

PORTFOLIO PERFORMANCE REVIEW

LOS ANGELES CITY EMPLOYEES' RETIREMENT SYSTEM

Quarter Ending March 31, 2020



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

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EXECUTIVE SUMMARY

NEPC, LLC

PERFORMANCE OVERVIEW

Q1 Market Summary

Macro			Equity			Credit			Real Assets		
US Dollar	VIX	US 10-Yr	S&P 500	MSCI EAFE	MSCI EM	US Agg.	High Yield	Dollar EMD	Oil	Gold	REITS
2.8%	39.8	-124 bps	-19.6%	-22.8%	-23.6%	3.1%	-12.7%	-13.4%	-67.1%	4.0%	-25.5%

	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank	15 Yrs	Rank	Inception	Inception Date
LACERS Master Trust	\$16,280,181,604	-13.17%	57	-8.08%	52	-4.85%	49	3.44%	31	4.09%	36	7.04%	25	6.20%	22	7.61%	Oct-94
Policy Index		-14.48%	74	-8.57%	65	-5.39%	60	3.17%	37	3.97%	39	6.85%	29	6.02%	27	7.54%	Oct-94
InvMetrics Public DB \$1-50B Gross Median		-12.57%		-7.95%		-4.88%		2.63%		3.45%		6.24%		5.52%		7.42%	Oct-94

Note: Performance is gross of fees

Global risk assets declined during the quarter as markets digested the potential economic impact of COVID-19

- The U.S. Equity composite under-performed. The Non-U.S. Equity composite under-performed due to manager selection.

Credit spreads increased, ending the quarter well above long-term medians

- The Total Fixed Income composite underperformed due to manager selection

Widespread stimulative fiscal and monetary policies have been implemented to help support economic growth

Energy prices collapsed as tensions intensified between Saudi Arabia and Russia, leading to supply gluts and a sharp decline in prices



Market segment (index representation) as follows: US Dollar (DXY Index), VIX (CBOE Volatility Index), US 10-Year (US 10-Year Treasury Yield), S&P 500 (US Equity), MSCI EAFE Index (International Developed Equity), MSCI Emerging Markets (Emerging Markets Equity), US Agg (Barclays US Aggregate Bond Index), High Yield (Barclays US High Yield Index), Dollar EMD (JPM EMBI Global Diversified Index), Crude Oil (WTI Crude Oil Spot), Gold (Gold Price Spot), and REITs (NAREIT Composite Index). Source: FactSet

MARKET OUTLOOK

NEPC, LLC

MACRO PERFORMANCE OVERVIEW

Q1 Macro Market Summary

The US announced a \$2.2 trillion dollar stimulus package, representing roughly 10% of total GDP

Government bond yields declined with the US 10-Year Treasury yields falling 124 bps, ending Q1 at historical lows

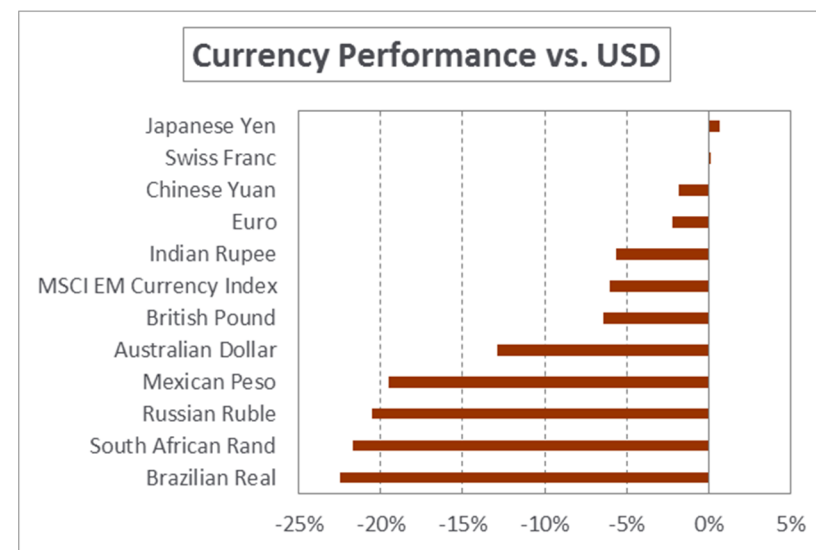
Safe-haven currencies broadly rallied, reflecting a flight-to-quality across markets

Central Banks	Current Rate	CPI YOY	Notes from the Quarter
Federal Reserve	0.00% - 0.25%	2.3%	The Fed cut interest rates by a total of 150 basis points in two emergency meetings in March and announced unlimited QE
European Central Bank	0.00%	1.2%	The ECB maintained its current benchmark interest rates and announced an €750 billion QE program
Bank of Japan	-0.10%	0.5%	The BoJ continued its ultra-easy QE and introduced an unscheduled policy to purchase an additional ¥1 trillion worth of government bond

Source: FactSet

	Yield 12/31/19	Yield 03/31/20	\Delta
US 10-Year	1.92%	0.68%	-1.24%
US 30-Year	2.39%	1.32%	-1.07%
US Real 10-Year	0.15%	-0.17%	-0.32%
German 10-Year	-0.19%	-0.49%	-0.30%
Japan 10-Year	-0.02%	0.02%	0.04%
China 10-Year	3.20%	2.61%	-0.59%
EM Local Debt	5.22%	5.36%	0.14%

Source: FactSet



Source: FactSet



EQUITY PERFORMANCE OVERVIEW

Q1 Equity Market Summary

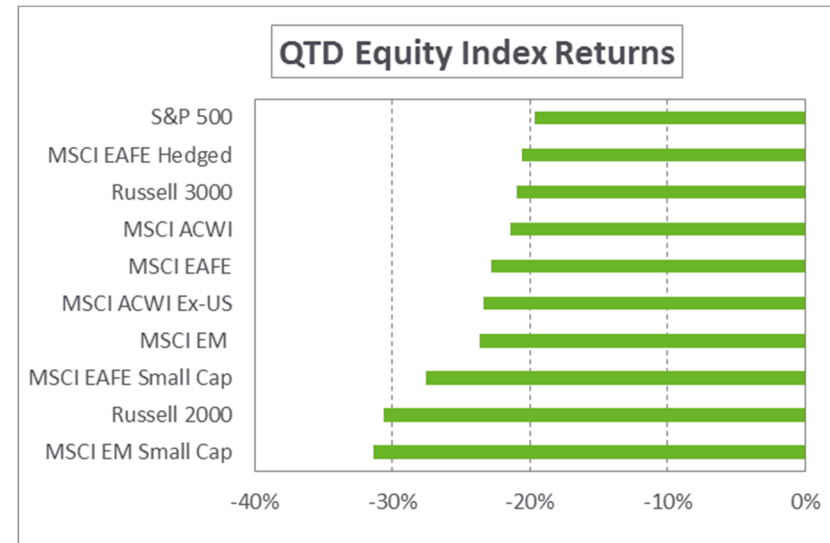
Global equities entered bear markets, falling over 20% from the peaks, amid COVID-19 concerns

Small cap equities underperformed given their sensitivity and vulnerability to an economic slowdown

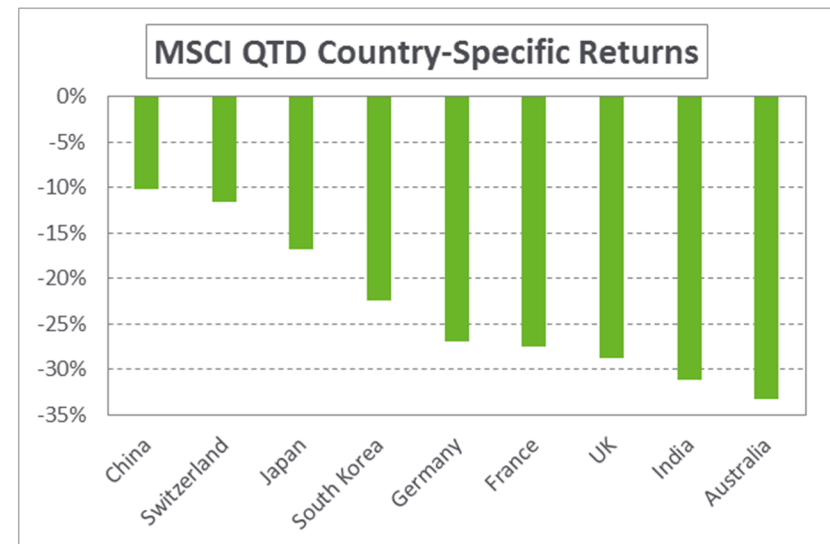
Chinese equities performed relatively well as COVID-19 cases declined and manufacturing data rebounded

Russell 3000 QTD Sector Returns	
Technology	-12.1%
Health Care	-12.9%
Consumer Discretionary	-20.5%
Consumer Staples	-15.1%
Energy	-51.6%
Materials & Processing	-28.3%
Producer Durables	-27.8%
Financial Services	-28.6%
Utilities	-15.1%

Source: FactSet



Source: FactSet



Source: FactSet



CREDIT PERFORMANCE OVERVIEW

Q1 Credit Market Summary

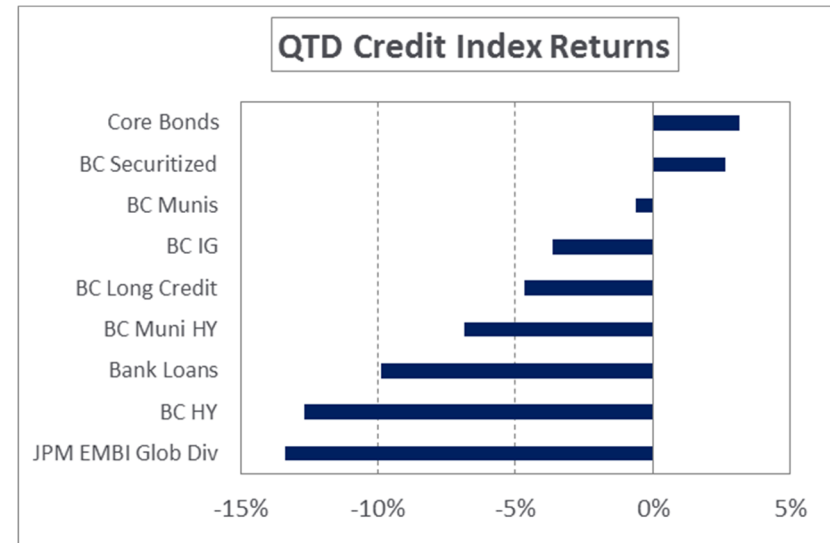
Credit spreads increased, ending the quarter well above long-term medians

US corporate high yield bonds fell 12.7% after spreads widened by 544 bps

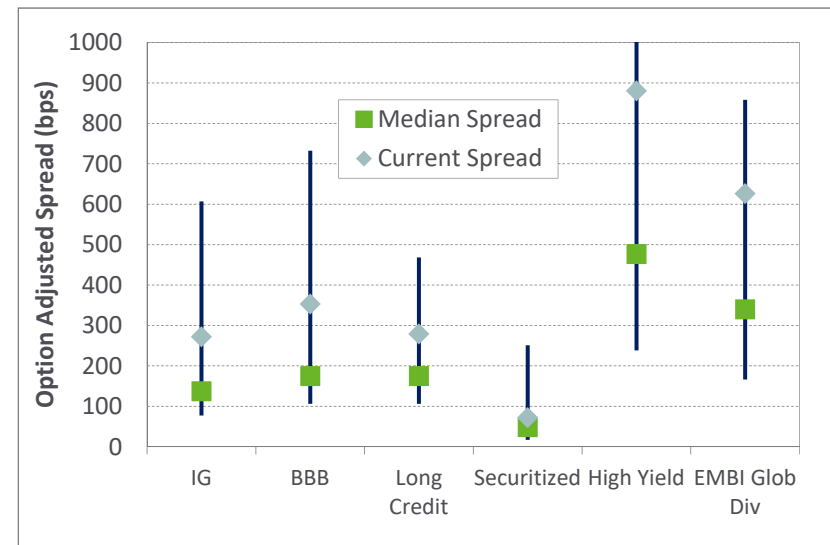
Long credit returns decreased 4.7%, reflecting spread widening, which offset the decline in rates rates

Credit Spread (Basis Points)	12/31/2019	3/31/2020	Δ
BC IG Credit	93	272	179
BC Long Credit	139	279	140
BC Securitized	42	72	30
BC High Yield	336	880	544
Muni HY	226	473	247
JPM EMBI	291	626	335
Bank Loans - Libor	372	734	362

Source: FactSet



Source: FactSet



Source: FactSet; Ranges calculated since 11/30/2000



REAL ASSETS PERFORMANCE OVERVIEW

Q1 Real Assets Market Summary

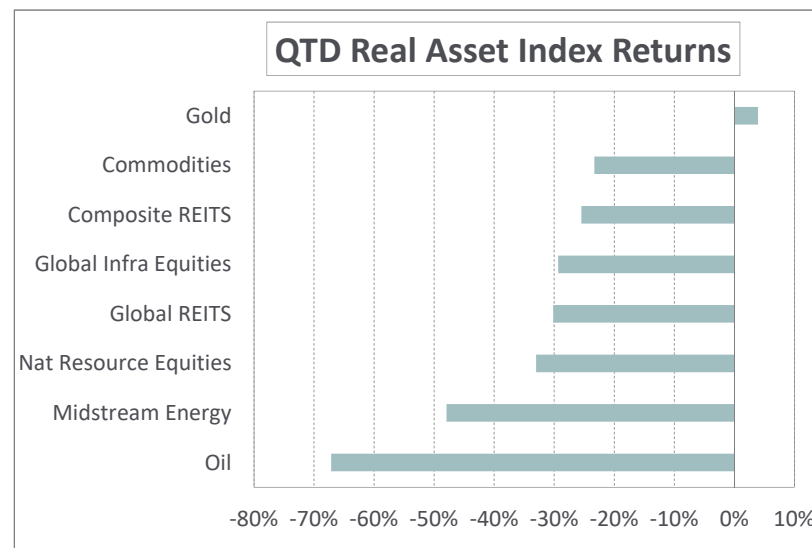
Spot WTI crude oil fell 67.1% as the Russia-Saudi Arabia price war and demand uncertainties from COVID-19 impacted both supply and demand

Commodities declined reflecting waning demand, with the exception of gold, which increased 4.0%, reflecting a flight-to-quality

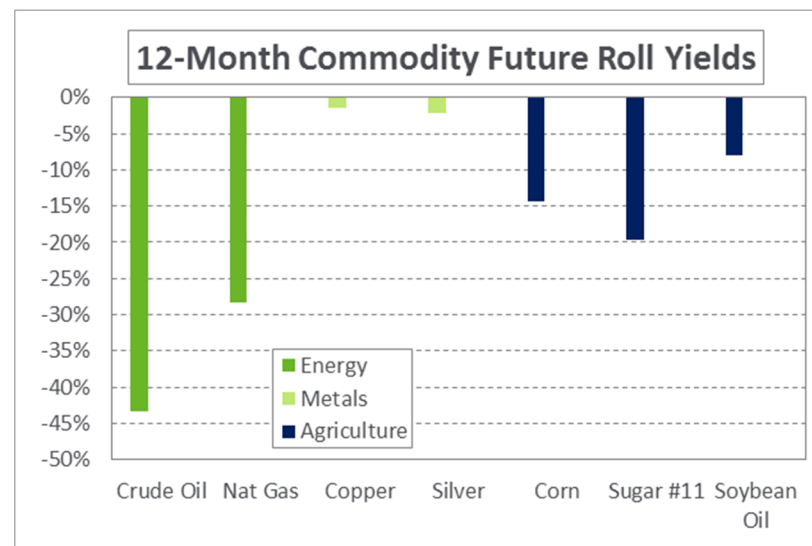
Real Asset Yields	12/31/2019	3/31/2020
Midstream Energy	6.4%	12.0%
Core Real Estate*	4.5%	4.5%
Composite REITs	4.1%	5.4%
Global REITs	4.2%	5.7%
Global Infrastructure Equities	4.0%	4.3%
Natural Resource Equities	3.9%	4.8%
US 10-Year Breakeven Inflation	1.8%	0.9%
Commodity Index Roll Yield	-1.7%	-14.3%
10-Year TIPS Real Yield	0.2%	-0.2%

Source: FactSet

Core Real Estate* yields are subject to a one quarter lag



Source: FactSet



Source: FactSet

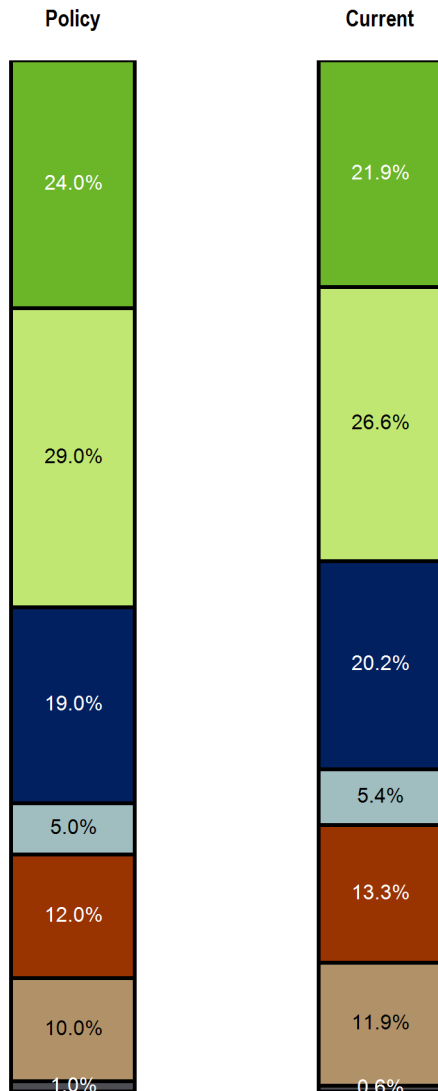


ASSET CLASS POLICY OVERVIEW

NEPC, LLC

Los Angeles City Employees' Retirement System

TOTAL FUND ASSET ALLOCATION VS. POLICY



Asset Allocation vs. Target						
	Current	Policy	Current	Difference	Policy Range	Within Range
U.S. Equity	\$3,569,588,350	24.00%	21.93%	-2.07%	19.00% - 29.00%	Yes
Non-US Equity	\$4,326,219,608	29.00%	26.57%	-2.43%	24.00% - 34.00%	Yes
Core Fixed Income	\$3,291,074,018	19.00%	20.22%	1.22%	15.00% - 22.00%	Yes
Credit Opportunities	\$883,134,987	5.00%	5.42%	0.42%	0.00% - 10.00%	Yes
Private Equity	\$2,168,845,778	12.00%	13.32%	1.32%		Yes
Real Assets	\$1,945,003,556	10.00%	11.95%	1.95%	7.00% - 13.00%	Yes
Cash	\$96,315,307	1.00%	0.59%	-0.41%	0.00% - 2.00%	Yes
Total	\$16,280,181,604	100.00%	100.00%			

*Difference between Policy and Current Allocation

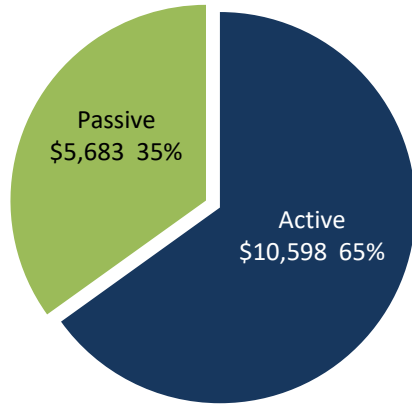
Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



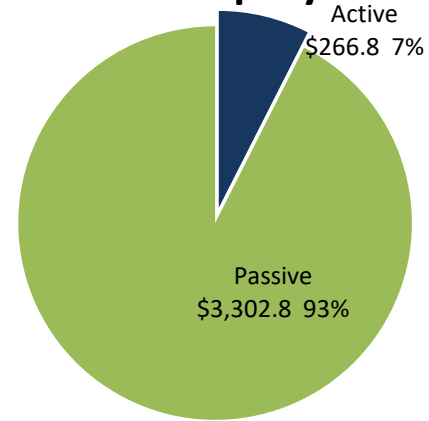
ACTIVE VS. PASSIVE MANAGER BREAKDOWN

Note: Market values shown in millions \$(000).

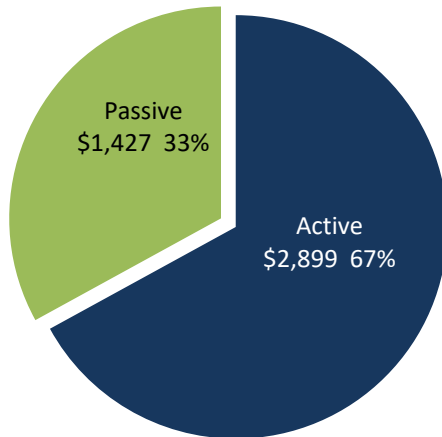
Total Fund



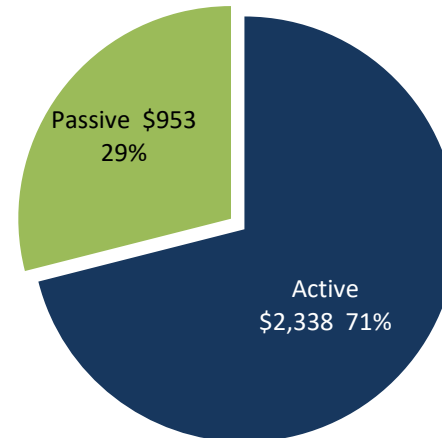
U.S. Equity



Non-U.S. Equity



Core Fixed Income



- Of the Total Fund, LACERS allocated 65% to active managers and 35% to passive managers.
- Credit Opportunities, Private Equity, and Real Assets programs are active and therefore are not shown.



PERFORMANCE OVERVIEW

NEPC, LLC

TOTAL FUND PERFORMANCE SUMMARY (GROSS OF FEES)

	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank	15 Yrs	Rank	Inception	Inception Date
LACERS Master Trust	\$16,280,181,604	-13.17%	57	-8.08%	52	-4.85%	49	3.44%	31	4.09%	36	7.04%	25	6.20%	22	7.61%	Oct-94
Policy Index		-14.48%	74	-8.57%	65	-5.39%	60	3.17%	37	3.97%	39	6.85%	29	6.02%	27	7.54%	Oct-94
InvMetrics Public DB \$1-50B Gross Median		-12.57%		-7.95%		-4.88%		2.63%		3.45%		6.24%		5.52%		7.42%	Oct-94

Over the past five years, the Fund returned 4.09% outperforming the policy index by 0.12% and ranked in the 36th percentile in the Public Funds \$1 Billion- \$50 Billion universe. The Fund's volatility was 8.14% and ranked in the 65th percentile over this period. The Fund's risk-adjusted performance, as measured by the Sharpe Ratio, ranks in the 34th percentile in its peer group.

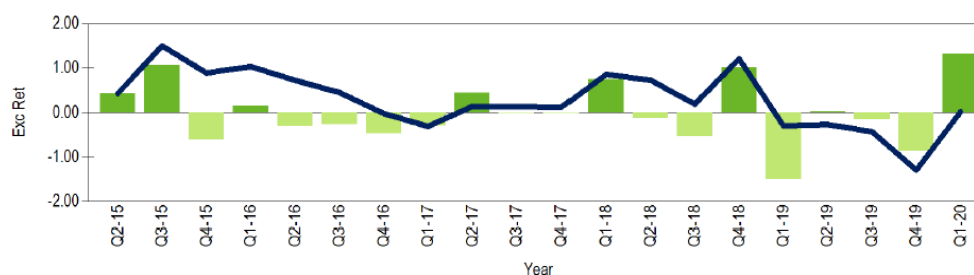
Over the past three years, the Fund returned 3.44% outperforming the policy index by 0.27% and ranked in the 31st percentile in its peer group. The Fund's volatility ranks in the 58th percentile resulting in a three-year Sharpe Ratio of 0.19 and ranked in the 33rd percentile.

In the one-year ended March 31, 2020, the Fund experienced a net investment loss of \$827.4 million, which includes a net investment loss of \$1.58 billion during the first calendar quarter. Assets decreased from \$17.32 billion twelve months ago to \$16.28 billion on March 31, 2020. The Fund returned -4.85%, outperforming the policy index by 0.54% and ranked in the 49th percentile in its peer group.

All asset classes were within policy range as of March 31, 2020.

The InvMetrics Public Funds \$1 Billion- \$50 Billion Universe contains 77 observations for the period ending March 31, 2020.

Quarterly and Cumulative Excess Performance



5 Years Ending March 31, 2020

	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank
LACERS Master Trust	4.09%	36	8.14%	65	0.36	34	0.39	33
Policy Index	3.97%	39	9.30%	88	0.31	46	0.33	42
InvMetrics Public DB \$1-50B Gross Median	3.45%	--	7.79%	--	0.28	--	0.29	--

3 Years Ending March 31, 2020

	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank
LACERS Master Trust	3.44%	31	8.95%	58	0.19	33	0.19	31
Policy Index	3.17%	37	10.16%	89	0.14	40	0.14	38
InvMetrics Public DB \$1-50B Gross Median	2.63%	--	8.31%	--	0.11	--	0.10	--



Los Angeles City Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
LACERS Master Trust	16,280,181,604	100.00	-13.17	-8.08	-4.85	3.44	4.09	7.04	7.61	Oct-94
Policy Index			<u>-14.48</u>	<u>-8.57</u>	<u>-5.39</u>	<u>3.17</u>	<u>3.97</u>	<u>6.85</u>	<u>7.54</u>	<u>Oct-94</u>
Over/Under			1.31	0.49	0.54	0.27	0.12	0.19	0.07	
U.S. Equity	3,569,588,350	21.93	-21.69	-13.85	-10.18	3.47	5.43	9.98	9.52	Oct-94
U.S. Equity Blend			<u>-20.90</u>	<u>-12.70</u>	<u>-9.13</u>	<u>4.00</u>	<u>5.77</u>	<u>10.15</u>	<u>8.55</u>	<u>Oct-94</u>
Over/Under			-0.79	-1.15	-1.05	-0.53	-0.34	-0.17	0.97	
Non-U.S. Equity	4,326,219,608	26.57	-24.28	-18.69	-16.12	-1.42	0.30	3.14	4.22	Nov-94
MSCI ACWI ex USA			<u>-23.36</u>	<u>-18.02</u>	<u>-15.57</u>	<u>-1.96</u>	<u>-0.64</u>	<u>2.05</u>	<u>4.08</u>	<u>Nov-94</u>
Over/Under			-0.92	-0.67	-0.55	0.54	0.94	1.09	0.14	
Core Fixed Income	3,291,074,018	20.22	2.55	5.07	8.43	4.76	3.53		3.71	Jul-12
Core Fixed Income Blend			<u>3.15</u>	<u>5.68</u>	<u>8.93</u>	<u>4.82</u>	<u>3.36</u>		<u>3.22</u>	<u>Jul-12</u>
Over/Under			-0.60	-0.61	-0.50	-0.06	0.17		0.49	
Credit Opportunities	883,134,987	5.42	-15.15	-11.73	-8.75	0.08	2.05		3.24	Jun-13
Credit Opportunities Blend			<u>-12.92</u>	<u>-9.64</u>	<u>-6.88</u>	<u>0.66</u>	<u>2.82</u>		<u>3.78</u>	<u>Jun-13</u>
Over/Under			-2.23	-2.09	-1.87	-0.58	-0.77		-0.54	
Real Assets	1,945,003,556	11.95	-4.40	-1.84	0.19	3.72	4.70	7.28	6.06	Nov-94
CPI + 5% (Unadjusted)			<u>1.67</u>	<u>4.52</u>	<u>6.61</u>	<u>7.01</u>	<u>6.88</u>	<u>6.80</u>	<u>7.27</u>	<u>Nov-94</u>
Over/Under			-6.07	-6.36	-6.42	-3.29	-2.18	0.48	-1.21	
Public Real Assets	1,128,163,061	6.93	-6.98	-4.20	-2.03	1.10	1.16		0.80	Jun-14
Public Real Assets Blend			<u>-12.83</u>	<u>-11.31</u>	<u>-9.81</u>	<u>-2.36</u>	<u>-1.51</u>		<u>-2.45</u>	<u>Jun-14</u>
Over/Under			5.85	7.11	7.78	3.46	2.67		3.25	
Private Real Estate	798,610,929	4.91	-0.59	1.73	3.55	6.75	8.11	9.19	6.80	Oct-94
Real Estate Blend			<u>1.17</u>	<u>4.46</u>	<u>5.71</u>	<u>7.66</u>	<u>9.32</u>	<u>11.35</u>	<u>9.75</u>	<u>Oct-94</u>
Over/Under			-1.76	-2.73	-2.16	-0.91	-1.21	-2.16	-2.95	
Private Equity	2,168,845,778	13.32	3.48	5.96	10.98	12.82	10.83	12.48	10.46	Nov-95
Private Equity Blend			<u>-20.26</u>	<u>-10.71</u>	<u>-6.37</u>	<u>7.12</u>	<u>8.93</u>	<u>13.67</u>	<u>12.08</u>	<u>Nov-95</u>
Over/Under			23.74	16.67	17.35	5.70	1.90	-1.19	-1.62	
Cash	96,315,307	0.59								



Los Angeles City Employees' Retirement System

TOTAL FUND PERFORMANCE DETAIL (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
LACERS Master Trust	16,280,181,604	100.00	-13.21	-8.19	-5.01	3.26	3.90	6.85		Oct-94
Policy Index			<u>-14.48</u>	<u>-8.57</u>	<u>-5.39</u>	<u>3.17</u>	<u>3.97</u>	<u>6.85</u>		Oct-94
Over/Under			1.27	0.38	0.38	0.09	-0.07	0.00		
U.S. Equity	3,569,588,350	21.93	-21.70	-13.88	-10.23	3.41	5.36	9.83		Oct-94
U.S. Equity Blend			<u>-20.90</u>	<u>-12.70</u>	<u>-9.13</u>	<u>4.00</u>	<u>5.77</u>	<u>10.15</u>		Oct-94
Over/Under			-0.80	-1.18	-1.10	-0.59	-0.41	-0.32		
Non-U.S. Equity	4,326,219,608	26.57	-24.36	-18.92	-16.44	-1.78	-0.06	2.79		Nov-94
MSCI ACWI ex USA			<u>-23.36</u>	<u>-18.02</u>	<u>-15.57</u>	<u>-1.96</u>	<u>-0.64</u>	<u>2.05</u>		Nov-94
Over/Under			-1.00	-0.90	-0.87	0.18	0.58	0.74		
Core Fixed Income	3,291,074,018	20.22	2.53	5.00	8.33	4.66	3.43		3.59	Jul-12
Core Fixed Income Blend			<u>3.15</u>	<u>5.68</u>	<u>8.93</u>	<u>4.82</u>	<u>3.36</u>		<u>3.22</u>	Jul-12
Over/Under			-0.62	-0.68	-0.60	-0.16	0.07		0.37	
Credit Opportunities	883,134,987	5.42	-15.22	-11.94	-9.03	-0.24	1.71		2.91	Jun-13
Credit Opportunities Blend			<u>-12.92</u>	<u>-9.64</u>	<u>-6.88</u>	<u>0.66</u>	<u>2.82</u>		<u>3.78</u>	Jun-13
Over/Under			-2.30	-2.30	-2.15	-0.90	-1.11		-0.87	
Real Assets	1,945,003,556	11.95	-4.44	-1.95	0.04	3.56	4.54	7.13		Nov-94
CPI + 5% (Unadjusted)			<u>1.67</u>	<u>4.52</u>	<u>6.61</u>	<u>7.01</u>	<u>6.88</u>	<u>6.80</u>		Nov-94
Over/Under			-6.11	-6.47	-6.57	-3.45	-2.34	0.33		
Public Real Assets	1,128,163,061	6.93	-7.03	-4.34	-2.23	0.86	0.94		0.59	Jun-14
Public Real Assets Blend			<u>-12.83</u>	<u>-11.31</u>	<u>-9.81</u>	<u>-2.36</u>	<u>-1.51</u>		<u>-2.45</u>	Jun-14
Over/Under			5.80	6.97	7.58	3.22	2.45		3.04	
Private Real Estate	798,610,929	4.91	-0.61	1.66	3.46	6.67	8.02	9.07		Oct-94
Real Estate Blend			<u>1.17</u>	<u>4.46</u>	<u>5.71</u>	<u>7.66</u>	<u>9.32</u>	<u>11.35</u>		Oct-94
Over/Under			-1.78	-2.80	-2.25	-0.99	-1.30	-2.28		
Private Equity	2,168,845,778	13.32	3.48	5.96	10.99	12.83	10.84	12.49		Nov-95
Private Equity Blend			<u>-20.26</u>	<u>-10.71</u>	<u>-6.37</u>	<u>7.12</u>	<u>8.93</u>	<u>13.67</u>		Nov-95
Over/Under			23.74	16.67	17.36	5.71	1.91	-1.18		
Cash	96,315,307	0.59								



Los Angeles City Employees' Retirement System

TOTAL FUND RISK STATISTICS (NET)

3 Years Ending March 31, 2020													
	% of Total MV (%)	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Annualized Alpha Jensen (%)	Rank	Information Ratio	Rank	Sortino Ratio RF	Rank	Tracking Error	Rank
LACERS Master Trust	100.00%	3.26%	35	8.96%	59	0.27%	45	0.06	53	0.17	34	1.48%	66
Total Equity	48.50%	0.55%	50	15.45%	71	-0.20%	30	-0.27	--	-0.08	50	0.77%	11
U.S. Equity	21.93%	3.41%	31	16.13%	44	-0.63%	36	-0.89	--	0.11	31	0.67%	11
Non-U.S. Equity	26.57%	-1.78%	38	15.58%	61	0.27%	33	0.16	37	-0.25	36	1.09%	14
Developed ex-U.S.	20.07%	-1.49%	51	15.37%	79	0.50%	45	0.19	39	-0.23	45	1.71%	28
Emerging Markets	6.50%	-2.92%	37	17.41%	61	-1.30%	32	-1.01	--	-0.35	37	1.28%	1
Core Fixed Income	20.22%	4.66%	9	3.09%	15	-0.03%	23	-0.36	--	2.04	17	0.46%	8
Credit Opportunities	5.42%	-0.24%	--	9.49%	--	-0.77%	--	-0.59	--	-0.16	--	1.53%	--
Real Assets	11.95%	3.56%	--	3.26%	--	-2.80%	--	-1.09	--	0.53	--	3.18%	--
Public Real Assets	6.93%	0.86%	--	5.42%	--	1.92%	--	1.11	--	-0.16	--	2.91%	--
Private Real Estate	4.91%	6.67%	44	2.08%	45	6.76%	2	-0.24	--	2.03	78	4.19%	94
Private Equity	13.32%	12.83%	55	4.70%	15	11.67%	14	0.32	31	11.07	48	18.03%	92

5 Years Ending March 31, 2020													
	% of Total MV (%)	Annualized Return (%)	Rank	Annualized Standard Deviation	Rank	Annualized Alpha Jensen (%)	Rank	Information Ratio	Rank	Sortino Ratio RF	Rank	Tracking Error	Rank
LACERS Master Trust	100.00%	3.90%	40	8.15%	65	0.30%	43	-0.05	--	0.36	35	1.37%	61
Total Equity	48.50%	2.40%	53	14.00%	66	-0.05%	32	-0.07	--	0.10	53	0.68%	11
U.S. Equity	21.93%	5.36%	19	14.37%	42	-0.48%	23	-0.61	--	0.31	21	0.68%	8
Non-U.S. Equity	26.57%	-0.06%	36	14.59%	62	0.59%	26	0.51	15	-0.10	37	1.15%	8
Developed ex-U.S.	20.07%	-0.09%	45	14.29%	72	0.54%	39	0.32	34	-0.10	45	1.64%	28
Emerging Markets	6.50%	-0.86%	34	17.84%	90	-0.48%	45	-0.42	--	-0.17	34	1.18%	1
Core Fixed Income	20.22%	3.43%	19	3.00%	18	0.17%	34	0.14	17	1.30	7	0.52%	12
Credit Opportunities	5.42%	1.71%	--	8.24%	--	-1.26%	--	-0.81	--	0.06	--	1.37%	--
Real Assets	11.95%	4.54%	--	2.97%	--	-2.68%	--	-0.83	--	1.24	--	2.84%	--
Public Real Assets	6.93%	0.94%	--	5.06%	--	1.59%	--	0.84	--	-0.05	--	2.90%	--
Private Real Estate	4.91%	8.02%	44	2.07%	28	8.63%	3	-0.27	--	2.83	74	4.88%	94
Private Equity	13.32%	10.84%	62	4.22%	13	10.41%	26	0.12	49	9.95	51	15.93%	87

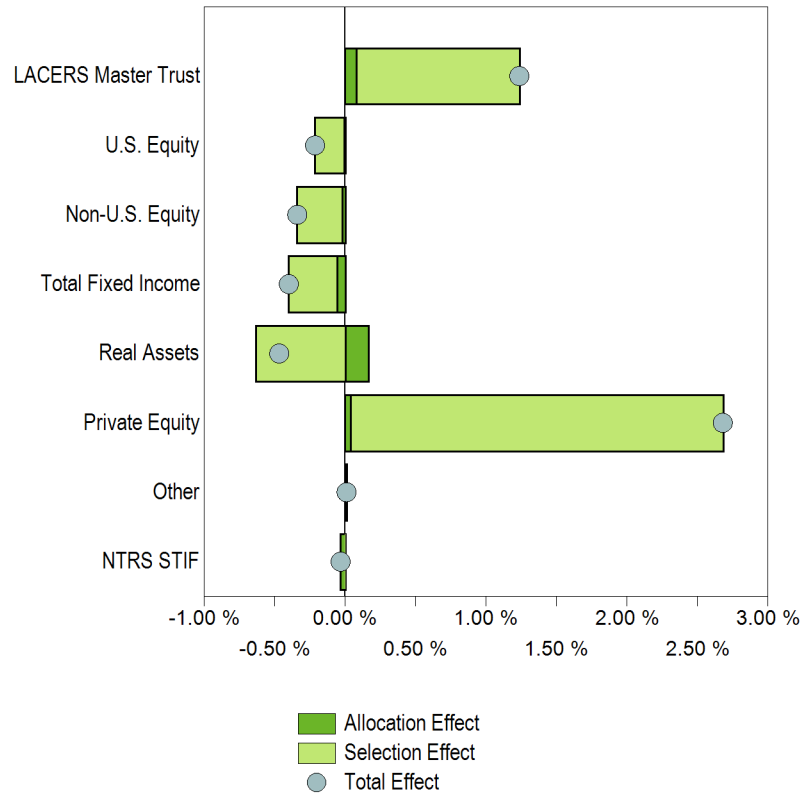
Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects
3 Months Ending March 31, 2020



Attribution Summary							
3 Months Ending March 31, 2020							
	Policy Wtd. Weight	Actual Wtd. Return	Index Wtd. Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	-21.70%	-20.90%	-0.80%	-0.20%	0.00%	-0.21%
Non-U.S. Equity	29.00%	-24.36%	-23.36%	-1.00%	-0.32%	-0.03%	-0.34%
Total Fixed Income	24.00%	-1.83%	-0.29%	-1.53%	-0.34%	-0.06%	-0.40%
Real Assets	10.00%	-4.44%	1.67%	-6.11%	-0.63%	0.17%	-0.47%
Private Equity	12.00%	3.48%	-20.26%	23.74%	2.65%	0.04%	2.68%
Other	0.00%				0.01%	0.00%	0.01%
Cash	1.00%	0.38%	0.37%	0.00%	0.00%	-0.03%	-0.03%
Total	100.00%	-13.23%	-14.48%	1.25%	1.16%	0.09%	1.25%

Wtd. = Weighted

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.

