CalPERS Trust Level Monthly Update - Performance & Risk



Public Employees Retirement Fund (PERF)

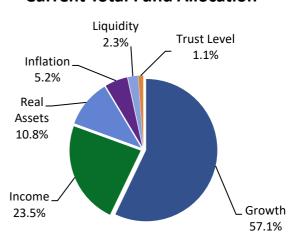
As of August 31, 2018

Asset Allocation

Asset Allocation	EMV (bil)	Current Allocation (%)	Interim Policy Weight (%) ¹	Variance (%)
Growth	\$ 206.2	57.1%	57.0%	0.1%
Public Equity	\$ 178.6	49.5%	49.0%	0.5%
Private Equity	\$ 27.6	7.7%	8.0%	(0.3%)
Income	\$ 84.7	23.5%	23.0%	0.5%
Real Assets	\$ 39.2	10.8%	12.0%	(1.2%)
Real Estate	\$ 33.4	9.3%	10.0%	(0.7%)
Infrastructure	\$ 4.4	1.2%	1.0%	0.2%
Forestland	\$ 1.4	0.4%	1.0%	(0.6%)
Inflation	\$ 18.6	5.2%	5.7%	(0.5%)
Liquidity	\$ 8.4	2.3%	2.3%	0.0%
Trust Level ²	\$ 4.0	1.1%	-	1.1%
Total Fund	\$ 361.1	100.0%	100.0%	0.0%

Total Talia	7	301.1	
TAP ³	٦٨		1
IAP	\$	0.1	
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Current Total Fund Allocation



Performance Summary

		FYTD			1-Yr			3-Yr			5-Yr			10-Yr		5-Yr Realized
Performance Summary	Net Return	BM Return	Excess Bps	Infomation Ratio ⁴												
Growth	NM	NM	NM	12.7%	13.5%	(83)	12.3%	12.6%	(36)	10.6%	11.1%	(45)	7.7%	8.8%	(112)	-
Public Equity	3.9%	3.9%	(6)	12.2%	12.7%	(47)	12.6%	12.6%	2	10.4%	10.4%	2	7.4%	7.7%	(25)	0.1
Private Equity	NM	NM	NM	15.2%	17.4%	(215)	10.5%	12.1%	(166)	11.8%	13.9%	(207)	9.5%	13.6%	(405)	-
Income	0.7%	0.6%	2	(1.1%)	(1.5%)	40	3.3%	2.7%	58	4.1%	3.4%	72	5.9%	4.9%	102	1.2
Real Assets	NM	NM	NM	6.4%	6.7%	(36)	7.2%	8.3%	(105)	9.5%	9.6%	(17)	(0.5%)	6.3%	(681)	-
Real Estate	NM	NM	NM	5.7%	7.1%	(138)	7.4%	9.0%	(160)	9.9%	10.4%	(52)	(0.9%)	7.1%	(798)	-
Infrastructure	NM	NM	NM	18.2%	5.4%	1,284	13.4%	5.4%	798	15.2%	5.3%	991	14.5%	5.7%	890	-
Forestland	NM	NM	NM	(10.0%)	3.8%	(1,375)	(6.4%)	3.4%	(979)	(3.4%)	6.1%	(954)	(2.3%)	4.1%	(636)	-
Inflation	(0.8%)	(0.9%)	3	5.4%	5.2%	13	2.0%	1.8%	24	(0.9%)	(1.4%)	53	(0.7%)	(0.5%)	(20)	0.7
Liquidity	0.4%	0.3%	10	1.9%	1.4%	42	1.1%	0.8%	30	1.0%	1.1%	(13)	1.0%	1.1%	(11)	-
Trust Level ²	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Fund	2.3%	2.2%	4	8.1%	8.4%	(31)	8.7%	8.8%	(13)	8.1%	8.2%	(8)	6.0%	7.1%	(106)	-

¹ Interim policy weight implemented as part of transition to strategic policy targets.

² Trust Level includes Multi Asset Class, Completion Overlay, Risk Mitigation, Absolute Return Strategies, Plan Level Transition and other Total Fund level portfolios

³ Terminated Agency Pool (TAP) funded in July 2013 and exists to provide benefit payments to members who are employees of agencies that have terminated their contract with CalPERS

⁴ 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.

