Agenda Item 5c, Attachment 4, Page 1 of 15

### Wilshire

# California Public Employees' Retirement System

Universe Comparison Report

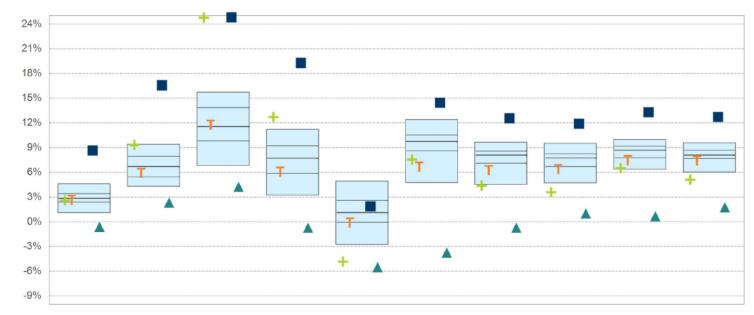
Second Quarter 2023

#### Agenda Item 5c, Attachment 4, Page 2 of 15 Wilshire

# Peer Universe Comparison

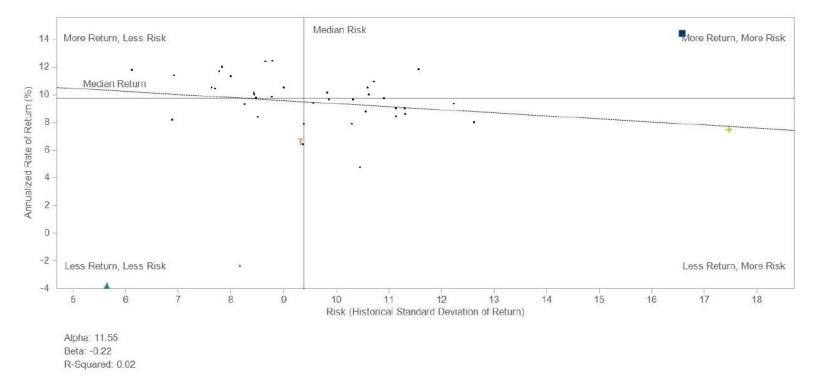
CalPERS Public Employees' Retirement Fund (PERF)

# PERF Total Fund – Return Comparison Public Funds > \$10 Billion



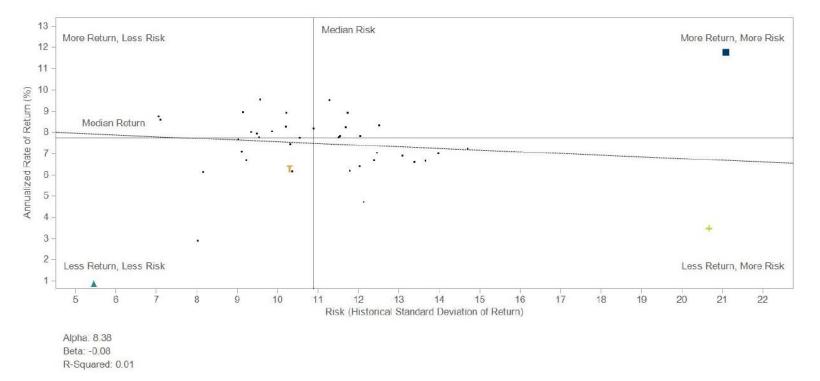
Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	4.60	9.40	15.74	11.20	4.93	12.43	9.67	9.53	9.96	9.58
25th	3.43	7.93	13.86	9.22	2.60	10.53	8.59	8.24	9.19	8.69
50th	2.84	6.69	11.55	7.69	1.13	9.74	8.09	7.76	8.70	8.08
75th	2.38	5.43	9.83	5.85	-0.05	8.61	7.10	6.69	7.77	7.66
95th	1.13	4.32	6.84	3.28	-2.78	4.76	4.53	4.73	6.38	6.04
No. Of Obs	41	40	40	40	39	39	38	37	37	37
Total Plan - Composite	2.44 (72)	5.72 (67)	11.55 (50)	5.85 (75)	-0.30 (83)	6.46 (93)	6.04 (93)	6.18 (90)	7.26 (90)	7.23 (84)
Wilshire 5000	8.44 (1)	16.34 (1)	24.60 (1)	19.06 (1)	1.66 (40)	14.24 (1)	12.33 (1)	11.67 (1)	13.05 (1)	12.51 (1)
+ MSCI AC World ExUS IMI	2.38 (75)	9.10 (5)	24.54 (1)	12.48 (1)	-5.06 (96)	7.33 (91)	4.18 (96)	3.38 (96)	6.29 (96)	4.88 (96)
A Bloomberg Aggregate	-0.84 (99)	2.09 (99)	4.00 (99)	-0.94 (99)	-5.73 (99)	-3.97 (99)	-0.94 (99)	0.77 (99)	0.44 (99)	1.52 (99)

