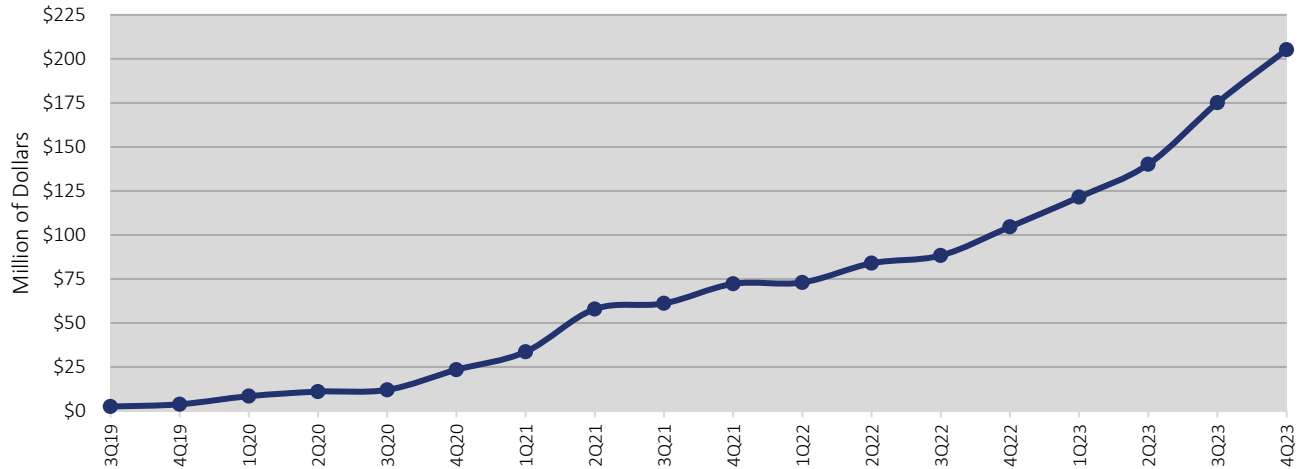
The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