Public Employees Retirement Fund (PERF)

As of August 31, 2018

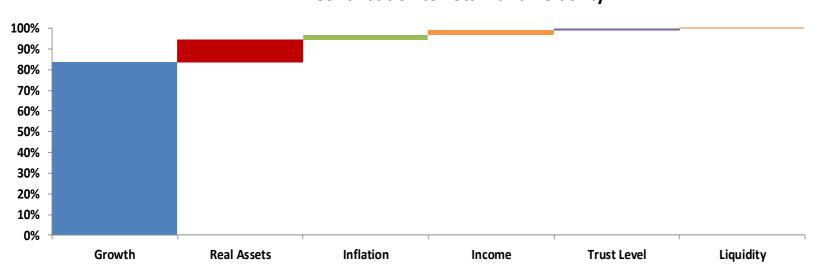
Total Fund Risk

Risk Measure	8/31/2018	7/31/2018	Explanation of Risk Measures:
Forecast Volatility			The total (absolute) volatility is the annualized standard deviation of the
Portfolio	7.3%	7.4%	PERF's total return distribution and is indicative of the plan's short-term
Benchmark	7.1%	7.3%	return dispersion given the current environment. The metric is model-based and could underestimate potential drawdowns.
Forecast Tracking E	rror		Forecast tracking error is the annualized standard deviation of the
Portfolio	0.5%	0.5%	differential return between the portfolio and an equal investment in the benchmark.

	Portfolio	Volatility	Tracking	g Error
August 31, 2018	Projected	Realized	Projected	Realized
Asset Class	Annualized Projected Volatility (%)	5-Year Realized Volatility (%) ¹	Annualized Projected Tracking Error (%)	5-Year Realized Tracking Error (%) ¹
Growth	11.0%	8.5%	0.6%	1.8%
Public Equity	10.8%	9.9%	0.2%	0.3%
Private Equity	14.3%	4.0%	3.6%	6.3%
Income	5.0%	4.4%	0.2%	0.6%
Real Assets	10.1%	4.2%	3.3%	4.3%
Real Estate	10.9%	4.7%	3.8%	4.9%
Infrastructure	7.1%	5.1%	6.1%	4.7%
Forestland	13.9%	4.4%	13.0%	4.3%
Inflation	6.3%	5.7%	0.2%	0.8%
Liquidity	0.0%	0.8%	0.0%	0.5%
Trust Level	5.8%	-	5.8%	-
Total Fund	7.3%	5.5%	0.5%	1.2%

 $^{^{1}}$ Realized Volatility and Tracking Error for private asset classes are computed from quarterly net returns

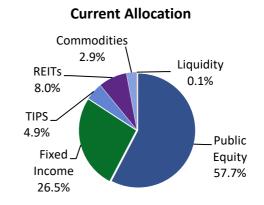
Contribution to Total Fund Volatility



CERBT Strategy 1 Fund (CERBT 1) & CERBT Strategy 2 Fund (CERBT 2) As of August 31, 2018

Asset Allocation, Performance & Realized Risk Summary - CERBT 1

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 4,099.7	57.7%	57%	0.7%	± 2%
Fixed Income	\$ 1,886.2	26.5%	27%	(0.5%)	±2%
TIPS	\$ 347.5	4.9%	5%	(0.1%)	± 2%
REITs	\$ 565.8	8.0%	8%	(0.0%)	± 2%
Commodities	\$ 202.8	2.9%	3%	(0.1%)	± 2%
Liquidity	\$ 6.9	0.1%	0%	0.1%	+2%
Total CERBT 1	\$ 7,108.8	100.0%	100.0%	0.0%	



FYTD					1-Yr		3-Yr			5-Yr			10-Yr		
Performance Summary ²	Net Return	BM Return	Excess Bps												
Public Equity	3.8%	3.7%	5	12.1%	11.8%	30	12.4%	12.0%	41	10.2%	9.8%	38	7.3%	7.1%	20
Fixed Income	0.8%	0.8%	(2)	(0.9%)	(1.4%)	46	3.3%	2.7%	65	4.5%	3.8%	75	6.1%	5.2%	91
TIPS	0.2%	0.2%	1	0.9%	0.8%	7	2.2%	2.2%	2	1.8%	1.9%	(7)	-	-	-
REITs	2.1%	1.6%	43	6.2%	5.2%	109	7.4%	6.5%	93	7.4%	6.5%	84	4.0%	3.3%	72
Commodities	(2.5%)	(2.5%)	4	22.5%	22.2%	26	(0.4%)	(0.3%)	(7)	(11.2%)	(11.3%)	14	-	-	-
Total CERBT 1	2.4%	2.4%	4	7.7%	7.4%	30	8.7%	8.3%	45	7.6%	7.1%	44	6.3%	6.2%	15