#### **PERF Total Fund – Risk/Return Comparison Public Funds > \$10 Billion** 3 Years Ending June 30, 2023



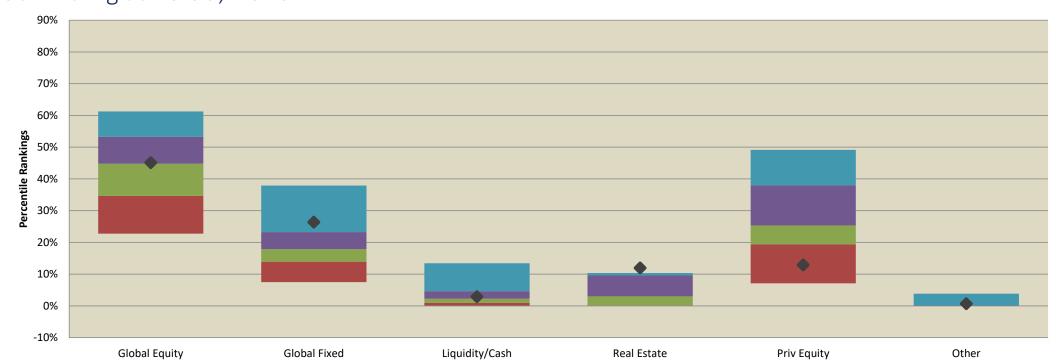
	Risk Value	Risk Rank	Return Value	Return Rank
T Total Plan - Composites	9.37	52	6.46	93
Wilshire 5000	16.63	1	14.24	1
+ MSCI AC World ExUS IMI Net	17.51	1	7.33	91
Bloomberg Aggregate	5.69	100	-3.97	99
Median	9.39		9.74	

#### **PERF Total Fund – Risk/Return Comparison Public Funds > \$10 Billion** 5 Years Ending June 30, 2023



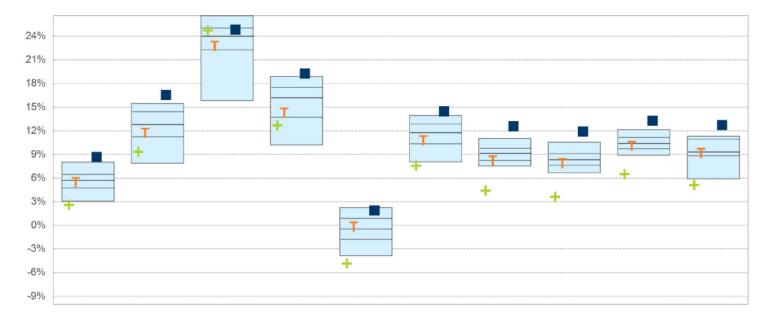
	Risk Value	Risk Rank	Return Value	Return Rank
Total Plan - Composites	10.36	55	6.18	90
Wilshire 5000	21.15	1	11.67	1
MSCI AC World ExUS IMI Net	20.73	1	3.38	96
Bloomberg Aggregate	5.51	100	0.77	99
Median	10.88		7.76	