CA EMPLOYERS' PENSION PREFUNDING TRUST

CALIFORNIA PREFUNDING TRUST AGGREGATE

Period Ended December 31, 2023

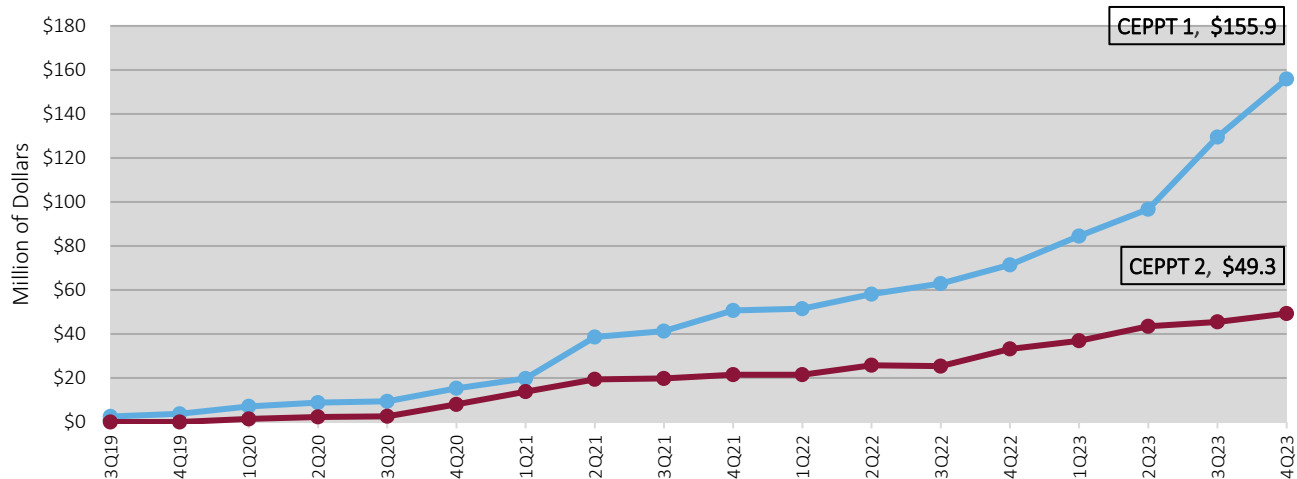
GROWTH IN ASSETS – CEPPT AGGREGATE



NET OF FEE PLAN PERFORMANCE RESULTS – CEPPT AGGREGATE

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CEPPT Aggregate	\$ 205.2	9.1%	11.2%	0.2%	-.-%	-.-%
<i>CEPPT Trust Aggregate Benchmark</i>		9.2%	11.0%	0.1%	-.-%	-.-%

GROWTH IN ASSETS – CEPPT 1, 2



CA PENSION PREFUNDING TRUST PERFORMANCE

Period Ended December 31, 2023

CEPPT STRATEGY 1 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
PENSION PREFUNDING TRUST-STRATEGY 1	100.0%	100.0%	0.0%
Global Equity	37.1%	37.0%	0.1%
US Fixed Income	43.9%	44.0%	-0.1%
REITs	14.0%	14.0%	0.0%
TIPS	5.0%	5.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

NET OF FEE PERFORMANCE RESULTS – CEPPT STRATEGY 1 ¹⁴

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
Pension Prefunding Trust - Strategy 1	\$ 155.9	9.4%	12.0%	0.8%	-.%	-.%
<i>CEPPT Strategy 1 Policy Benchmark</i>		9.5%	11.9%	0.7%	-.%	-.%
CEPPT Strategy 1 Programs:						
CEPPT S1 Equity	\$ 57.8	11.2%	21.9%	5.7%	-.%	-.%
<i>MSCI ACWI IMI Net</i>		11.1%	21.6%	5.5%	-.%	-.%
CEPPT S1 Fixed Income	\$ 68.5	6.7%	5.6%	-3.3%	-.%	-.%
<i>Bloomberg US Aggregate Bond Indx</i>		6.8%	5.5%	-3.3%	-.%	-.%
CEPPT S1 REITs	\$ 21.9	15.5%	10.5%	1.9%	-.%	-.%
<i>Custom Benchmark</i>		15.3%	9.7%	1.2%	-.%	-.%
CEPPT S1 TIPS	\$ 7.8	4.6%	3.9%	-1.1%	-.%	-.%
<i>CalPERS TIPS</i>		4.7%	3.9%	-1.0%	-.%	-.%
CEPPT S1 Cash	\$ 0.0	NM	NM	NM	-.%	-.%
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	-.%	-.%

¹⁴ CEPPT Strategy 1 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

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CA PENSION PREFUNDING TRUST PERFORMANCE

Period Ended December 31, 2023

CEPPT STRATEGY 2 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
PENSION PREFUNDING TRUST-STRATEGY 2	100.0%	100.0%	0.0%
Global Equity	21.0%	21.0%	0.0%
US Fixed Income	60.9%	61.0%	-0.1%
REITs	9.0%	9.0%	0.0%
TIPS	9.0%	9.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

NET OF FEE PERFORMANCE RESULTS – CEPPT STRATEGY 2 ¹⁵

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
Pension Prefunding Trust - Strategy 2	\$ 49.3	8.2%	9.1%	-1.0%	-.%	-.%
<i>CEPPT Strategy 2 Policy Benchmark</i>		8.3%	9.0%	-1.0%	-.%	-.%
CEPPT Strategy 2 Programs:						
CEPPT S2 Equity	\$ 10.4	11.2%	21.9%	5.7%	-.%	-.%
<i>MSCI ACWI IMI Net</i>		11.1%	21.6%	5.5%	-.%	-.%
CEPPT S2 Fixed Income	\$ 30.1	6.7%	5.7%	-3.3%	-.%	-.%
<i>Bloomberg US Aggregate Bond Indx</i>		6.8%	5.5%	-3.3%	-.%	-.%
CEPPT S2 REITs	\$ 4.5	15.5%	10.5%	1.9%	-.%	-.%
<i>Custom Benchmark</i>		15.3%	9.7%	1.2%	-.%	-.%
CEPPT S2 TIPS	\$ 4.4	4.6%	3.9%	-1.0%	-.%	-.%
<i>CalPERS TIPS</i>		4.7%	3.9%	-1.0%	-.%	-.%
CEPPT S2 Cash	\$ 0.0	NM	NM	NM	-.%	-.%
<i>ICE BofA US 3-Month Treasury Bill Index</i>		1.4%	5.0%	2.2%	-.%	-.%

