

Investment Summary – Periods Ending 12/31/2020

December	0.6	- Overall return of +3.7% / 54 basis points over the Plan Target Policy Index - US Equity (R3000) +4.5% - Non-US Equity (MSCI EAFE +4.7%, MSCI EMG MKTS +7.4%) - Real Estate (NCREIF ODCE) N/A - BB Aggregate index +0.1%
Qtr	1.7	- Overall return of +11.6% / 162 basis points over the Plan Target Policy Index - US Equity (R3000) +14.7% - Non-US Equity (MSCI EAFE +16.1%, MSCI EMG MKTS +19.7%) - Real Estate (NCREIF ODCE) +0.5% - BB Aggregate index +0.7% - Most favorable performance vs. benchmark in basis points (Axiom +890, Jacobs Levy +750, Dodge & Cox 659, Reams +145) - Most unfavorable performance vs. benchmark in basis points (Hexavest -368, Systematic -290, UBS TPF -66, JP Morgan -51)
1 Year	7.0	- Overall return of +8.8% / 395 basis points under the Plan Target Policy Index - US Equity (R3000) +20.9 - Non-US Equity (MSCI EAFE +7.8%, MSCI EMG MKTS +18.3%) - Real Estate (NCREIF ODCE) +1.4% - BB Aggregate index +7.5% - Most favorable performance vs. benchmark in basis points (Reams +1041, Arrowstreet +464, PIMCO +69) - Most unfavorable performance vs. benchmark in basis points (Systematic -1472, Axiom -1419, Dodge & Cox -1184, Hexavest -1027, Jacobs Levy -679, GMO -629, UBS TPF -352)
3 Years	7.1	- Overall return of +7.2% / 162 basis points under the Plan Target Policy Index - US Equity (R3000) +14.5% - Non-US Equity (MSCI EAFE +4.3%, MSCI EMG MKTS +6.2%) - Real Estate (NCREIF ODCE) +5.2% - BB Aggregate index +5.3%
5 Years	7.1	- Overall return of +9.5% / 62 basis points under the Plan Target Policy Index - US Equity (R3000) +15.4% - Non-US Equity (MSCI EAFE +7.5%, MSCI EMG MKTS +12.8%) - Real Estate (NCREIF ODCE) +6.6% - BB Aggregate index +4.4%
10 Years	7.3	Overall return of +9.0% / 11 basis point over the Plan Target Policy Index
15 Years	7.5	Overall return of +7.2% / 3 basis point over the Plan Target Policy Index
20 Years	7.7	Overall return of +6.5% / 5 basis points over the Plan Target Policy Index
25 Years	7.8	Overall return of +7.8% / 37 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 December 31, 2020