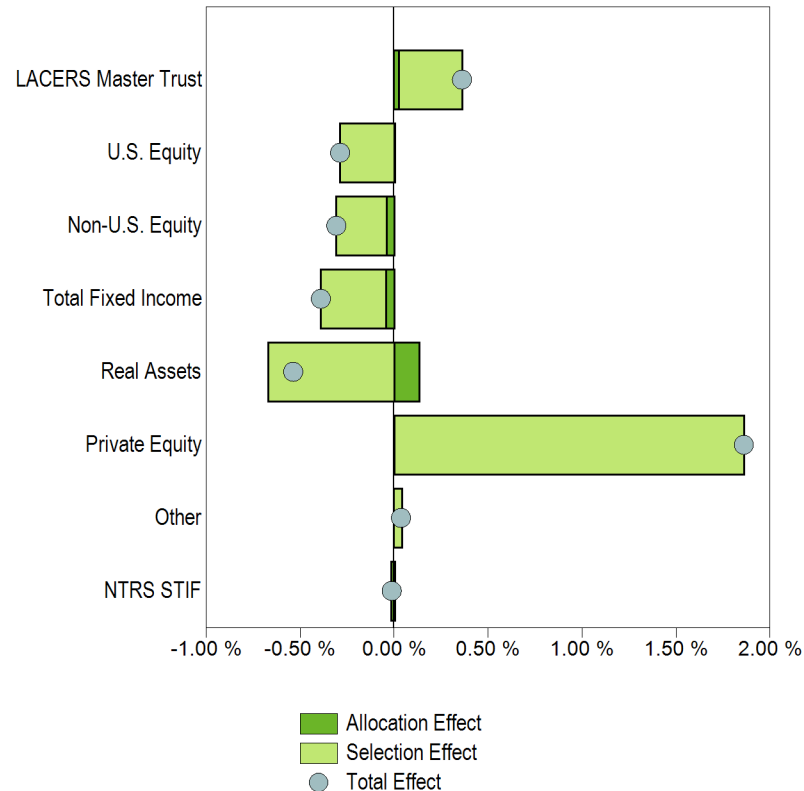
Other composite is comprised of securities lending income, tax reclaims and other miscellaneous transactions.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects
FYTD Ending March 31, 2020



Attribution Summary							
FYTD Ending March 31, 2020							
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	-13.88%	-12.70%	-1.18%	-0.29%	0.01%	-0.28%
Non-U.S. Equity	29.00%	-18.92%	-18.02%	-0.90%	-0.27%	-0.04%	-0.31%
Total Fixed Income	24.00%	0.92%	2.43%	-1.51%	-0.35%	-0.04%	-0.39%
Real Assets	10.00%	-1.95%	4.52%	-6.47%	-0.67%	0.14%	-0.53%
Private Equity	12.00%	5.96%	-10.71%	16.68%	1.87%	0.00%	1.87%
Other	0.00%				0.04%	0.00%	0.04%
Cash	1.00%	1.44%	1.27%	0.17%	0.00%	-0.01%	-0.01%
Total	100.00%	-8.19%	-8.57%	0.39%	0.34%	0.04%	0.39%

Wtd. = Weighted

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.

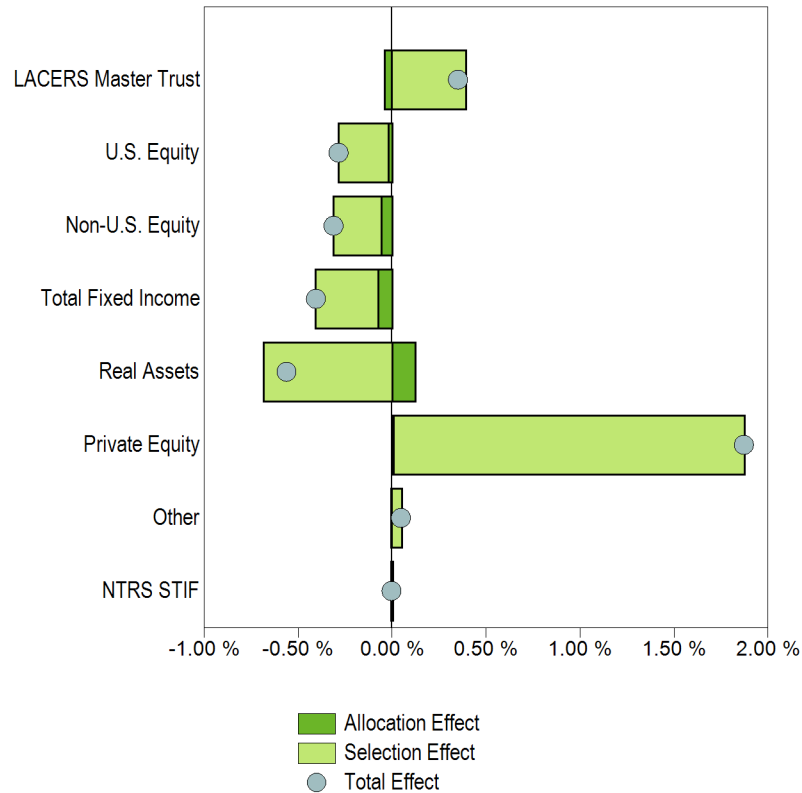
Other composite is comprised of securities lending income, tax reclaims and other miscellaneous transactions.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects
1 Year Ending March 31, 2020



Attribution Summary							
1 Year Ending March 31, 2020							
	Policy Wtd.	Actual Wtd.	Index Wtd.	Excess	Selection	Allocation	Total
	Weight	Return	Return	Return	Effect	Effect	Effects
U.S. Equity	24.00%	-10.23%	-9.13%	-1.10%	-0.26%	-0.01%	-0.27%
Non-U.S. Equity	29.00%	-16.44%	-15.57%	-0.86%	-0.25%	-0.06%	-0.31%
Total Fixed Income	24.00%	4.16%	5.59%	-1.43%	-0.33%	-0.07%	-0.40%
Real Assets	10.00%	0.04%	6.61%	-6.57%	-0.69%	0.13%	-0.56%
Private Equity	12.00%	10.99%	-6.37%	17.36%	1.88%	0.00%	1.88%
Other	0.00%				0.05%	0.00%	0.05%
Cash	1.00%	2.06%	1.85%	0.21%	0.00%	0.00%	0.00%
Total	100.00%	-5.01%	-5.39%	0.38%	0.40%	-0.02%	0.38%

Wtd. = Weighted

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.

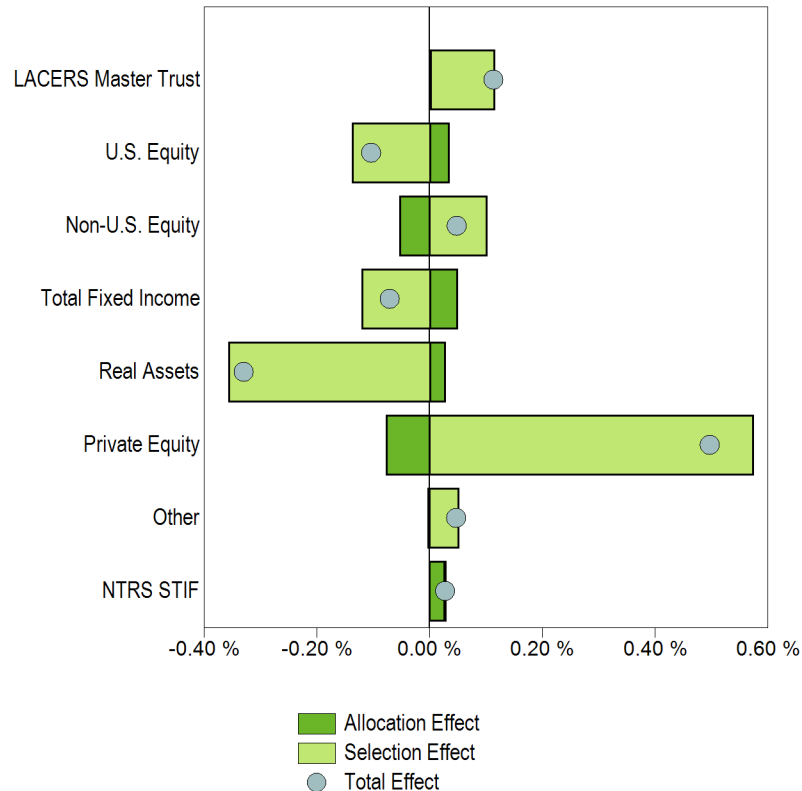
Other composite is comprised of securities lending income, tax reclaims and other miscellaneous transactions.



Los Angeles City Employees' Retirement System

TOTAL FUND ATTRIBUTION ANALYSIS (NET)

Attribution Effects
3 Years Ending March 31, 2020



Attribution Summary							
3 Years Ending March 31, 2020							
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
U.S. Equity	24.00%	3.41%	4.00%	-0.59%	-0.14%	0.03%	-0.10%
Non-U.S. Equity	29.00%	-1.78%	-1.96%	0.18%	0.10%	-0.05%	0.05%
Total Fixed Income	24.00%	3.55%	4.01%	-0.46%	-0.12%	0.04%	-0.08%
Real Assets	10.00%	3.56%	7.01%	-3.45%	-0.36%	0.03%	-0.33%
Private Equity	12.00%	12.83%	7.12%	5.71%	0.58%	-0.08%	0.50%
Other	0.00%				0.05%	0.00%	0.05%
Cash	1.00%	1.90%	1.72%	0.18%	0.00%	0.03%	0.03%
Total	100.00%	3.29%	3.17%	0.11%	0.12%	-0.01%	0.11%

Wtd. = Weighted

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.

Other composite is comprised of securities lending income, tax reclaims and other miscellaneous transactions.



PRIVATE MARKETS PERFORMANCE AS OF DECEMBER 31, 2019

Private Equity	10 Year IRR	Since Inception IRR	Since Inception Multiple
Aggregate Portfolio	12.5%	11.2%	1.56x
Core Portfolio	13.2%	11.7%	1.58x
Specialized Portfolio	4.2%	1.9%	1.11x
Russell 3000 + 300 bps	16.4%	14.1%	N/A

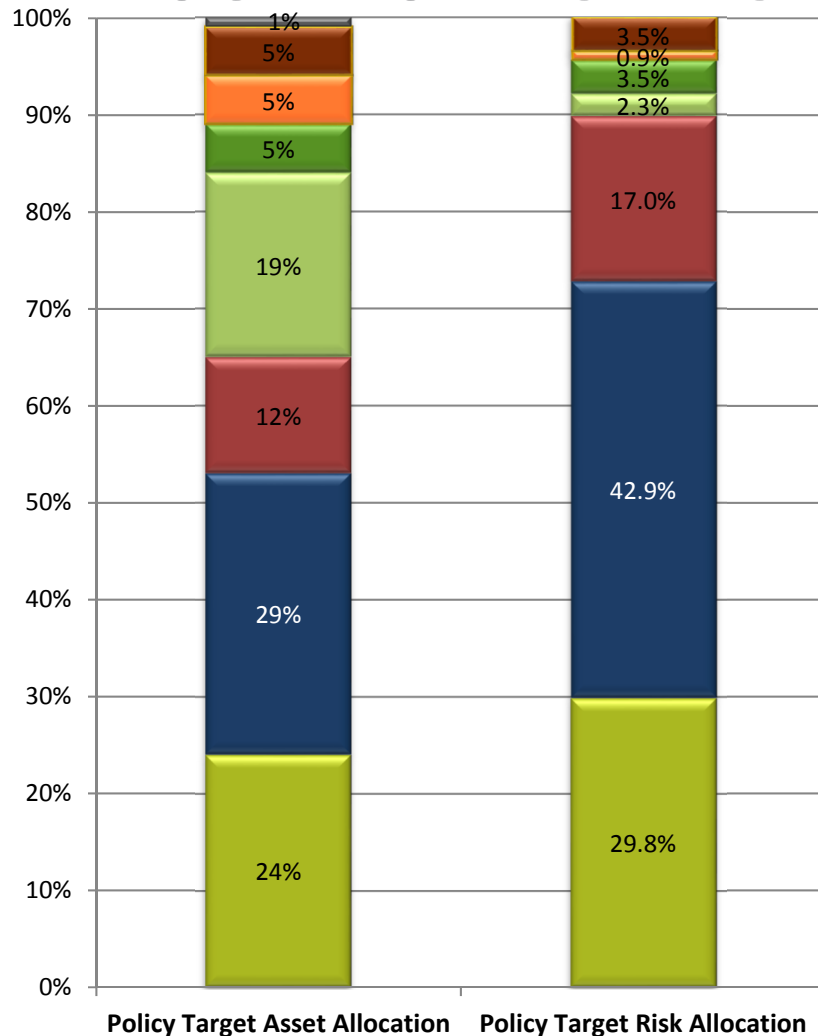
Real Estate	10 Year Return (Net)	Since Inception Return (Net)
Total Portfolio (TWR) ¹	9.33%	5.99%
NFI-ODCE + 80 basis points (TWR)	11.19%	7.09%

Note: The Total Value to Paid-In Ratio (TVPI) is a multiple that relates the current value of the private equity portfolio plus all distributions received to date with the total amount of capital contributed.

1 - IRR is not available for the Real Estate portfolio and therefore only time weighted returns (TWR) are reported.



TOTAL FUND RISK ALLOCATION – ASSET ALLOCATION VS. RISK ALLOCATION



- Cash
- Private Real Estate
- Public Real Assets
- Credit Opportunities
- Core Fixed Income
- Private Equity
- Non-U.S. Equity
- U.S. Equity

- Public and Private Equity policy target asset allocation is 65%; accounts for 89.7% of the policy target portfolio risk.
- Core Fixed Income and Credit Opportunities policy allocation is 24%, accounting for 5.8% of the policy target portfolio risk.
- Real Assets (Private Real Estate and Public Real Assets) policy allocation is 10%, accounting for 4.4% of policy target portfolio risk.

Note: Policy Target Asset Allocation does not reflect the new target asset allocation adopted on April 10, 2018. Implementation of the new asset allocation is currently in progress.



PUBLIC MARKETS RISK BUDGET COMPARISON AS OF MARCH 31, 2020

Public Markets Asset Class	Target Risk Budget	Actual 3 Yr Tracking Error
U.S. Equity	0.50%	0.67%
Non-U.S. Equity	1.20%	1.09%
Core Fixed Income	1.00%	0.46%
Credit Opportunities	1.50%	1.53%
Public Real Assets*	3.00%	2.91%

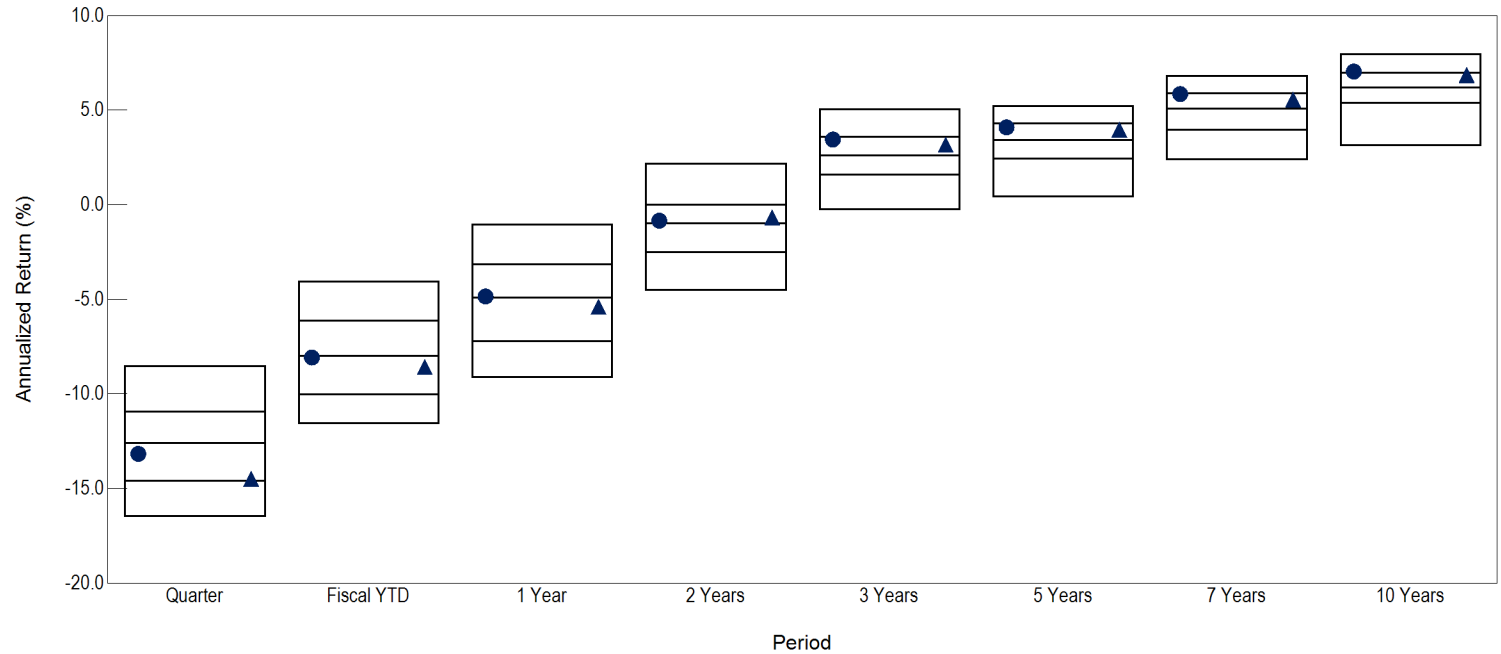
- Current public market asset class composite tracking error statistics are compared to asset class target risk budgets to ensure active risks are within expectations.
- Risk budgets are to be evaluated over three-year periods, at minimum, to reflect a full market cycle.
- All equity public markets asset classes are within an appropriately narrow range of their respective risk budgets.
- Both Core Fixed Income and Credit Opportunities have exhibited lower than expected active risk.
- The Public Real Assets composite is not at its target strategy allocation.
- Note: A new Target Risk Budget was approved by the Board on August 14, 2018, and is not reflected in the table above. Implementation of the new asset allocation is in progress.

* The benchmark for the Public Real Assets composite is a custom policy benchmark that is comprised of the target weights of the public real asset components. The public real asset benchmark weights are 60% TIPS, 20% Commodities, 10% REITs, and 10% MLPs.



TOTAL FUND RETURN SUMMARY VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross

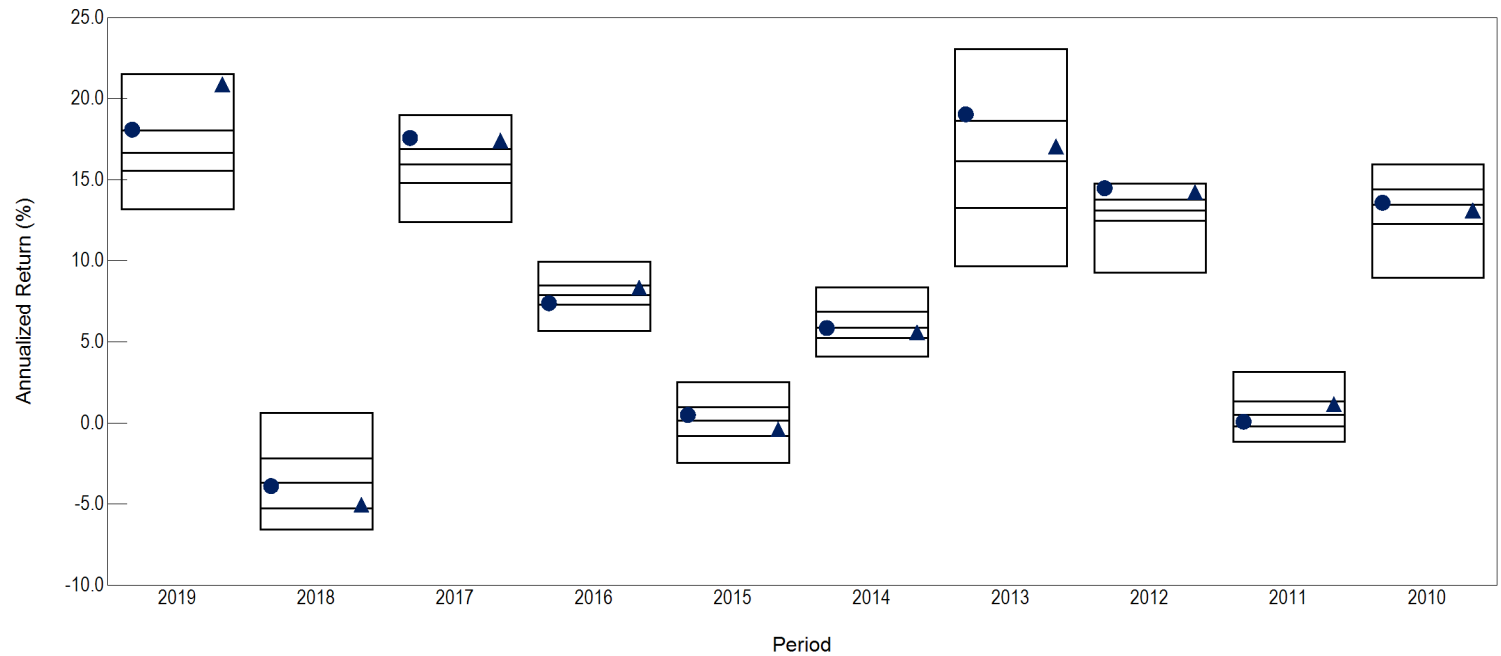


	Return (Rank)															
5th Percentile	-8.53	-4.06	-1.06	2.18	5.05	5.22	6.81	7.96								
25th Percentile	-10.92	-6.10	-3.11	0.03	3.62	4.33	5.92	7.02								
Median	-12.57	-7.95	-4.88	-0.94	2.63	3.45	5.11	6.24								
75th Percentile	-14.55	-10.00	-7.17	-2.48	1.63	2.46	4.01	5.40								
95th Percentile	-16.41	-11.50	-9.09	-4.48	-0.22	0.48	2.44	3.18								
# of Portfolios	73	73	73	73	73	72	70	67								
● LACERS Master Trust	-13.17	(57)	-8.08	(52)	-4.85	(49)	-0.84	(45)	3.44	(31)	4.09	(36)	5.85	(27)	7.04	(25)
▲ Policy Index	-14.48	(74)	-8.57	(65)	-5.39	(60)	-0.66	(39)	3.17	(37)	3.97	(39)	5.57	(34)	6.85	(29)



TOTAL FUND RETURN SUMMARY VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross



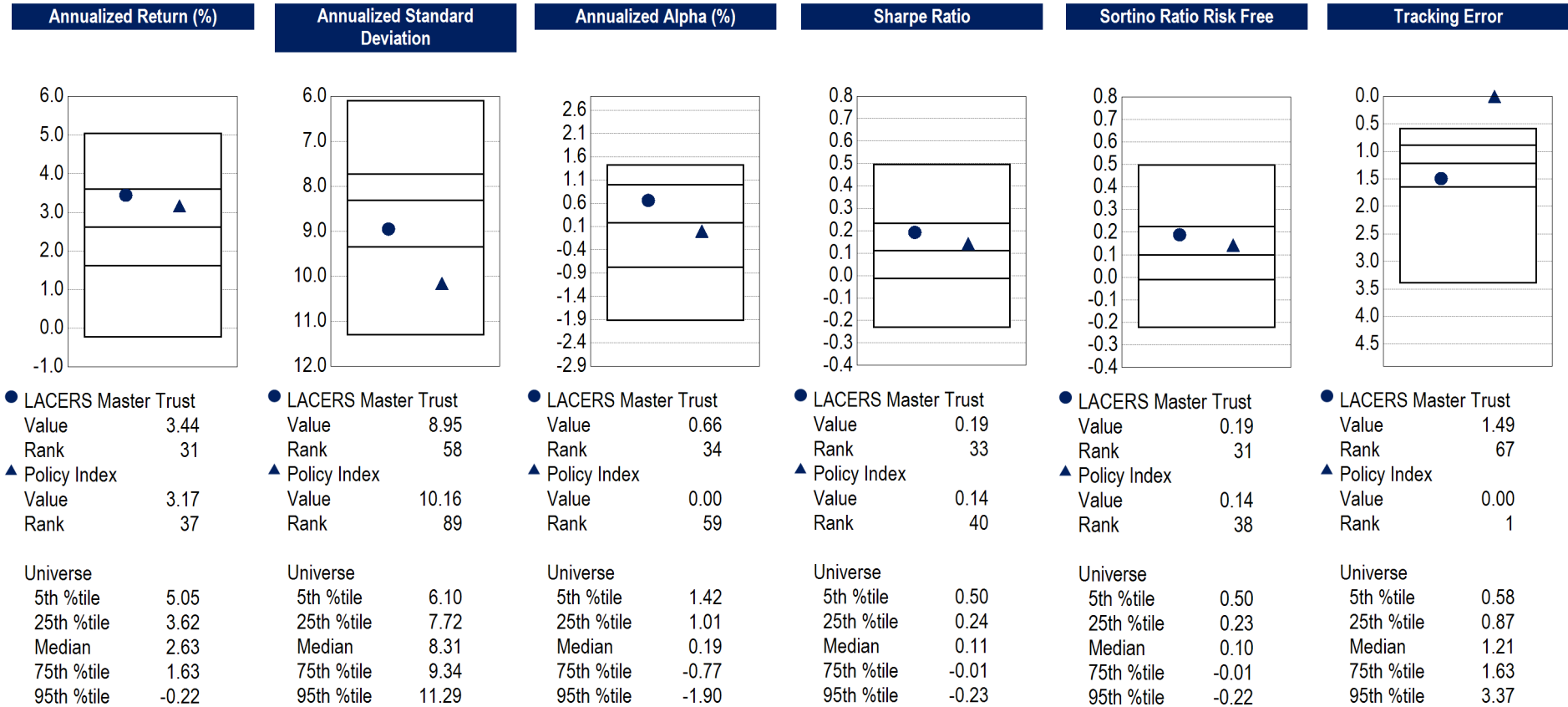
	Return (Rank)																			
5th Percentile	21.49	0.60	19.00	9.95	2.50	8.38	23.05	14.75	3.13	15.93										
25th Percentile	18.08	-2.13	16.94	8.51	1.00	6.90	18.67	13.81	1.37	14.45										
Median	16.68	-3.64	15.99	7.91	0.20	5.93	16.17	13.15	0.53	13.49										
75th Percentile	15.61	-5.22	14.83	7.34	-0.77	5.28	13.30	12.50	-0.16	12.30										
95th Percentile	13.20	-6.53	12.43	5.71	-2.43	4.12	9.70	9.31	-1.14	8.98										
# of Portfolios	77	78	78	78	77	77	76	75	74	71										
● LACERS Master Trust	18.08	(26)	-3.89	(60)	17.57	(15)	7.38	(72)	0.49	(35)	5.85	(53)	19.03	(23)	14.47	(10)	0.08	(68)	13.58	(49)
▲ Policy Index	20.88	(9)	-5.04	(71)	17.41	(16)	8.35	(35)	-0.39	(68)	5.58	(61)	17.06	(35)	14.23	(18)	1.17	(32)	13.11	(55)



Los Angeles City Employees' Retirement System

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross 3 Years



Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.

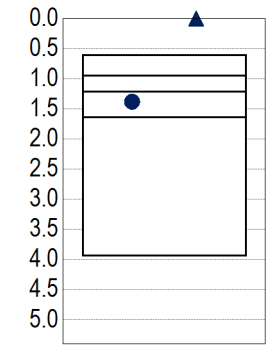
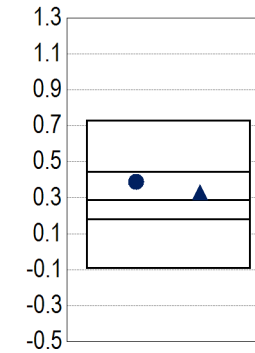
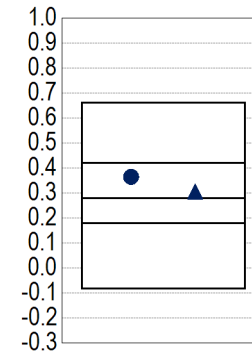
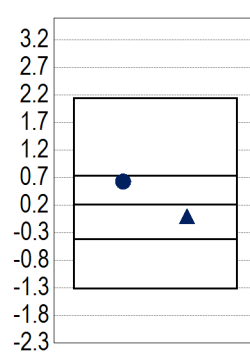
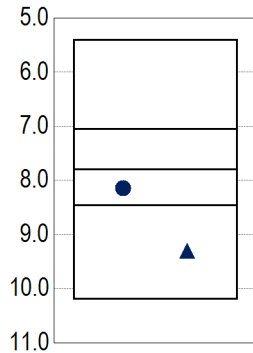
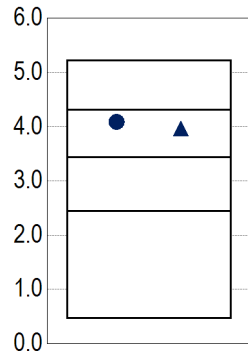


Los Angeles City Employees' Retirement System

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross 5 Years

Annualized Return (%)	Annualized Standard Deviation	Annualized Alpha (%)	Sharpe Ratio	Sortino Ratio Risk Free	Tracking Error
-----------------------	-------------------------------	----------------------	--------------	-------------------------	----------------



● LACERS Master Trust
Value 4.09
Rank 36
▲ Policy Index
Value 3.97
Rank 39

● LACERS Master Trust
Value 8.14
Rank 65
▲ Policy Index
Value 9.30
Rank 88

● LACERS Master Trust
Value 0.63
Rank 32
▲ Policy Index
Value 0.00
Rank 61

● LACERS Master Trust
Value 0.36
Rank 34
▲ Policy Index
Value 0.31
Rank 46

● LACERS Master Trust
Value 0.39
Rank 33
▲ Policy Index
Value 0.33
Rank 42

● LACERS Master Trust
Value 1.38
Rank 63
▲ Policy Index
Value 0.00
Rank 1

Universe
5th %tile 5.22
25th %tile 4.33
Median 3.45
75th %tile 2.46
95th %tile 0.48

Universe
5th %tile 5.40
25th %tile 7.04
Median 7.79
75th %tile 8.45
95th %tile 10.18

Universe
5th %tile 2.14
25th %tile 0.75
Median 0.22
75th %tile -0.41
95th %tile -1.31

Universe
5th %tile 0.66
25th %tile 0.42
Median 0.28
75th %tile 0.18
95th %tile -0.08

Universe
5th %tile 0.73
25th %tile 0.45
Median 0.29
75th %tile 0.18
95th %tile -0.09

Universe
5th %tile 0.61
25th %tile 0.93
Median 1.20
75th %tile 1.63
95th %tile 3.92

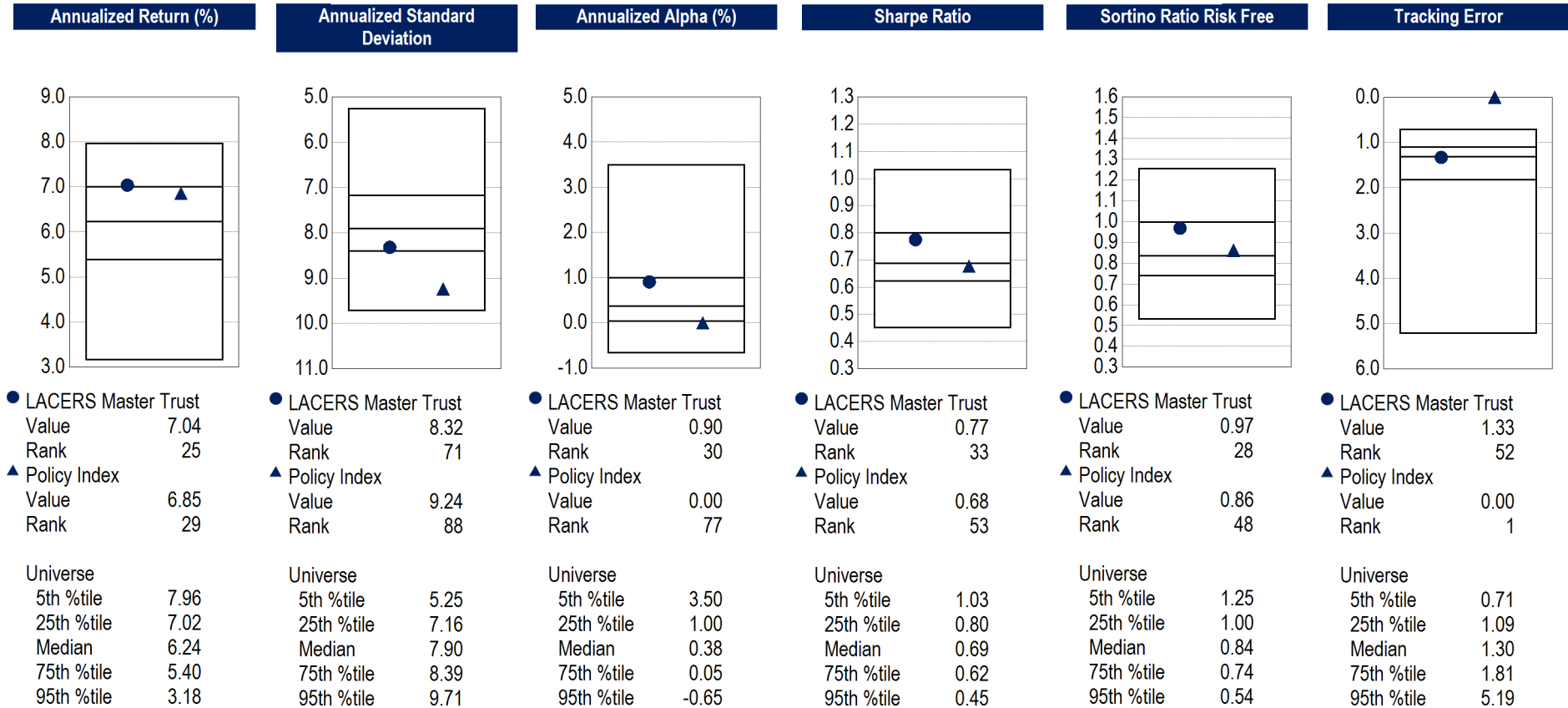
Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



Los Angeles City Employees' Retirement System

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

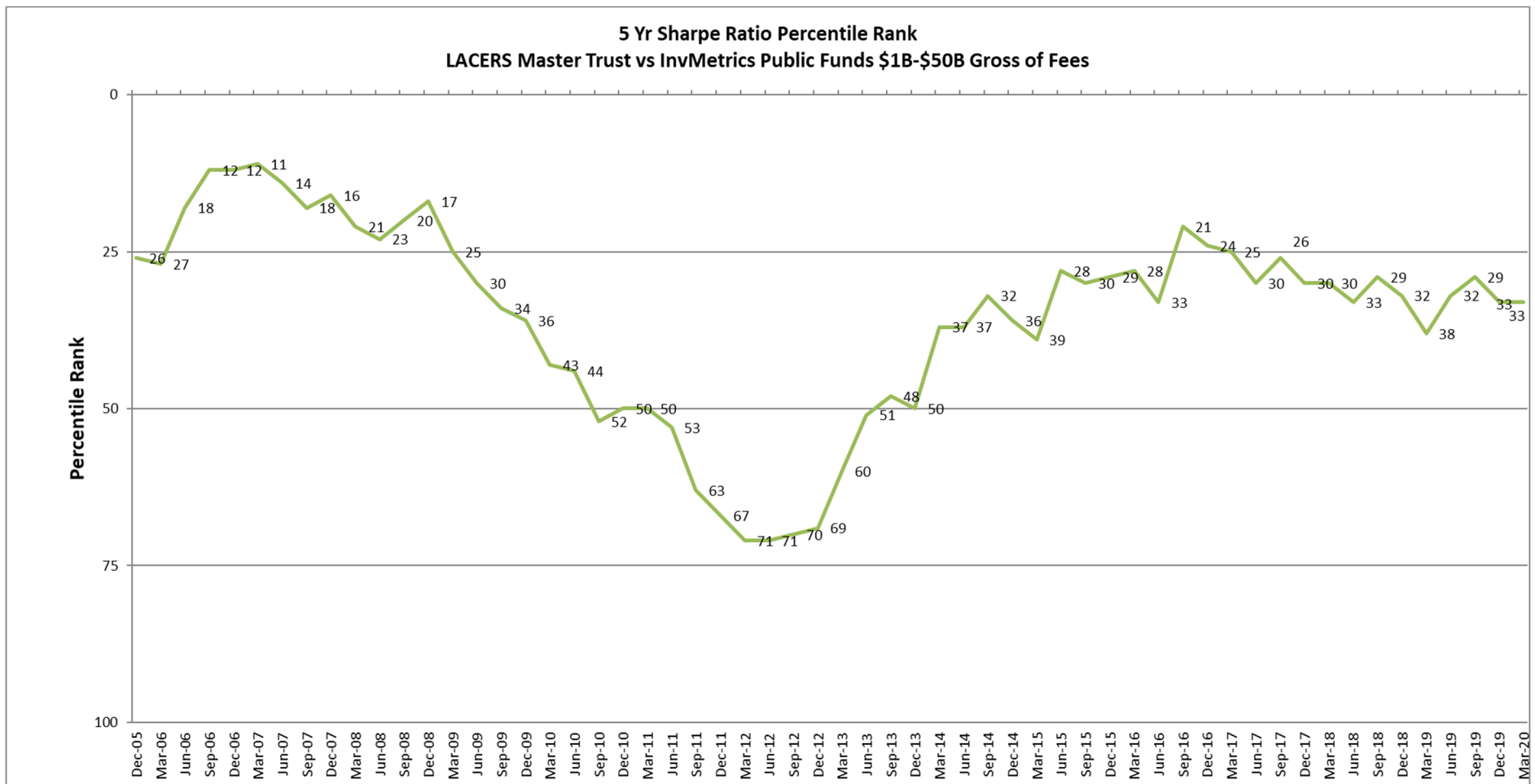
LACERS Master Trust vs. InvMetrics Public DB \$1-50B Gross 10 Years



Sortino Ratio RF = Sortino Ratio Risk Free. The risk free rate is the Citi 91 Day T-Bill Index.