¹⁵ CEPPT Strategy 2 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

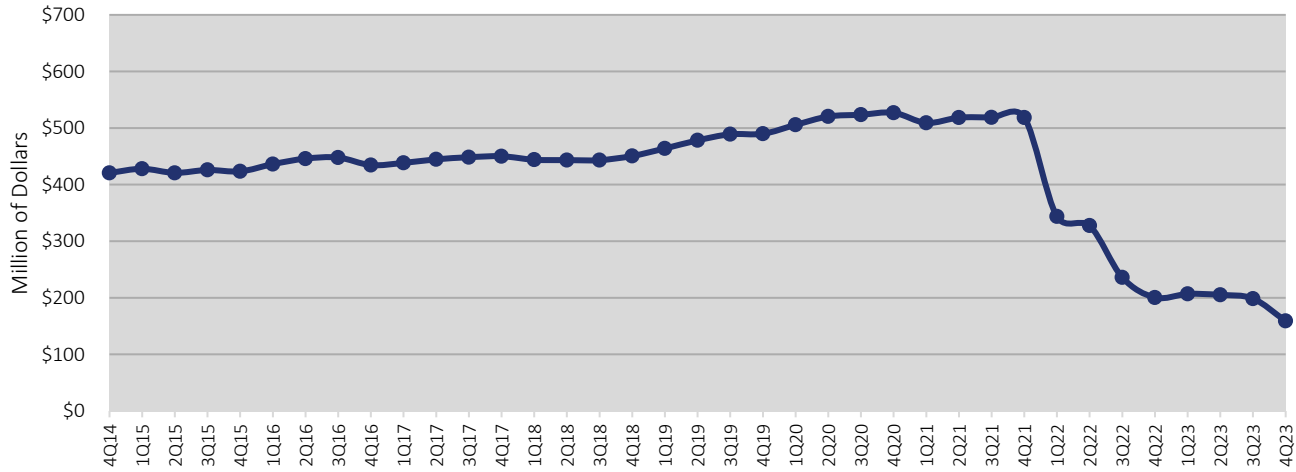
The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

HEALTH CARE FUND

HEALTH CARE FUND PERFORMANCE

Period Ended December 31, 2023

GROWTH IN ASSETS ¹⁶



NET OF FEE PLAN PERFORMANCE RESULTS – HEALTH CARE FUND

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CalPERS Health Care Bond Fund	\$ 159.0	6.7%	5.6%	-3.4%	1.1%	1.9%
<i>Bloomberg US Aggregate Bond Indx</i>		6.8%	5.5%	-3.3%	1.1%	1.8%

