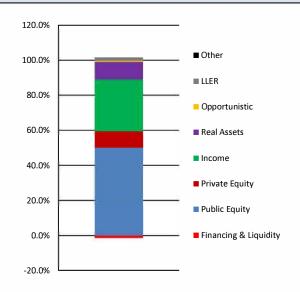
CalPERS Trust Level Quarterly Update - Performance & Risk



Public Employees' Retirement Fund (PERF) As of September 30, 2021

Asset Allocation

	1	nding Asset lue (bil)	Current Allocation (%)	Policy Target Weight (%)	Policy Variance (%)	Policy Range
Public Equity ¹	\$	241.1	50.2%	50.0%	0.2%	± 7%
Private Equity ²	\$	44.0	9.2%	8.0%	1.2%	± 4%
Income ¹	\$	142.0	29.6%	28.0%	1.6%	± 6%
Real Assets ²	\$	48.5	10.1%	13.0%	(2.9%)	± 5%
Total Fund	\$	11.2	2.3%			
Opportunistic ²	\$	3.2	0.7%			
LLER ³	\$	7.8	1.6%			
Other	\$	0.2	0.0%			
Financing & Liquidity	\$	(7.0)	(1.5%)			
Trust Level Financing⁴	\$	(14.8)	(3.1%)			
Liquidity⁴	\$	7.8	1.6%	1.0%	0.6%	-6% to +3%
Total PERF	\$	479.8	100.0%	100.0%		



TAP	\$ 0.2
PERF Plus TAP	\$ 480.0

Performance Summary

	Ē	inding		10-Yr			5-Yr			3-Yr			1-Yr			FYTD		5-Yr Realized
Performance Summary		Asset lue (bil)	Total Return	BM Return	Excess Bps	Total Return	BM Return	Excess Bps	Total Return	BM Return	Excess Bps	Total Return	BM Return	Excess Bps	Total Return	BM Return	Excess Bps	Information Ratio ⁵
Public Equity	\$	241.1	12.2%	12.1%	12	12.8%	12.8%	(2)	11.5%	11.4%	11	26.2%	25.9%	32	(0.7%)	(0.7%)	(0)	-
Cap Wtd. ¹	\$	169.2	12.7%	12.6%	12	13.7%	13.7%	(2)	13.0%	12.9%	11	29.9%	29.5%	44	(1.0%)	(1.0%)	1	(0.1)
Factor Wtd.	\$	71.9	-	-	-	-	-	-	8.6%	8.6%	3	17.0%	16.9%	11	0.2%	0.3%	(1)	-
Private Equity ²	\$	44.0	12.6%	14.2%	(153)	16.0%	17.5%	(143)	15.9%	16.6%	(69)	45.1%	43.6%	144	10.2%	7.6%	259	-
Income	\$	142.0	4.5%	3.8%	68	4.2%	3.7%	46	7.4%	7.1%	39	(1.3%)	(1.8%)	50	0.3%	0.2%	8	-
Long Spread	\$	72.4	323	5	=	-	5	=	7.0%	6.3%	69	1.7%	1.2%	54	0.2%	0.0%	15	2.7
Long Treasury ¹	\$	48.0	3.5%	3.6%	(6)	3.0%	3.1%	(4)	7.5%	7.6%	(14)	(8.5%)	(8.5%)	9	0.3%	0.3%	(0)	-
Total Fund Income	\$	7.1	323	2	-	-	2	<u>=</u>	-	-	523	(5.0%)	(8.5%)	353	0.3%	0.3%	(4)	-
High Yield	\$	14.5	1,41	4	-	-	4	-	6.2%	6.1%	10	9.5%	9.3%	13	0.8%	0.8%	(1)	-
Real Assets ²	\$	48.5	8.4%	8.1%	22	5.9%	5.4%	46	5.0%	4.5%	50	9.4%	6.9%	251	4.8%	3.6%	119	-
Total Fund	\$	11.2																
Opportunistic ²	\$	3.2	(2)	50	R	-	50	n	-	-	374	14.2%	7.0%	720	2.7%	1.7%	98	-
LLER ³	\$	7.8	923	2	-	2.9%	0.9%	198	2.7%	0.8%	189	2.8%	0.1%	275	0.4%	0.0%	40	-
Other	\$	0.2	943	2	~	-	2	×	-	-	943	646	-	-	-	-	- 2	-
Financing & Liquidity	\$	(7.0)																
Trust Level Financing ⁴	\$	(14.8)	77 2 3		×	-	-	=	-	-	777	2=0	-	-	(0.1%)	(0.1%)	(0)	-
Liquidity ⁴	\$	7.8	0.9%	0.9%	(2)	1.3%	1.0%	29	1.2%	1.0%	24	0.1%	0.0%	6	0.0%	0.0%	2	-
Total PERF	\$	479.8	9.5%	9.4%	5	9.8%	9.8%	(2)	10.2%	10.2%	(4)	17.2%	16.4%	79	1.1%	0.7%	38	-
															91			
TAP	\$	0.2	2.72	- 7		5.0%	77.	7.	9.1%		9.70	0.2%	-	7.77	1.3%	12	- 5:	-

¹ Asset value of Public Equity Cap Weighted and Income Treasury segments includes notional exposure obtained via trust level Synthetic Cap Weighted and Synthetic Treasury portfolios respectively.