5-Yr Realized Volatility:

6.9%

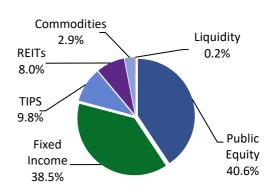
5-Yr Realized Tracking Error:

0.2%

Asset Allocation, Performance & Realized Risk Summary - CERBT 2

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 455.3	40.6%	40%	0.6%	± 2%
Fixed Income	\$ 431.1	38.5%	39%	(0.5%)	± 2%
TIPS	\$ 110.0	9.8%	10%	(0.2%)	± 2%
REITs	\$ 89.5	8.0%	8%	(0.0%)	± 2%
Commodities	\$ 32.1	2.9%	3%	(0.1%)	± 2%
Liquidity	\$ 2.3	0.2%	0%	0.2%	+2%
Total CERBT 2	\$ 1,120.4	100.0%	100.0%	0.0%	

Current Allocation



	FYTD				1-Yr			3-Yr			5-Yr			10-Yr		
Performance Summary ²	Net Return	BM Return	Excess Bps													
Public Equity	3.8%	3.7%	5	12.1%	11.8%	32	12.4%	12.0%	39	10.2%	9.8%	35	-	-	-	
Fixed Income	0.8%	0.8%	(2)	(0.9%)	(1.4%)	45	3.4%	2.7%	66	4.5%	3.8%	74	-	-	-	
TIPS	0.2%	0.2%	1	0.9%	0.8%	6	2.2%	2.2%	1	1.8%	1.9%	(9)	-	-	-	
REITs	2.1%	1.6%	44	6.2%	5.2%	109	7.4%	6.5%	93	7.3%	6.5%	81	-	-	-	
Commodities	(2.4%)	(2.5%)	5	22.5%	22.2%	34	(0.4%)	(0.3%)	(3)	(11.1%)	(11.3%)	18	-	-	-	
Total CERBT 2	1.9%	1.9%	3	5.6%	5.3%	36	7.1%	6.7%	45	6.4%	6.0%	40	-	-		

5-Yr Realized Volatility:

5.6%

5-Yr Realized Tracking Error:

0.2%

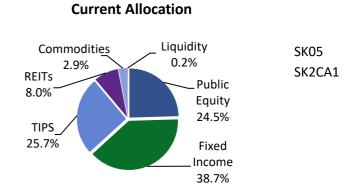
¹ Allocations approved by the Board at the October 2014 IC Meeting

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

CERBT Strategy 3 Fund (CERBT 3) & Legislators' Retirement System Fund (LRF) As of August 31, 2018

Asset Allocation, Performance & Realized Risk Summary - CERBT 3

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 102.5	24.5%	24%	0.5%	± 2%
Fixed Income	\$ 161.8	38.7%	39%	(0.3%)	± 2%
TIPS	\$ 107.3	25.7%	26%	(0.3%)	± 2%
REITs	\$ 33.6	8.0%	8%	0.0%	± 2%
Commodities	\$ 12.0	2.9%	3%	(0.1%)	± 2%
Liquidity	\$ 0.8	0.2%	0%	0.2%	+2%
Total CERBT 3	\$ 418.1	100.0%	100.0%	0.0%	



		FYTD 1-Yr 3-Yr 5-Yr					10-Yr			SK05						
Performance	Net	вм	Excess	Net	вм	Excess	Net	вм	Excess	Net	вм	Excess	Net	вм	Excess	SK2C
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	
Public Equity	3.8%	3.7%	5	12.1%	11.8%	29	12.4%	12.0%	37	10.2%	9.8%	36	-	-	-	SK2C
Fixed Income	0.8%	0.8%	(2)	(0.9%)	(1.4%)	47	3.3%	2.7%	63	4.5%	3.8%	70	-	-	-	
TIPS	0.2%	0.2%	1	0.9%	0.8%	7	2.2%	2.2%	1	1.8%	1.9%	(5)	-	-	-	
REITs	2.1%	1.6%	44	6.2%	5.2%	110	7.3%	6.5%	84	7.3%	6.5%	80	-	-	-	
Commodities	(2.4%)	(2.5%)	5	22.5%	22.2%	35	(0.2%)	(0.3%)	12	(11.0%)	(11.3%)	31	-	-	-	
Total CERBT 3	1.3%	1.3%	2	3.8%	3.5%	27	5.5%	5.1%	38	5.3%	4.9%	42	-	-	-	