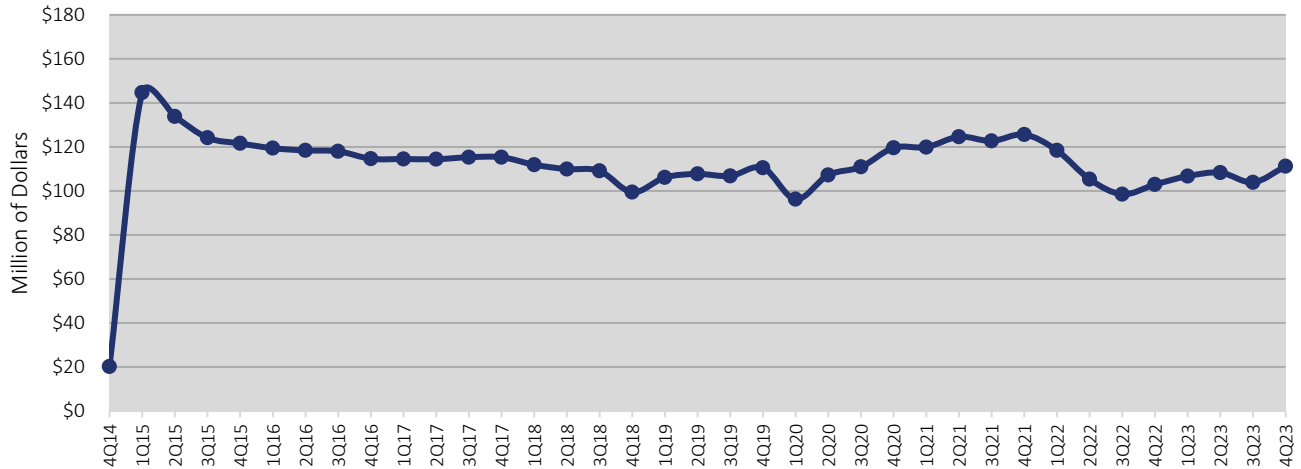
¹⁶ The decline in assets starting in the 4th Quarter of 2021 was due to periodic withdrawals from the fund in the amount of \$240 million through 12/31/2022, with the remaining decline due to investment performance of bonds during calendar year 2022.

SUPPLEMENTAL INCOME PLANS

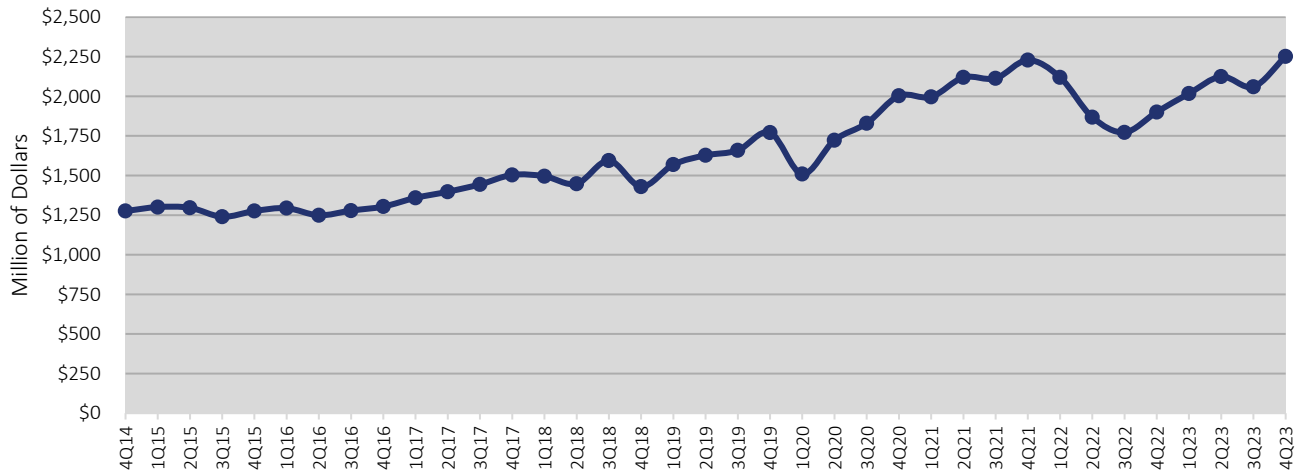
SUPPLEMENTAL INCOME PLANS

Period Ended December 31, 2023

GROWTH IN ASSETS – SUPPLEMENTAL CONTRIBUTION PLAN ¹⁷



GROWTH IN ASSETS – 457 PROGRAM



¹⁷ SCP experienced a steep increase in assets during the 1st quarter of 2015. This was due to the termination of the State Peace Officers' and Firefighters' (POFF) Defined Contribution Plan, which took place June 1, 2014. The termination required distributions of participants' money in the POFF DC Plan in accordance with state and federal law, and SCP was designated as the default plan for participants who did not make an affirmative election to take a distribution.