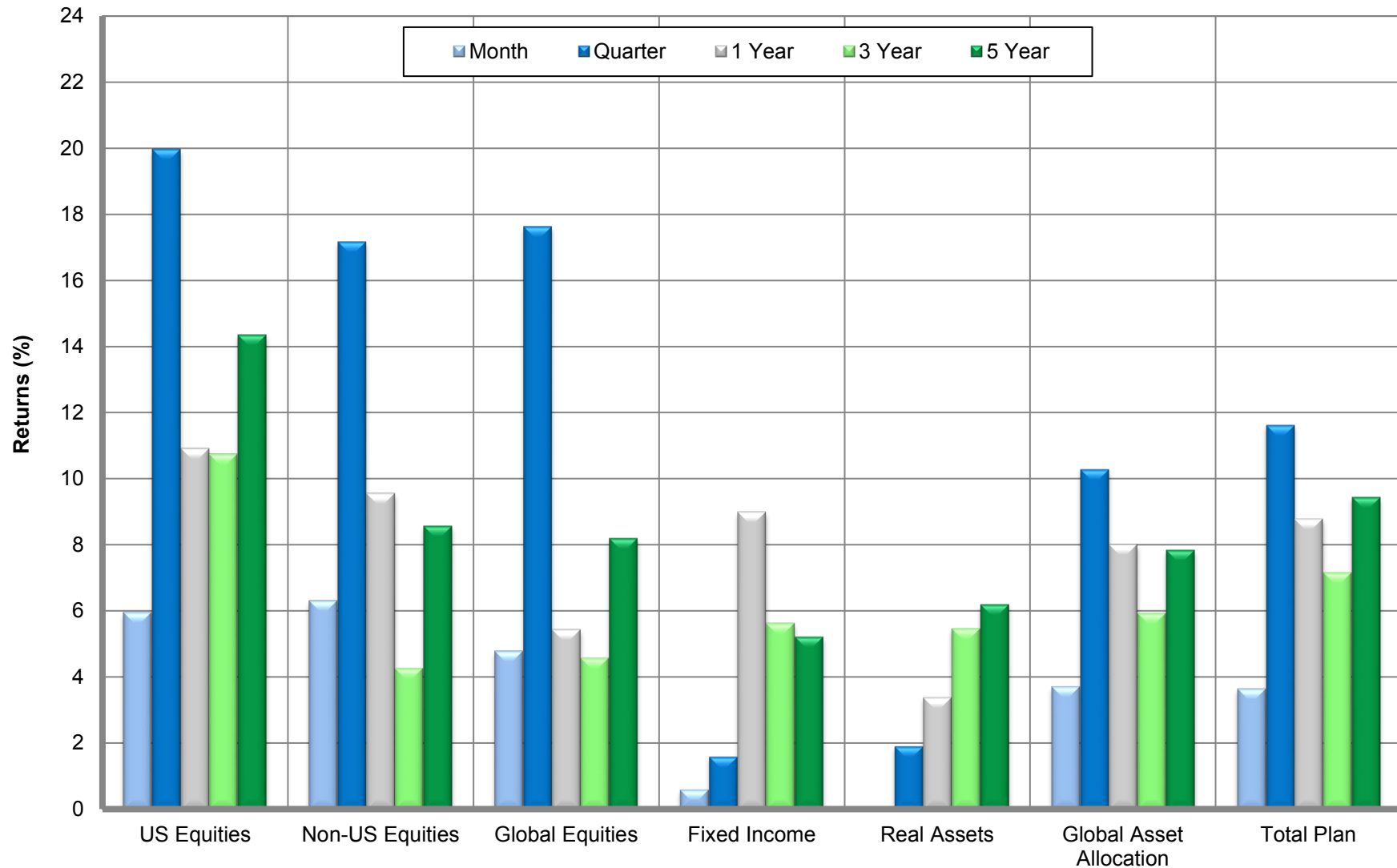
STATE STREET

	1 Mo	Qtr	YTD	1 Yr	2 Yrs	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs
SONOMA TOTAL FUND POLICY INDEX	3.11	10.02	12.74	12.74	15.76	8.78	10.07	8.91	7.14	6.49
DJ Industrial Average Total Return Index	3.41	10.73	9.72	9.72	17.27	9.90	14.65	12.97	10.00	7.95
S&P 500	3.84	12.15	18.40	18.40	24.77	14.18	15.22	13.88	9.88	7.47
NASDAQ Composite Index	5.71	15.62	44.92	44.92	40.75	24.39	22.12	18.46	13.66	
Russell 1000	4.23	13.69	20.96	20.96	26.09	14.82	15.60	14.01	10.07	7.75
Russell 1000 Growth	4.60	11.39	38.49	38.49	37.44	22.99	21.00	17.21	12.54	8.27
Russell 1000 Value	3.83	16.25	2.80	2.80	14.05	6.07	9.74	10.50	7.34	6.82
Russell 2000	8.65	31.37	19.96	19.96	22.71	10.25	13.26	11.20	8.91	8.74
Russell 2000 Growth	9.35	29.61	34.63	34.63	31.52	16.20	16.36	13.48	10.69	8.52
Russell 2000 Value	7.92	33.36	4.63	4.63	13.17	3.72	9.65	8.66	6.92	8.54
Russell 3000	4.50	14.68	20.89	20.89	25.85	14.49	15.43	13.79	9.98	7.82
MSCI ACWI EX US SMALL CAP	6.99	18.57	14.24	14.24	18.26	4.59	9.37	5.95	6.41	8.52
S&P DEVELOPED EX U.S. SMALLCAP	6.58	18.21	14.27	14.27	19.35	5.14	9.81	7.64	6.80	8.45
GLOBAL ASSET ALLOCATION BENCHMARK	3.30	10.45	14.31	14.31	17.41	8.97	10.07			
MSCI EAFE (NET)	4.65	16.05	7.82	7.82	14.70	4.28	7.45	5.51	4.48	4.50
MSCI EMERGING MARKETS	7.35	19.70	18.31	18.31	18.36	6.17	12.81	3.63	7.60	10.36
MSCI AC World IMI w/USA GROSS (NET)	5.00	15.78	16.60	16.60	21.57	10.05	12.49	9.42	7.63	
MSCI All Country World ex US IMI net	5.62	17.22	11.12	11.12	16.26	4.83	8.98	5.05	5.08	5.64
BBG BARC Agg Bd	0.14	0.67	7.51	7.51	8.11	5.34	4.44	3.84	4.49	4.83
BBG BARC US Univ Idx	0.35	1.29	7.58	7.58	8.43	5.45	4.87	4.16	4.74	5.12
BBG BARC US MBS Idx	0.22	0.24	3.87	3.87	5.10	3.71	3.05	3.01	4.11	4.44
CS Leveraged Loan Index	1.30	3.64	2.78	2.78	5.44	3.99	5.19	4.47	4.45	4.63
LIBOR 1 MONTH INDEX	0.01	0.04	0.48	0.48	1.34	1.59	1.29	0.74	1.40	1.64
LIBOR + 400 BPS	0.34	1.02	4.50	4.50	5.39	5.65	5.33			
CPI + 500 BPS 1 ML	0.35	1.35	6.23	6.23	6.69	6.88				
ICE BofA US 3-Month Treasury Bill	0.01	0.03	0.67	0.67	1.47	1.61	1.20	0.64	1.23	1.51
NCREIF ODCE 1 MO LAG	0.00	0.48	1.39	1.39	3.47	5.18	6.64	10.27	6.64	7.56
NCREIF FARMLAND INDEX 1 ML	0.00	0.96	3.84	3.84	4.58	5.33	6.13	10.86	12.95	12.23
UBS CORE FARMLAND 1ML	0.00	1.13	4.31	4.31	4.56	5.19	5.23	8.96	10.38	10.45
RUSSELL 2000 BLENDED	8.65	31.37	19.96	19.96	22.71	10.25	15.14	11.34	8.67	9.87