HISTORICAL RISK ADJUSTED RETURN UNIVERSE COMPARISON

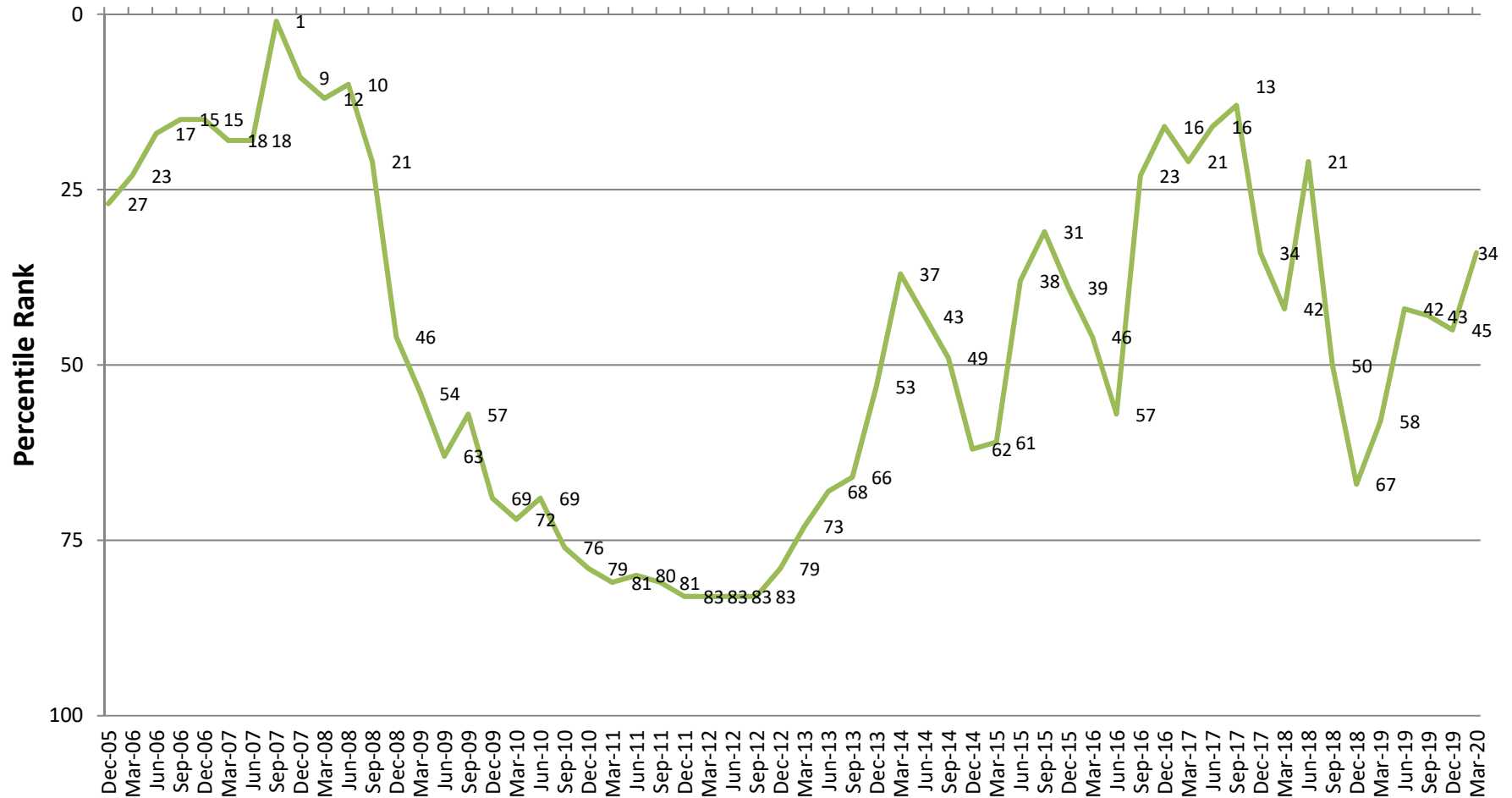


- Total Plan ranks in the 33rd percentile versus other large public plans on a Sharpe Ratio basis.
 - Use of passive investment strategies within U.S. Equity has contributed to the overall Sharpe Ratio rank (higher than median).
 - Overweight to non-U.S. Equity on a relative basis contributed to Sharpe Ratio Rank
 - Core Fixed Income contributed positively to Sharpe Ratio rank.



HISTORICAL RISK ADJUSTED RETURN UNIVERSE COMPARISON

5 Yr Sharpe Ratio Percentile Rank
LACERS Master Trust vs InvestorForce Public Funds \$5B-\$50B Gross of Fees



U.S. EQUITY

NEPC, LLC

Los Angeles City Employees' Retirement System

U.S. EQUITY (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
U.S. Equity	3,569,588,350	100.00	-21.69	-13.85	-10.18	3.47	5.43	9.98	9.52	Oct-94
U.S. Equity Blend			-20.90	-12.70	-9.13	4.00	5.77	10.15	8.55	Oct-94
Over/Under			-0.79	-1.15	-1.05	-0.53	-0.34	-0.17	0.97	
Rhumblin Advisors Russell 2000 ¹	194,688,449	5.45	-30.55	-25.49	-23.91	-4.58	-0.30		-0.30	Apr-15
Russell 2000			-30.61	-25.55	-23.99	-4.64	-0.25		-0.25	Apr-15
Over/Under			0.06	0.06	0.08	0.06	-0.05		-0.05	
Rhumblin Advisors Russell 2000 Growth ¹	110,868,533	3.11	-25.74	-20.73	-18.54	0.11	1.64		2.82	Jan-15
Russell 2000 Growth			-25.77	-20.76	-18.58	0.10	1.70		2.87	Jan-15
Over/Under			0.03	0.03	0.04	0.01	-0.06		-0.05	
Rhumblin Advisors Russell 2000 Value ¹	147,404,644	4.13	-35.51	-30.62	-29.67	-9.49			0.89	Mar-16
Russell 2000 Value			-35.66	-30.60	-29.64	-9.51			0.92	Mar-16
Over/Under			0.15	-0.02	-0.03	0.02			-0.03	
EAM Investors	105,770,312	2.96	-25.45	-21.76	-16.51	5.65			6.15	Sep-15
Russell 2000 Growth			-25.77	-20.76	-18.58	0.10			4.65	Sep-15
Over/Under			0.32	-1.00	2.07	5.55			1.50	
Principal Global Investors	161,016,307	4.51	-23.70	-16.19	-8.04	7.03	7.14		9.11	Aug-14
Russell MidCap			-27.07	-21.55	-18.31	-0.81	1.85		3.62	Aug-14
Over/Under			3.37	5.36	10.27	7.84	5.29		5.49	
Rhumblin Advisors S&P 500	2,849,834,745	79.84	-19.69	-11.11	-7.28	4.98	6.62	10.51	9.01	Feb-93
S&P 500			-19.60	-10.82	-6.98	5.10	6.73	10.53	8.87	Feb-93
Over/Under			-0.09	-0.29	-0.30	-0.12	-0.11	-0.02	0.14	
Escrow Account	5,360	0.00								

1- Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

- U.S. Equity Blend = Russell 3000 from 1/1/2000 to present; 33.75% S&P 500/ 35% Russell 1000 Value/ 12.50% Russell 1000 Growth/ 12.50% Russell 2000 Value/ 6.25% Russell 2000 Growth prior to

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
U.S. Equity	3,569,588,350	100.00	-21.70	32	-13.88	30	-10.23	32	3.41	31	5.36	19	9.83	34		Oct-94
U.S. Equity Blend			-20.90	15	-12.70	15	-9.13	17	4.00	14	5.77	11	10.15	14		Oct-94
Over/Under			-0.80		-1.18		-1.10		-0.59		-0.41		-0.32			
InvMetrics Public DB > \$1 Billion US Equity Net Median			-22.37		-15.14		-11.85		2.62		4.63		9.44			Oct-94
Rhumblin Advisors Russell 2000 ¹	194,688,449	5.45	-30.55	47	-25.49	45	-23.92	47	-4.59	46	-0.31	48			-0.31	Apr-15
Russell 2000			-30.61	47	-25.55	46	-23.99	48	-4.64	46	-0.25	48			-0.25	Apr-15
Over/Under			0.06		0.06		0.07		0.05		-0.06				-0.06	
eV US Small Cap Equity Net Median			-31.26		-26.40		-24.66		-5.29		-0.63				-0.63	Apr-15
Rhumblin Advisors Russell 2000 Growth ¹	110,868,533	3.11	-25.74	72	-20.73	56	-18.54	65	0.11	73	1.64	77			2.82	Jan-15
Russell 2000 Growth			-25.77	72	-20.76	57	-18.58	65	0.10	73	1.70	77			2.87	Jan-15
Over/Under			0.03		0.03		0.04		0.01		-0.06				-0.05	
eV US Small Cap Growth Equity Net Median			-23.40		-20.12		-15.80		3.58		4.10				4.73	Jan-15
Rhumblin Advisors Russell 2000 Value ¹	147,404,644	4.13	-35.51	56	-30.63	52	-29.68	56	-9.50	46					0.89	Mar-16
Russell 2000 Value			-35.66	58	-30.60	52	-29.64	55	-9.51	46					0.92	Mar-16
Over/Under			0.15		-0.03		-0.04		0.01						-0.03	
eV US Small Cap Value Equity Net Median			-35.06		-30.45		-29.10		-9.74						-0.19	Mar-16
EAM Investors	105,770,312	2.96	-25.59	29	-22.17	32	-17.09	25	4.90	14					5.40	Sep-15
Russell 2000 Growth			-25.77	29	-20.76	25	-18.58	28	0.10	27					4.65	Sep-15
Over/Under			0.18		-1.41		1.49		4.80						0.75	
eV US Small Cap Equity Net Median			-31.26		-26.40		-24.66		-5.29						1.87	Sep-15

1- Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

- U.S. Equity Blend = Russell 3000 from 1/1/2000 to present; 33.75% S&P 500/ 35% Russell 1000 Value/ 12.50% Russell 1000 Growth/ 12.50% Russell 2000 Value/ 6.25% Russell 2000 Growth prior to

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

U.S. EQUITY (NET)

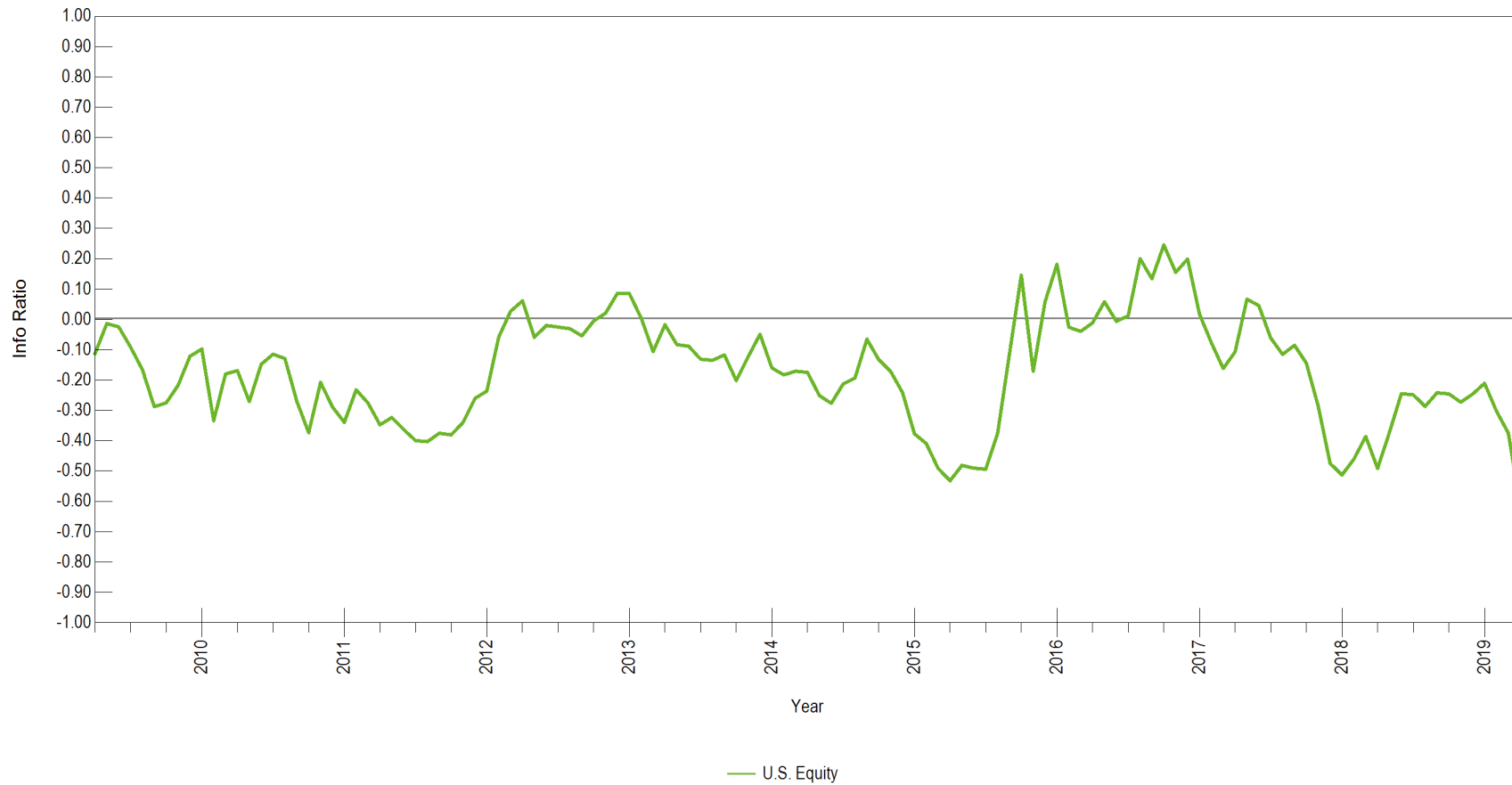
	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Principal Global Investors ¹	161,016,307	4.51	-23.78	44	-16.42	36	-8.38	23	6.63	18	6.73	15			8.72	Aug-14
<i>Russell MidCap</i>			<u>-27.07</u>	55	<u>-21.55</u>	57	<u>-18.31</u>	53	<u>-0.81</u>	52	<u>1.85</u>	52			<u>3.62</u>	<i>Aug-14</i>
Over/Under			3.29		5.13		9.93		7.44		4.88				5.10	
<i>eV US Mid Cap Equity Net Median</i>			-25.91		-20.23		-17.38		0.07		1.98				3.40	<i>Aug-14</i>
Rhumblin Advisors S&P 500	2,849,834,745	79.84	-19.69	43	-11.12	39	-7.28	40	4.97	35	6.61	29	10.50	30		Feb-93
<i>S&P 500</i>			<u>-19.60</u>	42	<u>-10.82</u>	37	<u>-6.98</u>	38	<u>5.10</u>	35	<u>6.73</u>	28	<u>10.53</u>	30		<i>Feb-93</i>
Over/Under			-0.09		-0.30		-0.30		-0.13		-0.12		-0.03			
<i>eV US Large Cap Equity Net Median</i>			-20.88		-13.10		-9.52		2.94		4.69		9.29			<i>Feb-93</i>
Escrow Account	5,360	0.00														

1- Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.
eA = eVestment Alliance



U.S. EQUITY ROLLING 5 YEAR INFORMATION RATIO

Rolling 5 Year Information Ratio



*Returns are net of fees.



MANAGER REPORT CARD

U.S. Equity Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe			
Principal Global Investors	Jul-14	Mid Cap	✓	✓	✓	✓	✓	✓	✓	✓	✓	616.9	Performance compliant with LACERS' Manager Monitoring Policy
EAM Investors	Sep-15	Small Cap Growth	✓	✓	✓	✓	✓	✓	N/A	N/A	✓	913.9	Performance compliant with LACERS' Manager Monitoring Policy
Rhumblin (Passive)	Feb-93	S&P 500	✗	✓	✗	✓	✗	✓	✗	✓	✓✓	178.2	Performance compliant with LACERS' Manager Monitoring Policy
Rhumblin (Passive)	Jun-15	R2000	✓	✓	✓	✓	✓	✓	N/A	N/A	✗	14.6	Performance compliant with LACERS' Manager Monitoring Policy
Rhumblin (Passive)	Jun-15	R2000 Growth	✓	✗	✓	✗	✗	✗	✗	✗	✗	7.7	Performance compliant with LACERS' Manager Monitoring Policy
Rhumblin (Passive)	Feb-16	R2000 Value	✓	✗	✗	✗	✓	✓	N/A	N/A	✗	5.8	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
✗	Underperformed
=	Equal to
✓✓	Gross Return



NON-U.S. EQUITY

NEPC, LLC

Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Non-U.S. Equity	4,326,219,608	100.00	-24.28	-18.69	-16.12	-1.42	0.30	3.14	4.22	Nov-94
MSCI ACWI ex USA			-23.36	-18.02	-15.57	-1.96	-0.64	2.05	4.08	Nov-94
Over/Under			-0.92	-0.67	-0.55	0.54	0.94	1.09	0.14	
Developed ex-U.S.	3,267,840,243	75.54	-24.16	-18.33	-15.29	-1.18	0.23		4.70	Jun-12
MSCI EAFE			-22.83	-17.42	-14.38	-1.82	-0.62		3.98	Jun-12
Over/Under			-1.33	-0.91	-0.91	0.64	0.85		0.72	
AQR Capital (Watch)	215,224,036	4.97	-27.66	-18.83	-18.36	-3.69	0.87		0.19	Feb-14
MSCI EAFE Small Cap			-27.52	-19.52	-18.15	-2.88	0.97		0.22	Feb-14
Over/Under			-0.14	0.69	-0.21	-0.81	-0.10		-0.03	
Barrow Hanley	391,561,277	9.05	-32.13	-24.95	-22.35	-6.60	-3.32		-2.37	Nov-13
MSCI EAFE Value			-28.20	-23.93	-22.76	-6.65	-3.83		-3.10	Nov-13
Over/Under			-3.93	-1.02	0.41	0.05	0.51		0.73	
Lazard Asset Management ¹ (Watch)	489,687,093	11.32	-22.93	-19.15	-16.17	0.69	-0.36		0.96	Nov-13
MSCI EAFE			-22.83	-17.42	-14.38	-1.82	-0.62		-0.30	Nov-13
Over/Under			-0.10	-1.73	-1.79	2.51	0.26		1.26	
MFS Institutional Advisors	552,901,496	12.78	-18.00	-11.53	-6.49	5.83	4.89		4.31	Oct-13
MSCI World ex USA Growth NR USD			-17.81	-11.57	-6.47	2.55	2.05		2.22	Oct-13
Over/Under			-0.19	0.04	-0.02	3.28	2.84		2.09	
Oberweis Asset Mgmt ¹ (Watch)	191,687,009	4.43	-24.07	-20.78	-17.37	-1.60	1.98		2.46	Jan-14
MSCI EAFE Small Cap			-27.52	-19.52	-18.15	-2.88	0.97		1.09	Jan-14
Over/Under			3.45	-1.26	0.78	1.28	1.01		1.37	
SSgA World ex US IMI	1,426,779,331	32.98	-23.80	-18.04	-15.01	-1.80	-0.17	3.03	4.76	Aug-93
MSCI World ex USA IMI NR USD ²			-24.00	-18.34	-15.48	-2.29	-0.62	2.61	4.48	Aug-93
Over/Under			0.20	0.30	0.47	0.49	0.45	0.42	0.28	

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

2 Since inception index return sourced from SSgA.

eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Emerging Markets	1,058,379,365	24.46	-24.67	-19.82	-18.66	-2.41	-0.32		0.81	Jun-12
<i>MSCI Emerging Markets</i>			<u>-23.60</u>	<u>-18.18</u>	<u>-17.69</u>	<u>-1.62</u>	<u>-0.37</u>		<u>1.09</u>	<i>Jun-12</i>
Over/Under			-1.07	-1.64	-0.97	-0.79	0.05		-0.28	
Axiom Emerging Markets (Watch)	377,999,616	8.74	-21.04	-13.03	-10.68	1.29	1.85		1.87	May-14
<i>MSCI Emerging Markets Growth NR USD</i>			<u>-19.34</u>	<u>-10.17</u>	<u>-9.94</u>	<u>2.39</u>	<u>2.13</u>		<u>2.41</u>	<i>May-14</i>
Over/Under			-1.70	-2.86	-0.74	-1.10	-0.28		-0.54	
<i>MSCI Emerging Markets</i>			<u>-23.60</u>	<u>-18.18</u>	<u>-17.69</u>	<u>-1.62</u>	<u>-0.37</u>		<u>-0.29</u>	<i>May-14</i>
DFA Emerging Markets ¹	319,103,261	7.38	-30.03	-27.81	-27.98	-7.09	-2.47		-4.69	Aug-14
<i>MSCI Emerging Markets Value NR USD</i>			<u>-28.00</u>	<u>-25.97</u>	<u>-25.26</u>	<u>-5.78</u>	<u>-3.00</u>		<u>-4.78</u>	<i>Aug-14</i>
Over/Under			-2.03	-1.84	-2.72	-1.31	0.53		0.09	
QMA Emerging Markets ¹ (Watch)	361,276,489	8.35	-23.19	-18.52	-16.94	-1.60	-0.43		0.08	May-14
<i>MSCI Emerging Markets</i>			<u>-23.60</u>	<u>-18.18</u>	<u>-17.69</u>	<u>-1.62</u>	<u>-0.37</u>		<u>-0.29</u>	<i>May-14</i>
Over/Under			0.41	-0.34	0.75	0.02	-0.06		0.37	

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.
eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Non-U.S. Equity	4,326,219,608	100.00	-24.36	58	-18.92	69	-16.44	67	-1.78	38	-0.06	36	2.79	35		Nov-94
MSCI ACWI ex USA			-23.36	38	-18.02	52	-15.57	54	-1.96	46	-0.64	69	2.05	87		Nov-94
Over/Under			-1.00		-0.90		-0.87		0.18		0.58		0.74			
Developed ex-U.S.	3,267,840,243	75.54	-24.23	85	-18.52	85	-15.56	79	-1.49	51	-0.09	45			4.41	Jun-12
MSCI EAFE			-22.83	21	-17.42	46	-14.38	46	-1.82	54	-0.62	74			3.98	Jun-12
Over/Under			-1.40		-1.10		-1.18		0.33		0.53				0.43	
InvMetrics Public DB > \$1 Billion Dev Mkt ex-US Eq Net Median			-23.85		-17.69		-14.85		-1.49		-0.18				4.35	Jun-12
AQR Capital ¹ (Watch)	215,224,036	4.97	-27.79	42	-19.29	32	-18.98	51	-4.43	57	0.10	60			-0.50	Feb-14
MSCI EAFE Small Cap			-27.52	38	-19.52	40	-18.15	47	-2.88	41	0.97	45			0.22	Feb-14
Over/Under			-0.27		0.23		-0.83		-1.55		-0.87				-0.72	
eV EAFE Small Cap Equity Net Median			-28.52		-21.23		-18.94		-3.64		0.52				0.09	Feb-14
Barrow Hanley ¹	391,561,277	9.05	-32.22	85	-25.23	80	-22.74	67	-7.07	78	-3.81	82			-2.85	Nov-13
MSCI EAFE Value			-28.20	58	-23.93	65	-22.76	67	-6.65	69	-3.83	82			-3.10	Nov-13
Over/Under			-4.02		-1.30		0.02		-0.42		0.02				0.25	
eV EAFE Value Equity Net Median			-27.51		-22.20		-20.67		-5.80		-2.75				-2.17	Nov-13
Lazard Asset Management ¹ (Watch)	489,687,093	11.32	-23.04	40	-19.48	59	-16.62	53	0.18	22	-0.89	57			0.43	Nov-13
MSCI EAFE			-22.83	38	-17.42	38	-14.38	35	-1.82	43	-0.62	52			-0.30	Nov-13
Over/Under			-0.21		-2.06		-2.24		2.00		-0.27				0.73	
eV All EAFE Equity Net Median			-24.25		-18.36		-16.14		-2.36		-0.58				-0.04	Nov-13
MFS Institutional Advisors	552,901,496	12.78	-18.10	41	-11.81	40	-6.89	54	5.34	14	4.38	2			3.82	Oct-13
MSCI World ex USA Growth NR USD			-17.81	32	-11.57	37	-6.47	42	2.55	51	2.05	53			2.22	Oct-13
Over/Under			-0.29		-0.24		-0.42		2.79		2.33				1.60	
eV EAFE All Cap Growth Net Median			-19.14		-12.11		-6.79		2.56		2.09				2.17	Oct-13

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Oberweis Asset Mgmt ¹ (Watch)	191,687,009	4.43	-24.26	12	-21.24	51	-18.03	46	-2.43	38	1.13	40			1.60	Jan-14
MSCI EAFE Small Cap			-27.52	38	-19.52	40	-18.15	47	-2.88	41	0.97	45			1.09	Jan-14
Over/Under			3.26		-1.72		0.12		0.45		0.16				0.51	
eV EAFE Small Cap Equity Net Median			-28.52		-21.23		-18.94		-3.64		0.52				0.97	Jan-14
SSgA World ex US IMI	1,426,779,331	32.98	-23.81	49	-18.06	46	-15.03	41	-1.82	45	-0.20	46	3.00	71	4.76	Aug-93
MSCI World ex USA IMI NR USD ²			-24.00	51	-18.34	53	-15.48	47	-2.29	53	-0.62	56	2.61	79	4.48	Aug-93
Over/Under			0.19		0.28		0.45		0.47		0.42		0.39		0.28	
eV EAFE Core Equity Net Median			-23.99		-18.20		-15.89		-2.25		-0.47		3.80		5.82	Aug-93
Emerging Markets	1,058,379,365	24.46	-24.78	50	-20.14	51	-19.10	50	-2.92	37	-0.86	34			0.20	Jun-12
MSCI Emerging Markets			-23.60	25	-18.18	25	-17.69	25	-1.62	22	-0.37	29			1.09	Jun-12
Over/Under			-1.18		-1.96		-1.41		-1.30		-0.49				-0.89	
InvMetrics Public DB > \$1 Billion Emg Mkt Eq Net Median			-24.78		-20.14		-19.10		-3.77		-1.15				0.17	Jun-12
Axiom Emerging Markets (Watch)	377,999,616	8.74	-21.17	12	-13.47	9	-11.29	8	0.59	16	1.14	22			1.20	May-14
MSCI Emerging Markets Growth NR USD			-19.34	6	-10.17	2	-9.94	6	2.39	5	2.13	10			2.41	May-14
Over/Under			-1.83		-3.30		-1.35		-1.80		-0.99				-1.21	
MSCI Emerging Markets			-23.60	35	-18.18	37	-17.69	40	-1.62	32	-0.37	41			-0.29	May-14
eV Emg Mkts Equity Net Median			-25.05		-20.07		-19.10		-2.71		-0.87				-0.53	May-14
DFA Emerging Markets ¹	319,103,261	7.38	-30.13	85	-28.11	90	-28.38	92	-7.56	89	-2.97	84			-5.16	Aug-14
MSCI Emerging Markets Value NR USD			-28.00	74	-25.97	83	-25.26	82	-5.78	76	-3.00	84			-4.78	Aug-14
Over/Under			-2.13		-2.14		-3.12		-1.78		0.03				-0.38	
eV Emg Mkts Equity Net Median			-25.05		-20.07		-19.10		-2.71		-0.87				-1.77	Aug-14
QMA Emerging Markets ¹ (Watch)	361,276,489	8.35	-23.26	30	-18.75	42	-17.26	38	-1.98	37	-0.85	50			-0.35	May-14
MSCI Emerging Markets			-23.60	35	-18.18	37	-17.69	40	-1.62	32	-0.37	41			-0.29	May-14
Over/Under			0.34		-0.57		0.43		-0.36		-0.48				-0.06	
eV Emg Mkts Equity Net Median			-25.05		-20.07		-19.10		-2.71		-0.87				-0.53	May-14

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

2 Since inception index return sourced from SSgA.

eA = eVestment



Los Angeles City Employees' Retirement System

NON-U.S. EQUITY COUNTRY ALLOCATION

Versus MSCI ACWI ex USA - Quarter Ending March 31, 2020		
	Manager Ending Allocation (USD)	Index Ending Allocation (USD)
Europe		
Austria	0.2%	0.1%
Belgium	0.5%	0.6%
Croatia**	0.0%	0.0%
Czech Republic*	0.0%	0.0%
Denmark	1.6%	1.4%
Estonia**	0.0%	0.0%
Finland	1.0%	0.7%
France	8.4%	7.1%
Germany	6.1%	5.4%
Greece*	0.1%	0.1%
Hungary*	0.1%	0.1%
Ireland	0.5%	0.4%
Italy	1.8%	1.4%
Lithuania**	0.0%	0.0%
Luxembourg	0.0%	0.0%
Netherlands	2.3%	2.8%
Norway	0.7%	0.4%
Poland*	0.1%	0.2%
Portugal	0.1%	0.1%
Romania**	0.0%	0.0%
Russia*	0.7%	0.9%
Serbia**	0.0%	0.0%
Slovenia**	0.0%	0.0%
Spain	1.1%	1.7%
Sweden	2.1%	1.8%
Switzerland	6.7%	7.1%
United Kingdom	10.0%	10.0%
Total-Europe	44.0%	42.3%

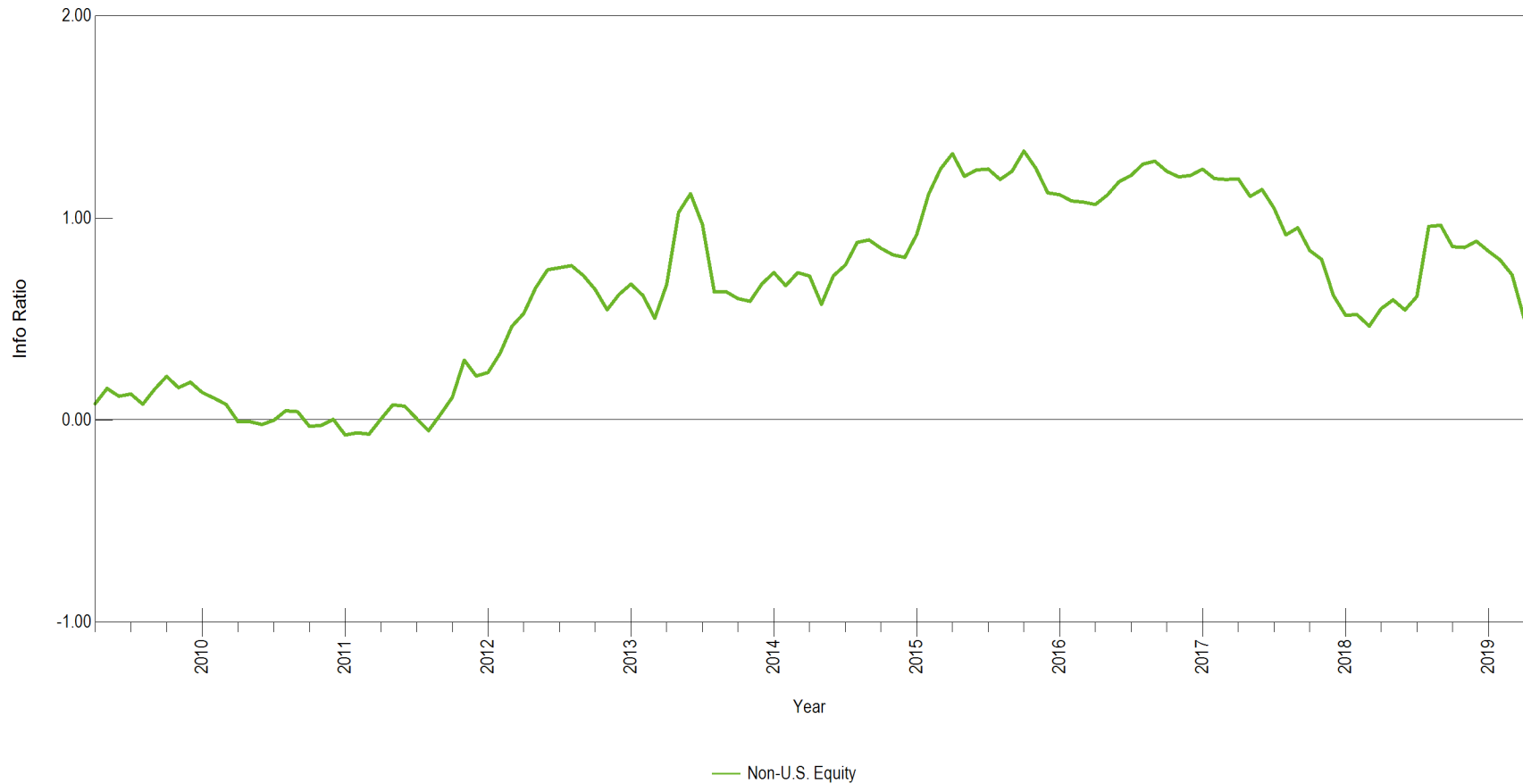
Versus MSCI ACWI ex USA - Quarter Ending March 31, 2020		
	Manager Ending Allocation (USD)	Index Ending Allocation (USD)
Americas		
Brazil*	1.2%	1.4%
Canada	4.4%	6.3%
Chile*	0.1%	0.2%
Colombia*	0.3%	0.1%
Mexico*	0.6%	0.5%
Peru*	0.0%	0.1%
United States	2.4%	0.0%
Total-Americas	9.1%	8.6%
AsiaPacific		
Australia	2.5%	3.9%
China*	6.5%	11.0%
Hong Kong	6.5%	2.5%
India*	2.2%	2.2%
Indonesia*	0.3%	0.4%
Japan	15.7%	17.4%
Korea*	3.2%	3.3%
Malaysia*	0.2%	0.5%
New Zealand	0.1%	0.2%
Philippines*	0.3%	0.2%
Singapore	1.3%	0.8%
Taiwan*	4.0%	3.4%
Thailand*	0.4%	0.6%
Total-AsiaPacific	43.2%	46.5%
Other		
Egypt*	0.1%	0.0%
Israel	0.7%	0.4%
Other Countries	0.3%	0.0%
Qatar*	0.1%	0.3%
South Africa*	0.9%	1.0%
Turkey*	0.2%	0.1%
United Arab Emirates*	0.0%	0.2%
Total-Other	2.2%	2.7%
Totals		
Developed	76.6%	72.5%
Emerging*	21.6%	27.5%
Other	0.3%	
Cash	1.5%	

* = Emerging Market
** = Frontier Market



NON-U.S. EQUITY ROLLING 5 YEAR INFORMATION

Rolling 5 Year Information Ratio



*Returns are net of fees



MANAGER REPORT CARD

Non-U.S. Equity Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
Axiom International	Mar-14	Emerging Markets	x	✓	x	✓	x	✓	x	✓	x	2,905.3	On Watch since April 2019 due to performance
Q.M.A.	Apr-14	Emerging Markets	✓	✓	✓	✓	x	✓	x	✓	x	1,632.8	On Watch since July 2019 due to performance
DFA Emerging Markets	Jul-14	Emerging Markets	x	x	x	x	x	x	✓	x	x	2,208.6	Performance compliant with LACERS' Manager Monitoring Policy
AQR	Feb-14	Non-U.S. Developed	x	✓	x	x	x	x	x	x	x	2,522.4	On Watch since May 2019 due to performance.
Oberweis Asset Mgt.	Jan-14	Non-U.S. Developed	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,434.9	On Watch since February 2020 due to performance
Barrow, Hanley, Mewhinney & Strauss	Nov-13	Non-U.S. Developed	x	x	✓	x	x	x	✓	x	✓	2,574.2	Performance compliant with LACERS' Manager Monitoring Policy
Lazard Asset Mgt.	Nov-13	Non-U.S. Developed	x	✓	x	x	✓	✓	x	x	✓	3,003.5	On Watch since February 2020 due to performance
MFS Institutional Advisors	Oct-13	Non-U.S. Developed	x	✓	x	x	✓	✓	✓	✓	✓	2,662.1	Performance compliant with LACERS' Manager Monitoring Policy
SsgA (Passive)	Aug-93	Non-U.S. Developed	✓	✓	✓	✓	✓	✓	✓	✓	✓	391.2	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
x	Underperformed
=	Equal to
✓✓	Gross Return