5-Yr Realized Volatility:

4.6%

5-Yr Realized Tracking Error:

0.3%

Asset Allocation, Performance & Realized Risk Summary - LRF

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 28.1	24.6%	24%	0.6%	± 5%
Fixed Income	\$ 44.4	38.8%	39%	(0.2%)	± 5%
TIPS	\$ 29.4	25.7%	26%	(0.3%)	± 3%
REITs	\$ 9.2	8.1%	8%	0.1%	± 5%
Commodities	\$ 3.3	2.9%	3%	(0.1%)	± 3%
Liquidity	\$ 0.0	0.0%	0%	0.0%	+2%
Total LRF	\$ 114.4	100.0%	100.0%	0.0%	

Commodities 2.9% REITS Public Equity SK30H SK31B Public SK30I SK30I SK30I SK30J

Fixed

Income

38.8%

Current Allocation

TIPS

25.7%

	FYTD			1-Yr			3-Yr			5-Yr			10-Yr			
Performance Summary ²	Net Return	BM Return	Excess Bps	SK30H												
Public Equity	3.8%	3.7%	6	12.6%	12.5%	10	12.7%	12.5%	17	10.4%	10.3%	12	7.4%	7.4%	8	SK31B
Fixed Income	0.8%	0.8%	(2)	(0.9%)	(1.4%)	46	3.4%	2.7%	65	4.5%	3.8%	74	6.1%	5.2%	91	SK30I
TIPS	0.2%	0.2%	1	0.9%	0.8%	7	2.2%	2.2%	2	1.8%	1.9%	(6)	3.1%	3.0%	9	SKA3B
REITs	2.1%	1.6%	42	6.6%	6.2%	40	8.4%	8.2%	15	8.0%	7.9%	11	-	-	-	SK30J
Commodities	(2.6%)	(2.5%)	(7)	22.4%	22.2%	16	0.0%	(0.3%)	38	(11.0%)	(11.3%)	32	-	-	-	SKDKA1
Total LRF	1.3%	1.3%	3	4.0%	3.8%	19	5.6%	5.3%	26	5.4%	5.1%	30	6.0%	5.6%	40	

SKDKA1

SK30B

SKDKA1

5-Yr Realized Volatility:

4.6%

5-Yr Realized Tracking Error:

0.3%

¹ Allocations approved by the Board at the October 2014 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

Judges' Retirement Fund (JRF) & Judges Retirement System Fund II (JRF II) As of August 31, 2018

Asset Allocation, Performance & Realized Risk Summary - JRF

Asset Allocation	MV mil)	Current Allocation (%)	Policy Weight (%)	Variance (%)	Policy Range
Cash	\$ 40.2	100.0%	100%	0.0%	± 0%
Total JRF	\$ 40.2	100.0%	100%	0.0%	

Current Allocation



	FYTD				1-Yr			3-Yr			5-Yr				
Performance Summary	Net Return	BM Return	Excess Bps												
Cash	0.4%	0.3%	3	1.7%	1.5%	13	1.0%	0.8%	18	0.6%	0.5%	12	0.5%	0.4%	11
Total JRF	0.4%	0.3%	3	1.7%	1.5%	13	1.0%	0.8%	18	0.6%	0.5%	12	0.5%	0.4%	11

5-Yr Realized Volatility:

0.2%

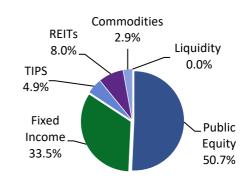
5-Yr Realized Tracking Error:

0.0%

Asset Allocation, Performance Realized Risk Summary - JRF II

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 795.3	50.7%	50%	0.7%	± 5%
Fixed Income	\$ 525.4	33.5%	34%	(0.5%)	± 5%
TIPS	\$ 76.9	4.9%	5%	(0.1%)	± 3%
REITs	\$ 125.1	8.0%	8%	(0.0%)	± 5%
Commodities	\$ 44.8	2.9%	3%	(0.1%)	± 3%
Liquidity	\$ 0.1	0.0%	0%	0.0%	+2%
Total JRF II	\$ 1,567.6	100.0%	100.0%	0.0%	





	FYTD				1-Yr		3-Yr 5-Yr				10-Yr				
Performance Summary ²	Net Return	BM Return	Excess Bps												
Public Equity	3.8%	3.7%	5	12.6%	12.5%	9	12.7%	12.5%	14	10.4%	10.3%	10	7.3%	7.3%	7
Fixed Income	0.8%	0.8%	(2)	(0.9%)	(1.4%)	46	3.4%	2.7%	66	4.5%	3.8%	74	6.1%	5.2%	90
TIPS	0.2%	0.2%	1	0.9%	0.8%	6	2.2%	2.2%	2	1.8%	1.9%	(7)	-	-	-
REITs	2.1%	1.6%	42	6.6%	6.2%	41	8.4%	8.2%	13	8.0%	7.9%	11	4.4%	4.1%	28
Commodities	(2.5%)	(2.5%)	3	22.5%	22.2%	29	0.1%	(0.3%)	41	(11.0%)	(11.3%)	34	-	-	-
Total JRF II	2.2%	2.2%	5	7.1%	6.9%	20	8.3%	8.0%	28	7.4%	7.1%	24	6.7%	6.6%	14

5-Yr Realized Volatility:

6.4%

5-Yr Realized Tracking Error:

0.2%

¹ Allocations approved by the Board at the October 2014 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

Health Care Fund (HCF) & Long-Term Care Fund (LTCF) As of August 31, 2018

Asset Allocation, Performance & Realized Risk Summary - HCF

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Fixed Income	\$ 446.2	100.0%	100%	0.0%	± 0%
Total HCF	\$ 446.2	100.0%	100%	0.0%	

Current Allocation



	FYTD				1-Yr			3-Yr			5-Yr				
Performance Summary	Net Return	BM Return	Excess Bps												
Fixed Income	0.7%	0.7%	(1)	(1.0%)	(1.0%)	7	1.8%	1.8%	3	2.7%	2.5%	25	4.1%	3.7%	40
Total HCF	0.7%	0.7%	(1)	(1.0%)	(1.0%)	7	1.8%	1.8%	3	2.7%	2.5%	25	4.1%	3.7%	40

5-Yr Realized Volatility:

2.7%

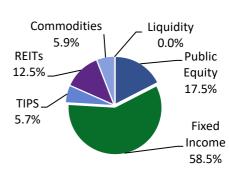
5-Yr Realized Tracking Error:

0.3%

Asset Allocation, Performance & Realized Risk Summary - LTCF

Asset Allocation	EMV (mil)	Current Allocation (%)	Policy Weight (%) ²	Variance (%)	Policy Range
Public Equity	\$ 796.7	17.5%	15%	2.5%	± 4%
Fixed Income	\$ 2,670.4	58.5%	61%	(2.5%)	± 5%
TIPS	\$ 260.1	5.7%	6%	(0.3%)	± 2%
REITs	\$ 569.7	12.5%	12%	0.5%	± 4%
Commodities	\$ 268.8	5.9%	6%	(0.1%)	± 2%
Liquidity	\$ 0.1	0.0%	0%	0.0%	+2%
Total LTCF	\$ 4,565.7	100.0%	100.0%	0.0%	

Current Allocation



	FYTD			1-Yr			3-Yr				5-Yr			10-Yr	
Performance Summary ³	Net Return	BM Return	Excess Bps												
Public Equity	3.8%	3.7%	6	12.1%	11.8%	29	12.4%	12.0%	34	10.1%	9.8%	31	7.3%	7.2%	16
Fixed Income	0.7%	0.8%	(4)	(1.4%)	(1.4%)	(0)	2.7%	2.7%	(3)	3.8%	3.8%	0	5.7%	5.2%	44
TIPS	0.2%	0.2%	1	0.8%	0.8%	(1)	2.2%	2.2%	(1)	1.9%	1.9%	(0)	3.1%	3.0%	9
REITs	2.1%	1.6%	41	6.2%	5.2%	107	7.4%	6.5%	90	7.3%	6.5%	80	3.9%	3.3%	62
Commodities	(2.5%)	(2.5%)	(1)	21.9%	22.2%	(27)	(0.4%)	(0.3%)	(6)	(11.3%)	(11.3%)	(3)	-	-	-
Total LTCF	1.2%	1.1%	9	3.0%	2.8%	17	4.6%	4.5%	14	4.3%	4.1%	20	4.7%	4.4%	23