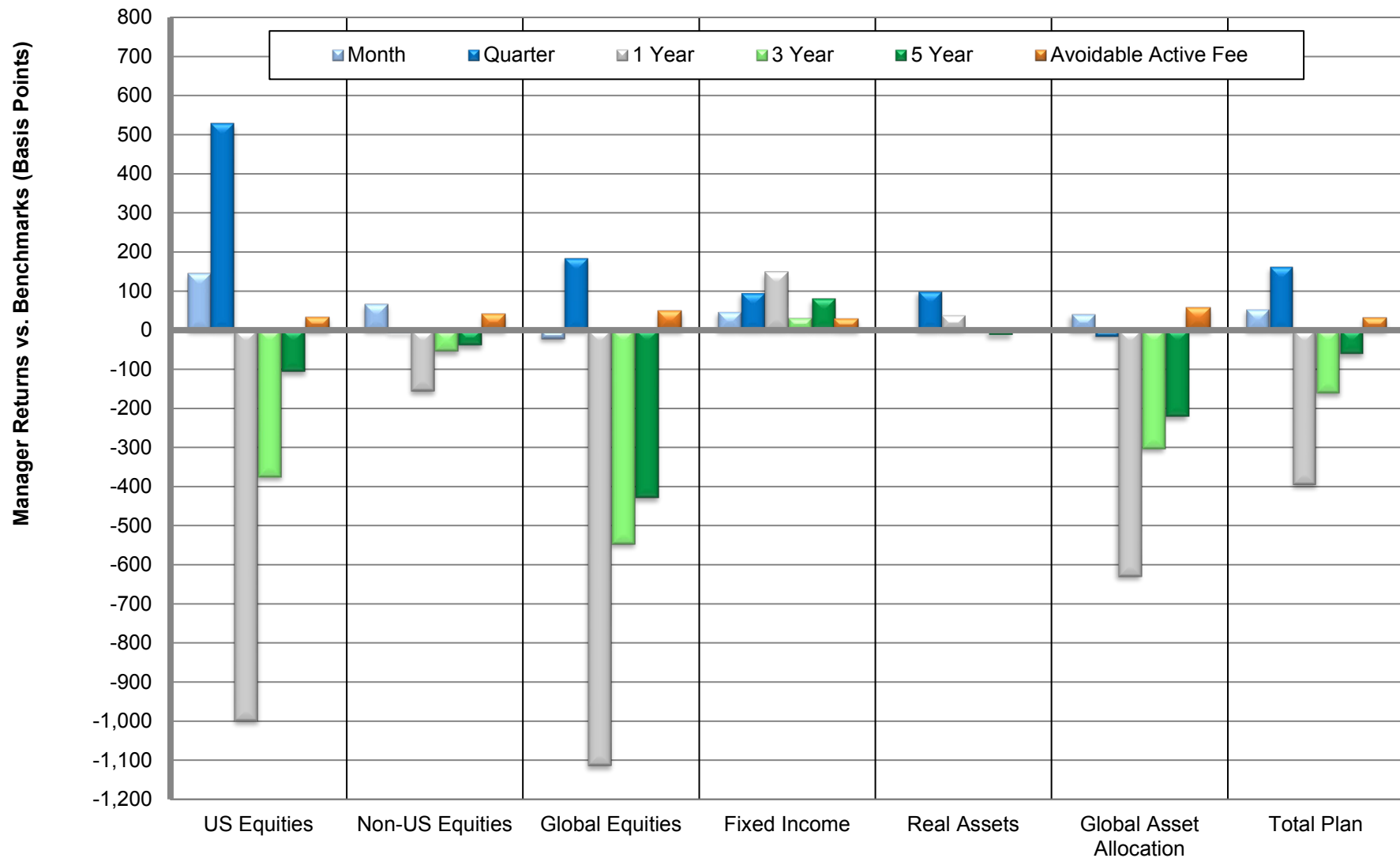
1 Custom Index: 80% NCREIF Farmland Annual Cropland Fixed/Var Rent + 20% NCREIF Farmland Permanent Cropland Fixed/Var Rent