CORE FIXED INCOME

NEPC, LLC

Los Angeles City Employees' Retirement System

CORE FIXED INCOME (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Core Fixed Income	3,291,074,018	100.00	2.55	5.07	8.43	4.76	3.53		3.71	Jul-12
Core Fixed Income Blend			3.15	5.68	8.93	4.82	3.36		3.22	Jul-12
Over/Under			-0.60	-0.61	-0.50	-0.06	0.17		0.49	
Baird Advisors	348,691,957	10.60	1.50	3.49	6.34	3.89	3.12	4.01	4.39	Mar-05
BBgBarc US Govt/Credit Int TR			2.40	4.19	6.88	3.79	2.76	3.14	3.81	Mar-05
Over/Under			-0.90	-0.70	-0.54	0.10	0.36	0.87	0.58	
LM Capital (Watch)	332,334,439	10.10	1.28	3.86	7.07	4.13	3.20	3.96	4.66	Mar-05
Core Fixed Income Blend			3.15	5.68	8.93	4.82	3.36	4.02	4.53	Mar-05
Over/Under			-1.87	-1.82	-1.86	-0.69	-0.16	-0.06	0.13	
Loomis Sayles	838,243,253	25.47	3.30	5.95	9.65	5.49	4.17	5.03	9.06	Jul-80
BC US Agg LACERS custom			3.15	5.68	8.93	4.82	3.36	3.88	7.58	Jul-80
Over/Under			0.15	0.27	0.72	0.67	0.81	1.15	1.48	
Neuberger Berman (Watch)	818,834,476	24.88	2.16	4.70	8.07	4.55	3.39	4.55	5.77	Sep-01
Core Fixed Income Blend			3.15	5.68	8.93	4.82	3.36	4.02	4.76	Sep-01
Over/Under			-0.99	-0.98	-0.86	-0.27	0.03	0.53	1.01	
SSgA U.S. Aggregate Bond ¹	952,969,893	28.96	3.06	5.60	8.87	4.81	3.36		3.65	Jul-14
BBgBarc US Aggregate TR			3.15	5.68	8.93	4.82	3.36		3.65	Jul-14
Over/Under			-0.09	-0.08	-0.06	-0.01	0.00		0.00	

1 Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.
BBgBarc = Bloomberg Barclays



Los Angeles City Employees' Retirement System

CORE FIXED INCOME (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Core Fixed Income	3,291,074,018	100.00	2.53	17	5.00	15	8.33	14	4.66	9	3.43	19			3.59	Jul-12
Core Fixed Income Blend			<u>3.15</u>	15	<u>5.68</u>	14	<u>8.93</u>	12	<u>4.82</u>	8	<u>3.36</u>	22			<u>3.22</u>	Jul-12
Over/Under			-0.62		-0.68		-0.60		-0.16		0.07				0.37	
InvMetrics Public DB > \$1 Billion US Fixed Income Net Median			-0.38		1.41		4.33		3.43		2.99				3.15	Jul-12
Baird Advisors	348,691,957	10.60	1.47	45	3.40	40	6.22	32	3.76	10	2.99	4	3.88	10	4.26	Mar-05
BBgBarc US Govt/Credit Int TR			<u>2.40</u>	13	<u>4.19</u>	12	<u>6.88</u>	8	<u>3.79</u>	9	<u>2.76</u>	22	<u>3.14</u>	45	<u>3.81</u>	Mar-05
Over/Under			-0.93		-0.79		-0.66		-0.03		0.23		0.74		0.45	
eV US Interm Duration Fixed Inc Net Median			1.21		2.94		5.43		3.36		2.56		3.08		3.92	Mar-05
LM Capital (Watch)	332,334,439	10.10	1.26	62	3.78	60	6.97	59	4.03	74	3.10	62	3.83	61	4.52	Mar-05
Core Fixed Income Blend			<u>3.15</u>	15	<u>5.68</u>	12	<u>8.93</u>	13	<u>4.82</u>	15	<u>3.36</u>	30	<u>4.02</u>	47	<u>4.53</u>	Mar-05
Over/Under			-1.89		-1.90		-1.96		-0.79		-0.26		-0.19		-0.01	
eV US Core Fixed Inc Net Median			1.68		4.09		7.28		4.36		3.22		3.94		4.49	Mar-05
Loomis Sayles	838,243,253	25.47	3.27	13	5.85	10	9.52	6	5.36	3	4.04	2	4.90	2		Jul-80
BC US Agg LACERS custom			<u>3.15</u>	15	<u>5.68</u>	12	<u>8.93</u>	13	<u>4.82</u>	15	<u>3.36</u>	30	<u>3.88</u>	56		Jul-80
Over/Under			0.12		0.17		0.59		0.54		0.68		1.02			
eV US Core Fixed Inc Net Median			1.68		4.09		7.28		4.36		3.22		3.94			Jul-80
Neuberger Berman (Watch)	818,834,476	24.88	2.13	39	4.60	35	7.93	33	4.40	47	3.24	47	4.38	19	5.61	Sep-01
Core Fixed Income Blend			<u>3.15</u>	15	<u>5.68</u>	12	<u>8.93</u>	13	<u>4.82</u>	15	<u>3.36</u>	30	<u>4.02</u>	47	<u>4.76</u>	Sep-01
Over/Under			-1.02		-1.08		-1.00		-0.42		-0.12		0.36		0.85	
eV US Core Fixed Inc Net Median			1.68		4.09		7.28		4.36		3.22		3.94		4.60	Sep-01
SSgA U.S. Aggregate Bond ¹	952,969,893	28.96	3.05	16	5.58	13	8.84	16	4.77	17	3.32	34			3.62	Jul-14
BBgBarc US Aggregate TR			<u>3.15</u>	15	<u>5.68</u>	12	<u>8.93</u>	13	<u>4.82</u>	15	<u>3.36</u>	30			<u>3.65</u>	Jul-14
Over/Under			-0.10		-0.10		-0.09		-0.05		-0.04				-0.03	
eV US Core Fixed Inc Net Median			1.68		4.09		7.28		4.36		3.22				3.50	Jul-14

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

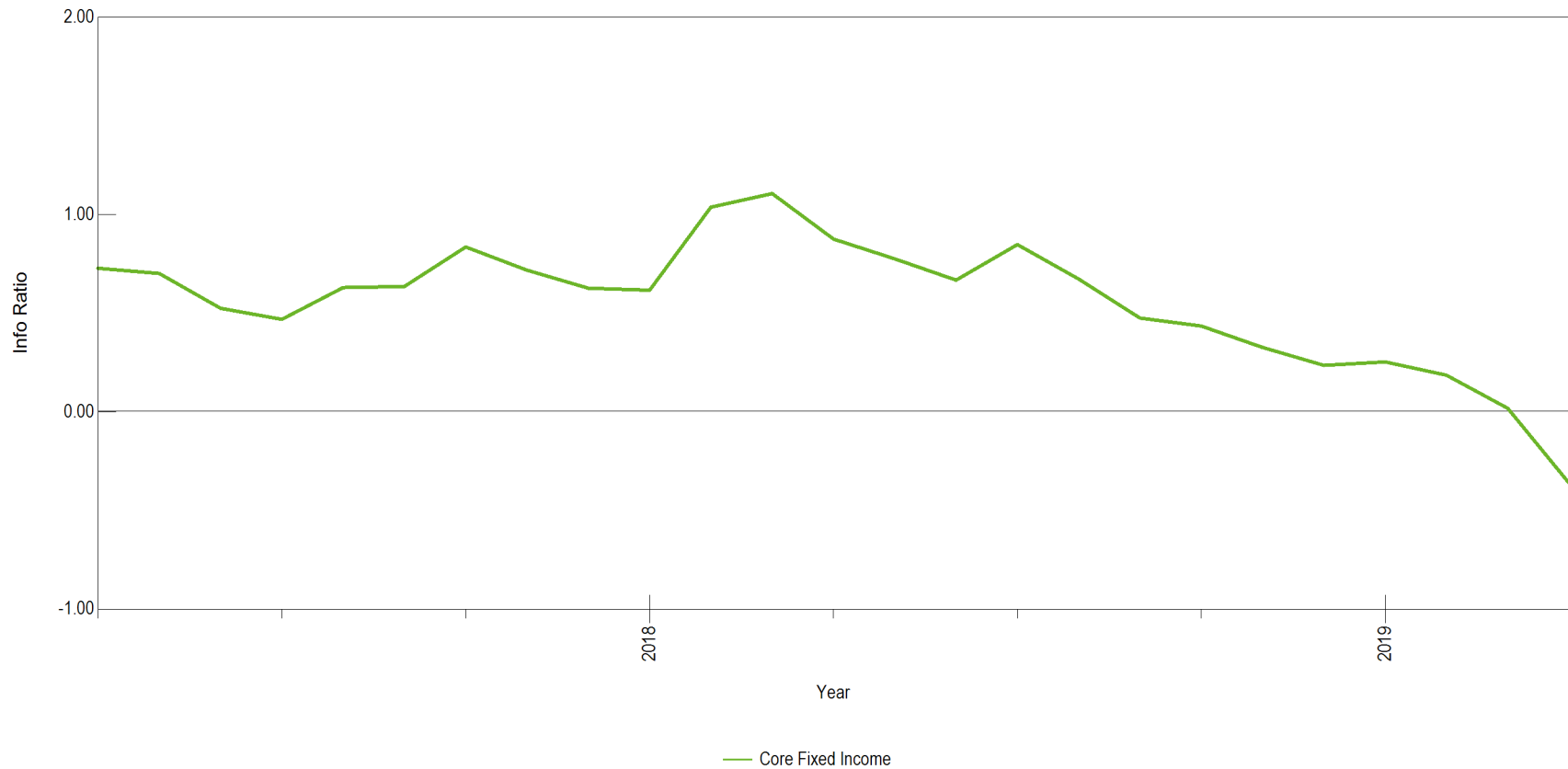
BBgBarc = Bloomberg Barclays

eV = eVestment



CORE FIXED INCOME 3 YEAR INFORMATION RATIO

Rolling 3 Year Information Ratio



*Returns are net of fees



MANAGER REPORT CARD

Core Fixed Income Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
			Neuberger Berman	Sep-01	Core	x	✓	x	✓	x	✓		
Loomis Sayles	Jul-80	Core	✓	✓	✓	✓	✓	✓	✓	✓	✓✓	952.5	Performance compliant with LACERS' Manager Monitoring Policy
Baird Advisors	Mar-05	Intermediate	x	✓	x	✓	x	✓	✓	✓	✓	317.7	Performance compliant with LACERS' Manager Monitoring Policy
LM Capital Group	Mar-05	Core	x	x	x	x	x	x	x	x	x	314.7	On Watch since March 2019 due to performance
SSgA (Passive)	Jul-14	Core	x	✓	x	✓	x	✓	x	✓	x	394.4	Performance compliant with LACERS' Manager Monitoring Policy

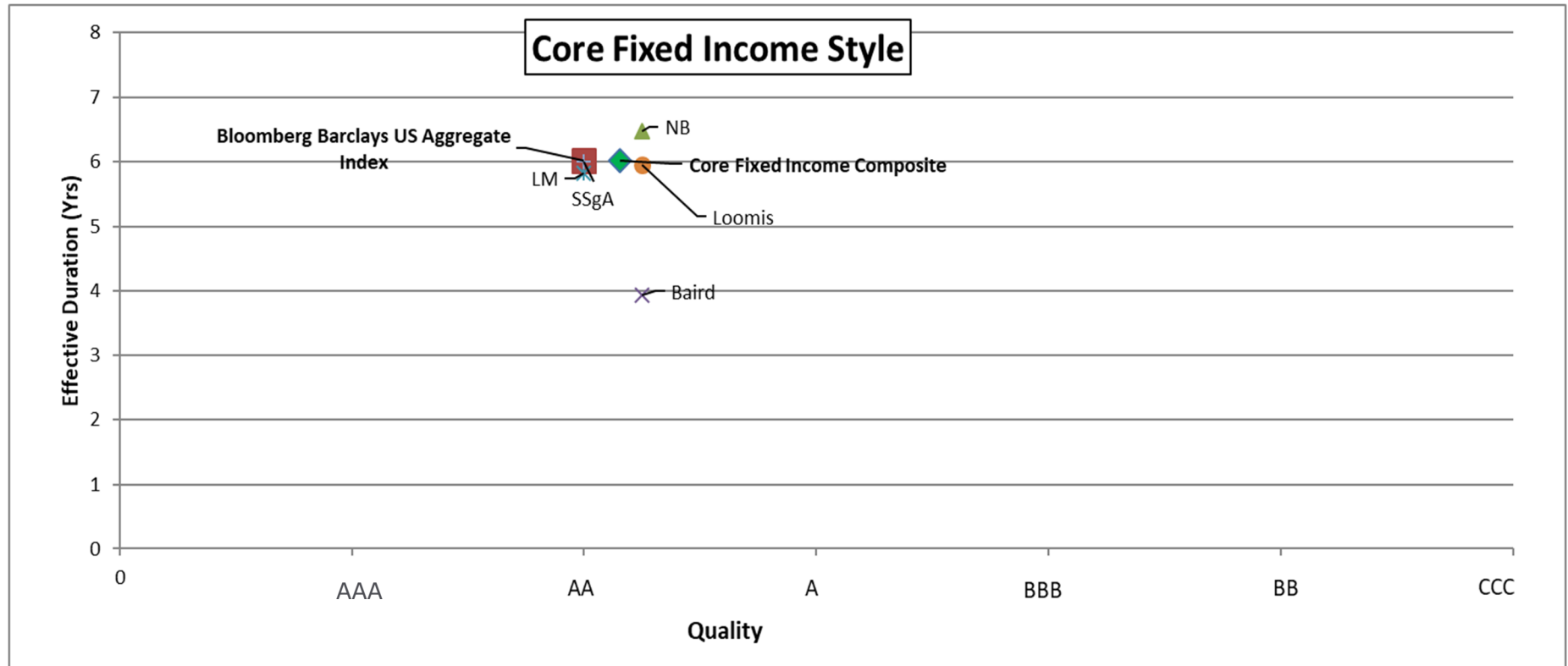
Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
x	Underperformed
=	Equal to
✓✓	Gross Return



CORE FIXED INCOME STYLE ANALYSIS



- LACERS has a slightly lower duration (interest rate risk) than its benchmark.
- The Core Fixed Income Composite has slightly lower average quality rating than its benchmark.



CREDIT OPPORTUNITIES

NEPC, LLC

Los Angeles City Employees' Retirement System

CREDIT OPPORTUNITIES (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Credit Opportunities	883,134,987	100.00	-15.15	-11.73	-8.75	0.08	2.05		3.24	Jun-13
<i>Credit Opportunities Blend</i>			<u>-12.92</u>	<u>-9.64</u>	<u>-6.88</u>	<u>0.66</u>	<u>2.82</u>		<u>3.78</u>	<i>Jun-13</i>
Over/Under			-2.23	-2.09	-1.87	-0.58	-0.77		-0.54	
AEGON USA (Watch)	328,004,726	37.14	-15.45	-11.51	-9.13	0.08	2.45		3.61	Jun-13
<i>BBgBarc US High Yield 2% Issuer Cap TR</i>			<u>-12.68</u>	<u>-9.21</u>	<u>-6.94</u>	<u>0.76</u>	<u>2.78</u>		<u>3.68</u>	<i>Jun-13</i>
Over/Under			-2.77	-2.30	-2.19	-0.68	-0.33		-0.07	
Prudential Emerging Markets	364,235,424	41.24	-16.28	-12.48	-8.13	0.39	2.77		2.85	May-14
<i>JP Morgan EMBI Global Diversified</i>			<u>-13.38</u>	<u>-10.48</u>	<u>-6.84</u>	<u>0.42</u>	<u>2.82</u>		<u>2.62</u>	<i>May-14</i>
Over/Under			-2.90	-2.00	-1.29	-0.03	-0.05		0.23	
Bain Capital Senior Loan Fund, LP*	190,881,568	21.61	-12.35	-10.66	-9.24	-0.63			1.00	Jun-15
<i>Credit Suisse Leveraged Loans</i>			<u>-13.19</u>	<u>-10.92</u>	<u>-9.51</u>	<u>-0.73</u>			<u>1.10</u>	<i>Jun-15</i>
Over/Under			0.84	0.26	0.27	0.10			-0.10	

- Credit Opportunities Blend = 65% BBgBarc US High Yield 2% Issuer Cap TR / 35% JP Morgan EMBI Global Diversified 7/01/2014 to present; BBgBarc US High Yield 2% Issuer Cap TR prior to

eA = eVestment Alliance

BBgBarc = Bloomberg Barclays

*Net of fee return since vehicle is commingled.



Los Angeles City Employees' Retirement System

CREDIT OPPORTUNITIES (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Credit Opportunities	883,134,987	100.00	-15.22		-11.94		-9.03		-0.24		1.71				2.91	Jun-13
<i>Credit Opportunities Blend</i>			<u>-12.92</u>		<u>-9.64</u>		<u>-6.88</u>		<u>0.66</u>		<u>2.82</u>				<u>3.78</u>	<i>Jun-13</i>
<i>Over/Under</i>			-2.30		-2.30		-2.15		-0.90		-1.11				-0.87	
AEGON USA (Watch)	328,004,726	37.14	-15.53	88	-11.77	84	-9.47	82	-0.29	77	2.07	62			3.24	Jun-13
<i>BBgBarc US High Yield 2% Issuer Cap TR</i>			<u>-12.68</u>	57	<u>-9.21</u>	57	<u>-6.94</u>	55	<u>0.76</u>	41	<u>2.78</u>	23			<u>3.68</u>	<i>Jun-13</i>
<i>Over/Under</i>			-2.85		-2.56		-2.53		-1.05		-0.71				-0.44	
<i>eV US High Yield Fixed Inc Net Median</i>			-12.13		-8.89		-6.62		0.57		2.30				3.25	<i>Jun-13</i>
Prudential Emerging Markets	364,235,424	41.24	-16.38	67	-12.74	52	-8.50	39	0.00	32	2.37	35			2.46	May-14
<i>JP Morgan EMBI Global Diversified</i>			<u>-13.38</u>	31	<u>-10.48</u>	33	<u>-6.84</u>	30	<u>0.42</u>	31	<u>2.82</u>	11			<u>2.62</u>	<i>May-14</i>
<i>Over/Under</i>			-3.00		-2.26		-1.66		-0.42		-0.45				-0.16	
<i>eV Emg Mkts Fixed Inc - Hard Currency Net Median</i>			-15.67		-12.64		-8.84		-1.02		2.12				1.65	<i>May-14</i>
Bain Capital Senior Loan Fund, LP	190,881,568	21.61	-12.35	60	-10.66	65	-9.24	62	-0.63	49					1.00	Jun-15
<i>Credit Suisse Leveraged Loans</i>			<u>-13.19</u>	73	<u>-10.92</u>	67	<u>-9.51</u>	66	<u>-0.73</u>	51					<u>1.10</u>	<i>Jun-15</i>
<i>Over/Under</i>			0.84		0.26		0.27		0.10						-0.10	
<i>eV US Float-Rate Bank Loan Fixed Inc Net Median</i>			-11.93		-9.64		-8.27		-0.71						0.94	<i>Jun-15</i>

- Credit Opportunities Blend = 65% BBgBarc US High Yield 2% Issuer Cap TR / 35% JP Morgan EMBI Global Diversified 7/01/2014 to present; BBgBarc US High Yield 2% Issuer Cap TR prior to

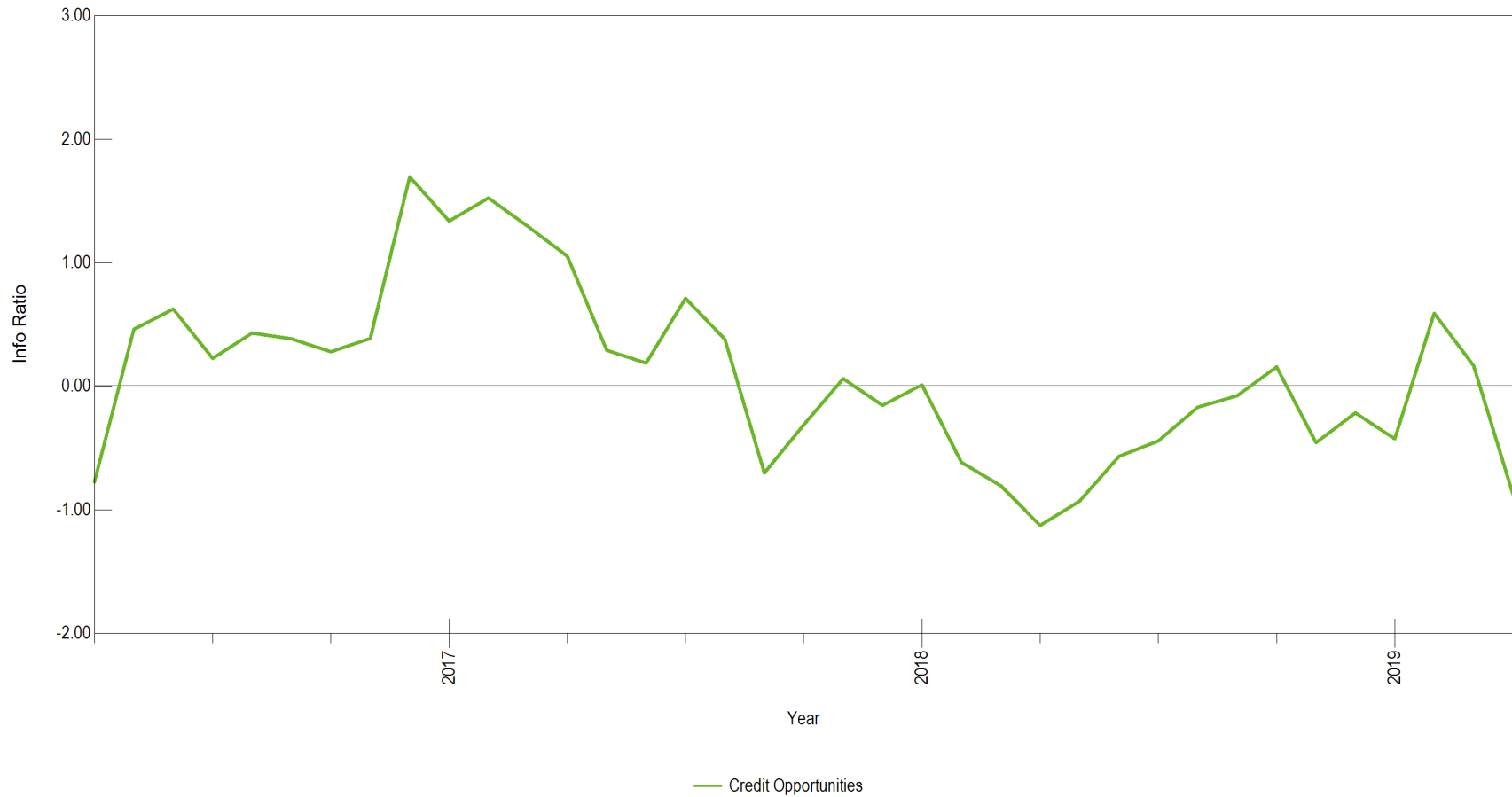
eA = eVestment Alliance

BBgBarc = Bloomberg Barclays



CREDIT OPPORTUNITIES ROLLING 1 YEAR

Rolling 1 Year Information Ratio



*Returns are net of fees



MANAGER REPORT CARD

Credit Opportunities Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
AEGON USA	Jun-13	High Yield Bonds	*	*	*	*	*	*	*	*	*	1,428.4	On Watch since October 2017 due to organizational reasons
Prudential	May-14	Emerging Market Debt	*	*	*	✓	*	✓	*	✓	*	1,432.7	Performance compliant with LACERS' Manager Monitoring Policy
Bain	Jun-15	Bank Loans	✓	*	✓	*	✓	✓	N/A	N/A	*	754.3	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
*	Underperformed
=	Equal to
✓✓	Gross Return



REAL ASSETS

NEPC, LLC

Los Angeles City Employees' Retirement System

REAL ASSETS (GROSS)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Real Assets	1,945,003,556	100.00	-4.40	-1.84	0.19	3.72	4.70	7.28	6.06	Nov-94
<i>CPI + 5% (Unadjusted)</i>			<u>1.67</u>	<u>4.52</u>	<u>6.61</u>	<u>7.01</u>	<u>6.88</u>	<u>6.80</u>	<u>7.27</u>	<i>Nov-94</i>
Over/Under			-6.07	-6.36	-6.42	-3.29	-2.18	0.48	-1.21	
Public Real Assets	1,128,163,061	58.00	-6.98	-4.20	-2.03	1.10	1.16		0.80	Jun-14
<i>Public Real Assets Blend</i>			<u>-12.83</u>	<u>-11.31</u>	<u>-9.81</u>	<u>-2.36</u>	<u>-1.51</u>		<u>-2.45</u>	<i>Jun-14</i>
Over/Under			5.85	7.11	7.78	3.46	2.67		3.25	
TIPS	769,980,916	39.59	1.69	3.32	6.59	3.59	2.79		2.23	Jul-14
<i>BBgBarc US TIPS TR</i>			<u>1.69</u>	<u>3.87</u>	<u>6.85</u>	<u>3.46</u>	<u>2.67</u>		<u>2.22</u>	<i>Jul-14</i>
Over/Under			0.00	-0.55	-0.26	0.13	0.12		0.01	
DFA US TIPS ¹	769,980,916	39.59	1.69	3.32	6.59	3.59	2.92		2.36	Aug-14
<i>BBgBarc US TIPS TR</i>			<u>1.69</u>	<u>3.87</u>	<u>6.85</u>	<u>3.46</u>	<u>2.67</u>		<u>2.22</u>	<i>Aug-14</i>
Over/Under			0.00	-0.55	-0.26	0.13	0.25		0.14	
REITS	186,707,939	9.60	-19.98	-13.52	-11.30	2.15	4.15		4.15	Mar-15
<i>FTSE NAREIT All Equity REIT</i>			<u>-23.44</u>	<u>-17.41</u>	<u>-15.93</u>	<u>-0.07</u>	<u>1.91</u>		<u>1.91</u>	<i>Mar-15</i>
Over/Under			3.46	3.89	4.63	2.22	2.24		2.24	
CenterSquare US Real Estate ¹	186,707,939	9.60	-19.98	-13.52	-11.30	2.15			4.87	May-15
<i>FTSE NAREIT All Equity REIT</i>			<u>-23.44</u>	<u>-17.41</u>	<u>-15.93</u>	<u>-0.07</u>			<u>3.00</u>	<i>May-15</i>
Over/Under			3.46	3.89	4.63	2.22			1.87	
Commodities	171,474,205	8.82	-22.83	-21.04	-22.18	-7.89			-8.46	Jun-15
<i>Bloomberg Commodity Index TR USD</i>			<u>-23.29</u>	<u>-21.37</u>	<u>-22.31</u>	<u>-8.61</u>			<u>-9.03</u>	<i>Jun-15</i>
Over/Under			0.46	0.33	0.13	0.72			0.57	
CoreCommodity Mgmt ¹	171,474,205	8.82	-22.83	-21.04	-22.18	-7.89			-8.46	Jul-15
<i>Bloomberg Commodity Index TR USD</i>			<u>-23.29</u>	<u>-21.37</u>	<u>-22.31</u>	<u>-8.61</u>			<u>-9.03</u>	<i>Jul-15</i>
Over/Under			0.46	0.33	0.13	0.72			0.57	
Private Real Estate	798,610,929	41.06	-0.59	1.73	3.55	6.75	8.11	9.19	6.80	Oct-94
<i>Real Estate Blend</i>			<u>1.17</u>	<u>4.46</u>	<u>5.71</u>	<u>7.66</u>	<u>9.32</u>	<u>11.35</u>	<u>9.75</u>	<i>Oct-94</i>
Over/Under			-1.76	-2.73	-2.16	-0.91	-1.21	-2.16	-2.95	
Timber	18,229,566	0.94	0.00	-0.54	2.74	2.61	1.94	5.06	9.02	Sep-99

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance.

- Public Real Assets Custom Benchmark = 60% BBgBarc US TIPS TR / 20% Bloomberg Commodity Index TR USD / 10% Alerian MLP TR USD / 10% FTSE NAREIT All REIT

- Real Estate Blend = NCREIF-ODCE + 80bps 7/1/2014 to present; NCREIF Property Index 1 Qtr Lag plus 100bps 7/1/2012 - 6/30/2014; NCREIF Property Index prior to

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

REAL ASSETS (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Real Assets	1,945,003,556	100.00	-4.44		-1.95		0.04		3.56		4.54		7.13			Nov-94
<i>CPI + 5% (Unadjusted)</i>			<u>1.67</u>		<u>4.52</u>		<u>6.61</u>		<u>7.01</u>		<u>6.88</u>		<u>6.80</u>			<i>Nov-94</i>
Over/Under			-6.11		-6.47		-6.57		-3.45		-2.34		0.33			
Public Real Assets	1,128,163,061	58.00	-7.03		-4.34		-2.23		0.86		0.94				0.59	Jun-14
<i>Public Real Assets Blend</i>			<u>-12.83</u>		<u>-11.31</u>		<u>-9.81</u>		<u>-2.36</u>		<u>-1.51</u>				<u>-2.45</u>	<i>Jun-14</i>
Over/Under			5.80		6.97		7.58		3.22		2.45				3.04	
TIPS	769,980,916	39.59	1.68		3.28		6.54		3.54		2.74				2.17	Jul-14
<i>BBgBarc US TIPS TR</i>			<u>1.69</u>		<u>3.87</u>		<u>6.85</u>		<u>3.46</u>		<u>2.67</u>				<u>2.22</u>	<i>Jul-14</i>
Over/Under			-0.01		-0.59		-0.31		0.08		0.07				-0.05	
DFA US TIPS¹	769,980,916	39.59	1.68	24	3.28	34	6.54	32	3.54	12	2.87	12			2.30	Aug-14
<i>BBgBarc US TIPS TR</i>			<u>1.69</u>	<u>23</u>	<u>3.87</u>	<u>20</u>	<u>6.85</u>	<u>19</u>	<u>3.46</u>	<u>15</u>	<u>2.67</u>	<u>25</u>			<u>2.22</u>	<i>Aug-14</i>
Over/Under			-0.01		-0.59		-0.31		0.08		0.20				0.08	
<i>eV US TIPS / Inflation Fixed Inc Net Median</i>			<u>0.51</u>		<u>2.31</u>		<u>5.14</u>		<u>2.93</u>		<u>2.20</u>				<u>1.72</u>	<i>Aug-14</i>
REITS	186,707,939	9.60	-20.07		-13.77		-11.65		1.71		3.71				3.71	Mar-15
<i>FTSE NAREIT All Equity REIT</i>			<u>-23.44</u>		<u>-17.41</u>		<u>-15.93</u>		<u>-0.07</u>		<u>1.91</u>				<u>1.91</u>	<i>Mar-15</i>
Over/Under			3.37		3.64		4.28		1.78		1.80				1.80	
CenterSquare US Real Estate¹	186,707,939	9.60	-20.07	19	-13.77	20	-11.65	23	1.71	16					4.42	May-15
<i>FTSE NAREIT All Equity REIT</i>			<u>-23.44</u>	<u>51</u>	<u>-17.41</u>	<u>51</u>	<u>-15.93</u>	<u>50</u>	<u>-0.07</u>	<u>36</u>					<u>3.00</u>	<i>May-15</i>
Over/Under			3.37		3.64		4.28		1.78						1.42	
<i>eV US REIT Net Median</i>			<u>-23.41</u>		<u>-17.40</u>		<u>-15.98</u>		<u>-1.08</u>						<u>1.96</u>	<i>May-15</i>
Commodities	171,474,205	8.82	-22.97		-21.38		-22.64		-8.54						-9.11	Jun-15
<i>Bloomberg Commodity Index TR USD</i>			<u>-23.29</u>		<u>-21.37</u>		<u>-22.31</u>		<u>-8.61</u>						<u>-9.03</u>	<i>Jun-15</i>
Over/Under			0.32		-0.01		-0.33		0.07						-0.08	
CoreCommodity Mgmt¹	171,474,205	8.82	-22.97		-21.38		-22.64		-8.54						-9.11	Jul-15
<i>Bloomberg Commodity Index TR USD</i>			<u>-23.29</u>		<u>-21.37</u>		<u>-22.31</u>		<u>-8.61</u>						<u>-9.03</u>	<i>Jul-15</i>
Over/Under			0.32		-0.01		-0.33		0.07						-0.08	

¹ Portfolio has a mid-month inception date. Since inception return is calculated from the first full month of performance. No universe is available.

- Public Real Assets Custom Benchmark = 60% BBgBarc US TIPS TR / 20% Bloomberg Commodity Index TR USD / 10% Alerian MLP TR USD / 10% FTSE NAREIT All REIT

eA = eVestment Alliance



Los Angeles City Employees' Retirement System

REAL ASSETS (NET)

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Private Real Estate	798,610,929	41.06	-0.61	90	1.66	85	3.46	73	6.67	44	8.02	44	9.07	78		Oct-94
<i>Real Estate Blend</i>			<u>1.17</u>	16	<u>4.46</u>	8	<u>5.71</u>	11	<u>7.66</u>	8	<u>9.32</u>	9	<u>11.35</u>	12		Oct-94
<i>Over/Under</i>			-1.78		-2.80		-2.25		-0.99		-1.30		-2.28			
<i>InvMetrics Public DB Real Estate Priv Net Median</i>			0.61		3.29		4.51		6.55		7.80		9.80			Oct-94
Timber	18,229,566	0.94	0.00		-0.54		2.74		2.61		1.94		5.06			Sep-99

- Real Estate Blend = NCREIF-ODCE + 80bps 7/1/2014 to present; NCREIF Property Index 1 Qtr Lag plus 100bps 7/1/2012 - 6/30/2014; NCREIF Property Index prior to eA = eVestment Alliance



MANAGER REPORT CARD

Real Assets Managers	Inception Date	Mandate	Current Quarter (Net)		One Year (Net)		Three Years (Net)		Five Years (Net)		Since Inception (Net)	Annual Mgt Fee Paid \$ (000)	Comments
			Index	Universe	Index	Universe	Index	Universe	Index	Universe	Index		
DFA	Jul-14	U.S. TIPS	x	✓	x	✓	✓	✓	✓	✓	✓	333.9	Performance compliant with LACERS' Manager Monitoring Policy
CenterSquare	Apr-15	REITS	✓	✓	✓	✓	✓	✓	N/A	N/A	✓	592.3	Performance compliant with LACERS' Manager Monitoring Policy
CoreCommodity Mgt.	Jul-15	Commodities	✓	N/A	x	N/A	✓	N/A	N/A	N/A	x	983.9	Performance compliant with LACERS' Manager Monitoring Policy

Note: Managers are placed on Watch List for concerns with organization, process and performance. Managers are normally on the Watch List for 12 months though may be longer if manager issues remain but not severe enough to warrant termination recommendation.

- Annual Management Fee Paid as of fiscal year ending June 30, 2019.
- * Where net of fees performance is not available gross of fee returns are evaluated.