SUPPLEMENTAL CONTRIBUTION PLAN PERFORMANCE

Period Ended December 31, 2023

NET OF FEE PLAN PERFORMANCE RESULTS – SCP						
	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CalPERS Target Income Fund <i>SIP Income Policy</i>	\$ 29.3	7.5% 7.6%	10.5% 10.4%	0.5% 0.4%	5.2% 5.1%	3.6% 3.5%
CalPERS Target 2020 Fund <i>SIP 2020 Policy</i>	\$ 19.7	7.9% 7.9%	12.0% 11.9%	1.4% 1.3%	6.7% 6.6%	4.2% 4.1%
CalPERS Target 2025 Fund <i>SIP 2025 Policy</i>	\$ 20.4	8.6% 8.7%	14.2% 14.1%	2.4% 2.4%	8.0% 7.8%	5.0% 4.9%
CalPERS Target 2030 Fund <i>SIP 2030 Policy</i>	\$ 16.5	9.2% 9.2%	16.0% 15.9%	3.4% 3.3%	9.1% 9.0%	5.6% 5.5%
CalPERS Target 2035 Fund <i>SIP 2035 Policy</i>	\$ 9.0	9.8% 9.9%	18.3% 18.1%	4.4% 4.3%	10.3% 10.2%	6.3% 6.2%
CalPERS Target 2040 Fund <i>SIP 2040 Policy</i>	\$ 4.9	10.5% 10.5%	20.3% 20.2%	5.3% 5.2%	11.2% 11.1%	7.0% 6.8%
CalPERS Target 2045 Fund <i>SIP 2045 Policy</i>	\$ 1.2	10.8% 10.8%	20.8% 20.7%	5.5% 5.4%	11.3% 11.2%	7.3% 7.2%
CalPERS Target 2050 Fund <i>SIP 2050 Policy</i>	\$ 0.1	10.8% 10.8%	20.8% 20.7%	5.5% 5.4%	11.3% 11.2%	7.3% 7.2%
CalPERS Target 2055 Fund <i>SIP 2055 Policy</i>	\$ 0.1	10.8% 10.8%	20.8% 20.7%	5.5% 5.4%	11.3% 11.2%	--% --%
CalPERS Target 2060 Fund <i>SIP 2060 Policy</i>	\$ 0.0	10.8% 10.8%	20.8% 20.7%	--% --%	--% --%	--% --%
CalPERS Target 2065 Fund <i>SIP 2065 Policy</i>	\$ 0.0	--% --%	--% --%	--% --%	--% --%	--% --%
SSgA Russell All Cap Index SL <i>Russell 3000</i>	\$ 6.3	12.1% 12.1%	26.0% 26.0%	8.6% 8.5%	15.2% 15.2%	11.5% 11.5%
SSgA Global All Cap ex-US SL <i>MSCI ACWI ex-US IMI (N)</i>	\$ 0.7	9.8% 9.8%	15.9% 15.6%	1.8% 1.5%	7.5% 7.2%	4.2% 4.0%
SSgA US Bond Index SL <i>Bloomberg US Aggregate Bond</i>	\$ 0.5	6.7% 6.8%	5.6% 5.5%	-3.4% -3.3%	1.1% 1.1%	1.8% 1.8%
SSgA US Short Term Bond <i>Bloomberg US Gov/Credit</i>	\$ 0.3	2.7% 2.7%	4.7% 4.6%	0.1% 0.1%	1.5% 1.5%	1.2% 1.3%
SSgA Real Asset NL <i>Real Assets Blended Index</i>	\$ 0.3	3.7% 3.7%	1.0% 1.1%	8.0% 8.1%	8.1% 8.1%	3.7% 3.8%
SSgA STIF <i>ICE BofA US 3-Month T-Bill Index</i>	\$ 1.9	1.4% 1.4%	5.4% 5.0%	2.4% 2.2%	2.0% 1.9%	--% --%
SCP AGGREGATE	\$ 111.2					