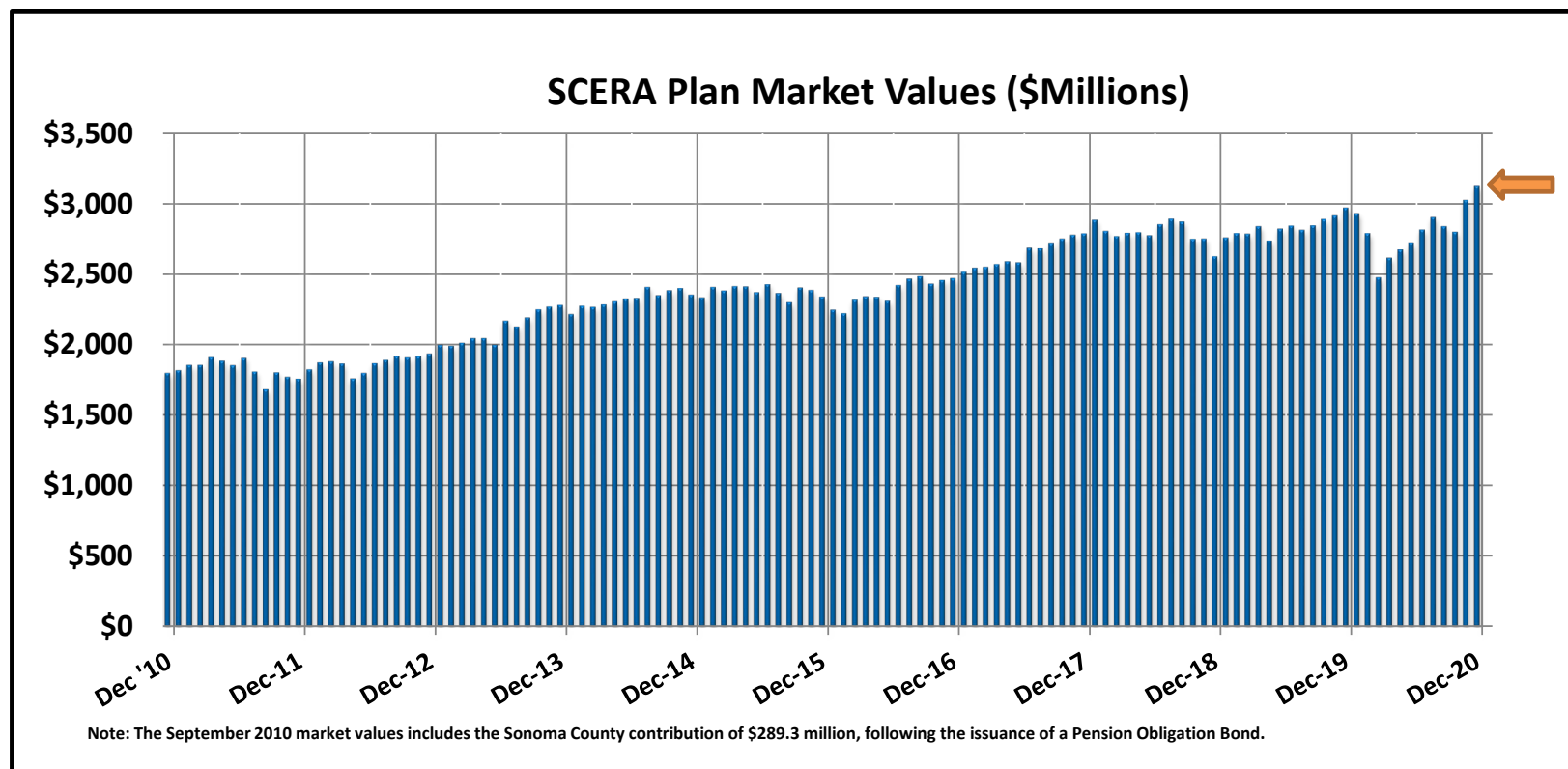
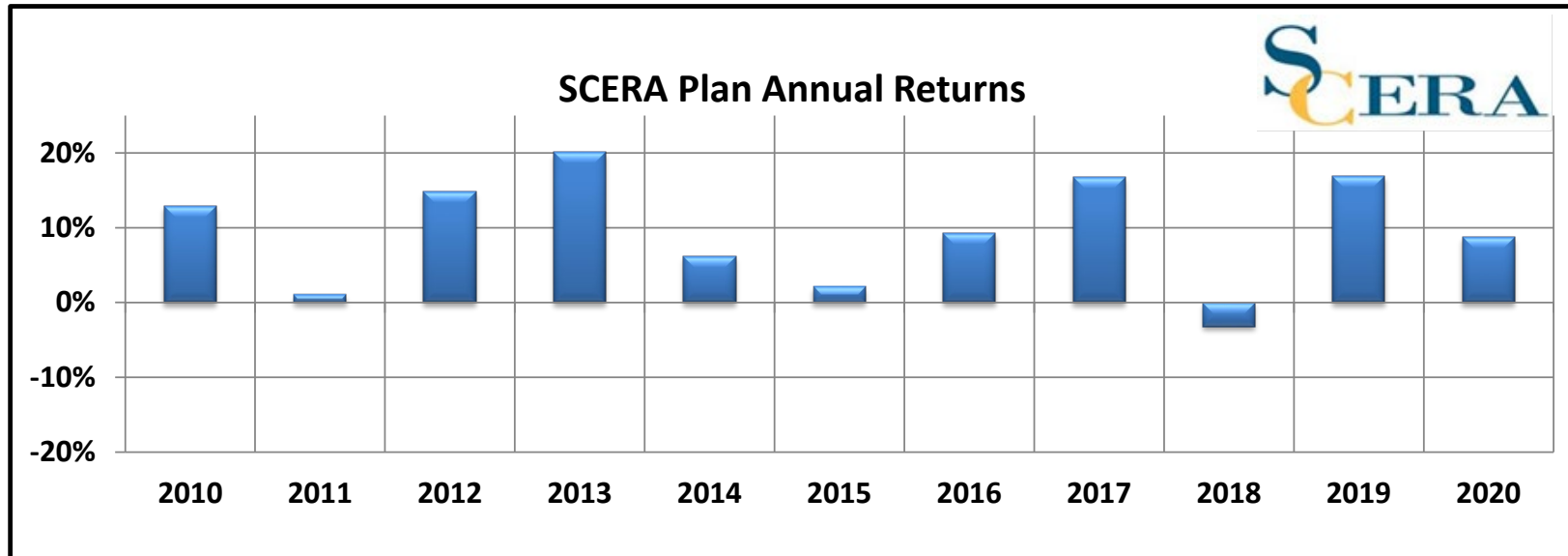
2 Russell 2000 Blended benchmark is Russell 2000 Value Index from 1/1/2000 to 12/31/2016. As of 1/1/2017 it is Russell 2000 Index.

