

Investment Summary – Periods Ending 6/30/2022

June	0.5	- Overall return of -5.5% / 10 basis points over the Plan Target Policy Index - US Equity (R3000) -8.4% - Non-US Equity (MSCI EAFE -9.3%, MSCI EMG MKTS -6.6%) - Real Estate (NCREIF ODCE) N/A - BB Aggregate index -1.6%
YTD	3.3	- Overall return of -8.3% / 407 basis points over the Plan Target Policy Index - US Equity (R3000) -21.1% - Non-US Equity (MSCI EAFE -19.6%, MSCI EMG MKTS -17.6%) - Real Estate (NCREIF ODCE) +15.9% - BB Aggregate index -10.4% - Most favorable performance vs. benchmark in basis points (Jacobs Levy +1666, Dodge & Cox +967, Arrowstreet +847, Systematic +746) - Most unfavorable performance vs. benchmark in basis points (UBS TPF -312, IFM -246)
1 Year	6.8	- Overall return of -2.6% / 600 basis points over the Plan Target Policy Index - US Equity (R3000) -13.9% - Non-US Equity (MSCI EAFE -17.8%, MSCI EMG MKTS -25.3%) - Real Estate (NCREIF ODCE) +28.5% - BB Aggregate index -10.3% - Most favorable performance vs. benchmark in basis points (Jacobs Levy +2664, Arrowstreet +1627, Systematic +1449, Dodge & Cox +754, IFM +312) - Most unfavorable performance vs. benchmark in basis points (UBS TPF -520, UBS AgriVest -208, JP Morgan -197)
3 Years	6.9	- Overall return of +7.5% / 171 basis points over the Plan Target Policy Index - US Equity (R3000) +9.8% - Non-US Equity (MSCI EAFE +1.1%, MSCI EMG MKTS +0.6%) - Real Estate (NCREIF ODCE) +11.3% - BB Aggregate index -0.9%
5 Years	7.0	- Overall return of +7.5% / 101 basis points over the Plan Target Policy Index - US Equity (R3000) +10.6% - Non-US Equity (MSCI EAFE +2.2%, MSCI EMG MKTS +2.2%) - Real Estate (NCREIF ODCE) +9.9% - BB Aggregate index +0.9%
10 Years	7.2	Overall return of +9.1% / 103 basis point over the Plan Target Policy Index
15 Years	7.4	Overall return of +6.2% / 60 basis point over the Plan Target Policy Index
20 Years	7.6	Overall return of +7.6% / 54 basis points over the Plan Target Policy Index
25 Years	7.7	Overall return of +6.9% / 56 basis points over the Plan Target Policy Index

Notes: 1) Stoplight colors indicate performance relative to the assumed ROR for the period at the Plan level and relative to Aon's long-term return expectations at the asset class level.

2) All returns are gross-of-fees unless otherwise indicated.

3) The second column is a blend of the historical assumed ROR's that were in force at the time.

Sonoma County Employees' Retirement Association
SUMMARY OF PERFORMANCE
RATES OF RETURN