² Market exposure of private asset classes reported at NAV.

³ Low Liquidity Enhanced Return (LLER) was historically funded out of Cap Weighted and Treasury so returns are also reflected in the returns of Cap Weighted and Long Treasury through 12/21/2020; but are only recorded once in Total PERF returns. Returns prior to 12/21/2020 are for reference only.

⁴ Liquidity reflects net asset value of the Liquidity Segment. Trust Level Financing reflects derivatives financing and repo borrowing in trust level Synthetic Cap Weighted and Synthetic Treasury portfolios.

⁵ Information Ratio is excess return divided by realized tracking error. This presents a perspective on risk adjusted performance. The metric is not meaningful for illiquid assets (where realized volatility tends to be muted by valuation based pricing and benchmark issues) or for indexed strategies. Information Ratio for Long Spread segment includes the history of Global Fixed Income portfolios prior to July 2018. Long Treasury and High Yield portfolios are managed in an index-like approach without an active return target.

^{*} All performance reported net of investment expenses.

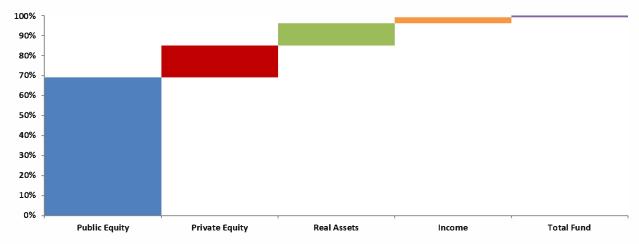
Public Employees' Retirement Fund (PERF)

Total PERF Risk

Risk Measure	9/30/2021	7/1/2021	Explanation of Risk Measures:
Forecasted Volatility ¹ Portfolio Benchmark	10.6% 10.2%	10.7% 10.4%	The total (absolute) volatility is the annualized standard deviation of the Portfolio total return distribution and is indicative of the plan's dispersion given the current environment. The metric is model-based and could underestimate potential drawdowns.
Forecasted Tracking Error (To Portfolio	otal Fund) ¹ 1.30%	1.16%	Forecasted tracking error is the annualized standard deviation of the differential return between the portfolio and an equal investment in the benchmark.
Forecasted Tracking Error (Ad Portfolio	ctionable) ¹ 0.19%	0.13%	Excludes from the above measure the effect of active exposure from private asset classes (Private Equity and Real Assets) arising from the modeling challenges and the non-investible nature of their benchmarks. This metric focuses on controllable and measurable active exposures and captures all public markets strategies and asset allocation management.

eptember 30, 2021	Volatil	ity	Tracking	Error
Asset Class	Annualized Forecasted (%) ¹	5-Year Realized (%) ²	Annualized Forecasted (%) ¹	5 -Year Realized (%)
Public Equity	15.1	14.0	0.2	0.2
Cap Weighted	16.5	15.0	0.1	0.3
Factor Weighted	11.9	-	0.0	-
Income	7.3	5.6	0.8	0.4
Long Spread	4.9	-	0.4	₹ <u>7</u>
Long Treasury	11.1	9.0	0.2	0.5
Total Fund Income	11.3	-	0.6	\(\varphi\)
High Yield	5.6	-	0.1	2
Total Fund	N/A	-	N/A	-
Opportunistic	8.3	-	8.3	-
LLER	3.7	2.8	3.7	2.8
Liquidity	0.2	0.3	0.2	0.1
Trust Level Financing ³	N/A	-	N/A	*
Other	N/A	-	N/A	=
Total PERF Actionable			0.19	0.24
Private Equity	21.7	9.5	12.9	11.7
Real Assets	15.3	3.0	3.3	2.2
Total PERF	10.6	7.4	1.30	1.33

Contribution to Forecasted Volatility



 $^{^{\}rm 1}\,{\rm Forecasted}$ Volatility and Tracking Error are based on Barra MAC.XL model.

² Realized Volatility and Tracking Error for private asset classes are computed from quarterly net returns.

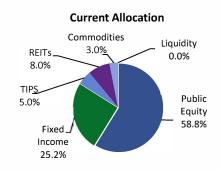
³ Trust Level Financing reflects derivatives financing and repo borrowing in trust level Synthetic Cap Weighted and Synthetic Treasury portfolios.

CERBT Strategy 1 Fund (CERBT 1) & CERBT Strategy 2 Fund (CERBT 2)

As of September 30, 2021

Asset Allocation, Performance & Realized Risk Summary - CERBT 1

Asset Allocation	Ending Asset Value (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 7,741.7	58.8%	59.0%	(0.2%)	± 5%
Fixed Income	\$ 3,310.7	25.2%	25.0%	0.2%	± 5%
TIPS	\$ 661.4	5.0%	5.0%	0.0%	± 3%
REITs	\$ 1,047.2	8.0%	8.0%	(0.0%)	± 5%
Commodities	\$ 398.7	3.0%	3.0%	0.0%	± 3%
Liquidity	\$ 2.6	0.0%	0.0%	0.0%	+ 2%
Total CERBT 1	\$ 13,162.1	100.0%	100.0%	0.0%	