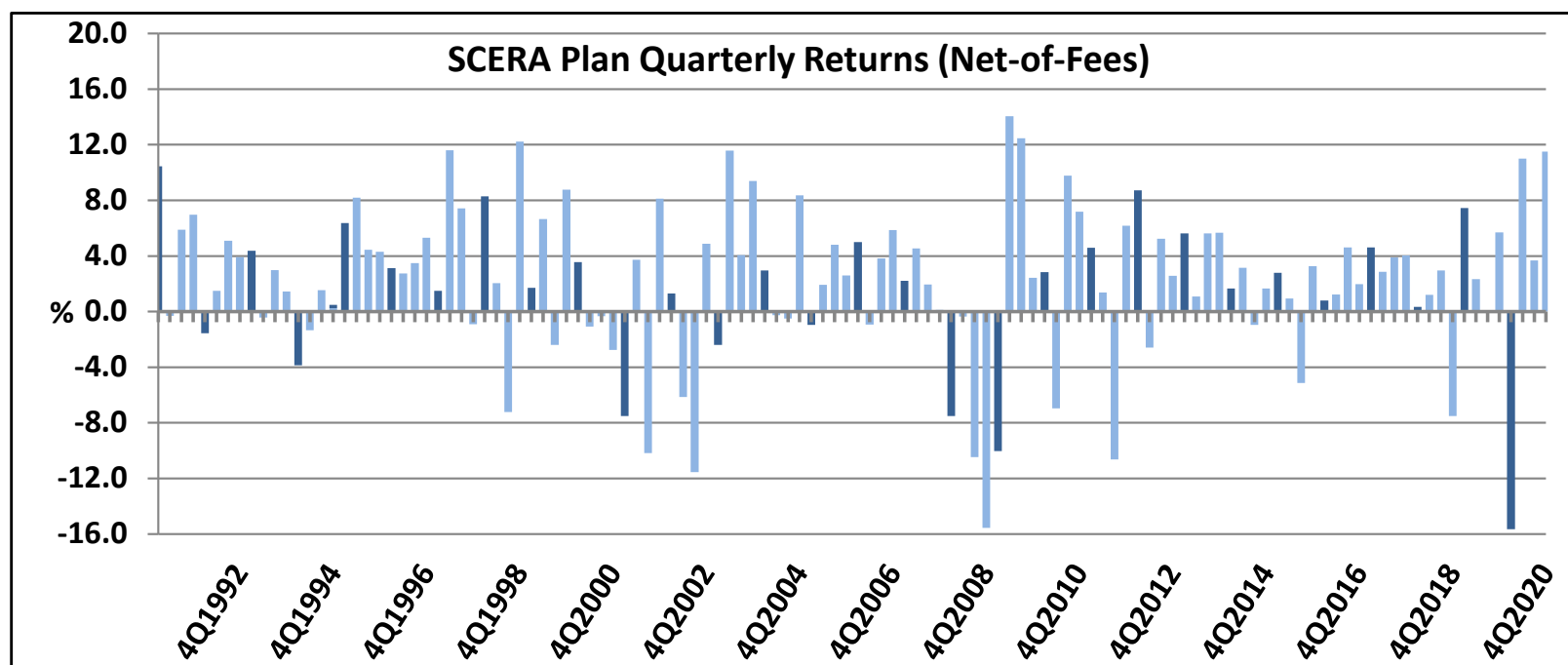
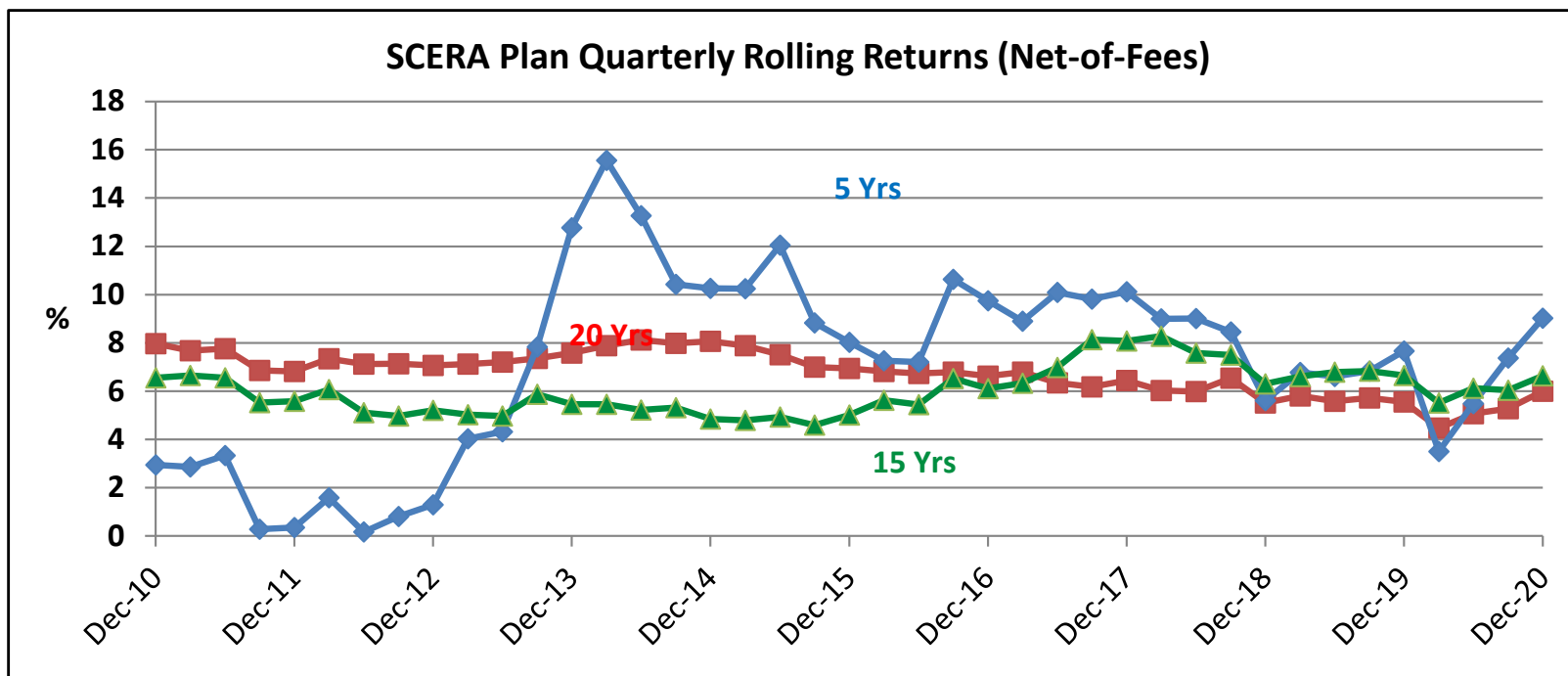
SCERA Investment Returns by Asset Class Periods Ending December 31, 2020