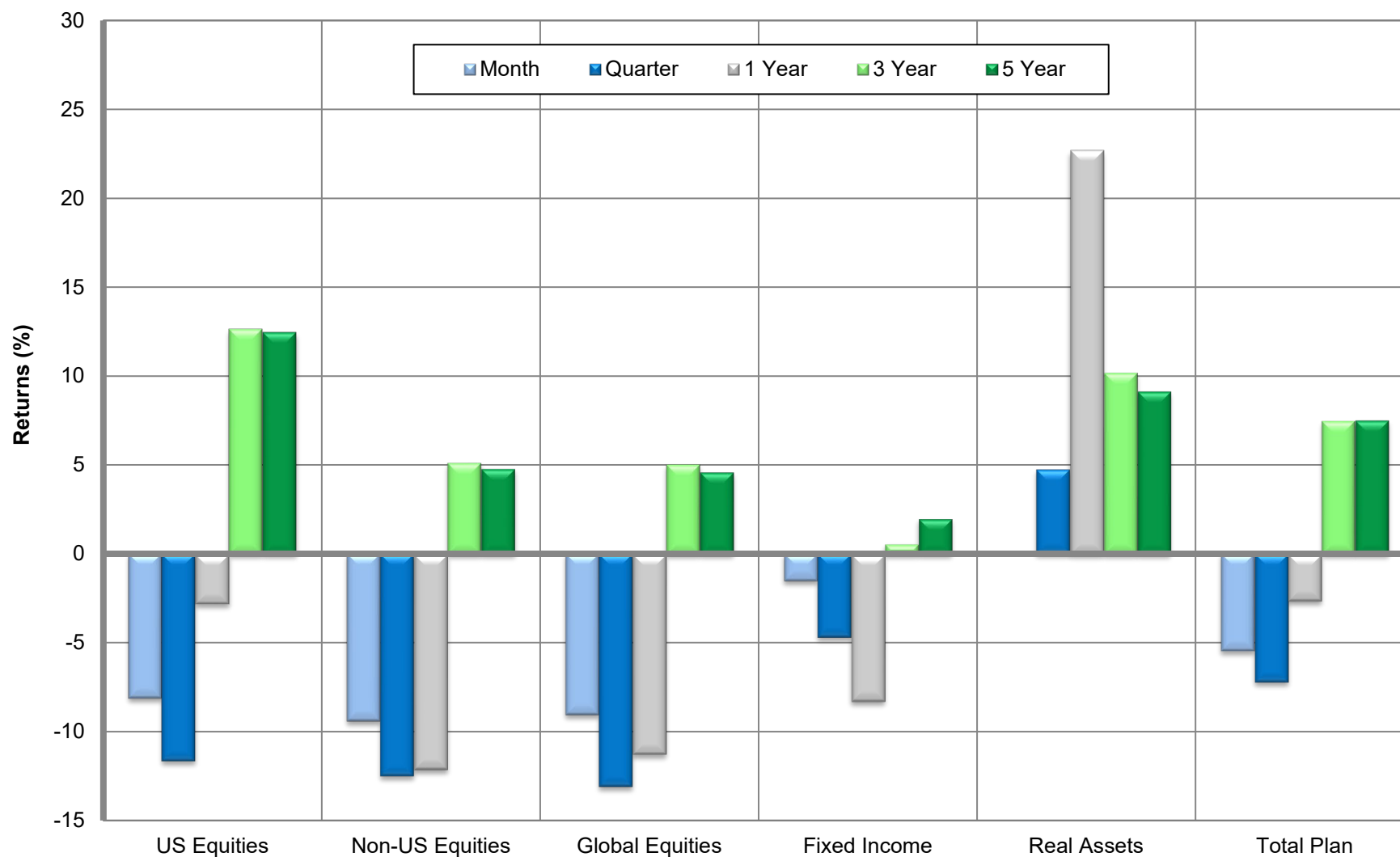
Periods Ending: June 30, 2022


STATE STREET

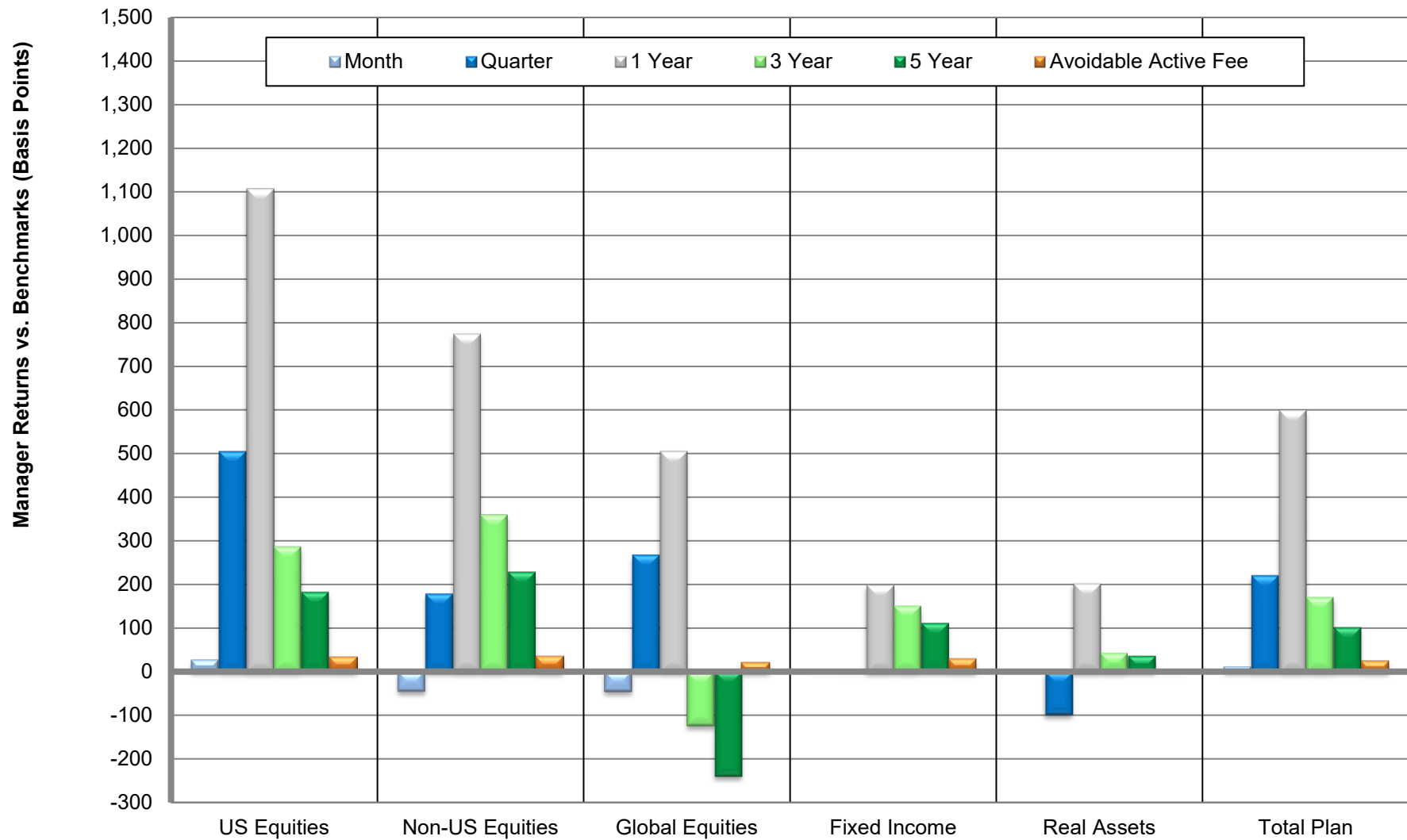
	1 Mo	Qtr	YTD	1 Yr	2 Yrs	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs
SONOMA TOTAL FUND POLICY INDEX	-5.57	-9.43	-12.41	-8.64	6.74	5.77	6.48	8.03	5.62	7.01
DJ Industrial Average Total Return Index	-6.56	-10.78	-14.44	-9.05	11.36	7.24	9.98	11.70	8.37	8.82
S&P 500	-8.25	-16.10	-19.96	-10.62	12.18	10.60	11.31	12.96	8.54	9.08
NASDAQ Composite Index	-8.65	-22.28	-29.23	-23.43	5.46	12.18	13.46	15.40	11.25	
Russell 1000	-8.38	-16.67	-20.94	-13.04	11.55	10.17	11.00	12.82	8.51	9.21
Russell 1000 Growth	-7.92	-20.92	-28.07	-18.77	7.59	12.58	14.29	14.80	10.67	10.32
Russell 1000 Value	-8.74	-12.21	-12.86	-6.82	15.71	6.87	7.17	10.50	6.10	7.86
Russell 2000	-8.22	-17.20	-23.43	-25.20	10.09	4.21	5.17	9.35	6.33	8.17
Russell 2000 Growth	-6.19	-19.25	-29.45	-33.43	0.38	1.40	4.80	9.30	6.80	8.34
Russell 2000 Value	-9.88	-15.28	-17.31	-16.28	20.44	6.18	4.89	9.05	5.58	7.77
Russell 3000	-8.37	-16.70	-21.10	-13.87	11.43	9.77	10.60	12.57	8.36	9.14
MSCI ACWI EX US SMALL CAP	-11.04	-17.55	-22.92	-22.45	6.79	2.94	2.55	6.22	2.79	8.16