	10-Yr			5-Yr			3-Yr			1-Yr			FYTD		
Performance Summary ²	Total Return	BM Return	Excess Bps		BM Return	Excess Bps									
Public Equity	12.4%	12.1%	29	13.4%	13.1%	33	12.7%	12.4%	30	29.2%	28.9%	27	(1.1%)	(1.1%)	5
Fixed Income	4.7%	4.1%	59	3.9%	3.7%	26	7.1%	7.1%	5	(2.8%)	(2.8%)	1	0.1%	0.1%	(3)
TIPS	3.1%	3.1%	(3)	4.3%	4.3%	0	7.4%	7.4%	(3)	5.2%	5.2%	(O)	1.8%	1.8%	1
REITs	8.9%	8.2%	72	5.4%	4.4%	92	7.3%	6.4%	93	30.8%	29.6%	114	(0.7%)	(0.9%)	21
Commodities		-	310	3.8%	3.6%	11	(1.4%)	(1.5%)	6	58.1%	58.3%	(22)	5.2%	5.2%	(6)
Total CERBT 1	9.7%	9.4%	30	10.0%	9.7%	32	11.0%	10.7%	24	20.3%	20.2%	18	(0.4%)	(0.5%)	4

5-Yr Realized Volatility:

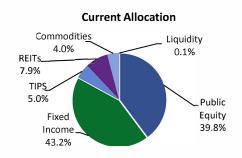
10.5%

5-Yr Realized Tracking Error:

0.1%

Asset Allocation, Performance & Realized Risk Summary - CERBT 2

Asset Allocation	Ending Asset lue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 756.7	39.8%	40.0%	(0.2%)	± 5%
Fixed Income	\$ 821.0	43.2%	43.0%	0.2%	± 5%
TIPS	\$ 95.4	5.0%	5.0%	0.0%	± 3%
REITs	\$ 151.0	7.9%	8.0%	(0.1%)	± 5%
Commodities	\$ 76.7	4.0%	4.0%	0.0%	± 3%
Liquidity	\$ 1.0	0.1%	0.0%	0.1%	+ 2%
Total CERBT 2	\$ 1,901.8	100.0%	100.0%	0.0%	



10-Yr			5-Yr			3-Yr			1-Yr			FYTD			
Performance	Total	BM	Excess	Total	ВМ	Excess	Total	BM	Excess	Total	BM	Excess	Total	ВМ	Excess
Summary ²	Return	Return	Bps												
Public Equity	12.3%	12.0%	28	13.4%	13.1%	32	12.7%	12.4%	28	29.2%	28.9%	27	(1.1%)	(1.1%)	5
Fixed Income	4.7%	4.1%	59	3.9%	3.7%	26	7.1%	7.1%	4	(2.8%)	(2.8%)	1	0.1%	0.1%	(3)
TIPS	3.1%	3.1%	(4)	4.4%	4.3%	2	7.4%	7.4%	(1)	5.2%	5.2%	0	1.8%	1.8%	1
REITs	8.9%	8.2%	71	5.4%	4.4%	92	7.3%	6.4%	91	30.8%	29.6%	111	(0.7%)	(0.9%)	21
Commodities	(4.9%)	(4.8%)	(2)	3.9%	3.6%	24	(1.2%)	(1.5%)	27	58.1%	58.3%	(18)	5.2%	5.2%	(6)
Total CERBT 2	8.2%	7.9%	27	8.4%	8.1%	29	10.0%	9.8%	17	14.7%	14.6%	15	(0.1%)	(0.2%)	2

5-Yr Realized Volatility: 8.2%

5-Yr Realized Tracking Error: 0.1%

 $^{^{\}rm 1}$ Allocations approved by the Board at the May 2018 IC Meeting.

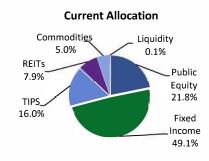
² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance reported net of investment expenses.

CERBT Strategy 3 Fund (CERBT 3) & Legislators' Retirement System Fund (LRF)

As of September 30, 2021

Asset Allocation, Performance & Realized Risk Summary - CERBT 3

Asset Allocation	inding Asset lue (mil)	Current Allocation (%)	Policy Weight	Variance (%)	Policy Range
Public Equity	\$ 182.5	21.8%	22.0%	(0.2%)	± 5%
Fixed Income	\$ 410.4	49.1%	49.0%	0.1%	±5%
TIPS	\$ 133.9	16.0%	16.0%	0.0%	± 3%
REITs	\$ 66.2	7.9%	8.0%	(0.1%)	± 5%
Commodities	\$ 42.0	5.0%	5.0%	0.0%	± 3%
Liquidity	\$ 0.5	0.1%	0.0%	0.1%	+ 2%
Total CERBT 3	\$ 835.5	100.0%	100.0%	0.0%	