Legend	
✓	Outperformed
x	Underperformed
=	Equal to
✓✓	Gross Return



APPENDIX

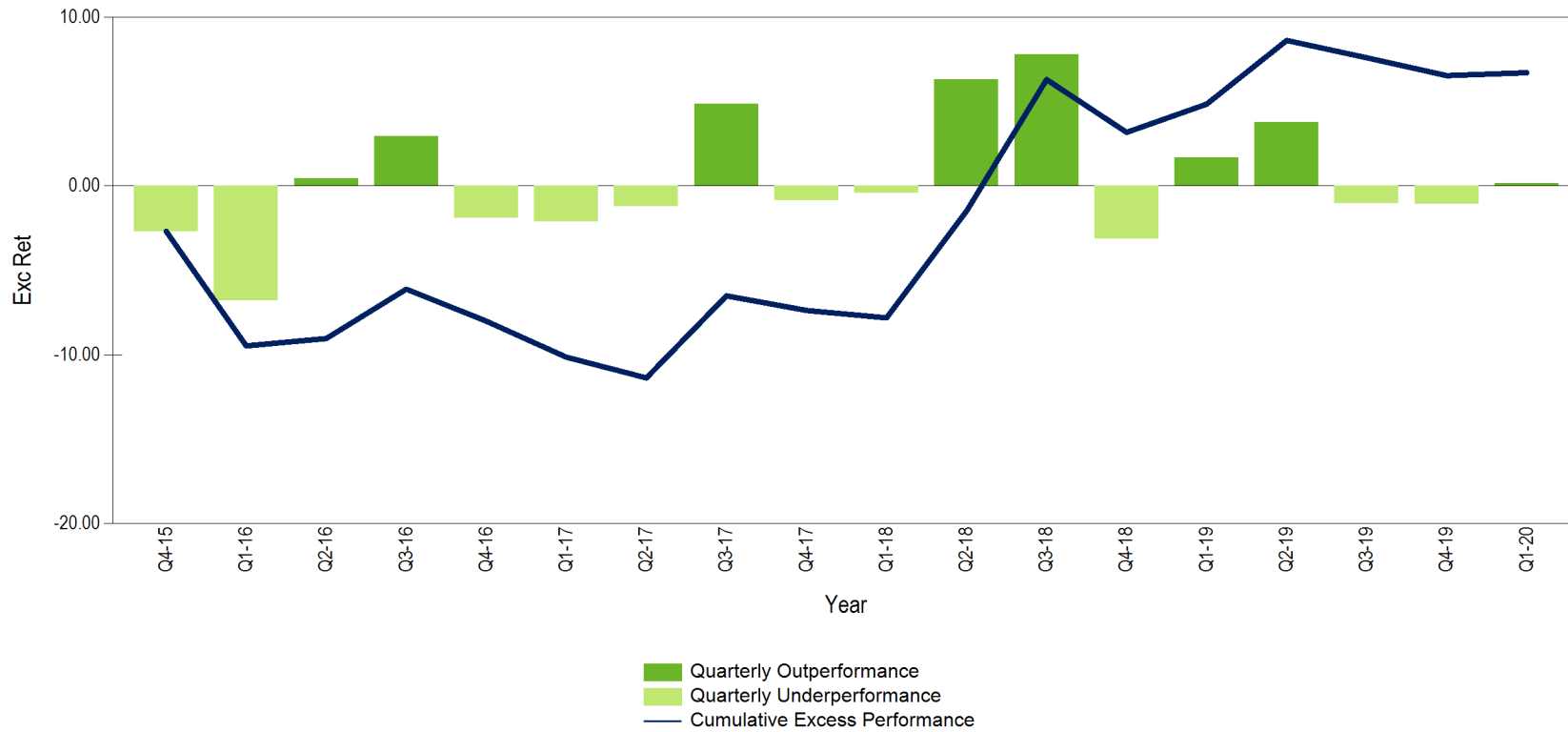
NEPC, LLC

U.S. EQUITY MANAGER PERFORMANCE

NEPC, LLC

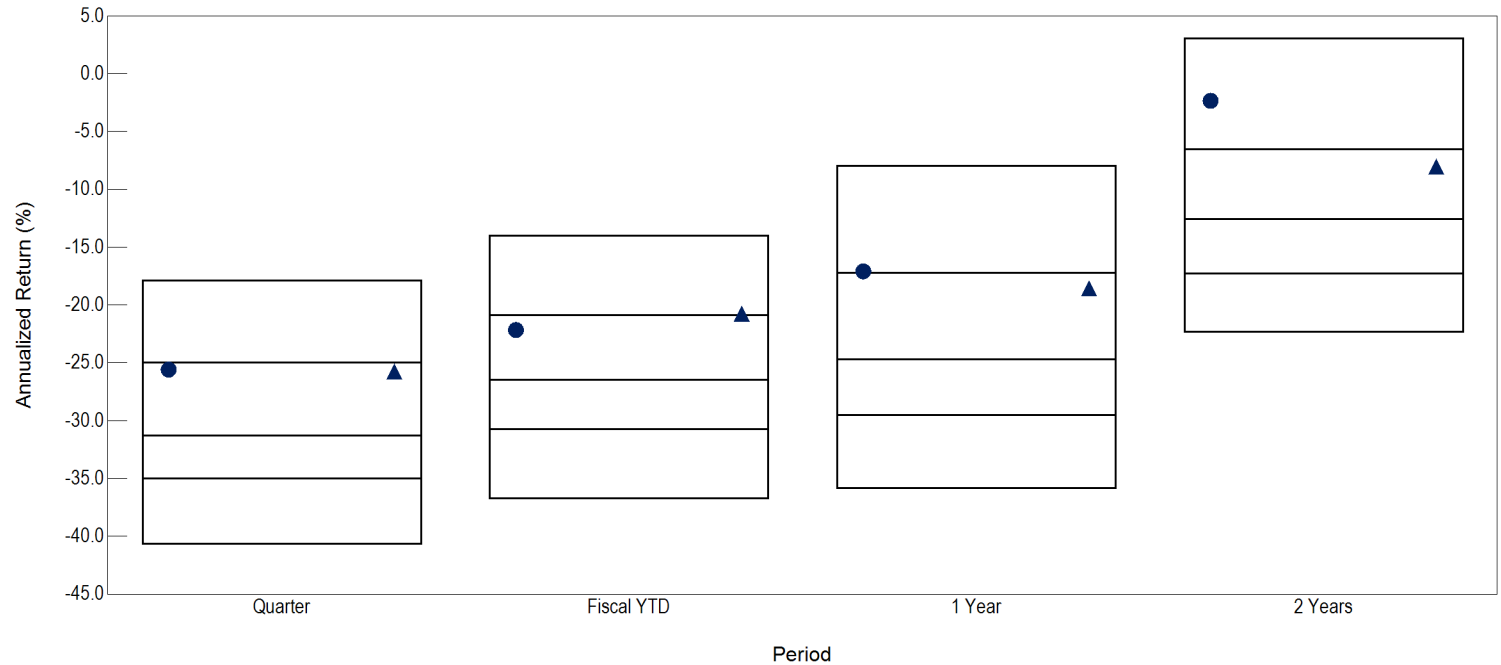
EAM INVESTORS

Quarterly and Cumulative Excess Performance



EAM INVESTORS

EAM Investors vs. eV US Small Cap Equity Net



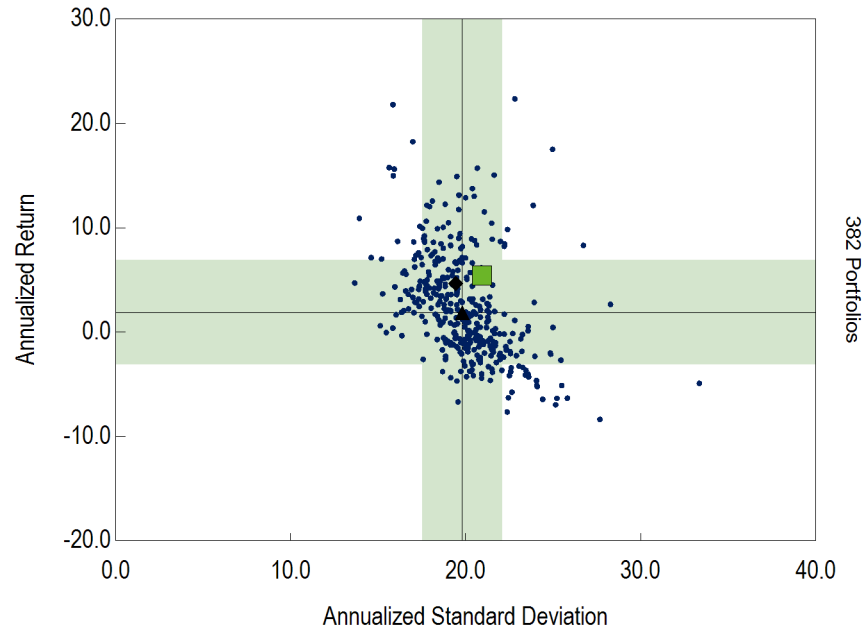
	Return (Rank)							
5th Percentile	-17.87		-14.00		-7.96		3.03	
25th Percentile	-24.92		-20.82		-17.19		-6.48	
Median	-31.26		-26.40		-24.66		-12.52	
75th Percentile	-34.96		-30.67		-29.46		-17.22	
95th Percentile	-40.57		-36.68		-35.79		-22.29	
# of Portfolios	414		413		413		408	
● EAM Investors	-25.59	(29)	-22.17	(32)	-17.09	(25)	-2.35	(12)
▲ Russell 2000 Growth	-25.77	(29)	-20.76	(25)	-18.58	(28)	-8.05	(30)



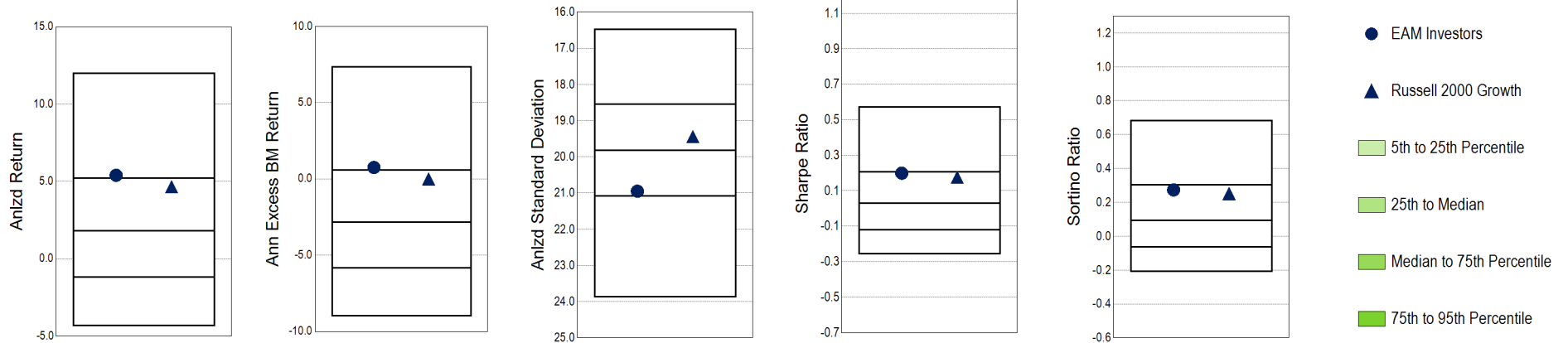
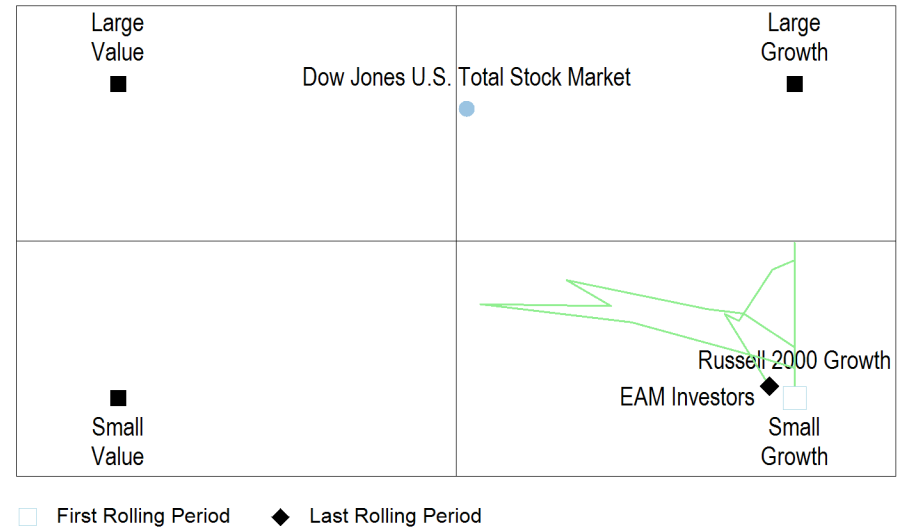
Los Angeles City Employees' Retirement System

EAM INVESTORS

Since Inception Risk Return

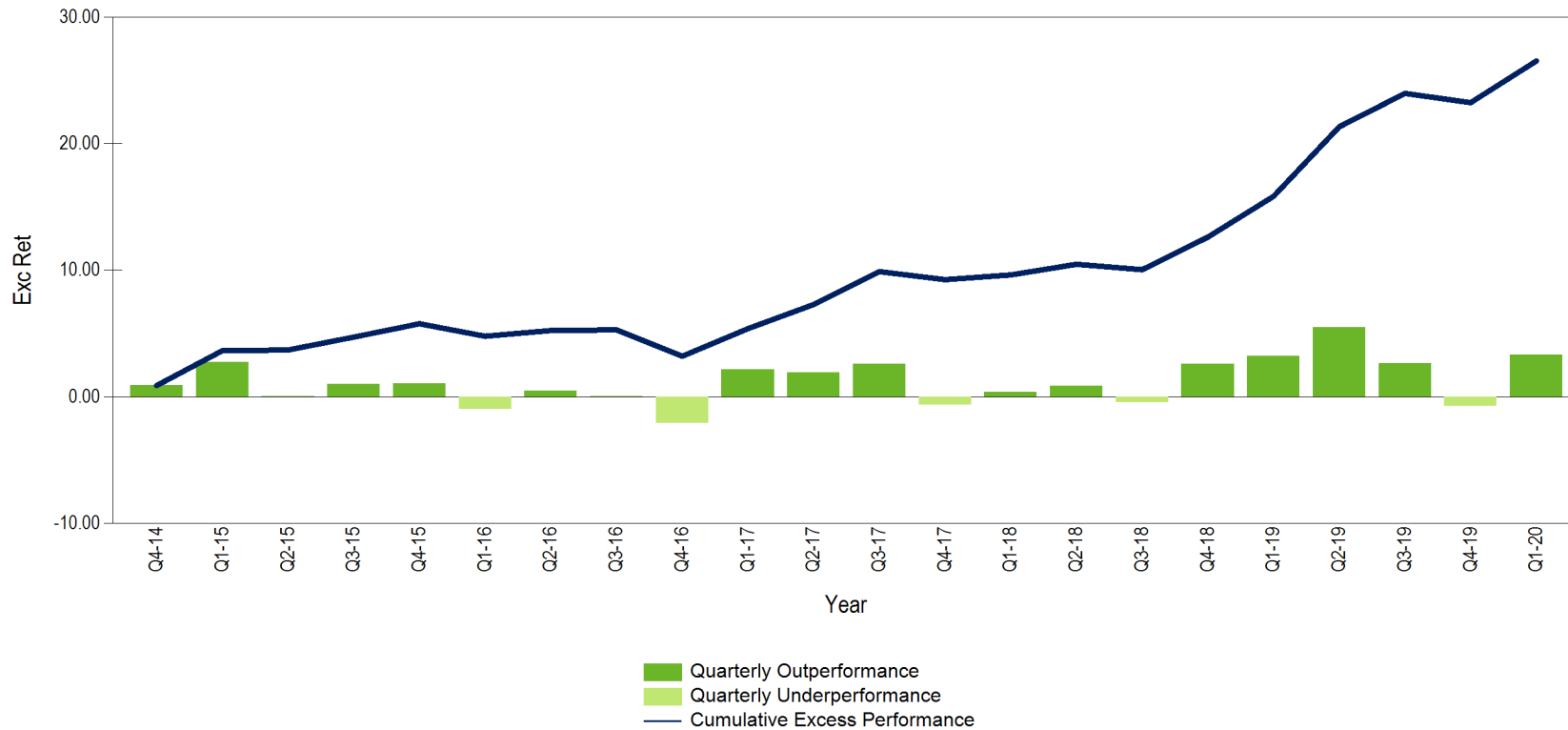


Since Inception Style Map



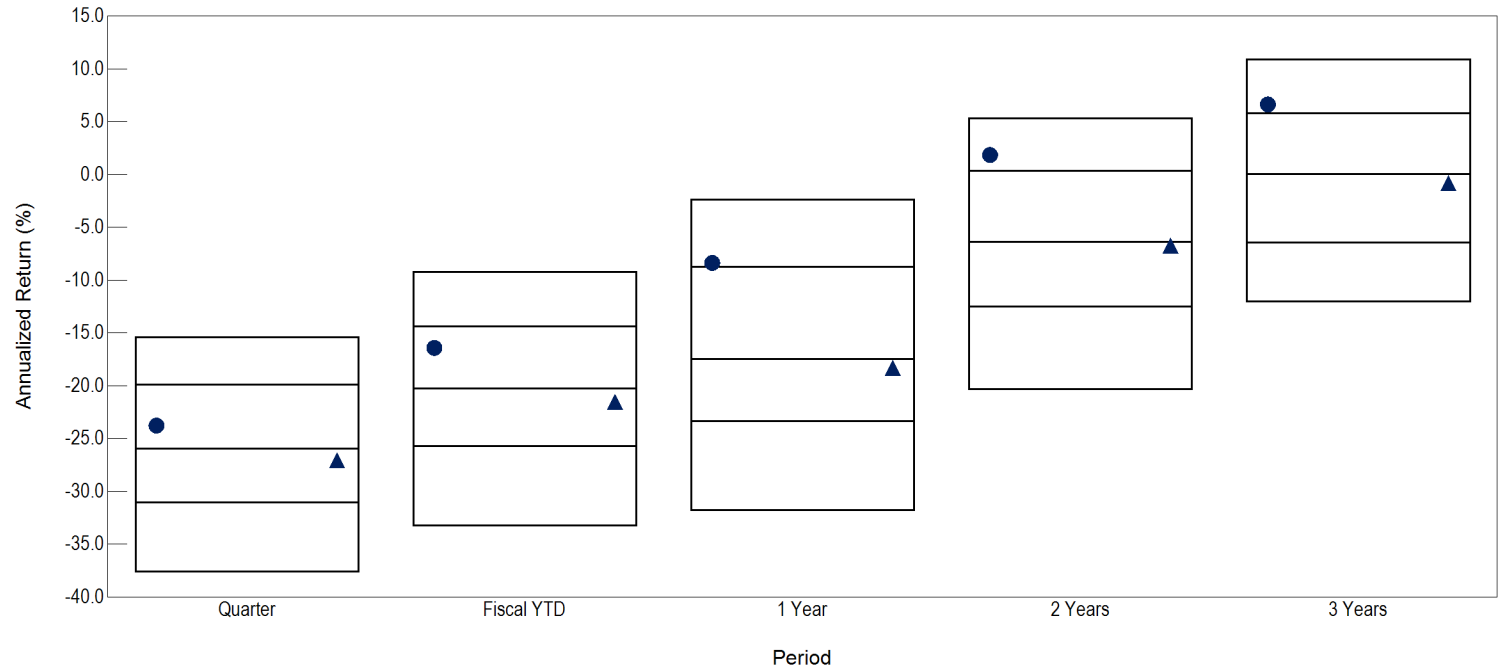
PRINCIPAL GLOBAL INVESTORS

Quarterly and Cumulative Excess Performance



PRINCIPAL GLOBAL INVESTORS

Principal Global Investors vs. eV US Mid Cap Equity Net



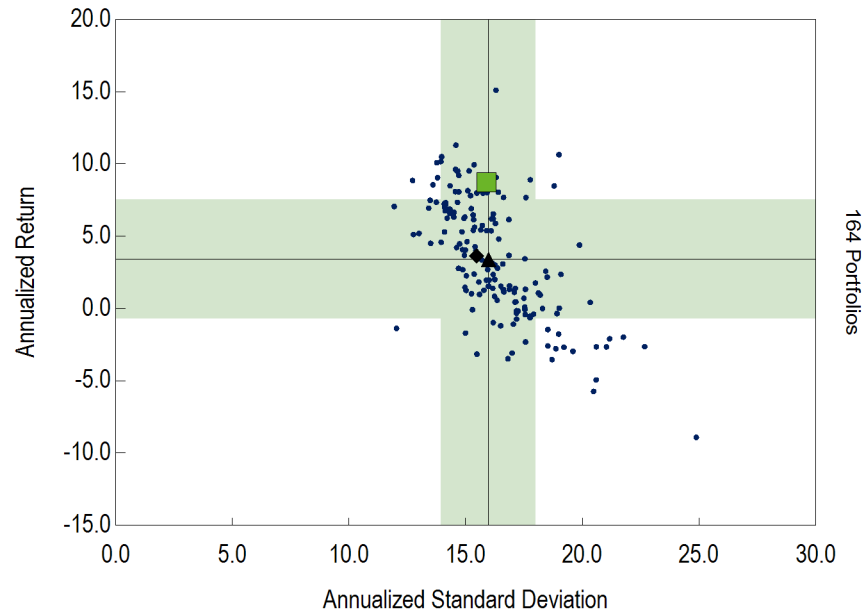
	Return (Rank)									
5th Percentile	-15.38		-9.21		-2.40		5.33		10.90	
25th Percentile	-19.85		-14.35		-8.69		0.38		5.84	
Median	-25.91		-20.23		-17.38		-6.32		0.07	
75th Percentile	-30.96		-25.67		-23.30		-12.45		-6.35	
95th Percentile	-37.53		-33.16		-31.70		-20.24		-11.98	
# of Portfolios	178		178		178		177		175	
● Principal Global Investors	-23.78	(44)	-16.42	(36)	-8.38	(23)	1.84	(17)	6.63	(18)
▲ Russell MidCap	-27.07	(55)	-21.55	(57)	-18.31	(53)	-6.74	(51)	-0.81	(52)



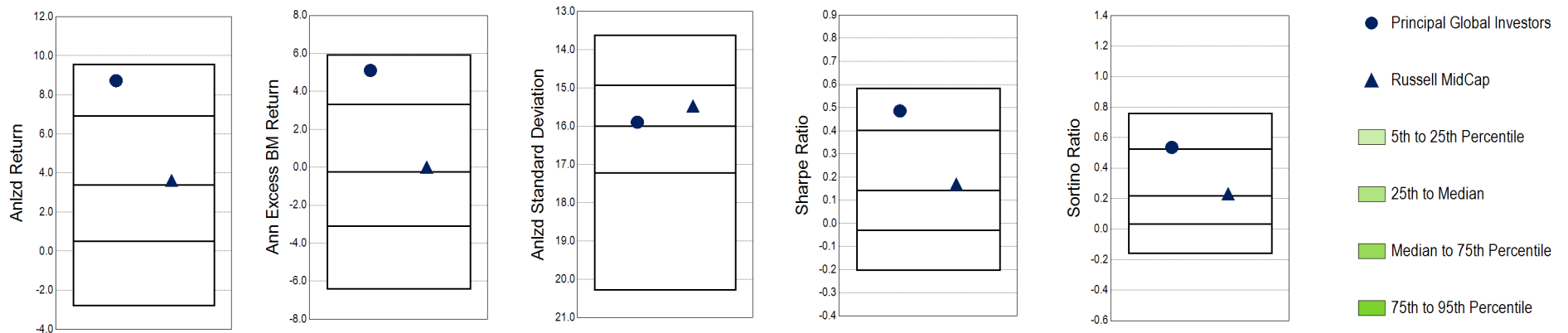
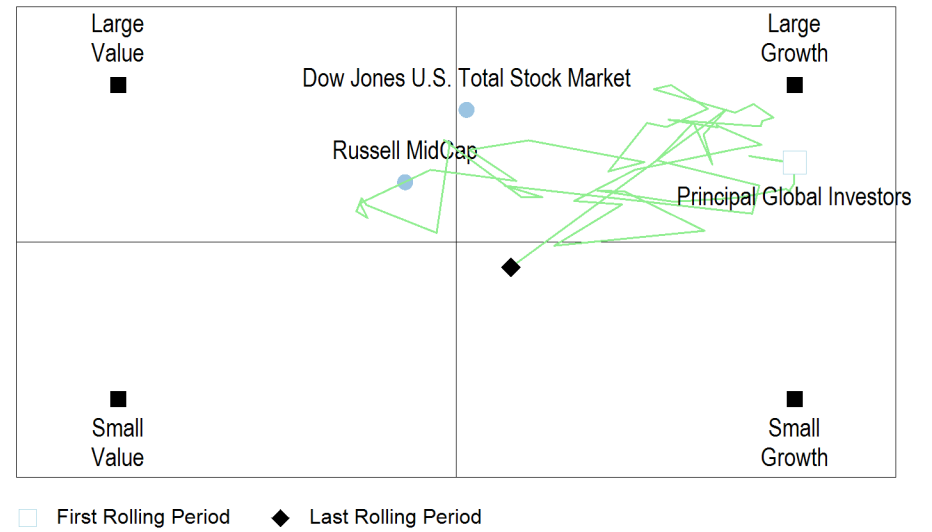
Los Angeles City Employees' Retirement System

PRINCIPAL GLOBAL INVESTORS

Since Inception Risk Return

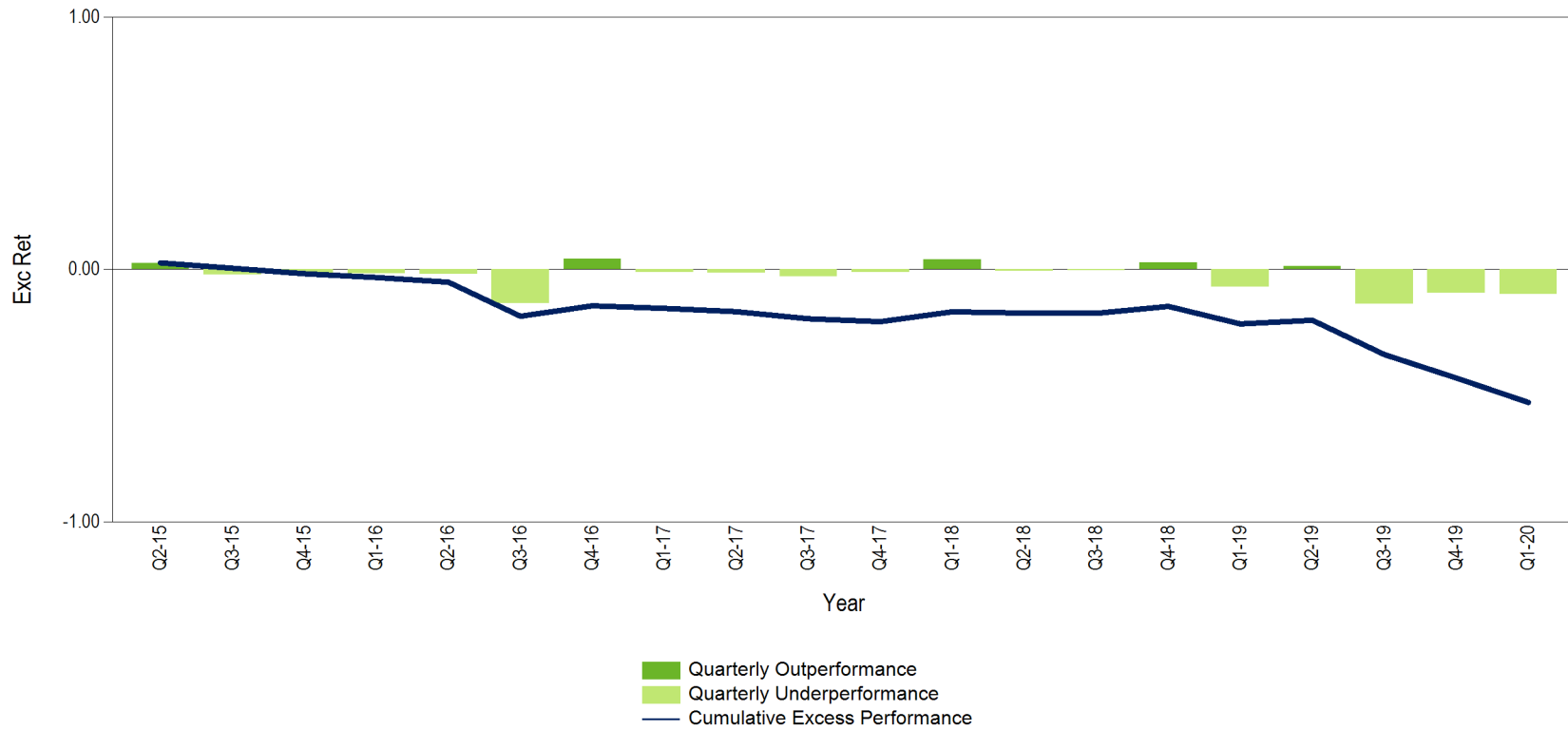


Since Inception Style Map



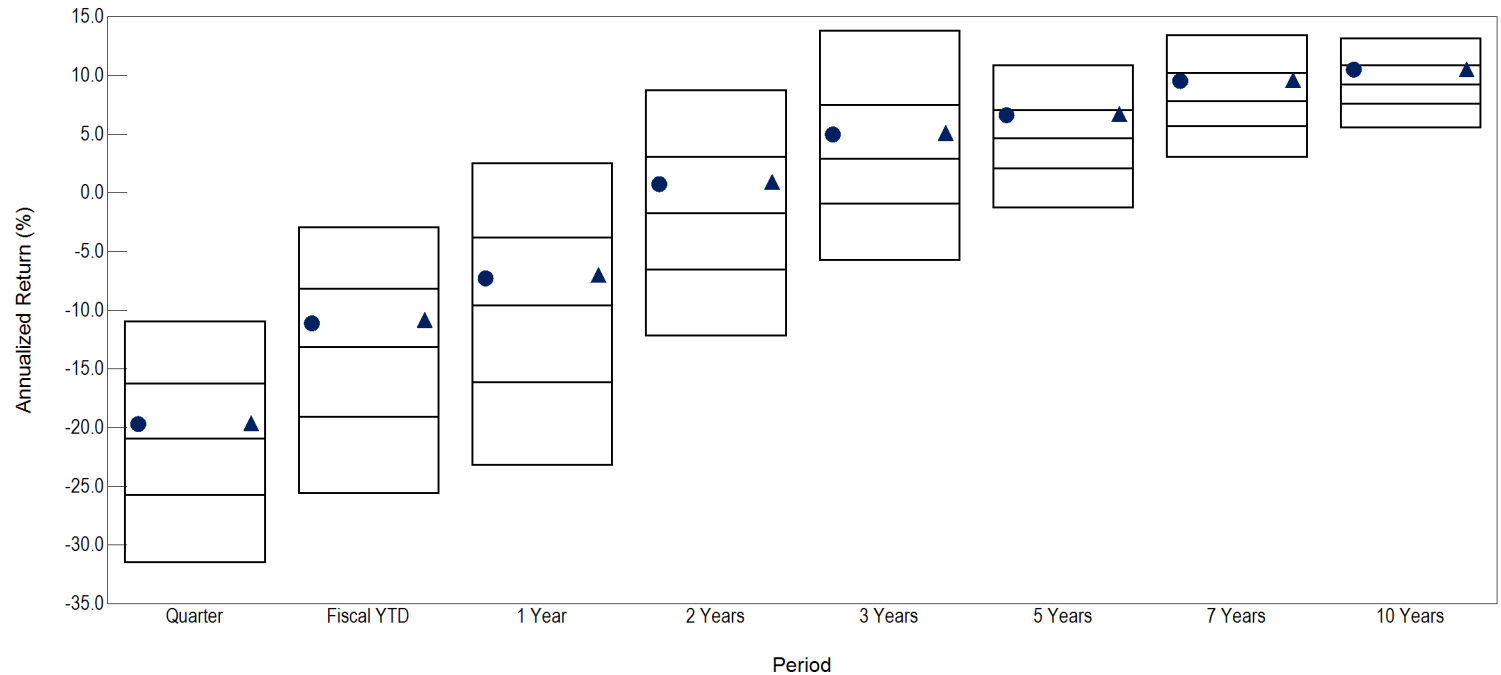
RHUMBLINE ADVISORS S&P 500

Quarterly and Cumulative Excess Performance



RHUMBLINE ADVISORS S&P 500

Rhumbline Advisors S&P 500 vs. eV US Large Cap Equity Net



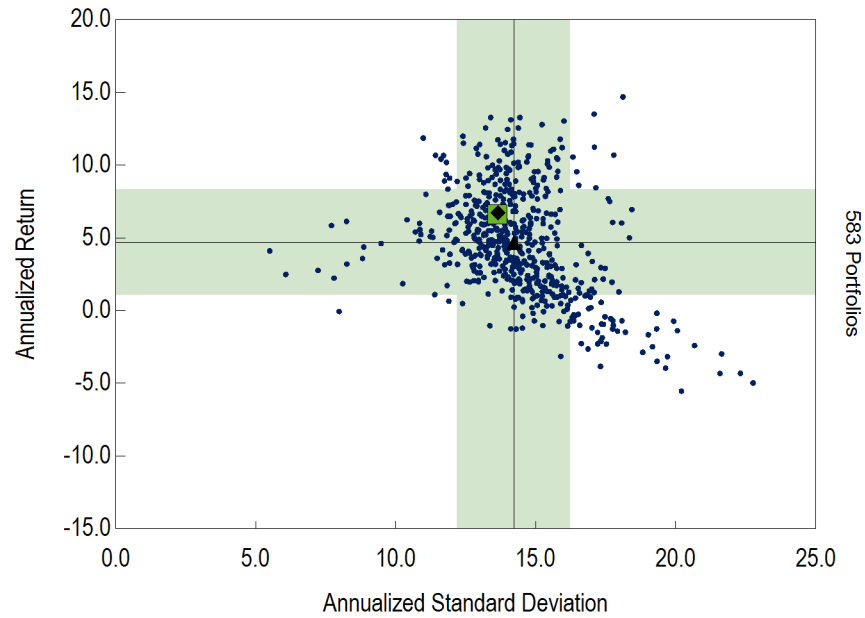
	Return (Rank)													
5th Percentile	-10.94	(43)	-2.92	(39)	2.51	(40)	8.75	(37)	13.81	(35)	10.88	(29)	13.42	(32)
25th Percentile	-16.18	(42)	-8.09	(37)	-3.76	(38)	3.12	(35)	7.56	(35)	7.09	(28)	10.28	(31)
Median	-20.88	(42)	-13.10	(37)	-9.52	(38)	-1.65	(35)	2.94	(35)	4.69	(28)	7.87	(31)
75th Percentile	-25.69	(42)	-19.01	(37)	-16.06	(38)	-6.47	(35)	-0.88	(35)	2.12	(28)	5.76	(31)
95th Percentile	-31.40	(42)	-25.50	(37)	-23.13	(38)	-12.11	(35)	-5.68	(35)	-1.20	(28)	3.13	(31)
# of Portfolios	640		634		634		630		614		583		540	
● Rhumbline Advisors S&P 500	-19.69	(43)	-11.12	(39)	-7.28	(40)	0.74	(37)	4.97	(35)	6.61	(29)	9.53	(32)
▲ S&P 500	-19.60	(42)	-10.82	(37)	-6.98	(38)	0.92	(35)	5.10	(35)	6.73	(28)	9.62	(31)



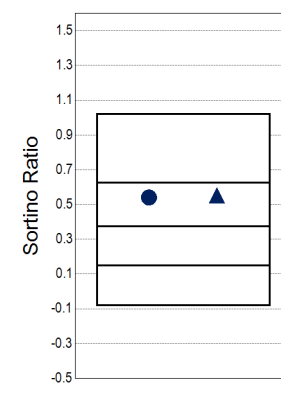
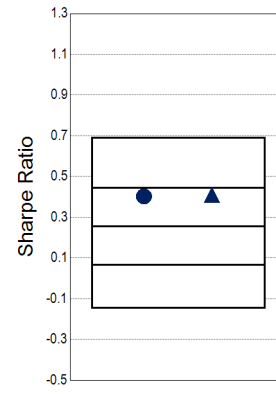
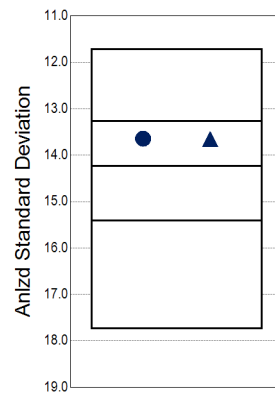
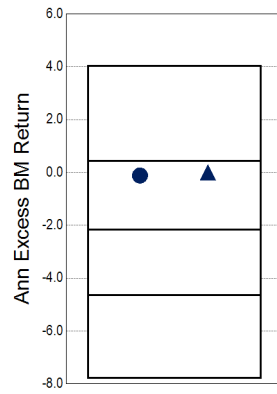
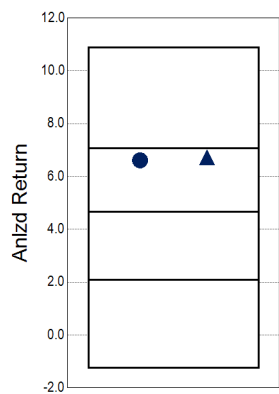
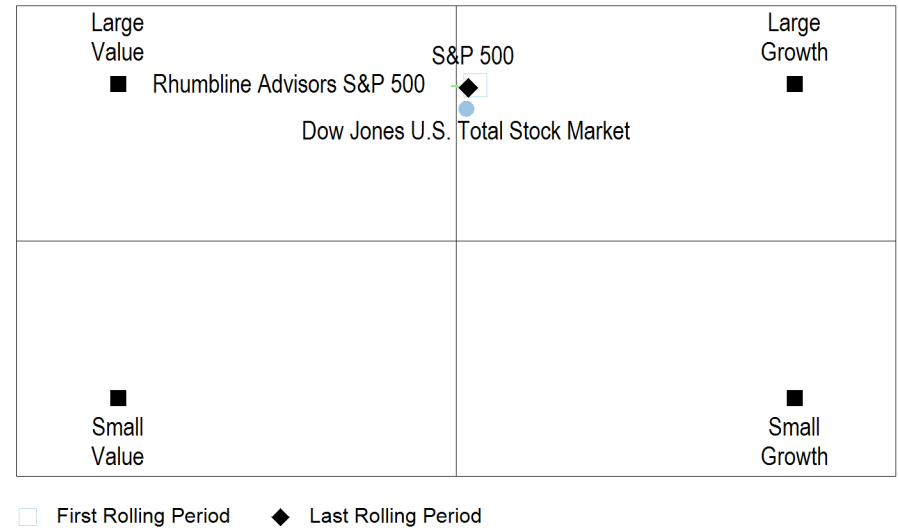
Los Angeles City Employees' Retirement System