S&P DEVELOPED EX U.S. SMALLCAP	-11.45	-17.75	-24.39	-24.92	4.04	1.37	1.82	6.87	2.84	7.94
MSCI EAFE (NET)	-9.28	-14.51	-19.57	-17.77	4.32	1.07	2.20	5.40	1.42	5.27
MSCI EMERGING MARKETS	-6.64	-11.45	-17.63	-25.28	2.60	0.57	2.18	3.06	2.97	9.20
MSCI AC World IMI w/USA GROSS (NET)	-8.60	-15.77	-20.33	-16.31	8.74	6.27	7.01	9.03	5.16	7.77
MSCI All Country World ex US IMI net	-8.95	-14.28	-19.08	-19.86	4.85	1.55	2.50	5.01	1.75	6.09
Bloomberg U.S. Aggregate	-1.57	-4.69	-10.35	-10.29	-5.44	-0.93	0.88	1.54	3.26	3.57
Bloomberg U.S. Universal	-2.00	-5.13	-10.93	-10.89	-5.08	-0.94	0.94	1.83	3.45	3.87
Bloomberg US Mortgage Backed Securities	-1.60	-4.01	-8.78	-9.03	-4.82	-1.44	0.36	1.18	2.98	3.27
CS Leveraged Loan Index	-2.06	-4.35	-4.45	-2.68	4.25	2.03	2.97	3.90	3.77	4.49
CPI + 500 BPS 1 ML	1.51	4.28	7.74	13.97	12.08	9.71				
ICE BofA US 3-Month Treasury Bill	0.02	0.10	0.14	0.17	0.13	0.63	1.11	0.64	0.75	1.26
NCREIF ODCE 1 MO LAG	0.00	7.37	15.93	28.47	14.65	11.29	9.88	10.93	7.01	8.56
NCREIF FARMLAND INDEX 1 ML	0.00	2.63	6.53	9.73	6.86	5.89	6.17	9.56	10.72	12.58
UBS CORE FARMLAND 1ML	0.00	3.72	7.81	12.42	8.86	7.16	6.81	8.14	9.57	10.91