5-Yr Realized Volatility:

4.6%

5-Yr Realized Tracking Error:

0.2%

¹ Allocations approved by the Board at the April 2016 IC Meeting

 $^{^{\}rm 2}$ Allocations approved by the Board at the June 2015 IC Meeting

³ 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

Supplemental Income Plan (SIP) As of August 31, 2018

Asset Allocation - SIP

		U.	S. Equition	es					Fixed Inco	ome	R	eal Asset	ts		h and Ca Juivalent	
	EMV			Policy			Policy			Policy			Policy			Policy
Asset Allocation	(mil)	Actual	Policy	Range	Actual	Policy	Range	Actual	Policy	Range	Actual	Policy	Range	Actual	Policy	Range
Target Income Fund	\$ 103.0	9.5%	9.0%	+/-2%	10.9%	11.0%	+/-2%	49.9%	50.0%	+/-4%	0.0%	0.0%	-	29.8%	30.0%	+/-4%
Target 2015 Fund	\$ 93.4	9.5%	9.0%	+/-2%	10.9%	11.0%	+/-2%	49.9%	50.0%	+/-4%	0.0%	0.0%	-	29.8%	30.0%	+/-4%
Target 2020 Fund	\$ 165.2	11.5%	11.0%	+/-2%	12.9%	13.0%	+/-2%	47.8%	48.0%	+/-4%	0.0%	0.0%	-	27.8%	28.0%	+/-4%
Target 2025 Fund	\$ 162.7	18.8%	18.0%	+/-2%	19.7%	20.0%	+/-4%	37.8%	38.0%	+/-4%	2.0%	2.0%	+/-1%	21.8%	22.0%	+/-4%
Target 2030 Fund	\$ 138.9	23.0%	22.0%	+/-4%	25.6%	26.0%	+/-4%	30.7%	31.0%	+/-4%	3.9%	4.0%	+/-1%	16.8%	17.0%	+/-2%
Target 2035 Fund	\$ 78.9	28.1%	27.0%	+/-4%	31.4%	32.0%	+/-4%	23.7%	24.0%	+/-4%	5.9%	6.0%	+/-1%	10.8%	11.0%	+/-1%
Target 2040 Fund	\$ 70.8	33.2%	32.0%	+/-4%	36.3%	37.0%	+/-4%	16.8%	17.0%	+/-2%	7.8%	8.0%	+/-1%	5.9%	6.0%	+/-1%
Target 2045 Fund	\$ 34.7	38.3%	37.0%	+/-4%	42.1%	43.0%	+/-4%	9.8%	10.0%	+/-2%	9.7%	10.0%	+/-1%	0.0%	0.0%	-
Target 2050 Fund	\$ 16.2	38.3%	37.0%	+/-4%	42.1%	43.0%	+/-4%	9.8%	10.0%	+/-2%	9.7%	10.0%	+/-1%	0.0%	0.0%	-
Target 2055 Fund	\$ 7.3	38.4%	37.0%	+/-4%	42.0%	43.0%	+/-4%	9.8%	10.0%	+/-2%	9.7%	10.0%	+/-1%	0.0%	0.0%	-
SSgA STIF	\$ 101.4	0.0%	0.0%	-	0.0%	0.0%	-	0.0%	0.0%	-	0.0%	0.0%	-	100.0%	100.0%	-
SIP US ST Bond Core	\$ 33.6	0.0%	0.0%	-	0.0%	0.0%	-	100.0%	100.0%	-	0.0%	0.0%	-	0.0%	0.0%	-
SIP US Bond Core	\$ 54.8	0.0%	0.0%	-	0.0%	0.0%	-	100.0%	100.0%	-	0.0%	0.0%	-	0.0%	0.0%	-
SIP Real Asset Core	\$ 6.8	0.0%	0.0%	-	0.0%	0.0%	-	0.0%	0.0%	-	100.0%	100.0%	-	0.0%	0.0%	-
SIP Russell All Cap Core	\$ 576.1	100.0%	100.0%	-	0.0%	0.0%	-	0.0%	0.0%	-	0.0%	0.0%	-	0.0%	0.0%	-
SIP Glbl All Cap EX-US	\$ 69.7	0.0%	0.0%	-	100.0%	100.0%	-	0.0%	0.0%	-	0.0%	0.0%	-	0.0%	0.0%	-