10-Yr			5-Yr			3-Yr			1-Yr			FYTD			
Performance Summary ²	Total Return	BM Return	Excess Bps												
Public Equity	-	-	-	13.4%	13.1%	30	12.7%	12.4%	28	29.2%	28.9%	26	(1.1%)	(1.1%)	5
Fixed Income	-	-	-	3.9%	3.7%	24	7.1%	7.1%	4	(2.8%)	(2.8%)	1	0.1%	0.1%	(3)
TIPS	-	-	-	4.3%	4.3%	1	7.4%	7.4%	(1)	5.2%	5.2%	0	1.8%	1.8%	1
REITs	751	-		5.3%	4.4%	88	7.3%	6.4%	94	30.7%	29.6%	109	(0.7%)	(0.9%)	21
Commodities	151	-	-	4.1%	3.6%	46	(1.0%)	(1.5%)	49	58.1%	58.3%	(15)	5.2%	5.2%	(6)
Total CERBT 3	-	-	-	6.7%	6.5%	23	8.9%	8.7%	13	10.4%	10.3%	9	0.3%	0.3%	0

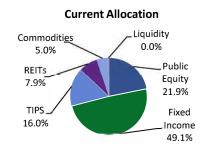
5-Yr Realized Volatility:

6.3%

5-Yr Realized Tracking Error: 0.1%

Asset Allocation, Performance & Realized Risk Summary - LRF

		nding Asset	Current	Policy Weight		Policy
Asset Allocation	Val	ue (mil)	Allocation (%)	(%) ¹	Variance (%)	Range
Public Equity	\$	26.4	21.9%	22.0%	(0.1%)	± 5%
Fixed Income	\$	59.4	49.1%	49.0%	0.1%	± 5%
TIPS	\$	19.4	16.0%	16.0%	0.0%	± 3%
REITs	\$	9.6	7.9%	8.0%	(0.1%)	± 5%
Commodities	\$	6.1	5.0%	5.0%	0.0%	± 3%
Liquidity	\$	0.0	0.0%	0.0%	0.0%	+ 2%
Total LRF	\$	120.8	100.0%	100.0%	0.0%	



1		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance	Total	BM	Excess	Total	ВМ	Excess	Total	ВМ	Excess	Total	BM	Excess	Total	ВМ	Excess
Summary ²	Return	Return	Bps												
Public Equity	12.6%	12.4%	20	13.6%	13.3%	30	12.8%	12.4%	39	29.3%	28.9%	37	(1.1%)	(1.1%)	5
Fixed Income	4.7%	4.1%	58	3.9%	3.7%	24	7.1%	7.1%	2	(2.8%)	(2.8%)	0	0.1%	0.1%	(2)
TIPS	3.1%	3.1%	(2)	4.4%	4.3%	3	7.5%	7.4%	2	5.2%	5.2%	2	1.8%	1.8%	2
REITs	9.3%	9.0%	31	5.6%	5.0%	62	7.3%	6.4%	88	30.8%	29.6%	115	(0.7%)	(0.9%)	21
Commodities	(4.7%)	(4.8%)	12	4.0%	3.6%	37	(1.0%)	(1.5%)	50	58.1%	58.3%	(15)	5.2%	5.2%	(6)
Total LRF	6.9%	6.6%	28	6.8%	6.6%	23	8.9%	8.7%	19	10.5%	10.3%	12	0.3%	0.3%	1

5-Yr Realized Volatility: 6.3%

5-Yr Realized Tracking Error: 0.1%

 $^{^{\}rm 1}$ Allocations approved by the Board at the May 2018 IC Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance reported net of investment expenses.

Judges' Retirement Fund (JRF) & Judges' Retirement System Fund II (JRFII)

As of September 30, 2021

Asset Allocation, Performance & Realized Risk Summary - JRF

Asset Allocation	A	nding Asset ue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Cash	\$	60.8	100.0%	100.0%	0.0%	+ 0%
Total JRF	\$	60.8	100.0%	100.0%	0.0%	





		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance Summary	Total Return	BM Return	Excess Bps		BM Return	Excess Bps									
Cash	0.7%	0.6%	6	1.2%	1.2%	9	1.2%	1.2%	3	0.1%	0.1%	3	0.0%	0.0%	1
Total JRF	0.7%	0.6%	6	1.2%	1.2%	9	1.2%	1.2%	3	0.1%	0.1%	3	0.0%	0.0%	1

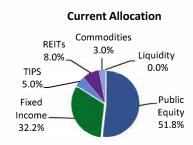
5-Yr Realized Volatility:

0.3%

5-Yr Realized Tracking Error: 0.1%

Asset Allocation, Performance & Realized Risk Summary - JRFII

Asset Allocation	Ending Asset lue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 1,238.4	51.8%	52.0%	(0.2%)	± 5%
Fixed Income	\$ 769.0	32.2%	32.0%	0.2%	± 5%
TIPS	\$ 120.1	5.0%	5.0%	0.0%	± 3%
REITs	\$ 190.1	8.0%	8.0%	(0.0%)	± 5%
Commodities	\$ 72.4	3.0%	3.0%	0.0%	± 3%
Liquidity	\$ 0.0	0.0%	0.0%	0.0%	+ 2%
Total JRF II	\$ 2,390.0	100.0%	100.0%	0.0%	