UBS Core Farmland - A custom Index comprised of 80% NCREIF Farmland Annual Cropland Fixed/Var Rent + 20% NCREIF Farmland Permanent Cropland Fixed/Var Rent

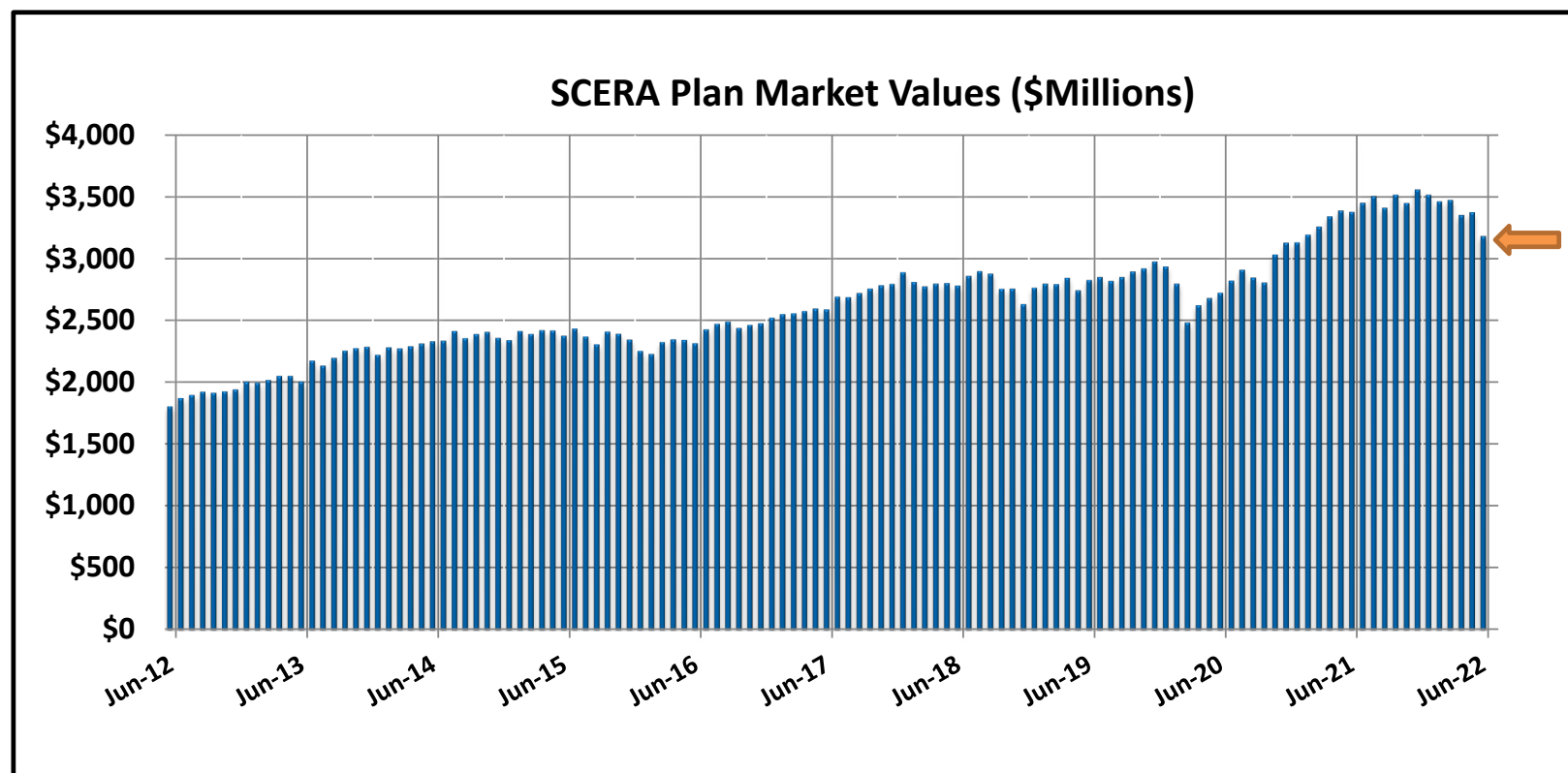
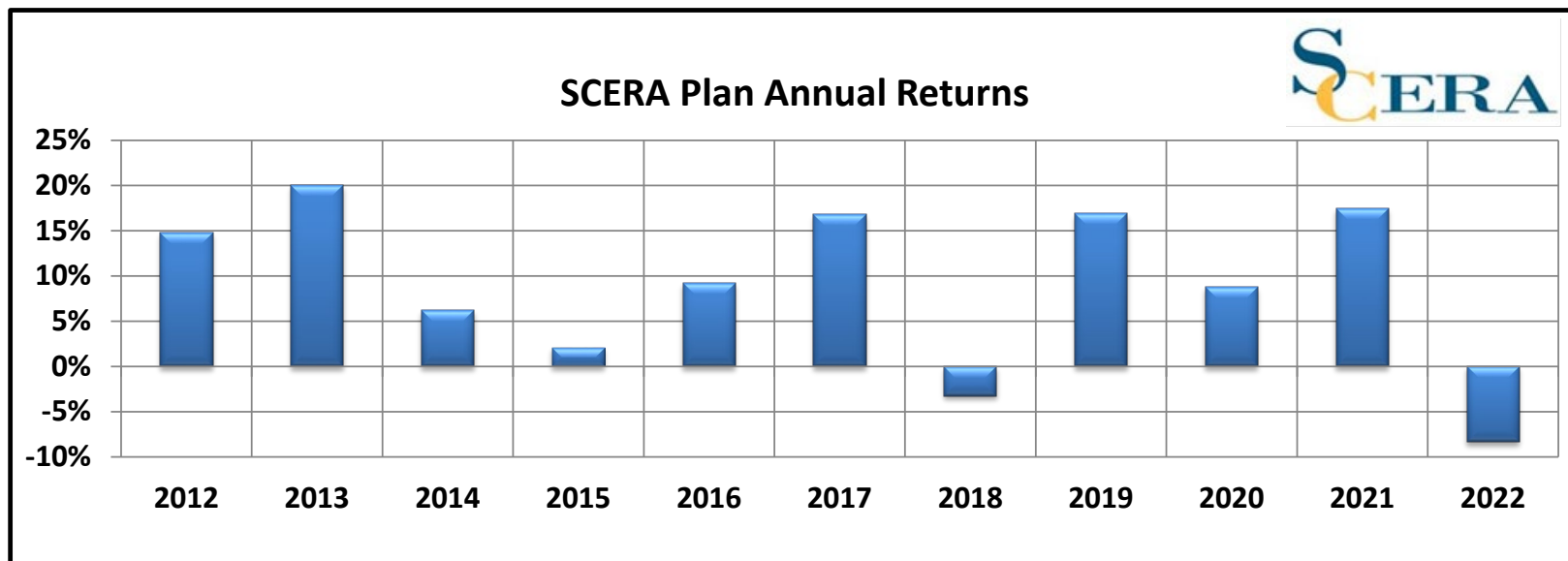
SCERA Investment Returns by Asset Class Periods Ending June 30, 2021