SCERA Asset Class Returns vs. Benchmarks Periods Ending December 31, 2020







Source: Aon Hewitt

Sonoma County Employees' Retirement Association

SUMMARY OF "OPPORTUNISTIC" PERFORMANCE

INTERNAL RATES OF RETURN (NET-OF- BASE MANAGEMENT FEES)

Periods Ending **30-Nov-20**

DK SOF Fund III	
	USD (000's)
Total Capital Commitment	75,000
Capital Contributions ITD	49,168
Remaining Commitment	25,832
Capital Distributions ITD	37,961
Net Profit/Loss ITD	12,639
Ending Appraised Value	23,846
Inception to Date IRR	8.66%

DK SOF Fund IV	
	USD (000's)
Total Capital Commitment	50,000
Capital Contributions ITD	44,750
Remaining Commitment	5,250
Capital Distributions ITD	19,660
Net Profit/Loss ITD	4,567
Ending Appraised Value	29,657
Inception to Date IRR	7.32%

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

Source: Citco Fund Administration

TCW TALF Opportunities Fund	
	USD (000's)
Total Capital Commitment	35,000
Capital Contributions ITD	3,500
Remaining Commitment	31,500
Capital Distributions ITD	
Net Profit/Loss ITD	1
Ending Appraised Value	3,501
Inception to Date IRR	0.00%

Note: No management fee is being charged on uninvested called capital.

Sonoma County Employees' Retirement Association

SUMMARY OF PERFORMANCE
RATES OF RETURN (GROSS-OF-FEES)
Periods Ending December 31, 2020
(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	679,347	5.94	19.96	10.90	10.90	10.74	14.36	13.98	10.23	8.60	12.94	6/1/1982
	BENCHMARK (RUSSELL 3000)		4.50	14.68	20.89	20.89	14.49	15.43	13.79	9.98	7.82	12.37	
	JACOBS LEVY 130/30	264,266	6.90	22.18	14.09	14.09	13.30	16.08	16.65			11.81	3/1/2007
	RUSSELL 3000		4.50	14.68	20.89	20.89	14.49	15.43	13.79			9.68	
	SSGA RUSSELL 1000 INDEX FUND	266,374	4.23	13.70	20.98	20.98						15.03	10/1/2018
	RUSSELL 1000		4.23	13.69	20.96	20.96						15.01	
	SYSTEMATIC	148,707	7.39	28.48	5.24	5.24	4.31	11.83	11.53	9.83	11.27	12.05	1/1/2000
	¹ RUSSELL 2000 BLENDED		8.65	31.37	19.96	19.96	10.25	15.14	11.34	8.67	9.87	10.46	
NON-U.S. EQUITY	TOTAL NON-US EQUITY	649,195	6.30	17.16	9.55	9.55	4.28	8.58	5.68	5.14		6.58	4/1/2001
	BENCHMARK (BLEND)		5.62	17.22	11.12	11.12	4.83	8.98	5.11	4.73		5.53	
	ARROWSTREET 130/30	233,715	6.83	17.71	15.76	15.76	8.15	12.14				8.58	2/1/2011
	² MSCI INT'L EQUITY BLENDED II		5.62	17.22	11.12	11.12	4.83	8.98				5.02	
	TEMPLETON	616											4/1/2005
	³ MSCI INT'L EQUITY BLENDED I												
	SSGA ACWI EX-US IMI INDEX FUND	414,865	5.54	17.13	11.35	11.35	5.10	9.27				6.28	6/1/2013
	MSCI ACWI EX-US IMI (NET)		5.62	17.22	11.12	11.12	4.83	8.98				6.02	
GLOBAL EQUITY	TOTAL GLOBAL EQUITY	483,105	4.79	17.62	5.46	5.46	4.59	8.21	7.46	6.39		6.75	4/1/2005
	BENCHMARK (BLEND)		5.00	15.78	16.60	16.60	10.05	12.49	9.28	7.30		7.71	
	SSGA ACWI IMI INDEX FUND	23,674											12/14/2020
	MSCI ACWI IMI (NET) with USA Gross												
	HEXAVEST	202,811	4.95	12.10	6.33	6.33	5.42	8.88				6.94	4/1/2014
	⁴ MSCI Global Equity Blended I		5.00	15.78	16.60	16.60	10.05	12.49				9.15	
	DODGE & COX	256,620	4.64	22.37	4.76	4.76	6.59	11.88	12.09	8.25	9.13	9.57	8/1/1997
	⁵ MSCI Global Equity Blended II		5.00	15.78	16.60	16.60	10.05	12.20	11.73	8.13	7.41	7.90	
GAA	GMO, GLOBAL ASSET ALLOCATION	151,334	3.72	10.30	8.02	8.02	5.94	7.85	6.35	5.95		6.52	4/1/2005
	⁶ BENCHMARK (COMPOSITE)		3.30	10.45	14.31	14.31	8.97	10.07	7.55	6.16		6.62	