		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance	Total	BM	Excess	Total	BM	Excess	Total	ВМ	Excess	Total	ВМ	Excess	Total	ВМ	Excess
Summary ²	Return	Return	Bps												
Public Equity	12.6%	12.4%	20	13.6%	13.3%	31	12.8%	12.4%	41	29.3%	28.9%	38	(1.1%)	(1.1%)	5
Fixed Income	4.7%	4.1%	58	3.9%	3.7%	26	7.1%	7.1%	5	(2.8%)	(2.8%)	1	0.1%	0.1%	(3)
TIPS	3.1%	3.1%	(3)	4.4%	4.3%	2	7.4%	7.4%	(1)	5.2%	5.2%	2	1.8%	1.8%	2
REITs	9.3%	9.0%	32	5.6%	5.0%	63	7.3%	6.4%	90	30.8%	29.6%	117	(0.7%)	(0.9%)	21
Commodities	(4.8%)	(4.8%)	1	3.8%	3.6%	13	(1.4%)	(1.5%)	8	58.1%	58.3%	(20)	5.2%	5.2%	(6)
Total JRF II	9.5%	9.2%	26	9.5%	9.2%	32	10.8%	10.4%	31	18.1%	17.9%	25	(0.3%)	(0.4%)	3

5-Yr Realized Volatility: 9.6%

5-Yr Realized Tracking Error: 0.1%

 $^{^{\}rm 1}$ Allocations approved by the Board at the May 2018 IC Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance reported net of investment expenses.

Health Care Fund (HCF) & Long-Term Care Fund (LTCF)

As of September 30, 2021

Asset Allocation, Performance & Realized Risk Summary - HCF

Asset Allocation	1	nding Asset ue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Fixed Income	\$	518.7	100.0%	100.0%	0.0%	+ 0%
Total HCF	\$	518.7	100.0%	100.0%	0.0%	

Current Allocation



		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance Summary	Total Return	BM Return	Excess	Total Return	BM Return	Excess	Total Return	BM Return	Excess	Total Return	BM Return	Excess Bps	Total Return	BM Return	Excess Bps
Fixed Income	3.4%	3.0%	38	3.0%	2.9%	3	5.4%	5.4%	1	(0.9%)	(0.9%)	(4)	0.0%	0.1%	(0)
Total HCF	3.4%	3.0%	38	3.0%	2.9%	3	5.4%	5.4%	1	(0.9%)	(0.9%)	(4)	0.0%	0.1%	(0)

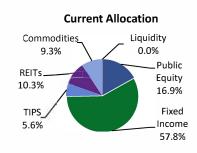
5-Yr Realized Volatility:

3.3%

5-Yr Realized Tracking Error: 0.1%

Asset Allocation, Performance & Realized Risk Summary - LTCF

Asset Allocation	Ending Asset lue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 926.5	16.9%	15.0%	1.9%	± 4%
Fixed Income	\$ 3,166.0	57.8%	60.0%	(2.2%)	± 5%
TIPS	\$ 307.8	5.6%	6.0%	(0.4%)	± 2%
REITs	\$ 566.3	10.3%	11.0%	(0.7%)	± 4%
Commodities	\$ 511.0	9.3%	8.0%	1.3%	± 2%
Liquidity	\$ 0.0	0.0%	0.0%	0.0%	+ 2%
Total LTCF	\$ 5,477.6	100.0%	100.0%	0.0%	



1		10-Yr		5-Yr 3-Yr				1-Yr			FYTD				
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	ВМ	Excess	Total	ВМ	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	12.4%	12.2%	24	13.4%	13.1%	30	12.7%	12.4%	29	29.2%	28.9%	28	(1.1%)	(1.1%)	5
Fixed Income	4.2%	4.1%	13	3.7%	3.7%	4	7.1%	7.1%	4	(2.8%)	(2.8%)	(2)	0.1%	0.1%	(3)
TIPS	3.1%	3.1%	(2)	4.3%	4.3%	(1)	7.4%	7.4%	(2)	5.2%	5.2%	0	1.8%	1.8%	1
REITs	8.9%	8.2%	70	5.3%	4.4%	89	7.3%	6.4%	89	30.7%	29.6%	105	(0.7%)	(0.9%)	21
Commodities	-	-	-	3.6%	3.6%	(6)	(1.4%)	(1.5%)	6	58.1%	58.3%	(20)	5.2%	5.2%	(6)
Total LTCF	6.0%	5.8%	13	5.8%	5.7%	7	8.2%	8.2%	1	10.5%	9.9%	62	0.4%	0.3%	4

5-Yr Realized Volatility: 6.6%

5-Yr Realized Tracking Error: 0.4%

 $^{^{\}rm 1}$ Allocations approved by the Board at the June 2018 IC Meeting.

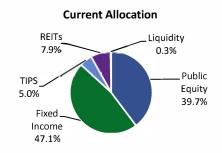
² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance reported net of investment expenses.