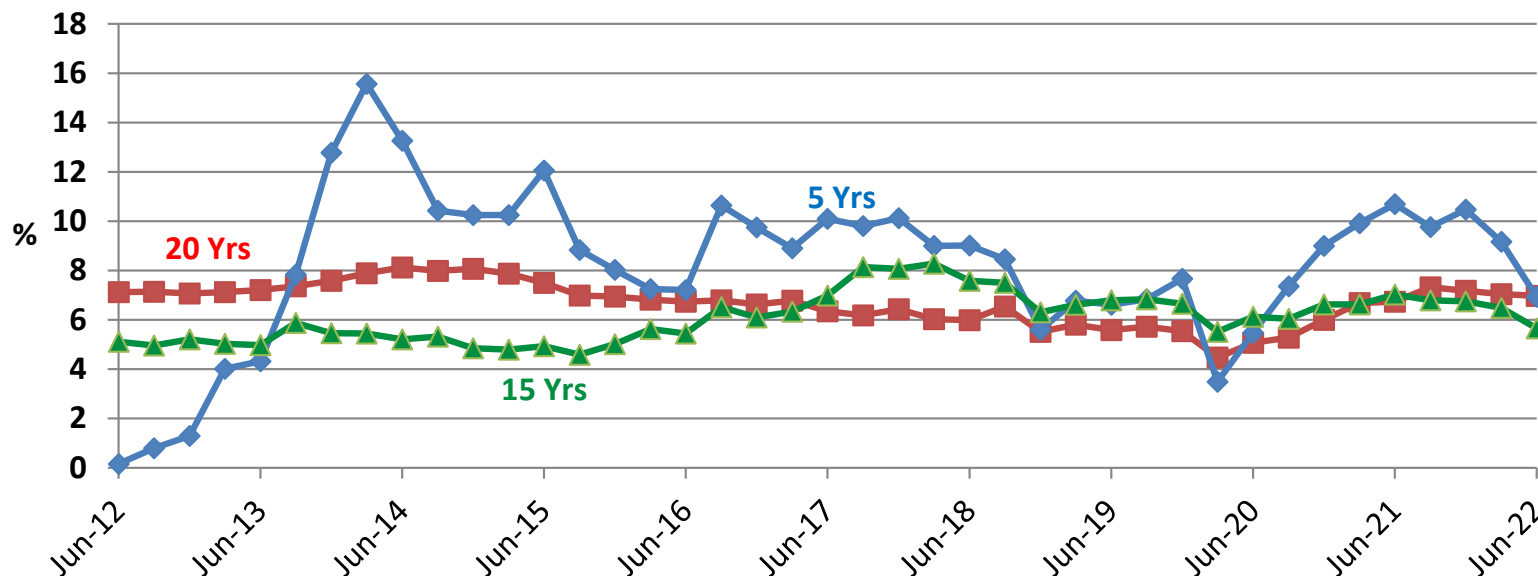
SCERA Asset Class Returns vs. Benchmarks Periods Ending June 30, 2021



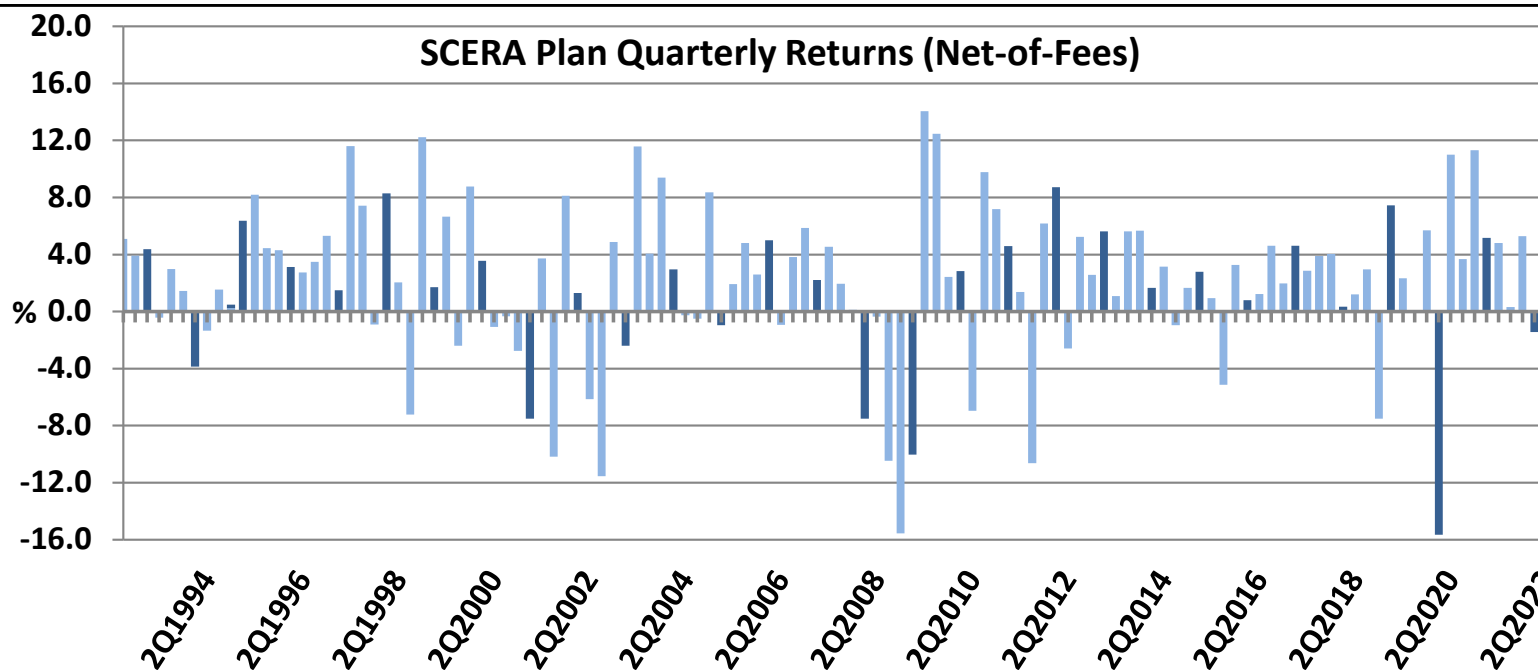
Note: Real Assets have no passive alternative