RHUMBLINE ADVISORS S&P 500

5 Year Risk Return



5 Year Style Map

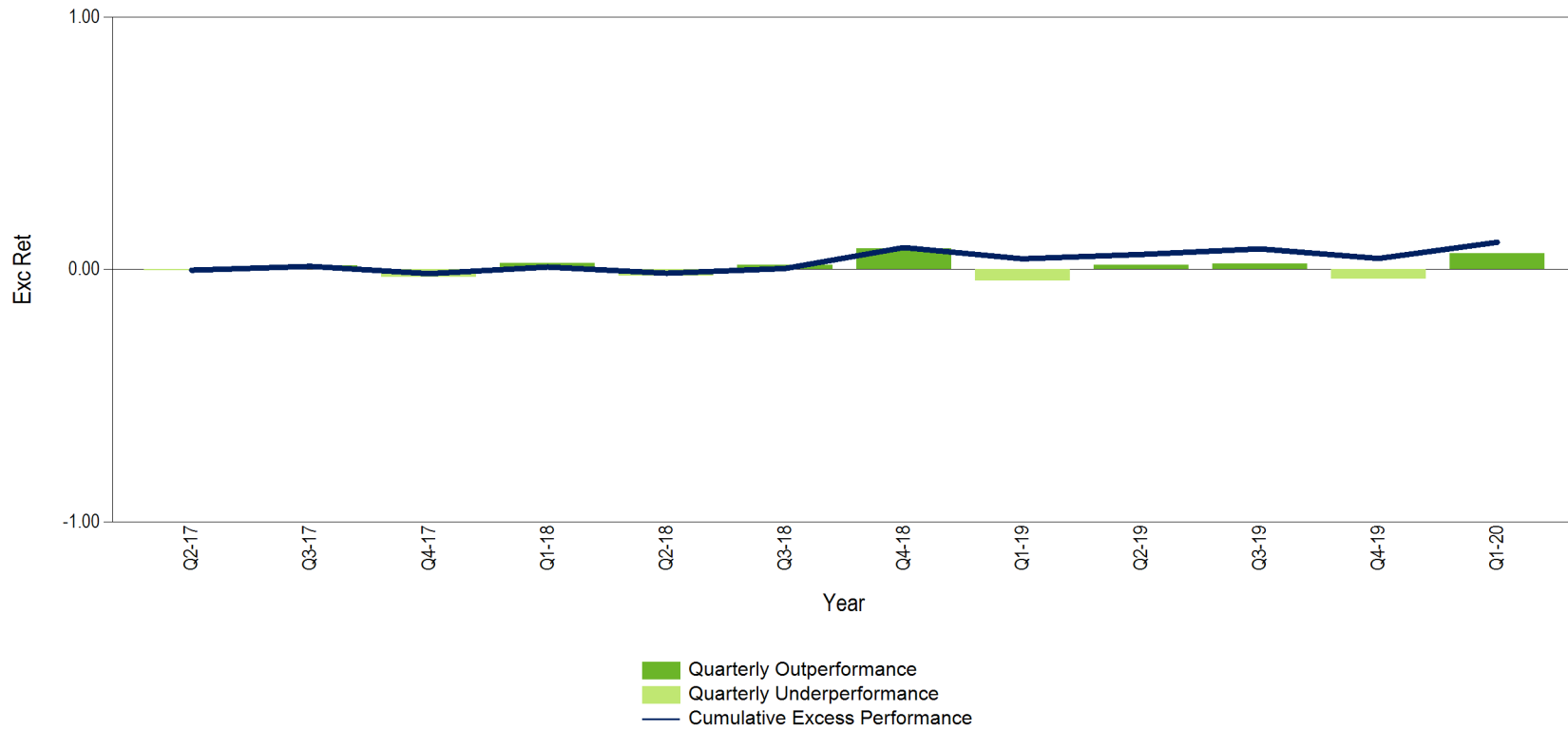


- Rhumbline Advisors S&P 500
- ▲ S&P 500
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



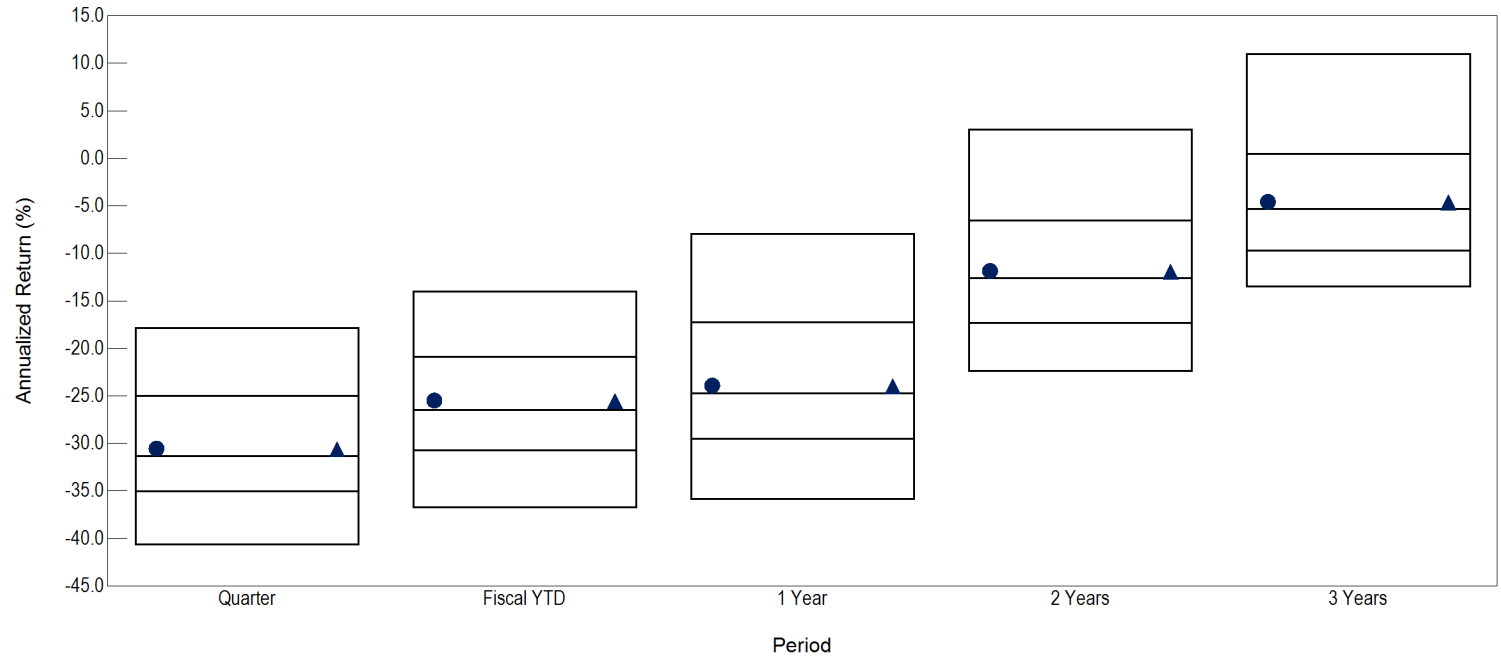
RHUMBLINE ADVISORS RUSSELL 2000

Quarterly and Cumulative Excess Performance



RHUMBLINE ADVISORS RUSSELL 2000

Rhumbline Advisors Russell 2000 vs. eV US Small Cap Equity Net



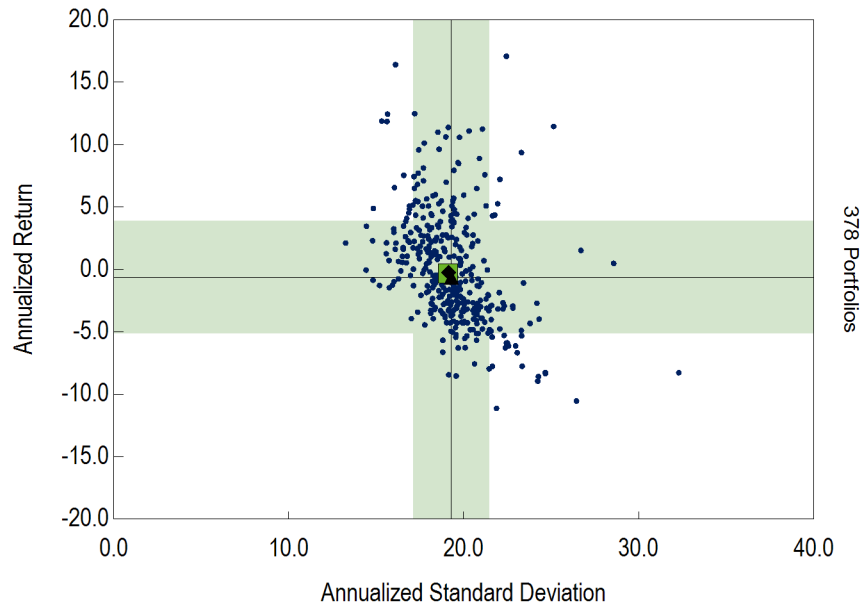
	Return (Rank)									
5th Percentile	-17.87		-14.00		-7.96		3.03		10.97	
25th Percentile	-24.92		-20.82		-17.19		-6.48		0.53	
Median	-31.26		-26.40		-24.66		-12.52		-5.29	
75th Percentile	-34.96		-30.67		-29.46		-17.22		-9.61	
95th Percentile	-40.57		-36.68		-35.79		-22.29		-13.40	
# of Portfolios	414		413		413		408		402	
● Rhumbline Advisors Russell 2000	-30.55	(47)	-25.49	(45)	-23.92	(47)	-11.86	(48)	-4.59	(46)
▲ Russell 2000	-30.61	(47)	-25.55	(46)	-23.99	(48)	-11.93	(48)	-4.64	(46)



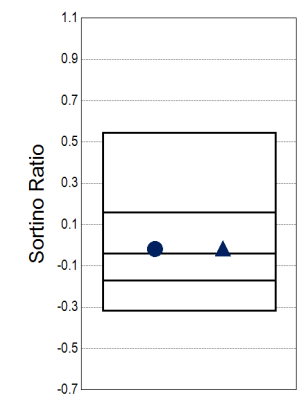
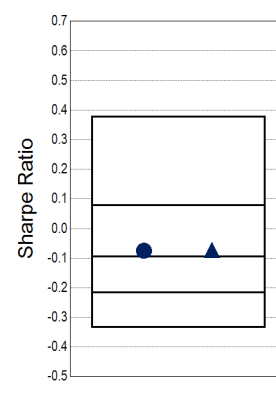
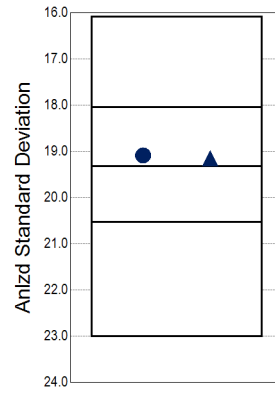
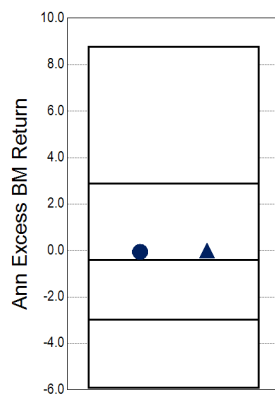
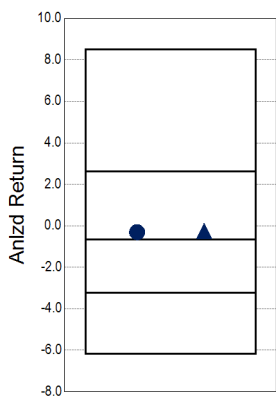
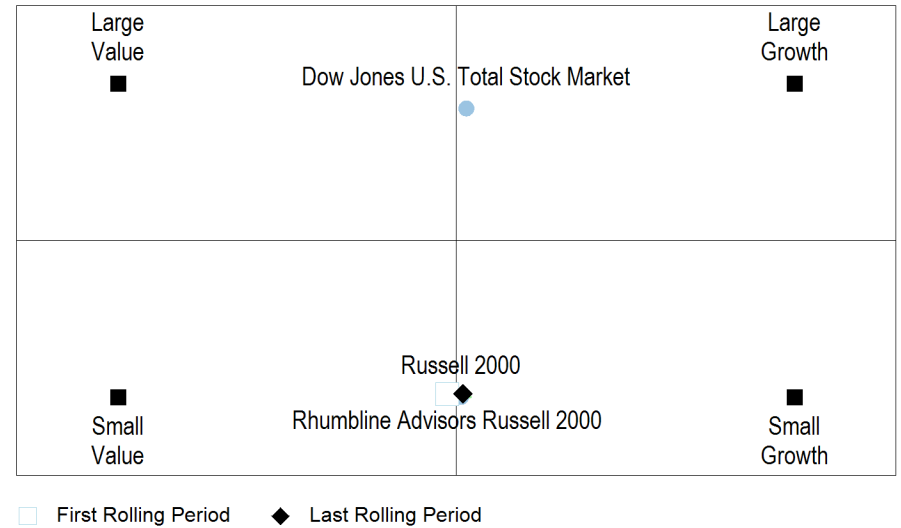
Los Angeles City Employees' Retirement System

RHUMBLINE ADVISORS RUSSELL 2000

Since Inception Risk Return



Since Inception Style Map



- Rhumbline Advisors Russell 2000
- ▲ Russell 2000
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

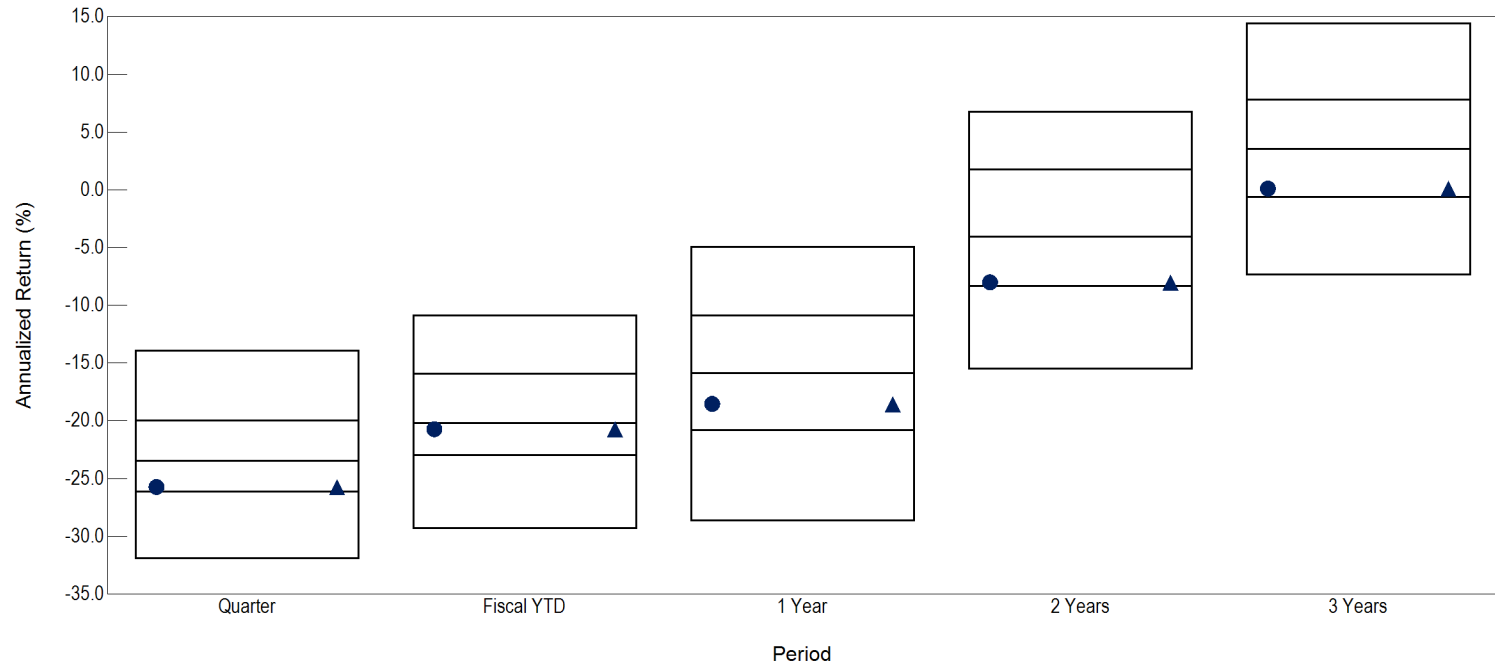
RHUMBLINE ADVISORS RUSSELL 2000 GROWTH

Quarterly and Cumulative Excess Performance



RHUMBLINE ADVISORS RUSSELL 2000 GROWTH

Rhumbline Advisors Russell 2000 Growth vs. eV US Small Cap Growth Equity Net



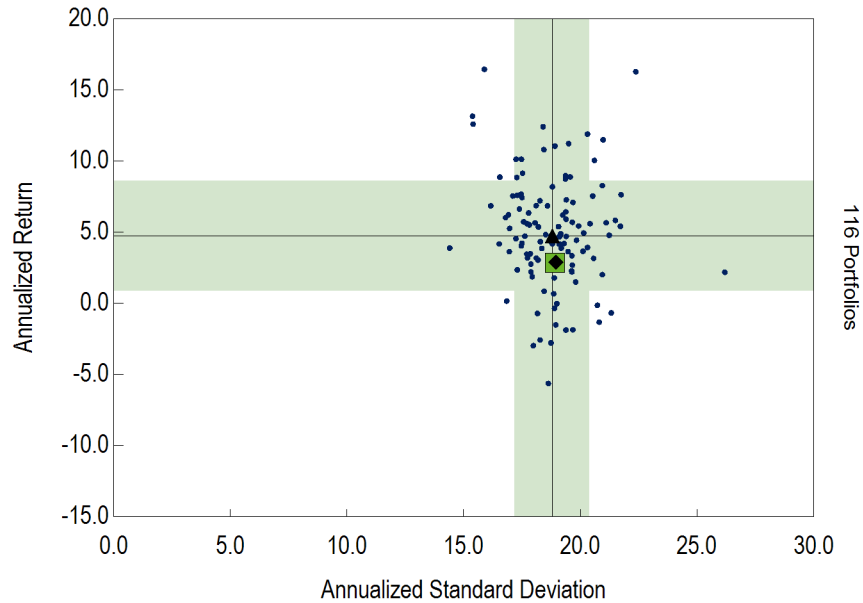
	Return (Rank)									
5th Percentile	-13.93		-10.88		-4.95		6.76		14.42	
25th Percentile	-19.93		-15.89		-10.80		1.81		7.89	
Median	-23.40		-20.12		-15.80		-3.98		3.58	
75th Percentile	-26.07		-22.90		-20.76		-8.28		-0.57	
95th Percentile	-31.87		-29.25		-28.56		-15.43		-7.29	
# of Portfolios	128		128		128		127		127	
● Rhumbline Advisors Russell 2000 Growth	-25.74	(72)	-20.73	(56)	-18.54	(65)	-8.01	(73)	0.11	(73)
▲ Russell 2000 Growth	-25.77	(72)	-20.76	(57)	-18.58	(65)	-8.05	(73)	0.10	(73)



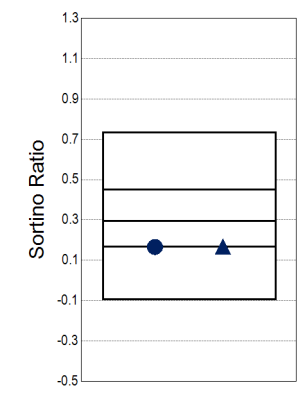
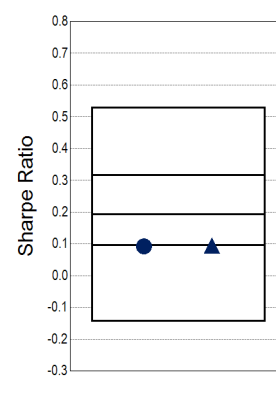
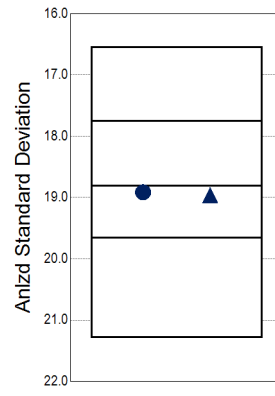
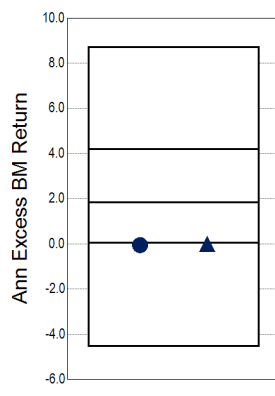
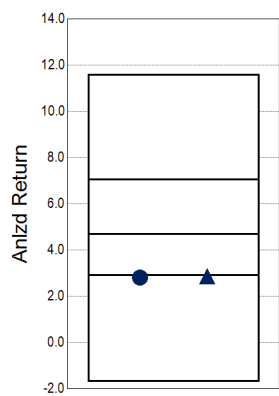
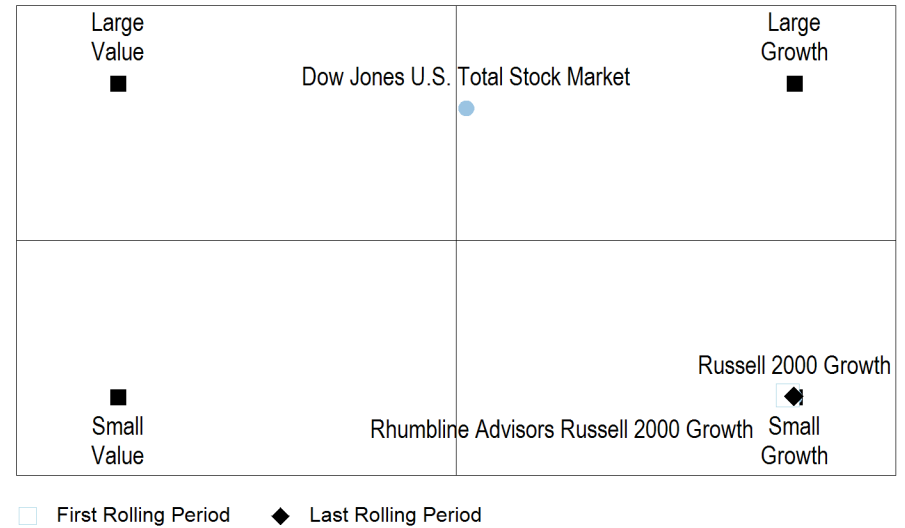
Los Angeles City Employees' Retirement System

RHUMBLINE ADVISORS RUSSELL 2000 GROWTH

Since Inception Risk Return



Since Inception Style Map

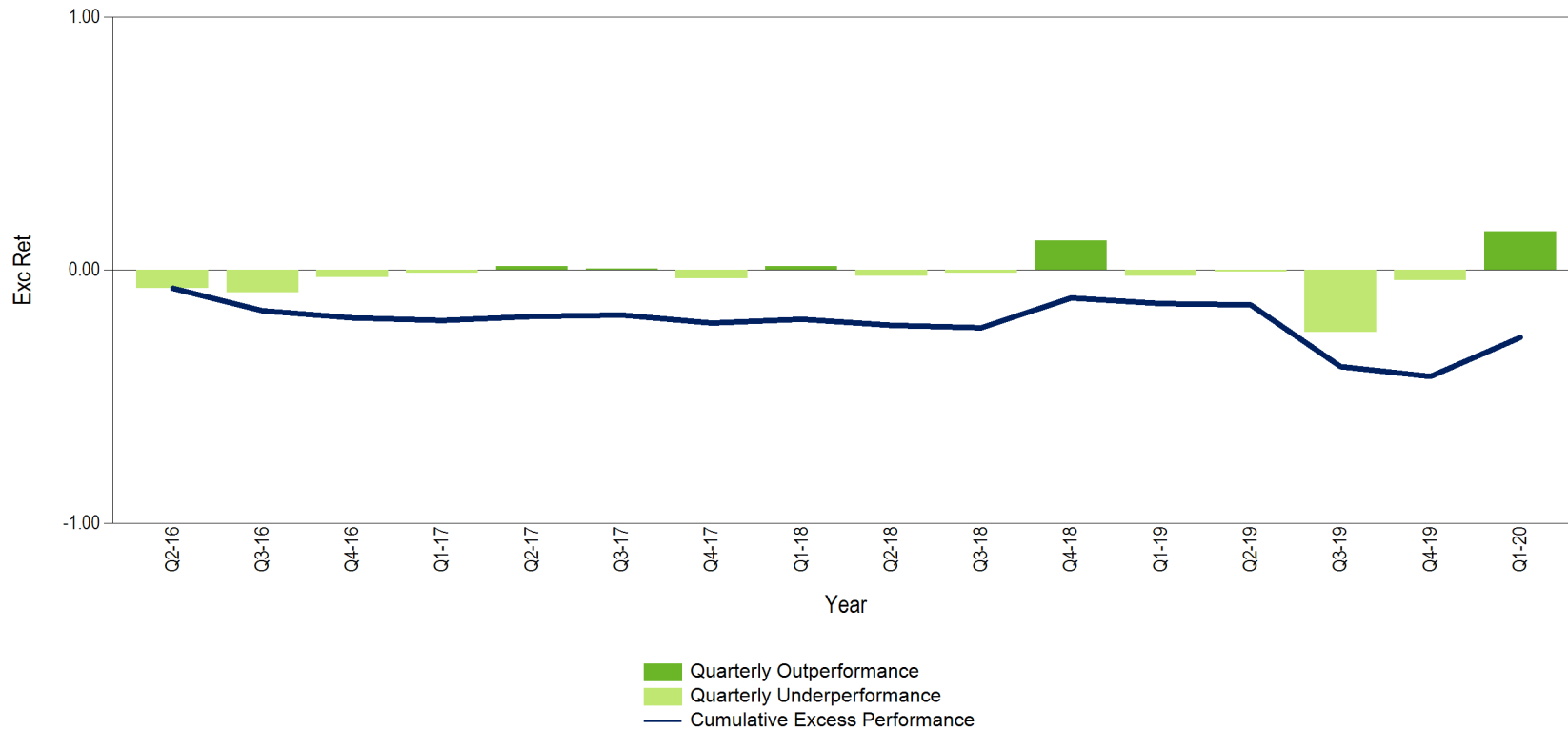


- Rhumbline Advisors Russell 2000 Growth
- ▲ Russell 2000 Growth
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



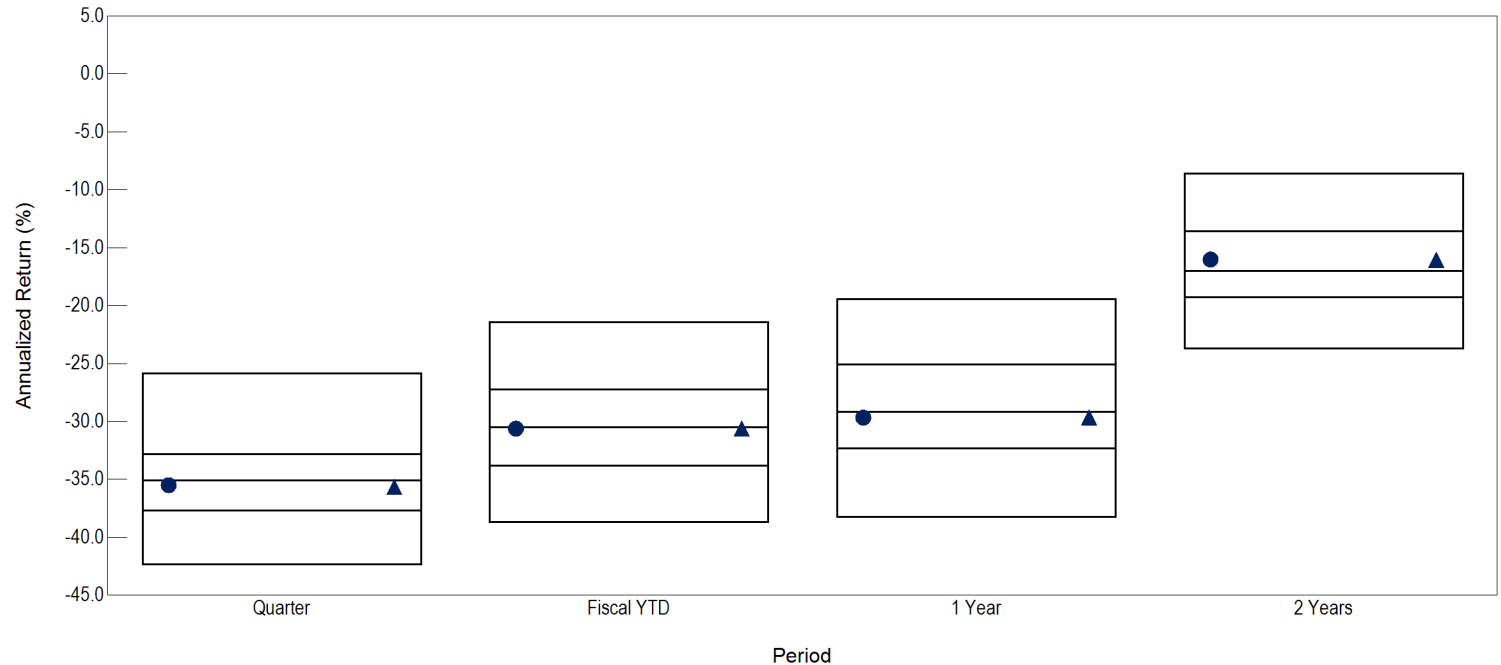
RHUMBLINE ADVISORS RUSSELL 2000 VALUE

Quarterly and Cumulative Excess Performance



RHUMBLINE ADVISORS RUSSELL 2000 VALUE

Rhumbline Advisors Russell 2000 Value vs. eV US Small Cap Value Equity Net



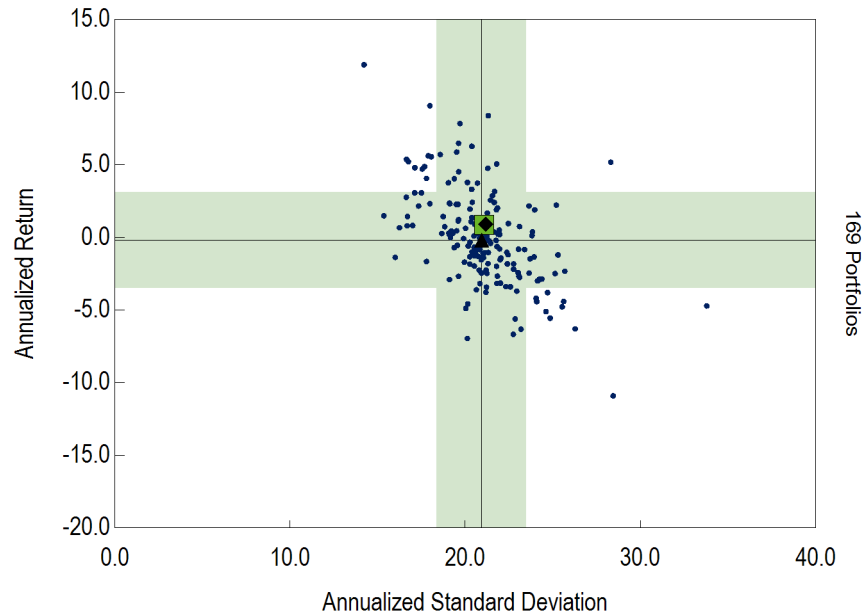
	Return (Rank)			
	Quarter	Fiscal YTD	1 Year	2 Years
5th Percentile	-25.86	-21.46	-19.44	-8.59
25th Percentile	-32.78	-27.18	-25.00	-13.50
Median	-35.06	-30.45	-29.10	-16.96
75th Percentile	-37.65	-33.76	-32.25	-19.25
95th Percentile	-42.27	-38.60	-38.16	-23.65
# of Portfolios	179	178	178	175
● Rhumbline Advisors Russell 2000 Value	-35.51 (56)	-30.63 (52)	-29.68 (56)	-16.03 (42)
▲ Russell 2000 Value	-35.66 (58)	-30.60 (52)	-29.64 (55)	-16.05 (42)



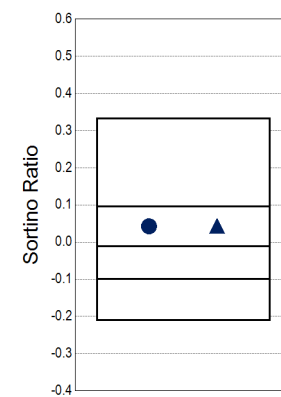
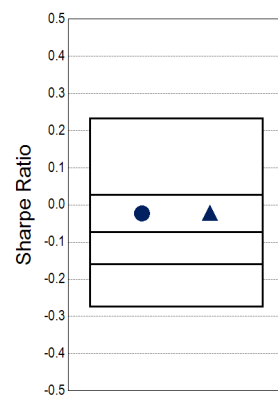
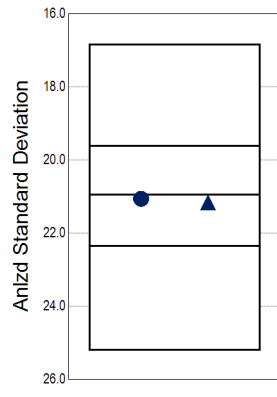
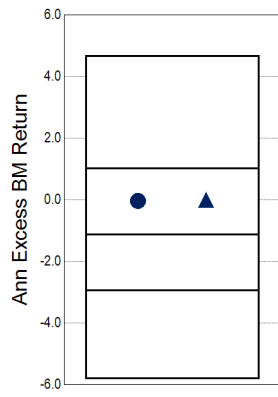
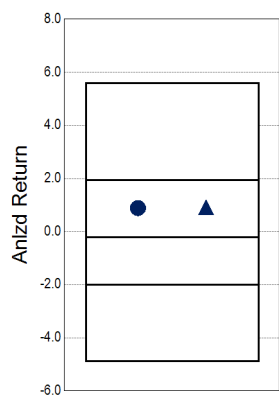
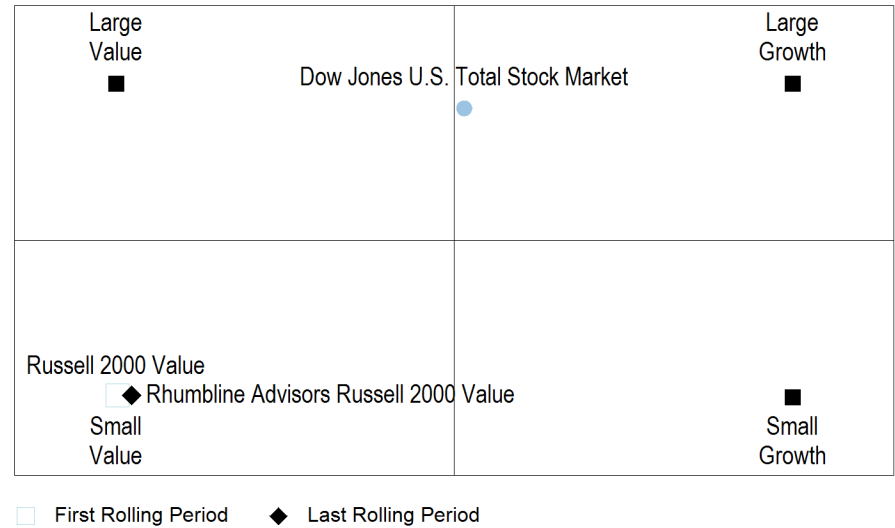
Los Angeles City Employees' Retirement System

RHUMBLINE ADVISORS RUSSELL 2000 VALUE

Since Inception Risk Return



Since Inception Style Map



- Rhumbline Advisors Russell 2000 Value
- ▲ Russell 2000 Value
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