457 PROGRAM PERFORMANCE

Period Ended December 31, 2023

NET OF FEE PLAN PERFORMANCE RESULTS – 457

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
CalPERS Target Income Fund	\$ 156.7	7.5%	10.5%	0.5%	5.2%	3.6%
<i>SIP Income Policy</i>		7.6%	10.4%	0.4%	5.1%	3.5%
CalPERS Target 2020 Fund	\$ 145.4	7.9%	12.0%	1.4%	6.7%	4.2%
<i>SIP 2020 Policy</i>		7.9%	11.9%	1.3%	6.6%	4.1%
CalPERS Target 2025 Fund	\$ 207.1	8.6%	14.2%	2.4%	8.0%	5.0%
<i>SIP 2025 Policy</i>		8.7%	14.1%	2.4%	7.8%	4.9%
CalPERS Target 2030 Fund	\$ 222.5	9.2%	16.0%	3.4%	9.1%	5.6%
<i>SIP 2030 Policy</i>		9.2%	15.9%	3.3%	9.0%	5.5%
CalPERS Target 2035 Fund	\$ 157.8	9.8%	18.3%	4.4%	10.3%	6.3%
<i>SIP 2035 Policy</i>		9.9%	18.1%	4.3%	10.2%	6.2%
CalPERS Target 2040 Fund	\$ 152.7	10.5%	20.3%	5.3%	11.2%	7.0%
<i>SIP 2040 Policy</i>		10.5%	20.2%	5.2%	11.1%	6.8%
CalPERS Target 2045 Fund	\$ 93.5	10.8%	20.8%	5.5%	11.3%	7.3%
<i>SIP 2045 Policy</i>		10.8%	20.7%	5.4%	11.2%	7.2%
CalPERS Target 2050 Fund	\$ 60.1	10.8%	20.8%	5.5%	11.3%	7.3%
<i>SIP 2050 Policy</i>		10.8%	20.7%	5.4%	11.2%	7.2%
CalPERS Target 2055 Fund	\$ 23.6	10.8%	20.8%	5.5%	11.3%	7.3%
<i>SIP 2055 Policy</i>		10.8%	20.7%	5.4%	11.2%	7.2%
CalPERS Target 2060 Fund	\$ 11.4	10.8%	20.8%	5.5%	11.3%	-.%
<i>SIP 2060 Policy</i>		10.8%	20.7%	5.4%	11.2%	-.%
CalPERS Target 2065 Fund	\$ 2.1	10.8%	20.8%	-.%	-.%	-.%
<i>SIP 2065 Policy</i>		10.8%	20.7%	-.%	-.%	-.%
SSgA Russell All Cap Index SL	\$ 717.9	12.1%	26.0%	8.6%	15.2%	11.5%
<i>Russell 3000</i>		12.1%	26.0%	8.5%	15.2%	11.5%
SSgA Global All Cap ex-US SL	\$ 74.0	9.8%	15.9%	1.8%	7.4%	4.2%
<i>MSCI ACWI ex-US IMI (N)</i>		9.8%	15.6%	1.5%	7.2%	4.0%
SSgA US Bond Index SL	\$ 53.6	6.7%	5.6%	-3.4%	1.1%	1.8%
<i>Bloomberg US Aggregate Bond</i>		6.8%	5.5%	-3.3%	1.1%	1.8%
SSgA US Short Term Bond	\$ 38.0	2.7%	4.7%	0.1%	1.5%	1.2%
<i>Bloomberg US Gov/Credit</i>		2.7%	4.6%	0.1%	1.5%	1.3%
SSgA Real Asset NL	\$ 17.7	3.7%	1.0%	8.0%	8.1%	3.8%
<i>Real Assets Blended Index</i>		3.7%	1.1%	8.1%	8.1%	3.8%
SSgA STIF	\$ 118.1	1.4%	5.4%	2.4%	2.0%	-.%
<i>ICE BofA US 3-Month T-Bill Index</i>		1.4%	5.0%	2.2%	1.9%	-.%
457 AGGREGATE	\$ 2,252.3					

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