SCERA Plan Quarterly Rolling Returns (Net-of-Fees)



SCERA Plan Quarterly Returns (Net-of-Fees)



Source: Aon Hewitt

Sonoma County Employees' Retirement Association
SUMMARY OF "OPPORTUNISTIC" PERFORMANCE
INTERNAL RATES OF RETURN (NET-OF- BASE MANAGEMENT FEES)
Periods Ending **31-May-22**



DK SOF Fund III	
	USD
Total Capital Commitment	75,000,000
Capital Contributions ITD	(49,168,269)
Remaining Commitment	25,831,731
Capital Contributions ITD	49,168,269
Capital Distributions ITD	(51,262,015)
Net Profit/Loss ITD	15,009,021
Ending Appraised Value	12,915,275
Inception to Date IRR	8.65%
Initial Closing Date	8/24/2015
Investment Period Start Date	1/1/2016
Harvest Period Start Date	7/1/2017
Term End Date	7/1/2021

DK SOF Fund IV	
	USD
Total Capital Commitment	50,000,000
Capital Contributions ITD	(44,750,000)
Remaining Commitment	5,250,000
Capital Contributions ITD	44,750,000
Capital Distributions ITD	38,942,085
Net Profit/Loss ITD	16,493,828
Ending Appraised Value	22,301,743
Inception to Date IRR	14.85%
Initial Closing Date	7/28/2017
Investment Period Start Date	7/28/2017
Harvest Period Start Date	1/28/2020
Term End Date	1/28/2023

Note: The manager is not required to return all capital by the Fund "End Date" but is merely required to begin the process. There is no hard and fast date by which all capital must be returned.

Management Fee: 0.75%
Performance Fee Hurdle: 8.00%
Performance Fee: 10.00%

Source: Citco Fund Administration

Sonoma County Employees' Retirement Association

SUMMARY OF PERFORMANCE
RATES OF RETURN (GROSS-OF-FEES)
Periods Ending June 30, 2022
(All \$ in thousands)



													Inception Date
		Market Value	Month	QTR	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs	ITD	
U.S. EQUITY	TOTAL US EQUITY	630,159	-8.12	-11.65	-13.35	-2.80	12.63	12.42	14.69	9.81	10.43	12.86	Jun-01-82
	BENCHMARK (RUSSELL 3000)		-8.37	-16.70	-21.10	-13.87	9.77	10.60	12.57	8.36	9.14	11.85	
	JACOBS LEVY 130/30	278,967	-8.15	-6.93	-4.44	12.77	20.48	17.79	18.72	12.68		12.92	Mar-01-07
	RUSSELL 3000		-8.37	-16.70	-21.10	-13.87	9.77	10.60	12.57	8.36		8.64	
	SSGA RUSSELL 1000 INDEX FUND	234,114	-8.37	-16.71	-20.97	-13.06	10.17					8.76	Oct-01-18
	RUSSELL 1000		-8.38	-16.67	-20.94	-13.04	10.17					8.76	
	SYSTEMATIC	117,078	-7.55	-11.59	-15.97	-10.71	8.47	7.96	12.58	9.00	10.40	11.74	Jan-01-00
¹ RUSSELL 2000 BLENDED			-8.22	-17.20	-23.43	-25.20	4.21	5.17	9.67	5.98	8.07	9.10	
NON-US EQUITY	TOTAL NON-US EQUITY	634,063	-9.40	-12.49	-15.62	-12.11	5.14	4.78	6.98	2.72	6.34	6.08	Apr-01-01
	BENCHMARK (BLEND)		-8.95	-14.28	-19.08	-19.86	1.55	2.50	5.00	1.53	5.36	4.49	
	ARROWSTREET 130/30	277,828	-8.04	-7.69	-10.61	-3.59	11.66	10.48	10.93			8.57	Feb-01-11
	² MSCI INT'L EQUITY BLENDED II		-8.95	-14.28	-19.08	-19.86	1.55	2.50	5.01			3.16	
	³ SSGA ACWI EX-US IMI ROL STRATEGY	356,235	-10.43	-15.86	-19.09	-17.60	3.02	3.51				4.19	Jun-01-13
MSCI ACWI EX-US IMI (NET)			-8.95	-14.28	-19.08	-19.86	1.55	2.50				3.51	
GLOBAL EQUITY	TOTAL GLOBAL EQUITY	484,913	-9.06	-13.09	-14.62	-11.25	5.04	4.60	7.48	4.49		6.23	Apr-01-05
	BENCHMARK (BLEND)		-8.60	-15.77	-20.33	-16.31	6.27	7.01	8.89	4.88		6.66	
	³ SSGA ACWI IMI ROL STRATEGY	22,802	-9.14	-16.37	-20.33	-15.17						-2.48	Jan-01-21
	MSCI ACWI IMI (NET) with USA Gross		-8.60	-15.77	-20.33	-16.31						-3.77	
	SSGM INTERIM ACCOUNT	188,129	-9.11	-15.72	-19.19							-15.11	Aug-01-21
	MSCI ACWI IMI (NET) with USA Gross		-8.60	-15.77	-20.33							-16.75	
	DODGE & COX	273,982	-9.01	-10.90	-10.66	-8.77	7.59	7.86	12.20	7.06	9.18	9.33	Aug-01-97
⁴ MSCI Global Equity Blended II			-8.60	-15.77	-20.33	-16.31	6.27	6.45	10.13	5.86	7.67	7.16	