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 MSCI EAFE (Net) 5/1/2001 to 9/30/2007 ; MSCI AC World ex US (Net) 10/1/2007 to 1/31/2013 ; MSCI ACWI ex US IMI (Net) 2/1/2013 to Present

⁴ MSCI AC World (Net) 5/1/2008 to 6/30/2013 ; MSCI ACWI IMI (Net) 7/1/2013 - 12/31/2015 ; MSCI ACWI IMI (Net) with USA Gross 1/1/2016 to Present

⁵ Russell 1000 Value to 9/30/2018; MSCI ACWI IMI (Net) with USA Gross 1/10/2018 to Present

⁶ MSCI AC World (Net) 4/1/2005 to 03/31/2011 ; MSCI AC World IMI (Net) 4/1/2011 to 12/31/2012 ; Composite 65% MSCI ACWI IMI (Net) & 35% BB US Aggregate Bond Index 01/01/2013 to Present

PERFORMANCE SUMMARY (GROSS-OF-FEES)

Periods Ending December 31, 2020

PERFORMANCE SUMMARY (GROSS-OF-FEES)		Market										Inception	
Periods Ending December 31, 2020		Value	Month	QTR	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs	ITD	Date
FIXED INCOME	TOTAL FIXED INCOME	481,505	0.61	1.63	9.00	9.00	5.63	5.23	4.72	5.57	5.58	7.07	9/1/1986
	BENCHMARK (BB US AGGREGATE)		0.14	0.67	7.51	7.51	5.34	4.44	3.84	4.49	4.83	6.17	
	REAMS CORE PLUS	134,267	0.49	2.12	17.92	17.92	9.28	7.30	5.97	6.75		6.39	7/1/2001
	BB US AGGREGATE		0.14	0.67	7.51	7.51	5.34	4.44	3.84	4.49		4.77	
	DOUBLELINE CORE PLUS	130,251	0.36	0.53	4.69	4.69	4.47	4.23				4.02	7/1/2014
	BB US AGGREGATE		0.14	0.67	7.51	7.51	5.34	4.44				3.79	
	BB US MORTGAGE BACKED SECURITIES INDEX		0.22	0.24	3.87	3.87	3.71	3.05				2.89	
	PIMCO CORE PLUS	130,238	0.50	1.13	8.20	8.20	5.69	5.05				4.45	4/1/2011
	BB US AGGREGATE		0.14	0.67	7.51	7.51	5.34	4.44				3.89	
	GUGGENHEIM BANK LOANS	86,748	1.37	3.30	2.49	2.49	4.03	5.19				4.25	10/1/2013
	CREDIT SUISSE LEV LOAN INDEX		1.30	3.64	2.78	2.78	3.99	5.19				4.05	
	TCW TALF OPPORTUNITIES FUND	0											7/1/2020
BB US AGGREGATE													

REAL ASSETS*	TOTAL REAL ASSETS	550,046		1.94	3.41	3.41	5.47	6.21	9.75	4.40		5.52	1/1/2003
	BENCHMARK (COMPOSITE)			0.95	3.04	3.04	5.43	6.35	9.81	6.34		7.38	
	JPMORGAN STRAT. PROPERTY FUND	134,635		-0.03	1.78	1.78	4.56	6.15	9.93			9.93	1/1/2011
	NCREIF ODCE 1 MONTH LAGGED			0.48	1.39	1.39	5.18	6.64	9.90			9.90	
	UBS TRUMBULL PROPERTY FUND	124,997		-0.18	-2.13	-2.13	1.59	3.76	7.69	5.97		7.14	1/1/2003
	NCREIF ODCE 1 MONTH LAGGED			0.48	1.39	1.39	5.18	6.64	10.27	6.64		7.63	
	UBS AGRIVEST FARMLAND FUND	136,420		1.31	4.40	4.40	4.70	5.35	8.34			8.20	11/1/2010
	CORE FARMLAND INDEX 1 MO. LAG			1.13	4.31	4.31	5.19	5.23	10.27			8.81	
	NCREIF FARMLAND INDEX 1 MO. LAG			0.96	3.84	3.84	5.33	6.13	10.86			10.86	
	IFM GLOBAL INFRASTRUCTURE FUND	85,886		1.87	4.13	4.13	10.84					10.74	9/1/2017
	CPI + 500 bps 1 MO. LAG			2.20	6.43	6.43	6.87					6.79	
	AXINFRA NA II LP	68,108		11.10	-7.76	-7.76			Axiom calculated Net IRR			4.90	10/1/2019
	CPI + 500 bps 1 MO. LAG			2.20	6.43	6.43						6.43	