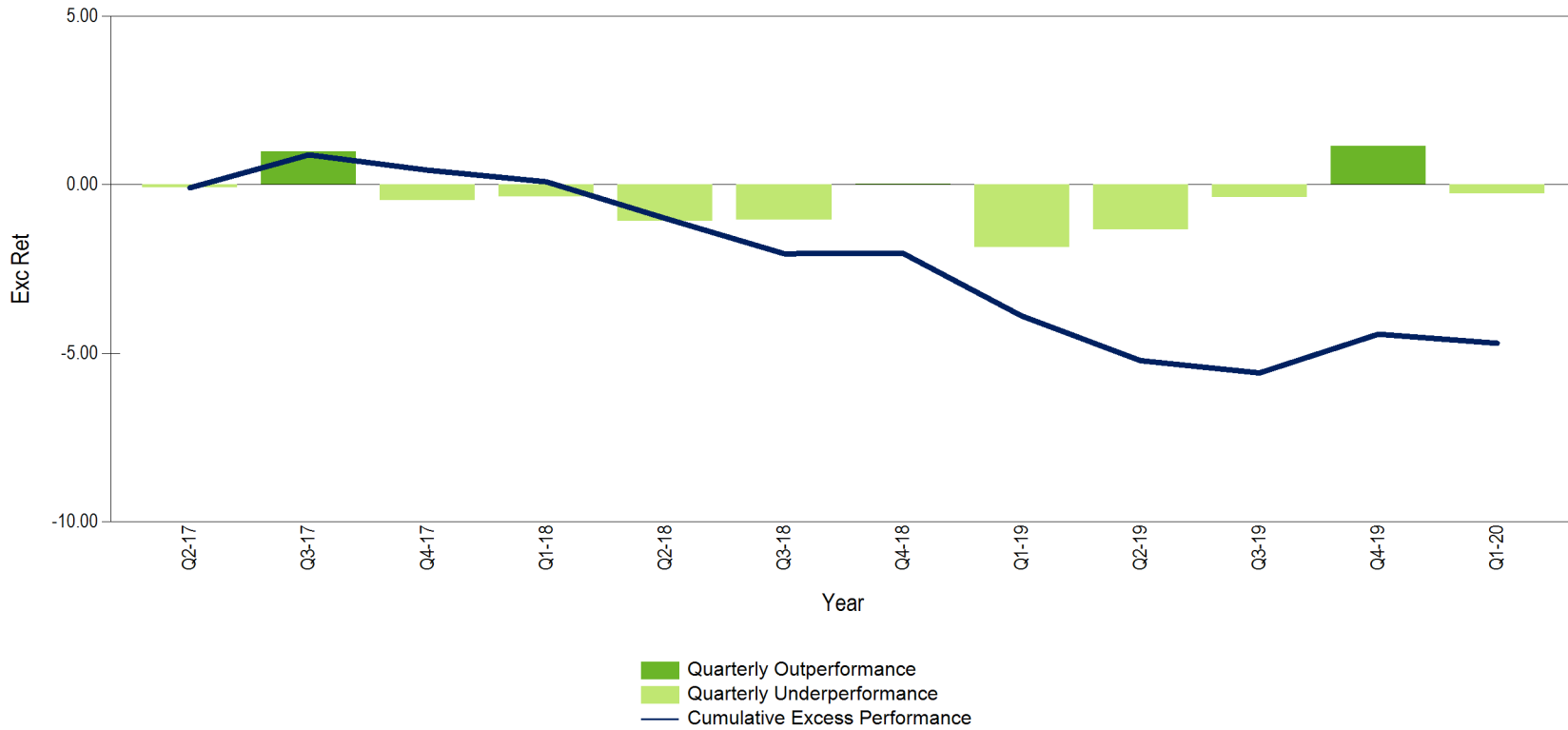


NON-U.S. EQUITY MANAGER PERFORMANCE

NEPC, LLC

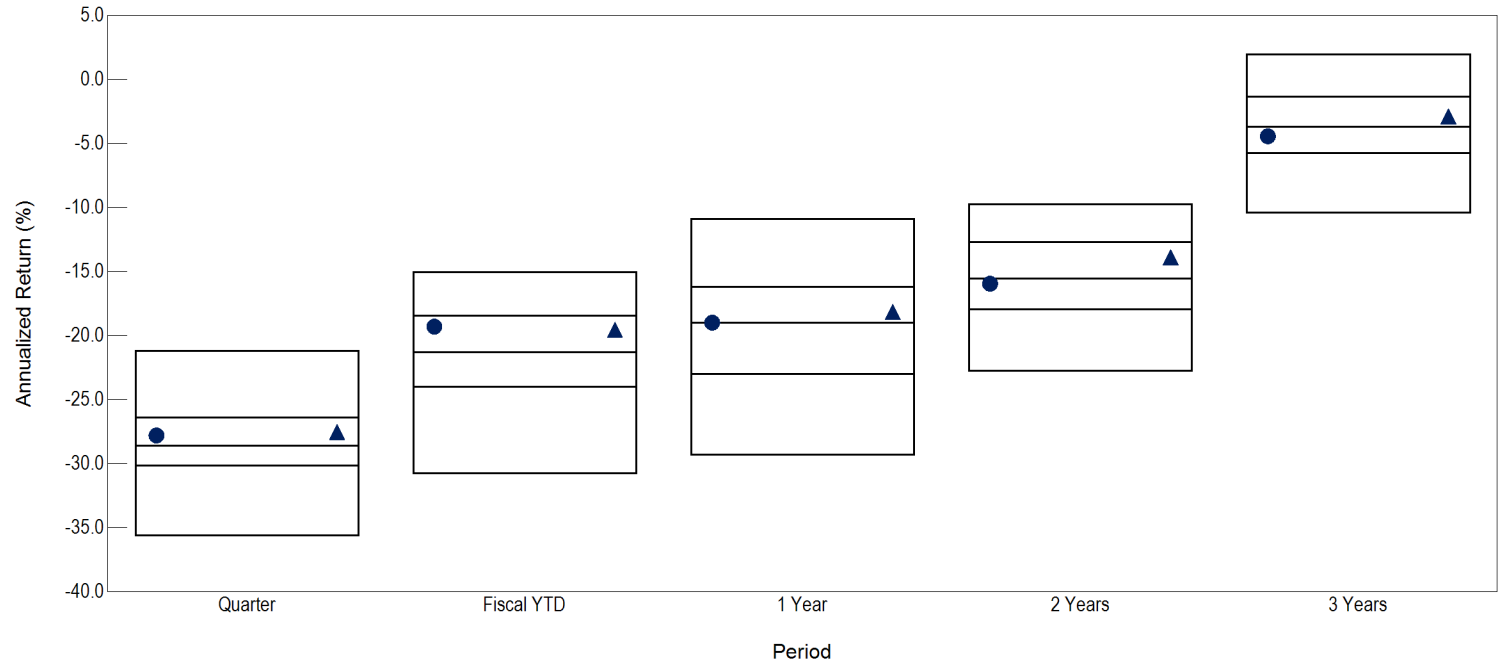
AQR CAPITAL

Quarterly and Cumulative Excess Performance



AQR CAPITAL

AQR Capital vs. eV EAFE Small Cap Equity Net



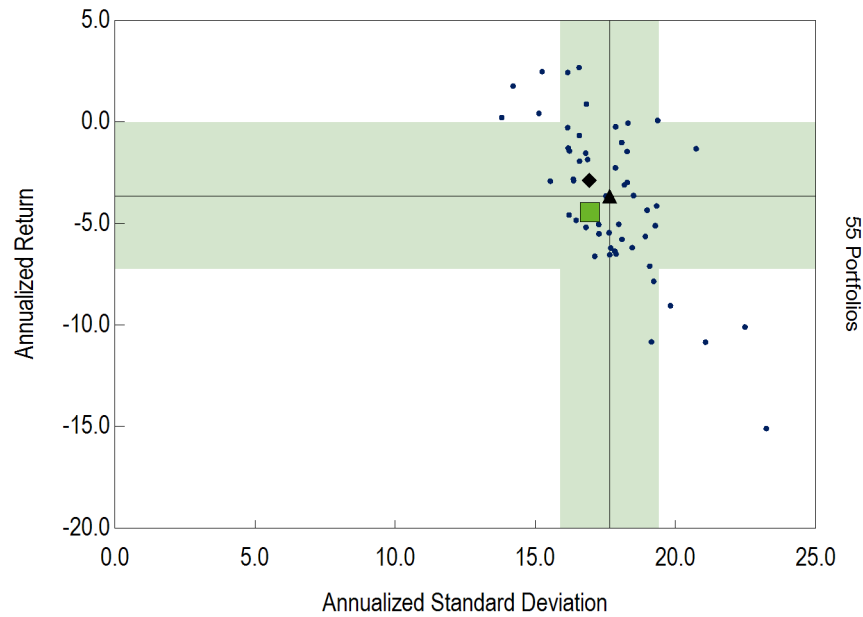
	Return (Rank)									
5th Percentile	-21.19		-15.02		-10.91		-9.76		1.97	
25th Percentile	-26.34		-18.41		-16.14		-12.64		-1.30	
Median	-28.52		-21.23		-18.94		-15.50		-3.64	
75th Percentile	-30.07		-23.94		-22.92		-17.89		-5.71	
95th Percentile	-35.53		-30.68		-29.26		-22.68		-10.32	
# of Portfolios	61		60		60		57		55	
● AQR Capital	-27.79	(42)	-19.29	(32)	-18.98	(51)	-15.94	(53)	-4.43	(57)
▲ MSCI EAFE Small Cap	-27.52	(38)	-19.52	(40)	-18.15	(47)	-13.87	(29)	-2.88	(41)



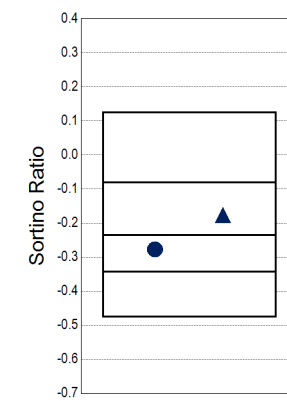
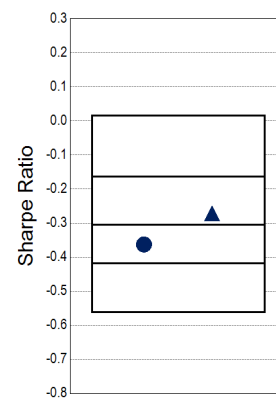
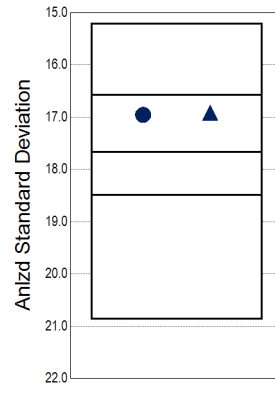
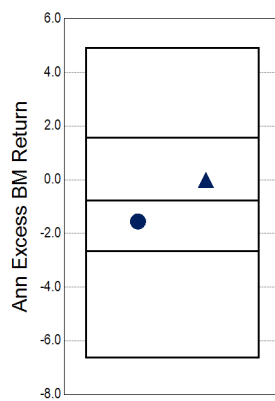
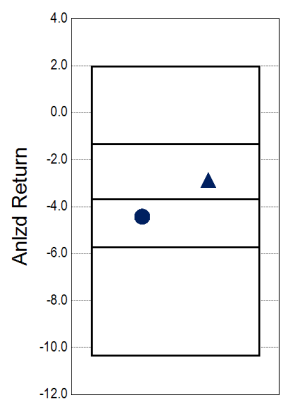
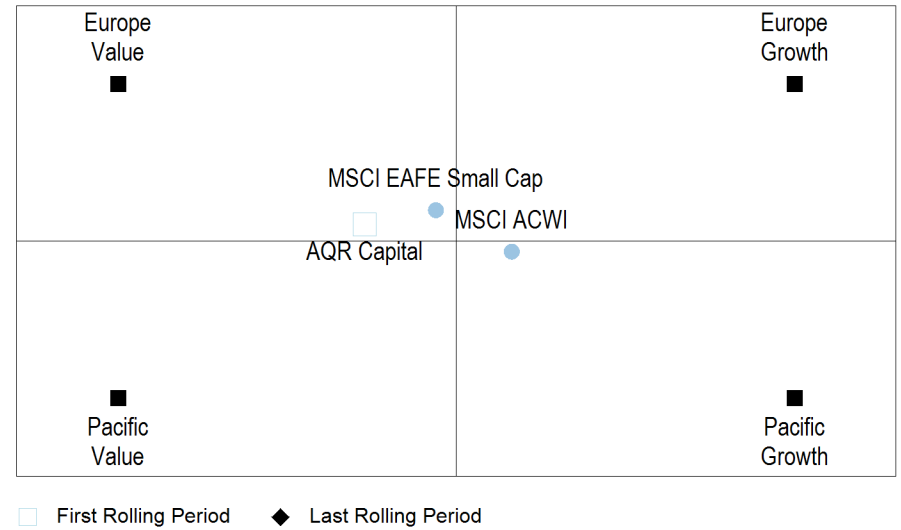
Los Angeles City Employees' Retirement System

AQR CAPITAL

3 Year Risk Return



3 Year Style Map

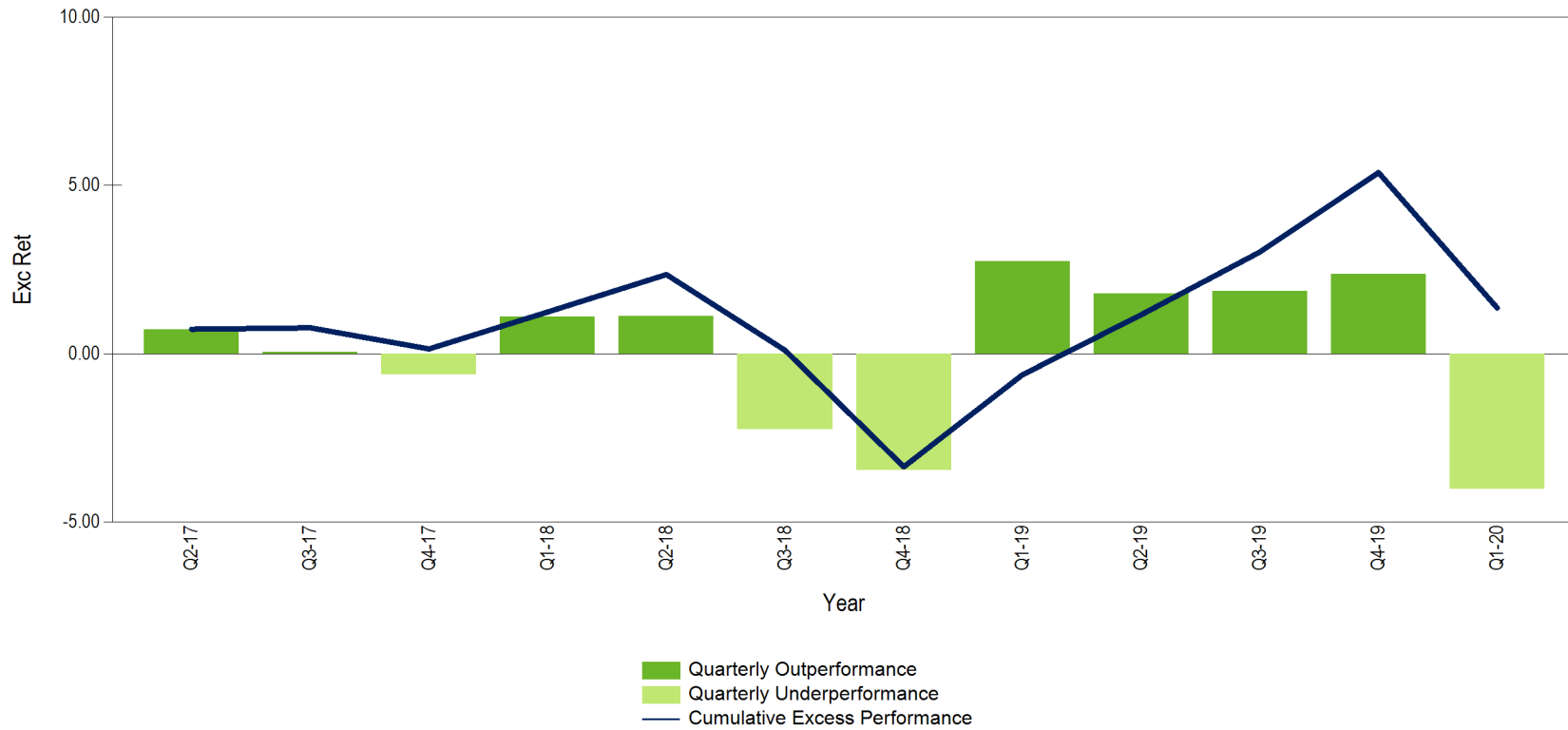


- AQR Capital
- ▲ MSCI EAFE Small Cap
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



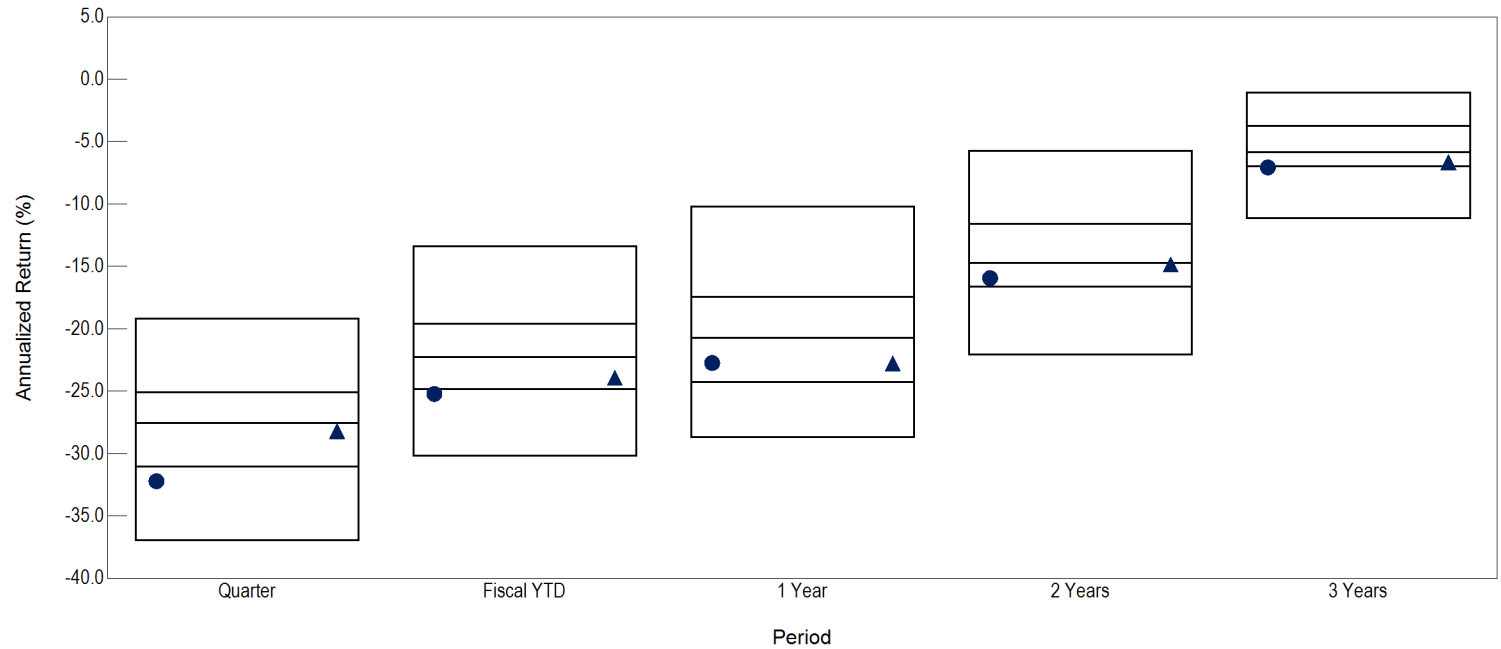
BARROW HANLEY

Quarterly and Cumulative Excess Performance



BARROW HANLEY

Barrow Hanley vs. eV EAFE Value Equity Net



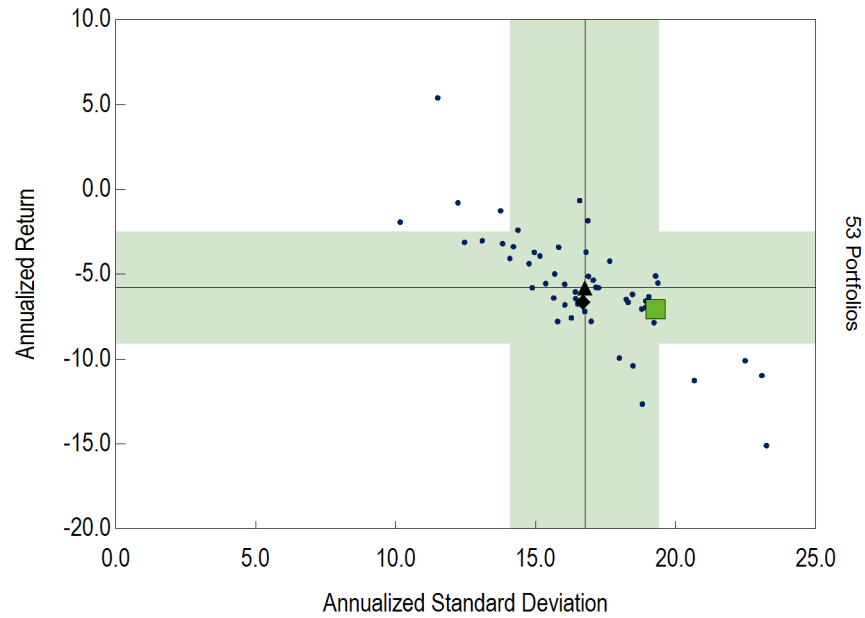
	Return (Rank)									
5th Percentile	-19.20		-13.41		-10.20		-5.73		-1.07	
25th Percentile	-25.05		-19.53		-17.41		-11.56		-3.72	
Median	-27.51		-22.20		-20.67		-14.66		-5.80	
75th Percentile	-31.00		-24.78		-24.21		-16.58		-6.95	
95th Percentile	-36.92		-30.14		-28.65		-21.99		-11.09	
# of Portfolios	58		58		58		55		53	
● Barrow Hanley	-32.22	(85)	-25.23	(80)	-22.74	(67)	-15.95	(73)	-7.07	(78)
▲ MSCI EAFE Value	-28.20	(58)	-23.93	(65)	-22.76	(67)	-14.85	(53)	-6.65	(69)



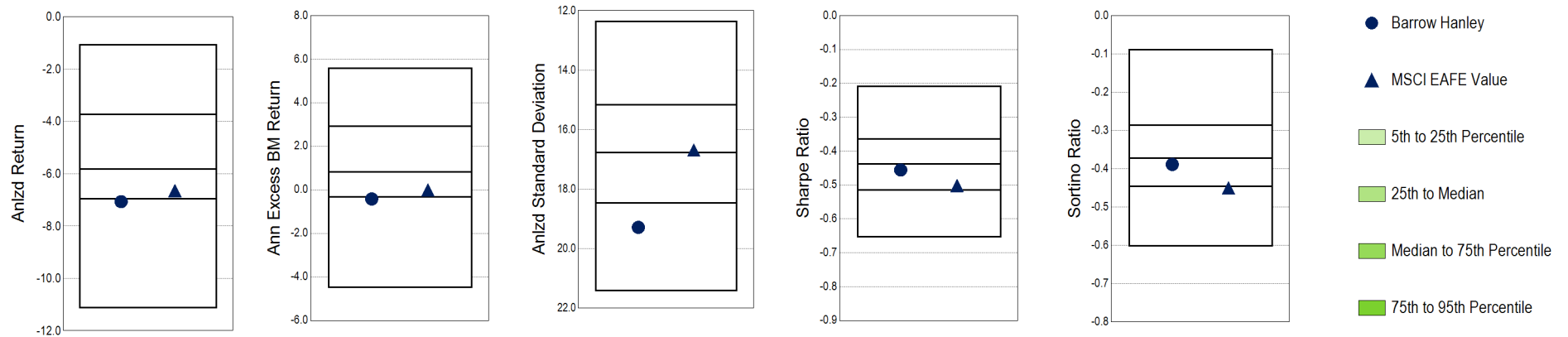
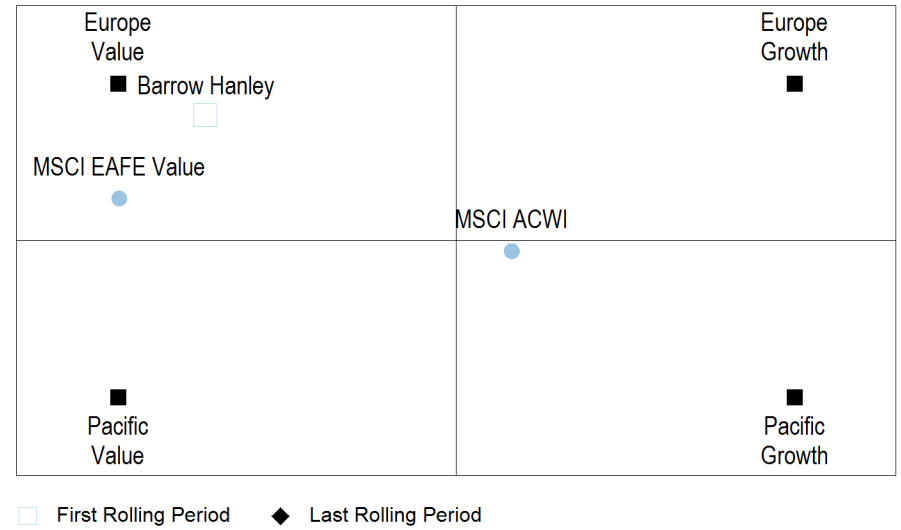
Los Angeles City Employees' Retirement System

BARROW HANLEY

3 Year Risk Return

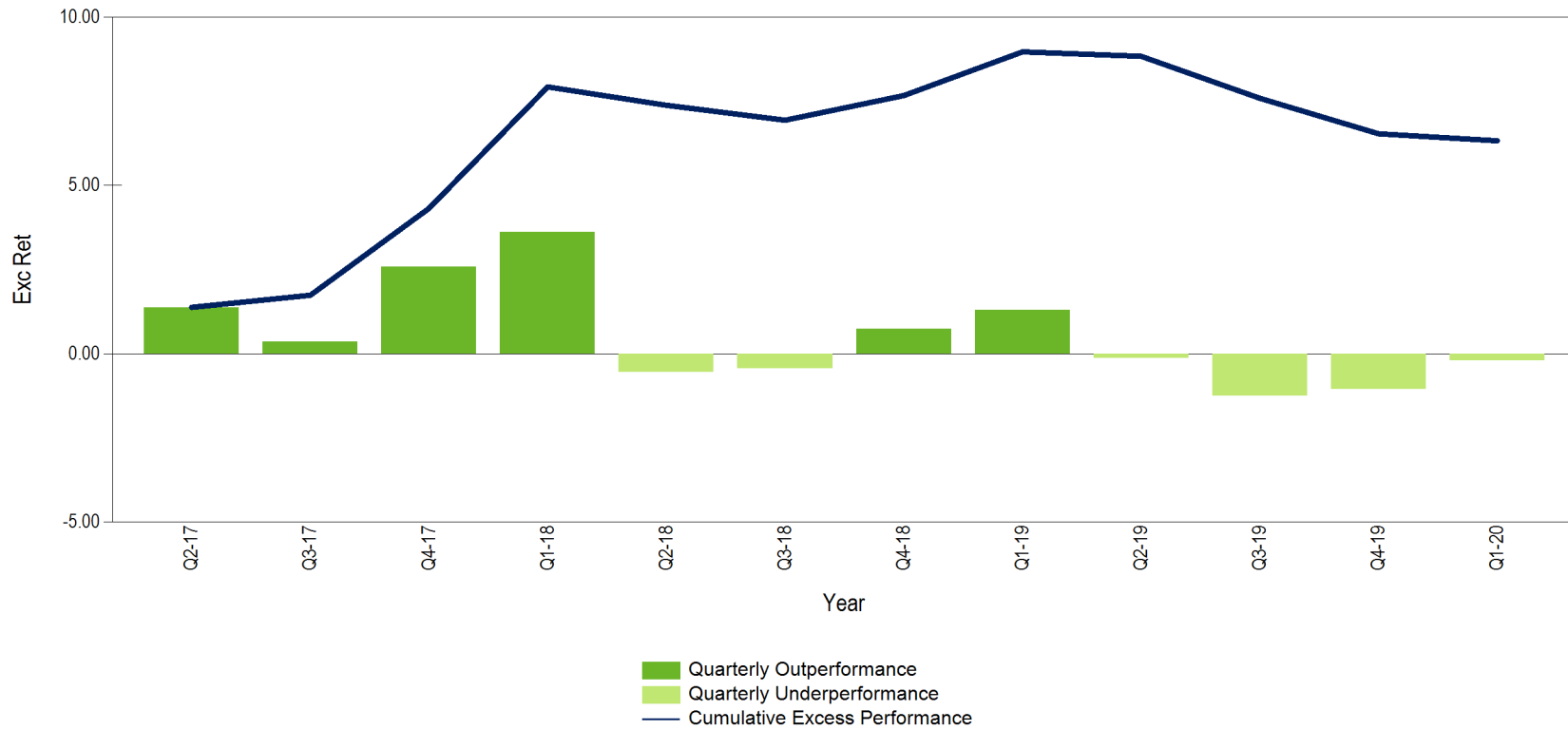


3 Year Style Map



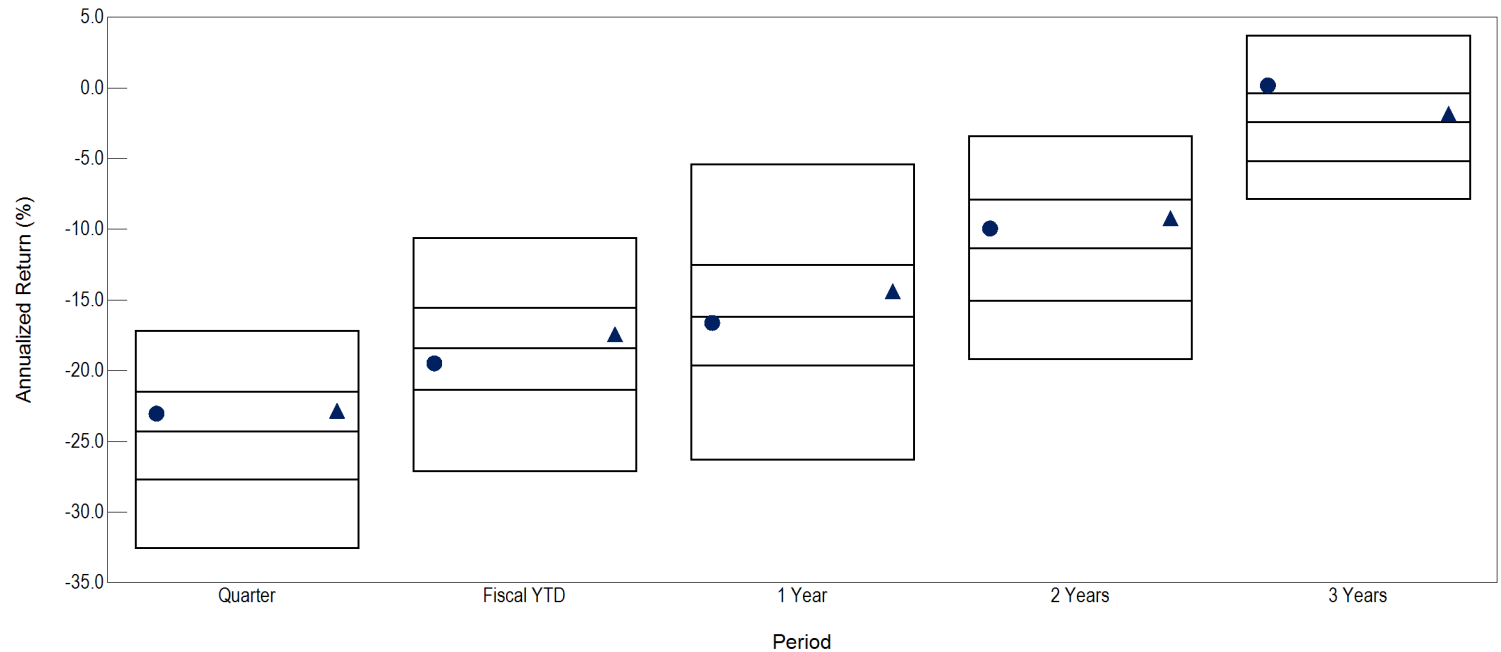
LAZARD ASSET MANAGEMENT

Quarterly and Cumulative Excess Performance



LAZARD ASSET MANAGEMENT

Lazard Asset Management vs. eV All EAFE Equity Net



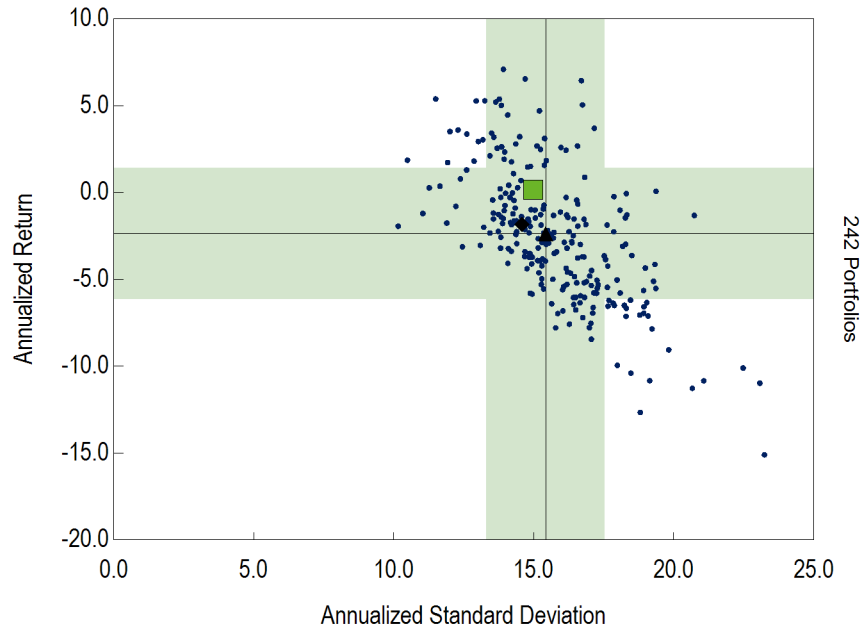
	Return (Rank)									
5th Percentile	-17.16		-10.63		-5.42		-3.41		3.70	
25th Percentile	-21.45		-15.50		-12.47		-7.86		-0.32	
Median	-24.25		-18.36		-16.14		-11.28		-2.36	
75th Percentile	-27.65		-21.31		-19.59		-14.99		-5.12	
95th Percentile	-32.50		-27.04		-26.25		-19.14		-7.79	
# of Portfolios	256		254		254		248		242	
● Lazard Asset Management	-23.04	(40)	-19.48	(59)	-16.62	(53)	-9.94	(40)	0.18	(22)
▲ MSCI EAFE	-22.83	(38)	-17.42	(38)	-14.38	(35)	-9.20	(34)	-1.82	(43)



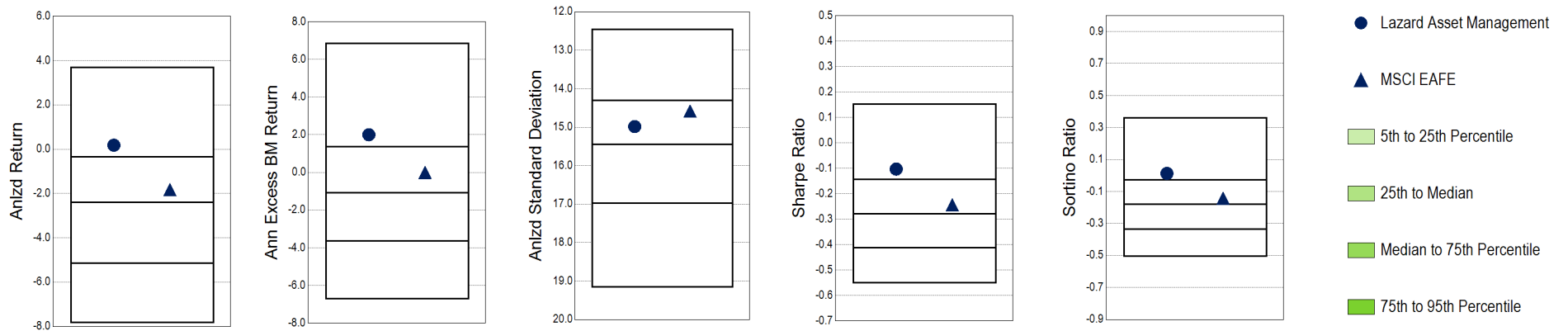
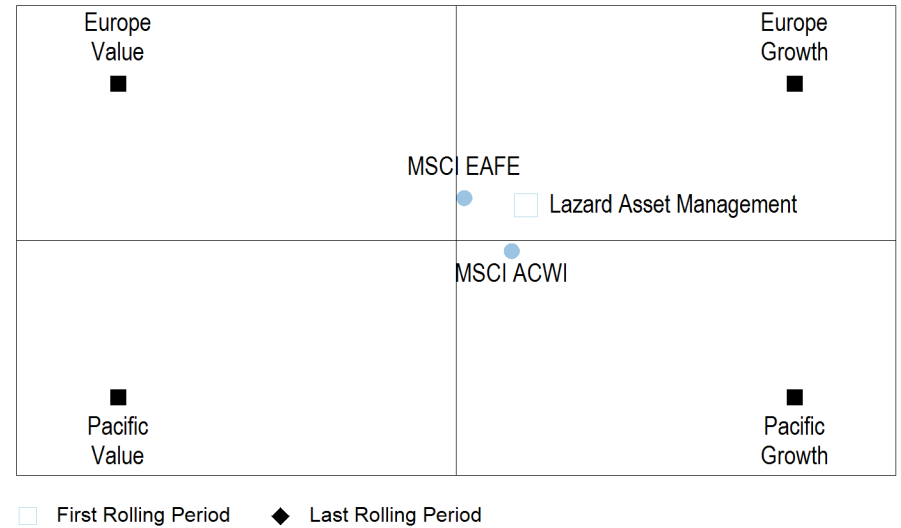
Los Angeles City Employees' Retirement System