¹ Russell 2000 Value Inception to 12/31/2016 ; Russell 2000 1/1/2017 to Present

² MSCI AC World ex US (Net) 2/1/2011 to 03/31/2011 ; MSCI AC World ex US IMI (Net) 4/1/2011 to Present

³ Effective 3/5/2021, SCERA implemented rule of law (ROL) guidelines into the passive strategies managed by SSGA.

⁴ Russell 1000 Value to 9/30/2018; MSCI ACWI IMI (Net) with USA Gross 1/10/2018 to Present

PERFORMANCE SUMMARY (GROSS-OF-FEES)

Periods Ending June 30, 2022

	Market											Inception
	Value	Month	QTR	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs	ITD	Date
FIXED INCOME	TOTAL FIXED INCOME	512,100	-1.56	-4.70	-8.88	-8.29	0.58	1.99	2.53	4.52	4.73	6.51 Sep-01-86
	BENCHMARK (BB US AGGREGATE)		-1.57	-4.69	-10.35	-10.29	-0.93	0.88	1.54	3.26	3.57	5.54
	REAMS CORE PLUS	140,446	-1.81	-5.20	-10.29	-9.94	2.35	3.23	3.26	5.45	5.40	5.31 Jul-01-01
	BB US AGGREGATE		-1.57	-4.69	-10.35	-10.29	-0.93	0.88	1.54	3.26	3.57	3.80
	DOUBLELINE CORE PLUS	142,633	-1.01	-4.22	-8.87	-8.52	-0.72	1.25				2.15 Jul-01-14
	BB US AGGREGATE		-1.57	-4.69	-10.35	-10.29	-0.93	0.88				1.48
	BB US MORTGAGE BACKED SECURITIES INDEX		-1.60	-4.01	-8.78	-9.03	-1.44	0.36				1.04
	PIMCO CORE PLUS	140,597	-1.70	-5.15	-10.40	-10.19	-0.54	1.34	2.00			2.77 Apr-01-11
	BB US AGGREGATE		-1.57	-4.69	-10.35	-10.29	-0.93	0.88	1.54			2.23
	GUGGENHEIM BANK LOANS	88,425	-1.85	-3.97	-3.93	-1.72	2.53	3.39				3.73 Oct-01-13
	CREDIT SUISSE LEV LOAN INDEX		-2.06	-4.35	-4.45	-2.68	2.03	2.97				3.43

REAL ASSETS*	TOTAL REAL ASSETS	749,949		4.72	11.41	22.68	10.17	9.10	10.01	4.48		6.40 Jan-01-03
	BENCHMARK (COMPOSITE)			5.71	11.72	20.65	9.74	8.74	9.82	6.29		8.04
	JPMORGAN STRAT. PROPERTY FUND	213,229		6.51	15.17	26.50	10.75	9.18	10.74			11.19 Jan-01-11
	NCREIF ODCE 1 MONTH LAGGED			7.37	15.93	28.47	11.29	9.88	10.93			11.28
	UBS TRUMBULL PROPERTY FUND	145,214		7.39	12.81	23.27	5.21	5.69	7.85	5.74		7.69 Jan-01-03
	NCREIF ODCE 1 MONTH LAGGED			7.37	15.93	28.47	11.29	9.88	10.93	7.01		8.60
	UBS AGRIVEST FARMLAND FUND	151,402		1.91	7.52	10.34	6.29	5.88	7.72			8.21 Nov-01-10
	CORE FARMLAND INDEX 1 MO. LAG			3.72	7.81	12.42	7.16	6.81	8.14			9.02
	NCREIF FARMLAND INDEX 1 MO. LAG			2.63	6.53	9.73	5.89	6.17	9.56			10.34
	IFM GLOBAL INFRASTRUCTURE FUND	106,710		1.22	4.92	17.05	11.01					12.14 Sep-01-17
	CPI + 500 bps 1 MO. LAG			4.37	7.38	13.93	9.38					8.44
	AXINFRA NA II LP	79,419		2.39	7.26	13.47				<i>Axiom calculated Net IRR</i>		10.11 Jan-01-20
	CPI + 500 bps 1 MO. LAG			4.37	7.38	13.93						9.86
	KKR DCIF	53,974										Apr-01-22
	CPI + 500 bps 1 MO. LAG											

* Real Assets are reported with a one month lag. Real Estate returns are quarterly, infrastucture is monthly.