Performance Summary - SIP

		FYTD			1-Yr			3-Yr			5-Yr			10-Yr	
Performance	Net	вм	Excess												
Summary	Return	Return	Bps												
Target Income Fund	1.1%	1.1%	1	2.1%	2.1%	3	3.6%	3.5%	9	3.5%	3.4%	12	-	-	-
Target 2015 Fund	1.1%	1.1%	1	2.1%	2.1%	4	3.6%	3.5%	9	3.7%	3.6%	10	-	-	-
Target 2020 Fund	1.2%	1.2%	0	2.6%	2.6%	2	4.2%	4.1%	8	4.3%	4.2%	10	-	-	-
Target 2025 Fund	1.6%	1.6%	(2)	4.3%	4.3%	0	5.8%	5.7%	8	5.3%	5.2%	11	-	-	-
Target 2030 Fund	1.8%	1.8%	(1)	5.4%	5.4%	1	6.9%	6.8%	8	6.0%	5.9%	10	-	-	-
Target 2035 Fund	2.0%	2.1%	(1)	6.6%	6.6%	2	8.1%	8.0%	9	6.9%	6.8%	9	-	-	-
Target 2040 Fund	2.3%	2.3%	(1)	7.9%	7.9%	4	9.4%	9.3%	10	7.7%	7.6%	12	-	-	-
Target 2045 Fund	2.6%	2.6%	0	9.1%	9.1%	7	10.4%	10.3%	12	8.3%	8.1%	12	-	-	-
Target 2050 Fund	2.6%	2.6%	(2)	9.1%	9.1%	5	10.4%	10.3%	11	8.2%	8.1%	12	-	-	-
Target 2055 Fund	2.5%	2.6%	(4)	9.1%	9.1%	6	10.4%	10.3%	13	-	-	-	-	-	-
SSgA STIF	0.6%	0.3%	26	1.9%	1.5%	37	1.0%	0.8%	25	0.6%	0.5%	16	-	-	-
SIP US ST Bond Core	0.4%	0.4%	(0)	0.0%	0.2%	(11)	0.7%	0.8%	(12)	-	-	-	-	-	-
SIP US Bond Core	0.7%	0.7%	1	-1.0%	-1.0%	0	1.8%	1.8%	1	-	-	-	-	-	-
SIP Real Asset Core	-1.1%	-1.1%	3	3.7%	3.7%	(7)	5.5%	5.6%	(11)	-	-	-	-	-	-
SIP Russell All Cap Core	6.9%	6.9%	(4)	20.2%	20.2%	(0)	15.9%	15.9%	2	-	-	-	-	-	-
SIP GIbl All Cap EX-US	0.2%	0.2%	1	3.7%	3.5%	19	8.7%	8.4%	22	-		-			-

Supplemental Income Plan (SIP) As of August 31, 2018

Realized Risk - SIP

Realized Risk	5-Yr Realized	Annualized 5-Yr Realized Tracking Error
Target Income Fund	2.4%	0.2%
Target 2015 Fund	2.6%	0.2%
Target 2020 Fund	3.4%	0.2%
Target 2025 Fund	4.6%	0.3%
Target 2030 Fund	5.7%	0.3%
Target 2035 Fund	6.8%	0.4%
Target 2040 Fund	7.9%	0.5%
Target 2045 Fund	8.5%	0.5%
Target 2050 Fund	8.5%	0.5%
Target 2055 Fund	-	-
SSgA STIF	0.2%	0.1%
SIP US ST Bond Core	-	-
SIP US Bond Core	-	-
SIP Real Asset Core	-	-
SIP Russell All Cap Core	-	-
SIP Glbl All Cap EX-US	-	-

CalPERS Trust Level

Trust Level Benchmarks As of August 31, 2018

Public Employee's Retirement Fund and Affiliate Investment Program Policy Benchmarks