CEPPT Strategy 1 Fund (CEPPT 1) & CEPPT Strategy 2 Fund (CEPPT 2)

As of September 30, 2021

Asset Allocation & Performance Summary - CEPPT 1

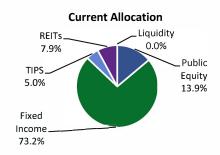
Asset Allocation	A	nding sset se (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$	16.4	39.7%	40.0%	(0.3%)	± 5%
Fixed Income	\$	19.5	47.1%	47.0%	0.1%	±5%
TIPS	\$	2.1	5.0%	5.0%	0.0%	± 3%
REITs	\$	3.3	7.9%	8.0%	(0.1%)	± 5%
Liquidity	\$	0.1	0.3%	0.0%	0.3%	+ 2%
Total CEPPT 1	\$	41.3	100.0%	100.0%	0.0%	



		10-Yr			5-Yr		3-Yr 1-Yr				FYTD				
Performance Summary ²	Total Return	BM Return	Excess Bps												
Public Equity	-	-	-	-	-	-	-	-	-	29.2%	28.9%	24	(1.1%)	(1.1%)	5
Fixed Income	-	-	-	-	-	-	-	-	-	(0.9%)	(0.9%)	(5)	0.0%	0.1%	(1)
TIPS	-	-	-	-	-	-	-	-	-	5.1%	5.2%	(5)	1.8%	1.8%	1
REITs	-	-	- ,	-	-	-			- ,	30.7%	29.6%	104	(0.7%)	(0.9%)	21
Total CEPPT 1	-	-	- 1	-	-	-	-	-	-	13.3%	13.2%	12	(0.4%)	(0.4%)	(0)

Asset Allocation & Performance Summary - CEPPT 2

Asset Allocation	A	ding sset e (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$	2.8	13.9%	14.0%	(0.1%)	± 5%
Fixed Income	\$	14.5	73.2%	73.0%	0.2%	± 5%
TIPS	\$	1.0	5.0%	5.0%	0.0%	± 3%
REITs	\$	1.6	7.9%	8.0%	(0.1%)	± 5%
Liquidity	\$	0.0	0.0%	0.0%	0.0%	+ 2%
Total CEPPT 2	\$	19.8	100.0%	100.0%	0.0%	



	1	10-Yr			5-Yr		3-Yr		1-Yr			FYTD			
Performance	Total	BM	Excess	Total	ВМ	Excess	Total	ВМ	Excess	Total	ВМ	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	: +:	:(+):	×	*	-	>	-	-	-	29.1%	28.9%	23	(1.1%)	(1.1%)	5
Fixed Income	853	350	5:	a	-	25	-	-	-	(0.9%)	(0.9%)	(4)	0.0%	0.1%	(1)
TIPS	170	1/5/	20	5	-	15	-	-	-	5.2%	5.2%	0	1.8%	1.8%	1
REITs	9 5 7	72	<u> </u>	12:	-	22	-	-	-	30.6%	29.6%	100	(0.7%)	(0.9%)	21
Total CEPPT 2	-	-	- 1	-	-	-	-	-	-	5.7%	5.6%	11	(0.1%)	(0.1%)	0

 $^{^{\}rm 1}$ Allocations approved by the Board at the June 2019 IC Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance reported net of investment expenses.

Affiliate Investment Programs Supplemental Income Plans (SIP)

As of September 30, 2021

Asset Allocation - SIP

	Ending Asset	Global Equity		US	US Fixed Income			Real Assets			Cash and Cash Equivalents		
Asset Allocation	Value (mil)	Actual	Policy ¹	Policy Range	Actual	Policy ¹	Policy Range	Actual	Policy ¹	Policy Range	Actual	Policy ¹	Policy Range
Target Income Fund	\$ 121.5	29.7%	30.0%	± 4%	60.2%	60.0%	± 4%	5.1%	5.0%	± 1%	5.0%	5.0%	± 1%
Target 2015 Fund	\$ 97.6	31.7%	32.0%	± 4%	58.2%	58.0%	± 4%	5.1%	5.0%	± 1%	5.0%	5.0%	± 1%
Target 2020 Fund	\$ 183.4	43.6%	44.0%	± 4%	47.2%	47.0%	± 4%	5.1%	5.0%	± 1%	4.0%	4.0%	± 1%
Target 2025 Fund	\$ 226.1	56.6%	57.0%	± 4%	36.3%	36.0%	± 4%	4.1%	4.0%	± 1%	3.0%	3.0%	± 1%
Target 2030 Fund	\$ 213.3	68.7%	69.0%	± 4%	25.2%	25.0%	± 2%	4.1%	4.0%	± 1%	2.0%	2.0%	± 1%
Target 2035 Fund	\$ 133.5	81.8%	82.0%	± 4%	14.1%	14.0%	± 2%	3.1%	3.0%	± 1%	1.0%	1.0%	+ 0.25%
Target 2040 Fund	\$ 125.2	91.9%	92.0%	± 4%	5.1%	5.0%	± 1%	3.1%	3.0%	± 1%	3-3	2	+ 0.25%
Target 2045 Fund	\$ 70.9	91.9%	92.0%	± 4%	5.1%	5.0%	± 1%	3.1%	3.0%	± 1%	223	=	+ 0.25%
Target 2050 Fund	\$ 39.9	91.9%	92.0%	± 4%	5.1%	5.0%	± 1%	3.1%	3.0%	± 1%	-	-	+ 0.25%
Target 2055 Fund	\$ 14.5	91.9%	92.0%	± 4%	5.1%	5.0%	± 1%	3.1%	3.0%	± 1%	7-7	-	+ 0.25%
Target 2060 Fund	\$ 7.9	91.9%	92.0%	± 4%	5.1%	5.0%	± 1%	3.1%	3.0%	± 1%	-		+ 0.25%
SSgA STIF	\$ 109.3	150	5	3	er.	100	-	5	170	178	100.0%	100.0%	=
SIP US ST Bond Core	\$ 39.0	-	8	*	100.0%	100.0%	æ	×	393	(+):	100	-	-
SIP US Bond Core	\$ 63.8	2	¥	9	100.0%	100.0%	16	2		:45	7-0	-	=
SIP Real Asset Core	\$ 12.9	4	3	9	12	-	5	100.0%	100.0%	3	(4)	-	
SIP Russell All Cap Core	\$ 701.7	100.0%	100.0%	all a	<u> </u>	3.50	ā	.5	(3 9)	3 0		-	-
SIP Glbl All Cap EX-US	\$ 75.6	100.0%	100.0%	95	15	:51	æ		170	≥ 4 8	0.00	=	=