#### **PERF Total Fund – Asset Allocation Comparison Public Funds > \$10 Billion** Period Ending June 30, 2023



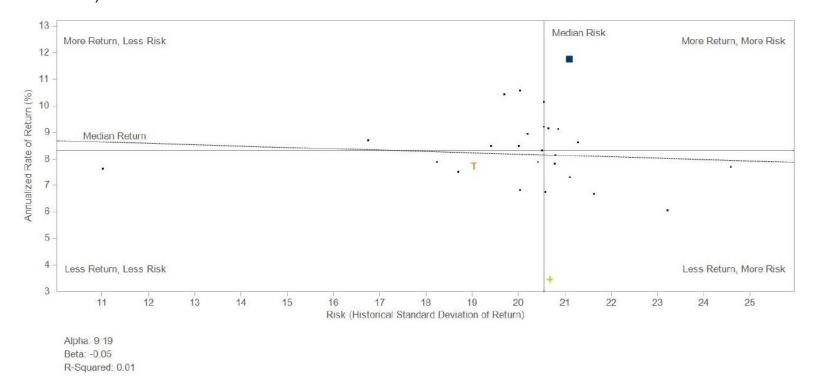
Percentile Rankings	Global Equity	Global Fixed	Liquidity/Cash	Real Estate	Priv Equity	Other
5th	61.25%	37.90%	13.44%	10.33%	49.13%	3.83%
25th	53.24%	23.25%	4.63%	9.57%	37.96%	0.10%
50th	44.80%	17.88%	2.27%	3.00%	25.35%	0.00%
75th	34.65%	13.92%	0.92%	0.16%	19.35%	0.00%
95th	22.75%	7.50%	0.01%	0.00%	7.12%	0.00%
CalPERS	45.11% (46)	26.41% (11)	2.91% (40)	11.98% (1)	12.90% (78)	0.70% (10)

# PERF Global Equity – Return Comparison Public Funds > \$10 Billion



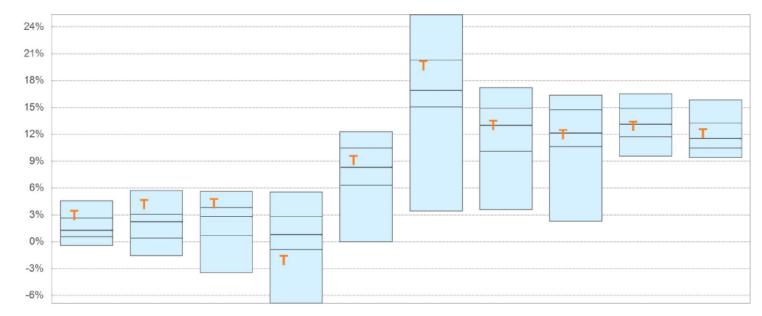
Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	8.02	15.46	26.61	18.90	2.27	13.95	11.05	10.58	12.16	11.31
25th	6.49	14.42	25.03	17.52	0.89	12.86	9.80	9.12	11.16	10.94
50th	5.74	12.77	23.99	16.19	-0.47	11.75	9.16	8.31	10.37	9.32
75th	4.72	11.25	22.28	13.71	-1.78	10.35	8.24	7.65	9.74	8.85
95th	3.09	7.88	15.87	10.20	-3.84	8.06	7.55	6.67	8.92	5.91
No. Of Obs	33	31	31	31	27	27	26	25	25	24
Total Plan - Composite	5.25 (65)	11.50 (71)	22.56 (67)	14.09 (71)	-0.39 (42)	10.59 (70)	8.01 (83)	7.65 (75)	9.86 (66)	8.95 (62)
Wilshire 5000	8.44 (1) 2.38 (100)	16.34 (1) 9.10 (88)	24.60 (28) 24.54 (31)	19.06 (1) 12.48 (88)	1.66 (13) -5.06 (99)	14.24 (1) 7.33 (95)	12.33 (1) 4.18 (100)	11.67 (1) 3.38 (100)	13.05 (1) 6.29 (100)	12.51 (1) 4.88 (99)

#### **PERF Global Equity – Risk/Return Comparison Public Funds > \$10 Billion** 5 Years Ending June 30, 2023



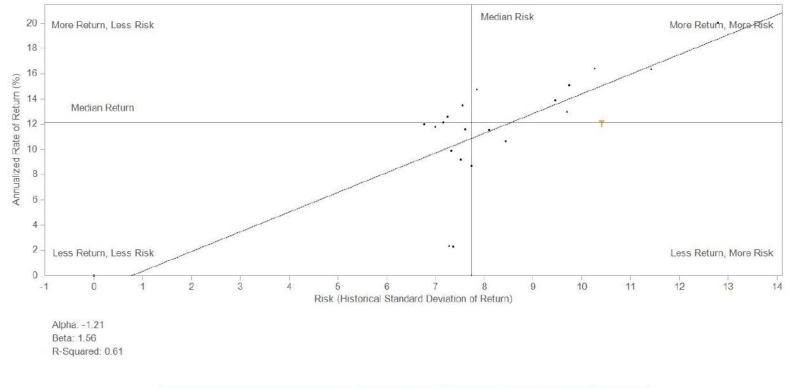
	Risk Value	Risk Rank	Return Value	Return Rank
Total Plan - Composites	19.08	84	7.65	75
Wilshire 5000	21.15	17	11.67	1
MSCI AC World ExUS IMI Net	20.73	33	3.38	100
Median	20.54		8.31	