STRATEGIC	PLAN LEVEL CASH	89,329	-0.23	0.64	0.65	0.65	0.67	1.08	0.64	0.91		1.21 May-01-06
	91 DAY T-BILL		0.02	0.10	0.14	0.17	0.63	1.11	0.64	0.75		1.07
	TOTAL STRATEGIC PORT EXCL OVERLAYS	3,100,513	-5.40	-7.17	-8.16	-2.52	6.99	7.05	8.80	6.05	7.42	9.26 Mar-01-79
	TOTAL STRAT PORT EXCL EIRP OVERLAY	3,121,307	-5.54	-7.35	-8.58	-2.94	7.48	7.46	9.07	6.22	7.55	9.32 Mar-01-79
	⁵ PARAMETRIC CASH OVERLAY G/L IMPACT	20,794	-0.18	-0.23	-0.50	-0.44	0.61	0.50				0.37 Dec-01-13
	TOTAL STRAT PORT EXCL CASH OVERLAY	3,120,267	-5.39	-7.15	-8.12	-2.47	6.96	7.02	8.78	6.04	7.41	9.25 Mar-01-79
	⁶ PARAMETRIC EIRP RTN ON NOTIONAL VALUE	19,754	-0.76	-0.65	-0.11	1.00	-0.08	-0.27				-0.02 Feb-01-17
	PARAMETRIC EIRP OVERLAY G/L IMPACT	3,100,513	-0.02	-0.01	0.00	0.02	-0.01	-0.01				0.00 Feb-01-17
	TOTAL STRATEGIC PORTFOLIO	3,141,061	-5.52	-7.32	-8.54	-2.90	7.45	7.42	9.04	6.20	7.54	9.31 Mar-01-79
Opp.	DAVIDSON KEMPNER FUNDS	35,217	-0.31	2.88	10.42	20.38	11.40	12.23		<i>Staff calculated IRR</i>	10.27	Jul-01-16
	⁷ BENCHMARK		0.21	-3.51	-5.01	-2.53	9.30	7.80		<i>Staff estimated value added</i>	\$13,432	

TOTAL	TOTAL PLAN	3,176,278	-5.47	-7.22	-8.34	-2.64	7.48	7.49	9.06	6.22	7.55	9.32 Mar-01-79
	TOTAL PLAN TARGET POLICY		-5.57	-9.43	-12.41	-8.64	5.77	6.48	8.03	5.62	7.01	9.64

⁵ Cash Overlay Impact includes the gains/losses from the GBP hedge for the investment in Davidson Kempner SOF III-A.

⁶ Returns are calculated on the notional exposure of the options which began at \$25 million on March 1, 2017 and escalated to \$75 million as of May 1, 2017. Returns expected to be in the range of 2% to 3% pa.

⁷ Opportunistic and its benchmark (which is the Total Plan Policy) return are lagged one month.

Source: State Street Analytics

Sonoma County Employees' Retirement Association

ASSET ALLOCATION vs. POLICY RANGES

Period Ending: June 30, 2022

(All \$ in thousands)



	Market Values	% of Strategic Assets	Trigger for Physical Rebalance	Policy Targets	Trigger for Physical Rebalance	Derivatives Overlay	Economic Exposure	% of Total Plan assets	Trigger for Derivative Rebalance	Policy Targets	Trigger for Derivative Rebalance
Core Plus Fixed Income	423,676	14.1%	14.0%	16.0%	18.0%	69,310					
Total Alternative Fixed Income	88,425	2.9%	2.0%	3.0%	4.0%						
Total Fixed Income	512,100	17.0%	17.0%	19.0%	21.0%	69,310	581,410	18.5%	18.0%	19.0%	20.0%
Core Real Estate	358,444	11.9%		10.0%							
Farmland	151,402	5.0%		5.0%							
Infrastructure	240,103	8.0%		5.0%							
Total Real Assets	749,949	24.9%	17.0%	20%	23.0%		749,949	23.9%		20.0%	
US Large Cap Broad	278,967	9.3%		8.0%		(11,142)	267,826	8.5%	8.0%	9.0%	10.0%
US Large Cap	234,114	7.8%		8.5%		19,019	253,133	8.1%	7.5%	8.5%	9.5%
US Small Cap	117,078	3.9%		5.0%		1,855	118,933	3.8%	3.5%	4.0%	4.5%
Total US Equity	630,159	20.9%	19.5%	21.5%	23.5%	9,732	639,891	20.4%		21.5%	
Non- US Equity	634,063	21.1%	19.5%	21.5%	23.5%	(676)	633,387	20.2%	20.5%	21.5%	22.5%
Global Equity	484,913	16.1%	16.0%	18.0%	20.0%	48,078	532,991	17.0%	17.0%	18.0%	19%
Total Equities	1,749,135	58.1%	58.0%	61.0%	64.0%	57,134	1,806,269	57.5%	59.0%	61.0%	63%
Total Strategic Port. ex Cash	3,011,184	100%									
Cash (Plan + Overlays)	129,877					(126,444)	3,433	0.1%			
Opportunistic	35,217										
Davidson Kempner	35,217						35,217	excluded from Cash Overlay			
Total Plan Assets	3,176,278						3,176,278	100.0%			

Non-US as % of Total Equities - Physicals

47.5%

Non-US as % of Total Equities - Economic Exposure

47.1%

Non-US as % of Total Equities - Policy Target

50.0%

Non-US as % of MSCI All Country World IM Index

40.7%

Note 1) The total market exposure gained/reduced in addition to the managers by using derivatives within the Parametric overlay account is \$126.4 million.

2) The total physical cash (including manager cash) being overlaid by Parametric is \$136 million.

3) The Total Cash contains \$40.5 million for the margin accounts supporting the Parametric Cash and EIRP overlays.

4) Normal physical rebalancings have been suspended until the funding of new infrastructure investments which will reduce the policy weights for fixed income & equities.

Parametric compensates for the excess to Policy weighting of Real Assets by adjusting downwards the targets and ranges for the other asset classes.