Performance Summary - SIP

		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance	Total	BM	Excess												
Summary	Return ²	Return	Bps												
Target Income Fund	5.6%	5.5%	19	6.0%	5.9%	13	8.2%	8.0%	16	9.0%	9.1%	(11)	(0.3%)	(0.2%)	(6)
Target 2015 Fund	6.5%	6.4%	11	6.1%	5.9%	13	8.3%	8.1%	16	9.5%	9.7%	(11)	(0.3%)	(0.2%)	(7)
Target 2020 Fund	7.4%	7.2%	13	7.0%	6.8%	14	9.3%	9.1%	19	13.1%	13.2%	(14)	(0.5%)	(0.4%)	(9)
Target 2025 Fund	8.5%	8.4%	13	8.3%	8.2%	15	10.2%	10.0%	20	16.6%	16.8%	(16)	(0.7%)	(0.6%)	(11)
Target 2030 Fund	9.4%	9.3%	9	9.3%	9.2%	7	10.8%	10.7%	8	20.3%	20.5%	(19)	(0.8%)	(0.7%)	(13)
Target 2035 Fund	10.3%	10.3%	7	10.4%	10.3%	9	11.6%	11.5%	10	24.0%	24.2%	(21)	(1.0%)	(0.9%)	(15)
Target 2040 Fund	11.0%	11.0%	7	11.4%	11.4%	7	12.2%	12.2%	7	27.1%	27.4%	(24)	(1.2%)	(1.0%)	(16)
Target 2045 Fund	11.3%	11.3%	6	12.0%	11.9%	7	12.2%	12.2%	7	27.1%	27.4%	(24)	(1.2%)	(1.0%)	(16)
Target 2050 Fund	11.3%	11.3%	5	12.0%	11.9%	7	12.2%	12.2%	7	27.1%	27.4%	(24)	(1.2%)	(1.0%)	(16)
Target 2055 Fund	- 5	-	45	12.0%	11.9%	7	12.2%	12.2%	7	27.1%	27.4%	(24)	(1.2%)	(1.0%)	(16)
Target 2060 Fund	12	-	22	-	/21	26	72	-	-	27.1%	27.4%	(24)	(1.2%)	(1.0%)	(16)
SSgA STIF	0.7%	0.6%	9	1.3%	1.2%	15	1.2%	1.2%	5	0.1%	0.1%	3	0.0%	0.0%	0
SIP US ST Bond Core	×	-	~	1.8%	1.9%	(8)	2.8%	2.9%	(6)	0.2%	0.3%	(8)	0.1%	0.1%	(2)
SIP US Bond Core		-	35	3.0%	2.9%	3	5.4%	5.4%	3	(0.9%)	(0.9%)	(5)	0.0%	0.1%	(1)
SIP Real Asset Core	-	-		6.5%	6.5%	3	7.9%	7.8%	9	28.4%	28.8%	(40)	1.9%	2.1%	(13)
SIP Russell All Cap Core	81	-	42	16.8%	16.9%	(1)	16.0%	16.0%	1	32.0%	31.9%	8	(0.1%)	(0.1%)	2
SIP Glbl All Cap EX-US	- 5-		- 1	9.2%	9.1%	11	8.4%	8.3%	5	24.5%	25.2%	(67)	(3.0%)	(2.6%)	(43)

 $^{^{\}rm 1}$ Allocations approved by the Board at the April 2018 IC Meeting.

 $^{^2}$ Performance is net of the average investment management fees & expenses incurred by the 457/SCP plans.

Affiliate Investment Programs Supplemental Income Plans (SIP)

As of September 30, 2021

Realized Risk - SIP

Realized Risk	Annualized 5-Yr Realized Volatility	Tracking Error ¹
Target Income Fund	5.2%	0.2%
Target 2015 Fund	5.8%	0.2%
Target 2020 Fund	7.4%	0.2%
Target 2025 Fund	9.1%	0.2%
Target 2030 Fund	11.0%	0.1%
Target 2035 Fund	12.7%	0.2%
Target 2040 Fund	13.9%	0.2%
Target 2045 Fund	14.0%	0.2%
Target 2050 Fund	14.0%	0.2%
Target 2055 Fund	14.0%	0.2%
Target 2060 Fund	2	2
SSgA STIF	0.3%	0.1%
SIP US ST Bond Core	0.9%	0.0%
SIP US Bond Core	3.3%	0.1%
SIP Real Asset Core	10.5%	0.3%
SIP Russell All Cap Core	15.8%	0.1%
SIP Glbl All Cap EX-US	15.1%	0.4%

 $^{^{1}}$ Due to the impact of Fair Value Pricing adjustment, the tracking error is based on a rolling 12 month calculation.