# PERF Private Equity – Return Comparison Public Funds > \$10 Billion



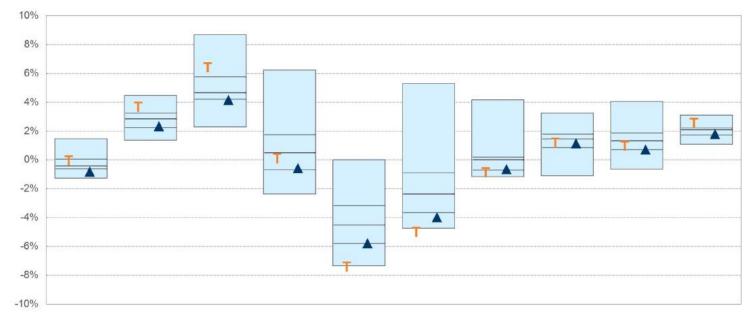
Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	4.60	5.72	5.63	5.56	12.29	25.37	17.22	16.40	16.54	15.88
25th	2.63	3.06	3.82	2.81	10.50	20.31	14.92	14.74	14.89	13.27
50th	1.28	2.24	2.82	0.81	8.32	16.92	13.01	12.14	13.14	11.52
75th	0.55	0.41	0.69	-0.87	6.34	15.06	10.11	10.64	11.72	10.50
95th	-0.40	-1.55	-3.46	-6.86	0.00	3.46	3.60	2.29	9.60	9.42
No. Of Obs	30	29	29	29	24	24	23	22	20	18
Total Plan - Composite	2.79 (21)	4.00 (12)	4.10 (21)	-2.24 (83)	8.93 (41)	19.51 (29)	12.84 (55)	11.81 (55)	12.74 (50)	11.90 (43)

#### **PERF Private Equity – Risk/Return Comparison Public Funds > \$10 Billion** 5 Years Ending June 30, 2023



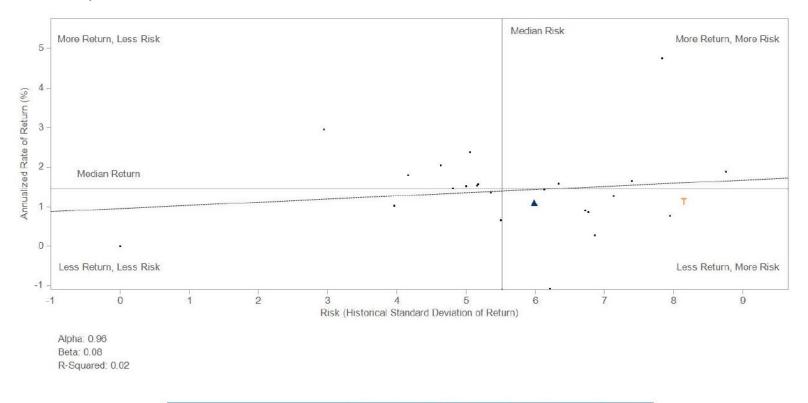
	Risk Value	Risk Rank	Return Value	Return Rank
T Total Plan - Composites	10.45	10	11.81	55
Median	7.75		12.14	