Trust	Asset Class Benchmark	Policy Benchmark			
Public Employees Retirement Fund	Public Equity	CalPERS Custom Global Equity Benchmark			
	Private Equity	CalPERS Custom FTSE All World, All Cap Equity, +150 bps, 1 Qtr Lag			
	Income	CalPERS Custom Global Fixed Income Benchmark			
	Real Assets	MSCI Investment Property Databank US Core - Fund Level			
	Inflation	Custom Inflation Assets Benchmark			
	Liquidity	30-Day Treasury Bill			
Judge's Retirement System Fund	Cash	91-day Treasury Bill			
Judge's Retirement System II Fund	Global Equity	MSCI ACWI IMI (Net)			
	U.S. Fixed Income	Bloomberg Barclays Long Liability Index			
	TIPS	Bloomberg Barclays U.S. TIPs Index, Series L			
	Commodities	S&P GSCI Total Return Daily			
	REITs	FTSE EPRA/NAREIT Developed Liquid (Net)			
Legislators' Retirement System Fund	Global Equity	MSCI ACWI IMI (Net)			
	U.S. Fixed Income	Bloomberg Barclays Long Liability Index			
	TIPS	Bloomberg Barclays U.S. TIPs Index, Series L			
	Commodities	S&P GSCI Total Return Daily			
	REITs	FTSE EPRA/NAREIT Developed Liquid (Net)			
Public Employees' Health Care Fund	U.S. Fixed Income	Bloomberg Barclays U.S. Aggregate Bond Index			
Long-Term Care Fund	Global Equity	MSCI ACWI IMI (Net)			
	U.S. Fixed Income	Bloomberg Barclays Long Liability Index			
	TIPS	Bloomberg Barclays U.S. Treasury Inflation Protected Securities (TIPS) Index			
	Commodities	S&P GSCI Total Return Daily			
	REITs	FTSE EPRA/NAREIT Developed Liquid (Net)			
California Employers' Retiree Benefit Trust (CERBT) Funds 1, 2 & 3	Global Equity	MSCI ACWI IMI (Net)			
	U.S. Fixed Income	Bloomberg Barclays Long Liability Index			
	TIPS	Bloomberg Barclays U.S. TIPS Index, Series L			
	Commodities	S&P GSCI Total Return Daily			
	REITs	FTSE EPRA/NAREIT Developed Liquid (Net)			

CalPERS Trust Level

Trust Level Benchmarks As of August 31, 2018

Supplemental Income Plan Policy Benchmarks

Policy Weights							
	US Equities	In'l Equities	US Income	Real Assets	Cash & Cash Equivalents		
Supplemental Income Plan	Russell 3000	MSCI ACWI ex US	Bloomberg Barclays US Ag Bond	SSGA Real Asset	BofA ML 3 mo T-bill		
Target Income Fund	9.0%	11.0%	50.0%	0.0%	30.0%		
Target 2015 Fund	9.0%	11.0%	50.0%	0.0%	30.0%		
Target 2020 Fund	11.0%	13.0%	48.0%	0.0%	28.0%		
Target 2025 Fund	18.0%	20.0%	38.0%	2.0%	22.0%		
Target 2030 Fund	22.0%	26.0%	31.0%	4.0%	17.0%		
Target 2035 Fund	27.0%	32.0%	24.0%	6.0%	11.0%		
Target 2040 Fund	32.0%	37.0%	17.0%	8.0%	6.0%		
Target 2045 Fund	37.0%	43.0%	10.0%	10.0%	0.0%		
Target 2050 Fund	37.0%	43.0%	10.0%	10.0%	0.0%		
Target 2055 Fund	37.0%	43.0%	10.0%	10.0%	0.0%		
SSgA STIF	0.0%	0.0%	0.0%	0.0%	100.0%		
SIP US ST Bond Core	0.0%	0.0%	100.0%	0.0%	0.0%		
SIP US Bond Core	0.0%	0.0%	100.0%	0.0%	0.0%		
SIP Real Asset Core	0.0%	0.0%	0.0%	100.0%	0.0%		
SIP Russell All Cap Core	100.0%	0.0%	0.0%	0.0%	0.0%		
SIP Global All Cap ex US	0.0%	100.0%	0.0%	0.0%	0.0%		