CalPERS Trust Level Trust Level Benchmarks As of September 30, 2021

Public Employees' Retirement Fund and Affiliate Investment Programs Policy Benchmarks

Trust	Asset Class	Policy Benchmark					
11431	Public Equity - Cap Weighted	CalPERS Custom FTSE Global Benchmark					
	Public Equity - Factor Weighted	MSCI ACWI Select Factor Weighted Index					
	Private Equity	CalPERS Custom FTSE Global Benchmark + 150 bps, Quarter Lag					
	Income - Long Spread	Custom Bloomberg Long Spread					
Public Employees' Retirement Fund]						
	Income - Long Treasury	Custom Bloomberg Long Government					
	Income - High Yield	Custom Bloomberg High Yield					
	Real Assets	MSCI/PREA U.S. ACOE Quarterly Property Fund Index (Unfrozen)					
	Liquidity	30-day Treasury Bill					
Judges' Retirement System Fund	Cash	91-day Treasury Bill					
	Global Equity	MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
Judges' Retirement System II Fund	TIPS	Bloomberg U.S. TIPS Index, Series L					
	Commodities	S&P GSCI Total Return Daily					
	REITs	FTSE EPRA/NAREIT Developed Index					
	Global Equity	MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
Legislators' Retirement System Fund	TIPS	Bloomberg U.S. TIPS Index, Series L					
,	Commodities	S&P GSCI Total Return Daily					
	REITS	FTSE EPRA/NAREIT Developed Index					
Public Employees' Health Care Fund	U.S. Fixed Income	Bloomberg U.S. Aggregate Bond Index					
r abite Employees Treatm care raina	Global Equity	MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
Long-Term Care Fund	TIPS	Bloomberg U.S. TIPS Index, Series L					
Long-Term care runu	Commodities	,					
	REITs	S&P GSCI Total Return Daily					
		FTSE EPRA/NAREIT Developed Index					
	Global Equity U.S. Fixed Income	MSCI ACWI IMI (Net) Bloomberg Long Liability Index					
California Employers' Retiree Benefit Trust	TIPS	Bloomberg U.S. TIPS Index, Series L					
(CERBT) Funds 1, 2 & 3	Commodities	S&P GSCI Total Return Daily					
	REITS	FTSE EPRA/NAREIT Developed Index					
	Global Equity	MSCI ACWI IMI (Net)					
California Employers' Pension Prefunding	U.S. Fixed Income	Bloomberg U.S. Aggregate Bond Index					
Trust (CEPPT) Funds 1 & 2	TIPS	Bloomberg U.S. TIPS Index, Series L					
	REITs	FTSE EPRA/NAREIT Developed Index					

CalPERS Trust Level Trust Level Benchmarks As of September 30, 2021

Supplemental Income Plans Policy Benchmarks

		Po	olicy Weights				
	Global Equity	US Equity	Int'l Equity	US Inc	ome	Real Assets	Cash & Cash Equivalents
Supplemental Income Plans	Russell 3000 / MSCI ACWI ex US	Russell 3000	MSCI ACWI ex US IMI Index (Net)	Bloomberg U.S. Aggregate Bond Index	Bloomberg U.S. 1-3 Year Govt/Credit Bond Index	SSGA Real Asset	BofA Merrill Lynch 3- Month Treasury Bill Index
Target Income Fund	30.0%	17.0%	13.0%	60.0%	The C	5.0%	5.0%
Target 2015 Fund	32.0%	18.0%	14.0%	58.0%	(+)	5.0%	5.0%
Target 2020 Fund	44.0%	25.0%	19.0%	47.0%	I.P.	5.0%	4.0%
Target 2025 Fund	57.0%	32.0%	25.0%	36.0%	· ·	4.0%	3.0%
Target 2030 Fund	69.0%	39.0%	30.0%	25.0%	i e	4.0%	2.0%
Target 2035 Fund	82.0%	47.0%	35.0%	14.0%	(6)	3.0%	1.0%
Target 2040 Fund	92.0%	52.0%	40.0%	5.0%	I E	3.0%	0.0%
Target 2045 Fund	92.0%	52.0%	40.0%	5.0%	(£	3.0%	0.0%
Target 2050 Fund	92.0%	52.0%	40.0%	5.0%	15	3.0%	0.0%
Target 2055 Fund	92.0%	52.0%	40.0%	5.0%	(6)	3.0%	0.0%
Target 2060 Fund	92.0%	52.0%	40.0%	5.0%	i e	3.0%	0.0%
SSgA STIF	3	3	Œ	ë	(8)	19	100.0%
SIP US ST Bond Core	ā	(E)	0.59	ž.	100.0%	97	ā
SIP US Bond Core		197	X -0 3	100.0%	(-)		
SIP Real Asset Core	÷	(4)	76	*	5.41	100.0%	
SIP Russell All Cap Core	100.0%	100.0%). P(28)	22	19	Œ	Ę
SIP Global All Cap ex US	100.0%	3	100.0%	9	(4)	22	3