## PERF Income – Return Comparison Public Funds > \$10 Billion



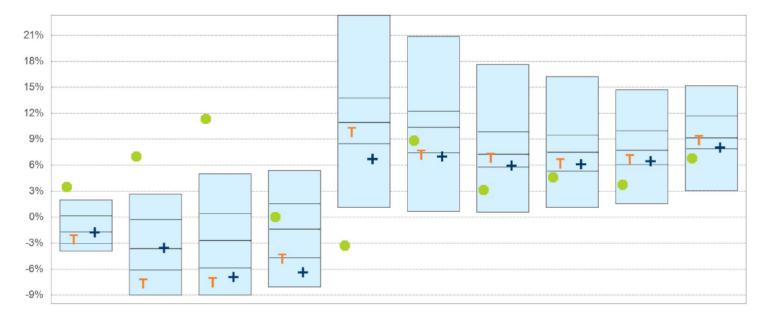
Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	1.47	4.46	8.69	6.25	0.00	5.30	4.17	3.27	4.05	3.12
25th	0.06	3.26	5.76	1.75	-3.15	-0.89	0.21	1.80	1.87	2.23
50th	-0.41	2.85	4.67	0.51	-4.50	-2.36	0.00	1.46	1.32	2.09
75th	-0.62	2.24	4.21	-0.68	-5.79	-3.65	-0.71	0.86	0.73	1.73
95th	-1.27	1.37	2.30	-2.36	-7.32	-4.73	-1.16	-1.09	-0.63	1.08
No. Of Obs	- 33	32	32	32	27	-27	26	25	23	20
Total Plan - Composite	-0.17 (40)	3.57 (12)	6.29 (21)	-0.02 (65)	-7.52 (95)	-5.11 (95)	-0.97 (87)	1.07 (62)	0.86 (65)	2.45 (12)
Bloomberg Govt/Credit	-0.93 (81)	2.21 (75)	4.04 (75)	-0.70 (75)	-5.91 (75)	-4.11 (83)	-0.76 (79)	1.03 (62)	0.59 (79)	1.66 (75)

#### **PERF Income – Risk/Return Comparison Public Funds > \$10 Billion** 5 Years Ending June 30, 2023



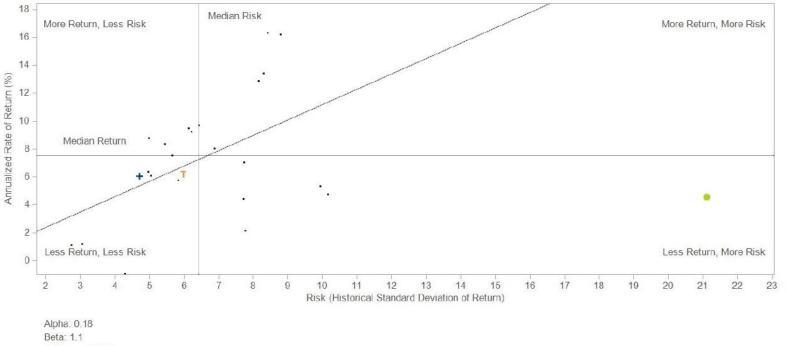
	Risk Value	Risk Rank	Return Value	Return Rank
T Total Plan - Composites	8.18	5	1.07	62
Bloomberg Govt/Credit	6.02	45	1.03	62
Median	5.52		1.46	

# PERF Real Estate – Return Comparison Public Funds > \$10 Billion



Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	1.98	2.68	4.99	5.40	23.33	20.88	17.61	16.21	14.72	15.18
25th	0.17	-0.27	0.39	1.54	13.74	12.23	9.84	9.49	10.00	11.69
50th	-1.72	-3.66	-2.72	-1.39	10.97	10.37	7.26	7.52	7.73	9.15
75th	-3.03	-6.11	-5.88	-4.68	8.46	7.45	5.78	5.33	6.06	7.91
95th	-3.92	-9.01	-9.00	-8.08	1.11	0.67	0.58	1.13	1.55	3.06
No. Of Obs	28	27	26	26	23	23	23	22	22	19
Total Plan - Composite	-2.80 (64)	-7.88 (87)	-7.73 (83)	-5.03 (79)	9.62 (55)	7.01 (75)	6.64 (50)	5.99 (65)	6.45 (65)	8.69 (56)
+ NCREIF Property Indx	-1.98 (53)	-3.75 (54)	-7.12 (83)	-6.59 (83)	6.51 (79)	6.80 (79)	5.75 (75)	5.90 (65)	6.24 (70)	7.82 (81)
Wilshire RESI	3.29 (1)	6.78 (1)	11.14 (1)	-0.19 (37)	-3.49 (99)	8.61 (60)	2.93 (84)	4.39 (84)	3.51 (84)	6.57 (81)

#### **PERF Real Estate – Risk/Return Comparison Public Funds > \$10 Billion** 5 Years Ending June 30, 2023



R-Squared: 0.23

	Risk Value	Risk Rank	Return Value	Return Rank
Total Plan - Composites	6.05	60	5.99	65
+ NCREIF Property Indx	4.78	89	5.90	65
Wilshire RESI	21.18	1	4.39	84
Median	6.44		7.52	

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