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

STRATEGIC	PLAN LEVEL CASH	25,607	0.00	0.00	0.37	0.37	1.42	1.06	0.66			1.29	5/1/2006
	91 DAY T-BILL		0.01	0.03	0.67	0.67	1.61	1.20	0.64			1.16	
	TOTAL STRATEGIC PORT EXCL OVERLAYS	3,020,140	3.62	11.38	7.48	7.48	6.47	8.97	8.75	6.99	6.41	9.41	3/1/1979
	TOTAL STRAT PORT EXCL EIRP OVERLAY	3,058,371	3.68	11.81	9.17	9.17	7.20	9.53	9.06	7.19	6.56	9.48	3/1/1979
	⁷ PARAMETRIC CASH OVERLAY G/L IMPACT	38,231	0.10	0.56	1.93	1.93	0.53	0.34				0.50	12/1/2013
	TOTAL STRAT PORT EXCL CASH OVERLAY	3,031,393	3.62	11.37	7.33	7.33	6.40	8.92	8.72	6.97	6.40	9.40	3/1/1979
	PARAMETRIC EIRP RTN ON NOTIONAL VALUE	11,253	0.69	1.31	-4.17	-4.17	-1.59					-0.87	2/1/2017
	PARAMETRIC EIRP OVERLAY G/L IMPACT	11,253	0.02	0.03	-0.11	-0.11	-0.13					-0.03	3/1/2017
	TOTAL STRATEGIC PORTFOLIO	3,069,624	3.68	11.80	9.01	9.01	7.12	9.47	9.03	7.17	6.55	9.48	3/1/1979
Opp.	DAVIDSON KEMPNER FUNDS	53,503	2.04	3.21	-3.15	-3.15	7.53		Staff calculated IRR			7.95	7/1/2016
	⁹ BENCHMARK		8.02	4.72	11.75	11.75	8.05		Staff estimated value added			\$5,202	

TOTAL	TOTAL PLAN	3,123,128	3.65	11.64	8.79	8.79	7.16	9.45	9.02	7.17	6.54	9.48	3/1/1979
	TOTAL PLAN TARGET POLICY		3.11	10.02	12.74	12.74	8.78	10.07	8.91	7.14	6.49	10.04	

⁷ Cash Overlay Impact includes the gains/losses from the GBP hedge for the investment in Davidson Kempner SOF III-A.

⁸ 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.

⁹ 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: December 31, 2020

(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	447,723	15.0%	14.0%	16.0%	18.0%	56,549					
Total Alternative Fixed Income	86,748	2.9%	2.0%	3.0%	4.0%						
Total Fixed Income	534,472	17.8%	17.0%	19.0%	21.0%	56,549	591,021	19.2%	18.0%	19.0%	20.0%
Core Real Estate	259,632	8.7%		10.0%							
Farmland	136,420	4.6%		5.0%							
Infrastructure	153,994	5.1%		5.0%							
Total Real Assets	550,046	18.4%	17.0%	20%	23.0%		550,046	17.9%		20.0%	
US Large Cap Broad	264,266	8.8%		8.0%		(10,263)	254,003	8.3%	7.0%	8.0%	9.0%
US Large Cap	266,374	8.9%		8.5%		1,358	267,732	8.7%	7.5%	8.5%	9.5%
US Small Cap	148,707	5.0%		5.0%		9,218	157,925	5.1%	4.5%	5.0%	5.5%
Total US Equity	679,347	22.7%	19.5%	21.5%	23.5%	314	679,661	22.1%		21.5%	
Non- US Equity	649,195	21.7%	19.5%	21.5%	23.5%	31,727	680,923	22.2%	20.5%	21.5%	22.5%
Global Equity	581,472	19.4%	16.0%	18.0%	20.0%	(13,671)	567,802	18.5%	17.0%	18.0%	19%
Total Equities	1,910,015	63.8%	58.0%	61.0%	64.0%	18,370	1,928,385	62.7%	59.0%	61.0%	63%
Total Strategic Port. ex Cash	2,994,532	100%									
Cash (Plan + Overlays)	75,092					(74,919)	172	0.0%			
Opportunistic	53,503										
Davidson Kempner	53,503						53,503	excluded from Cash Overlay			
TALF Opportunities Fund	-						3,500	included in Cash Overlay			
Total Plan Assets	3,123,128						3,126,628	100.0%			

Non-US as % of Total Equities - Physicals

47.2%

Non-US as % of Total Equities - Economic Exposure

48.1%

Non-US as % of Total Equities - Policy Target

50.0%

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

43.5%

Note 1) The total market exposure gained/reduced in addition to the managers by using derivatives within the Parametric overlay account is \$74.9 million.

2) The total physical cash (including manager cash and TALF 2.0) being overlaid by Parametric is \$85.1 million.

3) The Total Cash contains \$53.5 million for the margin accounts supporting the Parametric Cash and EIRP overlays.

4) The Global Asset Allocation mandate is being wound down over 2021. The Global Equity and Fixed Income has been added back to the respective asset class.