LAZARD ASSET MANAGEMENT

3 Year Risk Return

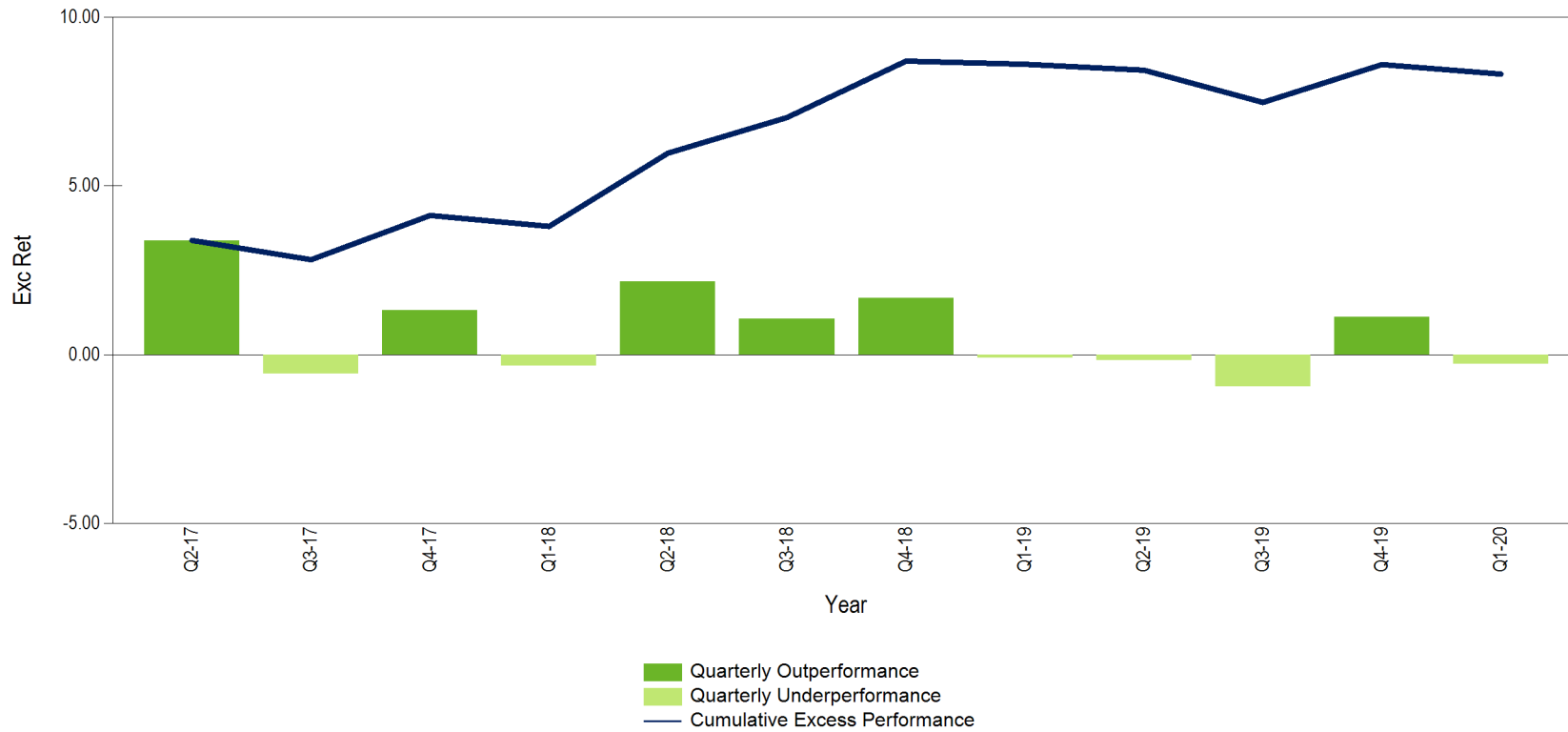


3 Year Style Map



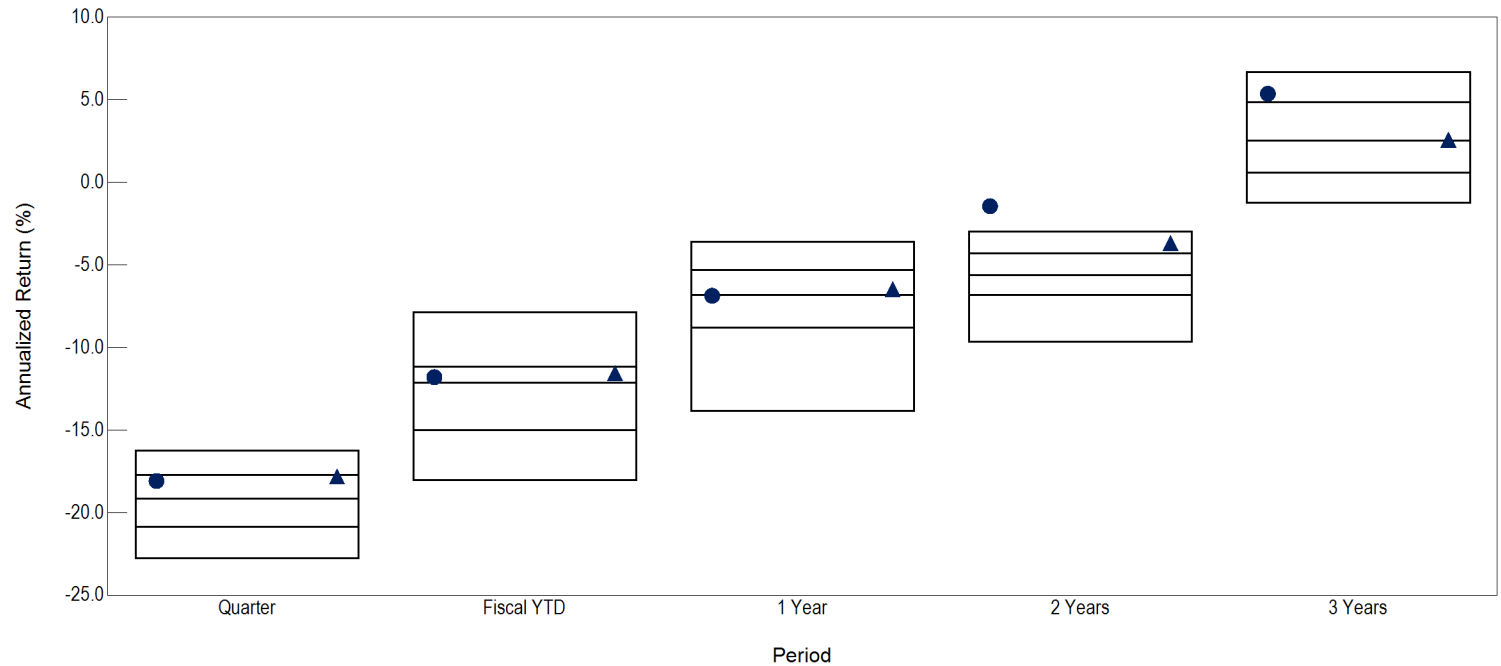
MFS INSTITUTIONAL ADVISORS

Quarterly and Cumulative Excess Performance



MFS INSTITUTIONAL ADVISORS

MFS Institutional Advisors vs. eV EAFE All Cap Growth Net



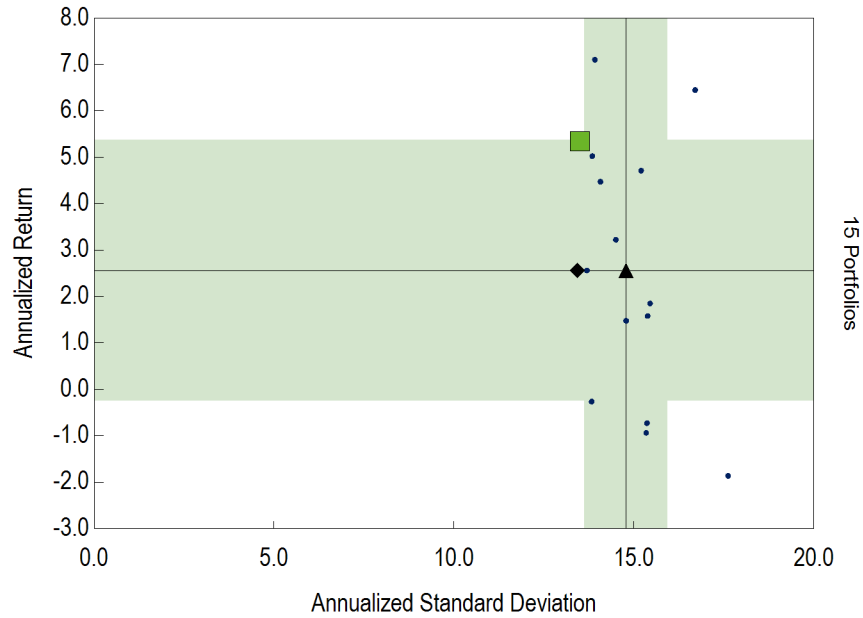
	Return (Rank)									
5th Percentile	-16.24		-7.89		-3.62		-2.98		6.64	
25th Percentile	-17.69		-11.13		-5.30		-4.26		4.87	
Median	-19.14		-12.11		-6.79		-5.60		2.56	
75th Percentile	-20.85		-14.99		-8.79		-6.79		0.60	
95th Percentile	-22.74		-18.02		-13.83		-9.61		-1.22	
# of Portfolios	15		15		15		15		15	
● MFS Institutional Advisors	-18.10	(41)	-11.81	(40)	-6.89	(54)	-1.47	(1)	5.34	(14)
▲ MSCI World ex USA Growth NR USD	-17.81	(32)	-11.57	(37)	-6.47	(42)	-3.69	(18)	2.55	(51)



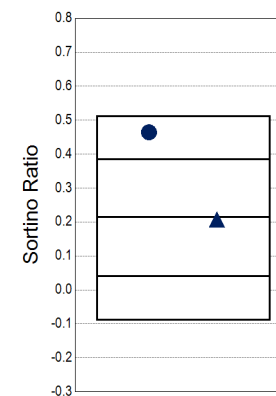
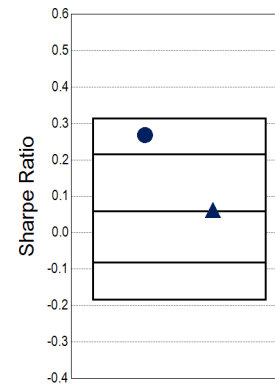
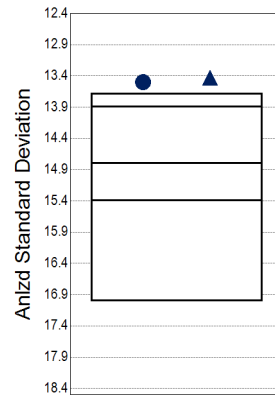
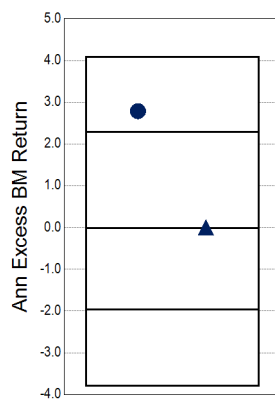
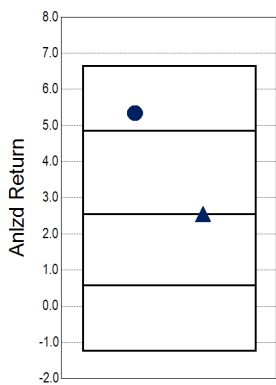
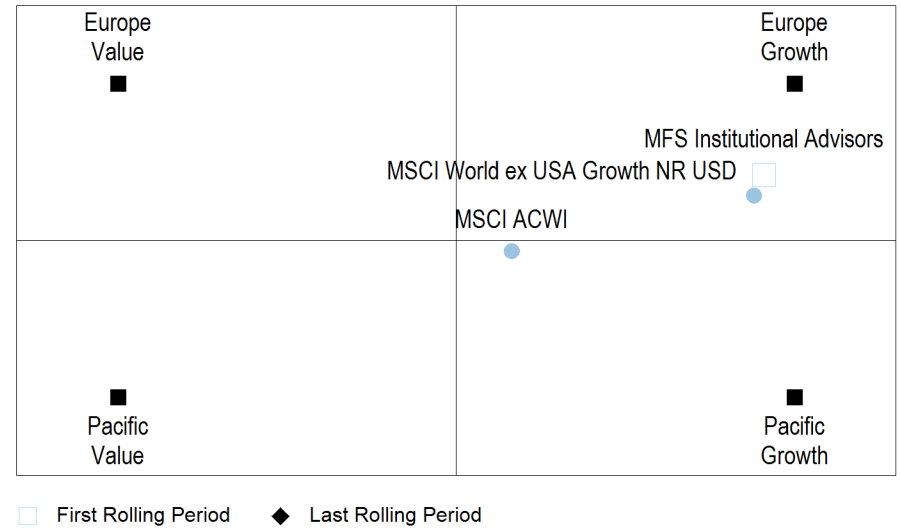
Los Angeles City Employees' Retirement System

MFS INSTITUTIONAL ADVISORS

3 Year Risk Return



3 Year Style Map



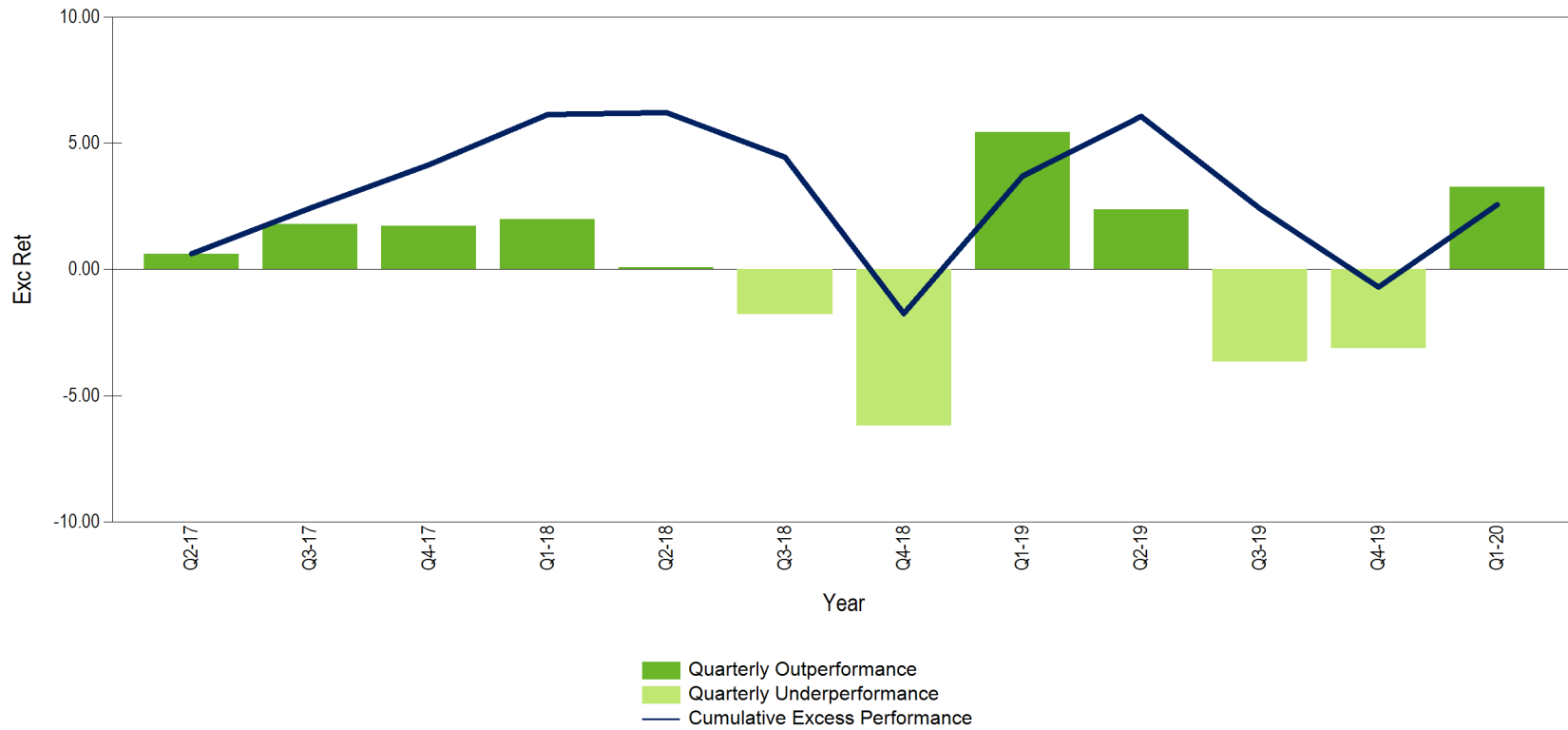
- MFS Institutional Advisors
- ▲ MSCI World ex USA Growth NR USD
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

OBERWEIS ASSET MGMT

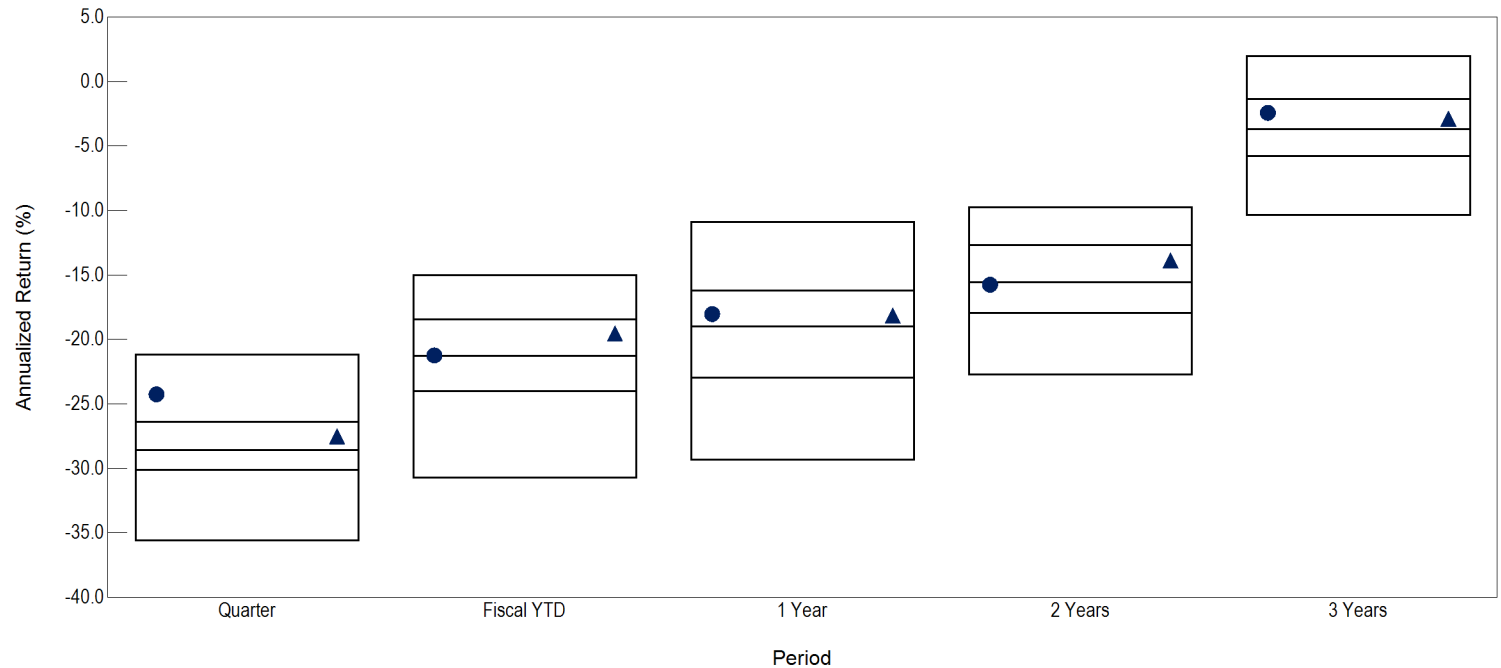
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

OBERWEIS ASSET MGMT

Oberweis Asset Mgmt vs. eV EAFE Small Cap Equity Net

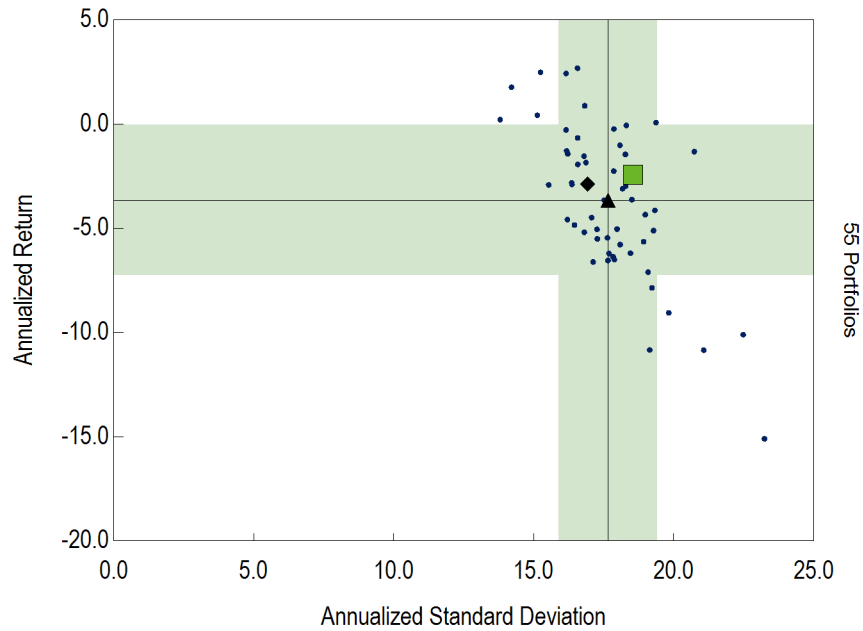


	Return (Rank)									
5th Percentile	-21.19		-15.02		-10.91		-9.76		1.97	
25th Percentile	-26.34		-18.41		-16.14		-12.64		-1.30	
Median	-28.52		-21.23		-18.94		-15.50		-3.64	
75th Percentile	-30.07		-23.94		-22.92		-17.89		-5.71	
95th Percentile	-35.53		-30.68		-29.26		-22.68		-10.32	
# of Portfolios	61		60		60		57		55	
● Oberweis Asset Mgmt	-24.26	(12)	-21.24	(51)	-18.03	(46)	-15.76	(52)	-2.43	(38)
▲ MSCI EAFE Small Cap	-27.52	(38)	-19.52	(40)	-18.15	(47)	-13.87	(29)	-2.88	(41)

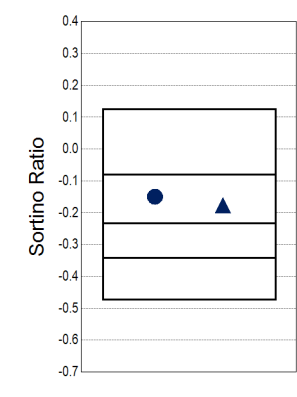
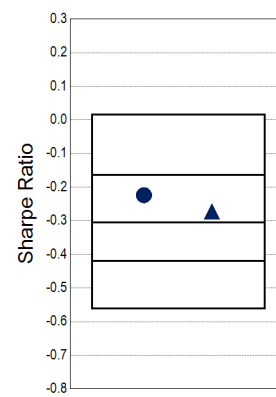
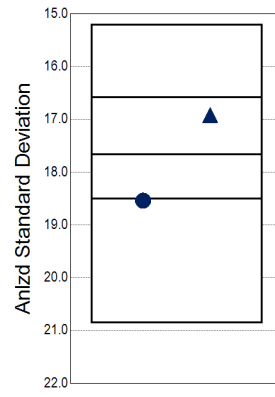
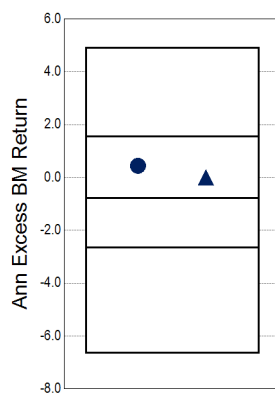
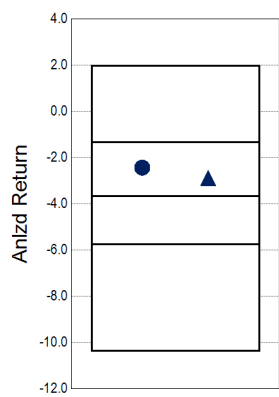
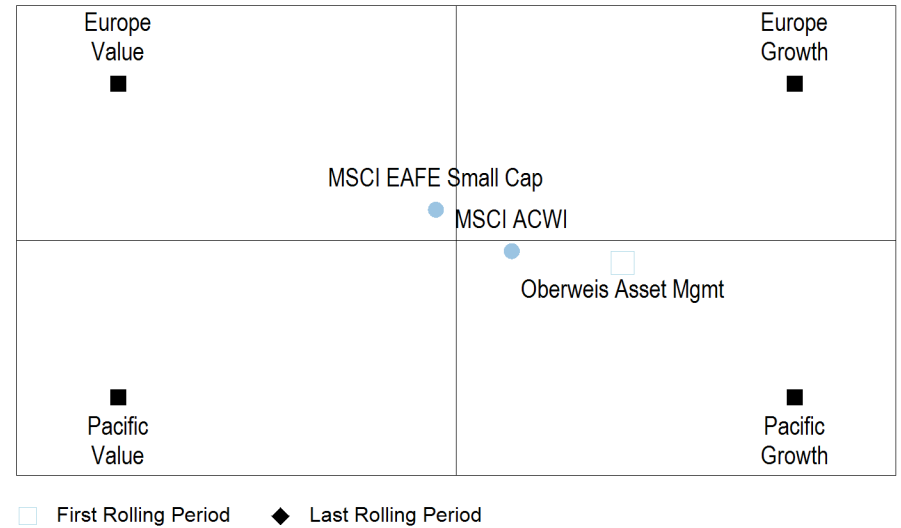


Los Angeles City Employees' Retirement System OBERWEIS ASSET MGMT

3 Year Risk Return



3 Year Style Map



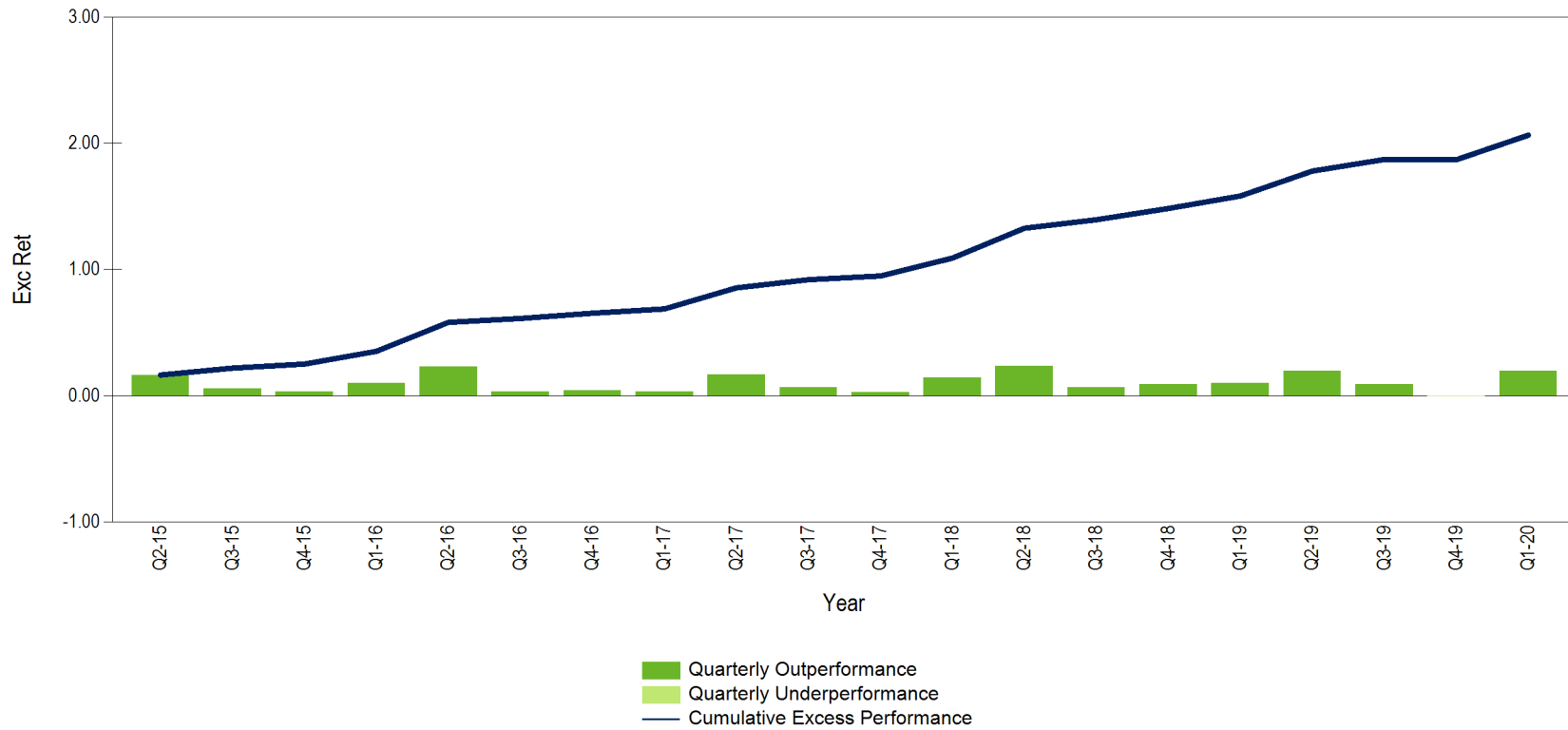
- Oberweis Asset Mgmt
- ▲ MSCI EAFE Small Cap
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

SSGA WORLD EX US IMI

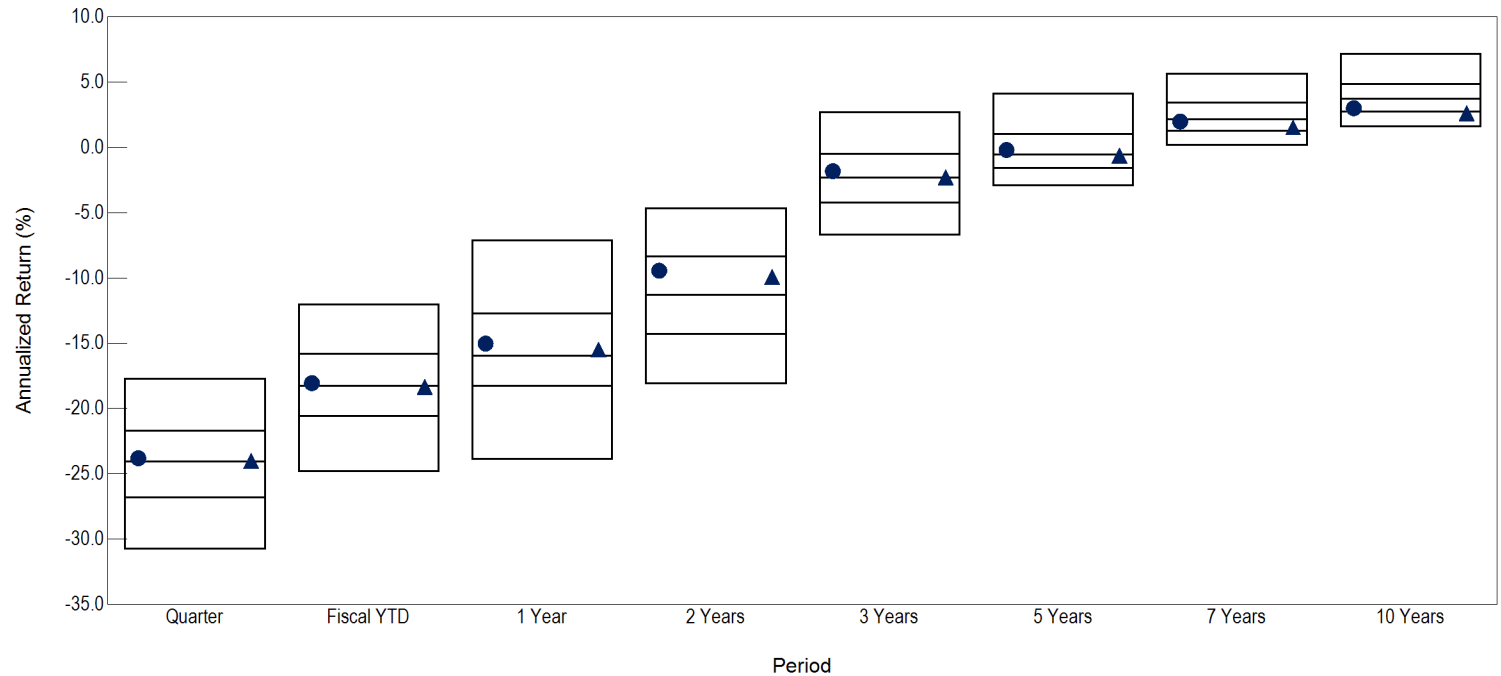
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

SSGA WORLD EX US IMI

SSgA World ex US IMI vs. eV EAFE Core Equity Net



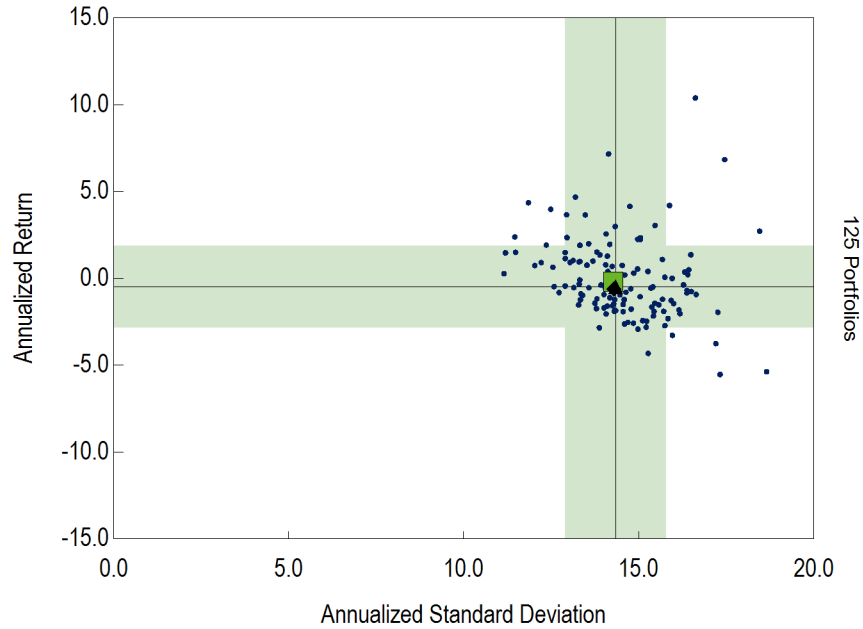
	Return (Rank)															
5th Percentile	-17.72	(49)	-12.05	(46)	-7.12	(41)	-4.67	(35)	2.68	(45)	4.12	(46)	5.62	(62)	7.18	(71)
25th Percentile	-21.66	(51)	-15.77	(53)	-12.66	(47)	-8.31	(39)	-0.43	(53)	1.09	(56)	3.46	(71)	4.90	(79)
Median	-23.99		-18.20		-15.89		-11.25		-2.25		-0.47		2.19		3.80	
75th Percentile	-26.75		-20.53		-18.22		-14.22		-4.16		-1.53		1.32		2.79	
95th Percentile	-30.70		-24.77		-23.80		-18.03		-6.61		-2.83		0.24		1.67	
# of Portfolios	149		147		147		145		143		125		105		87	
● SSGA World ex US IMI	-23.81	(49)	-18.06	(46)	-15.03	(41)	-9.44	(35)	-1.82	(45)	-0.20	(46)	1.98	(62)	3.00	(71)
▲ MSCI World ex USA IMI NR USD	-24.00	(51)	-18.34	(53)	-15.48	(47)	-9.91	(39)	-2.29	(53)	-0.62	(56)	1.55	(71)	2.61	(79)



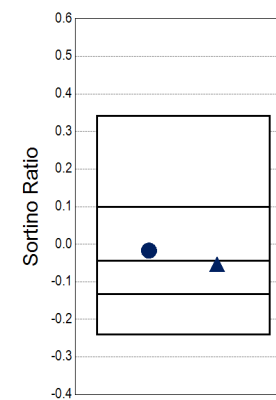
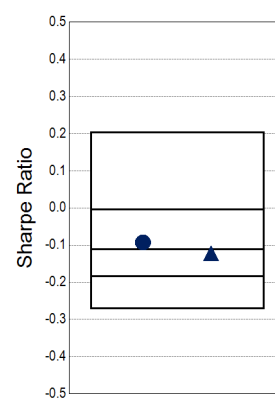
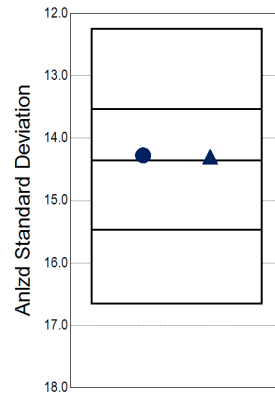
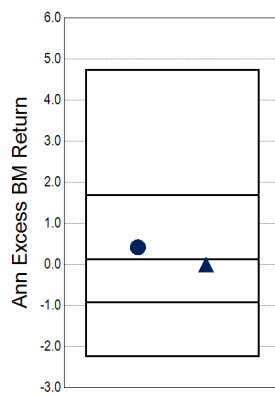
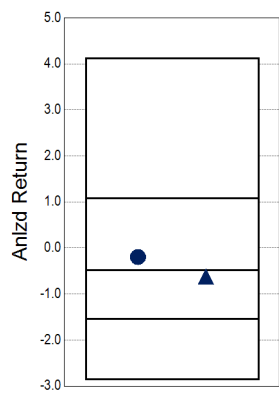
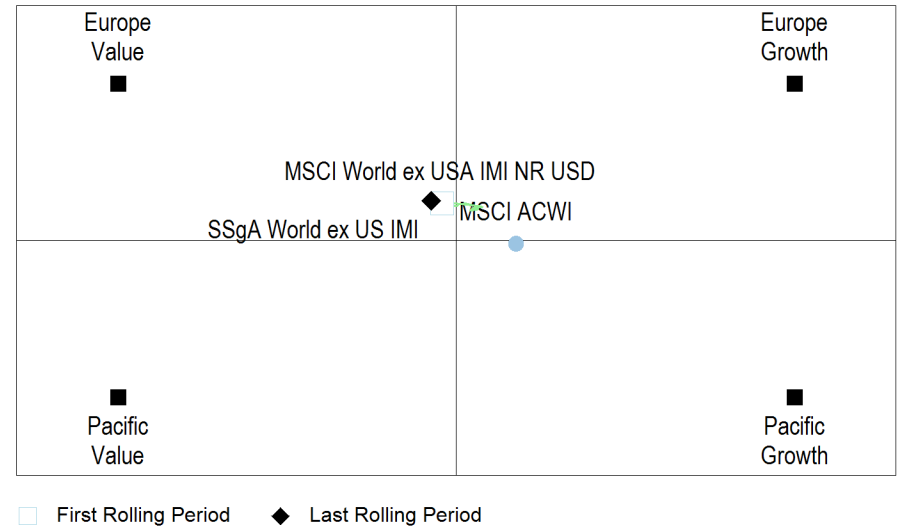
Los Angeles City Employees' Retirement System

SSGA WORLD EX US IMI

5 Year Risk Return



5 Year Style Map



- SSGA World ex US IMI
- ▲ MSCI World ex USA IMI NR USD
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



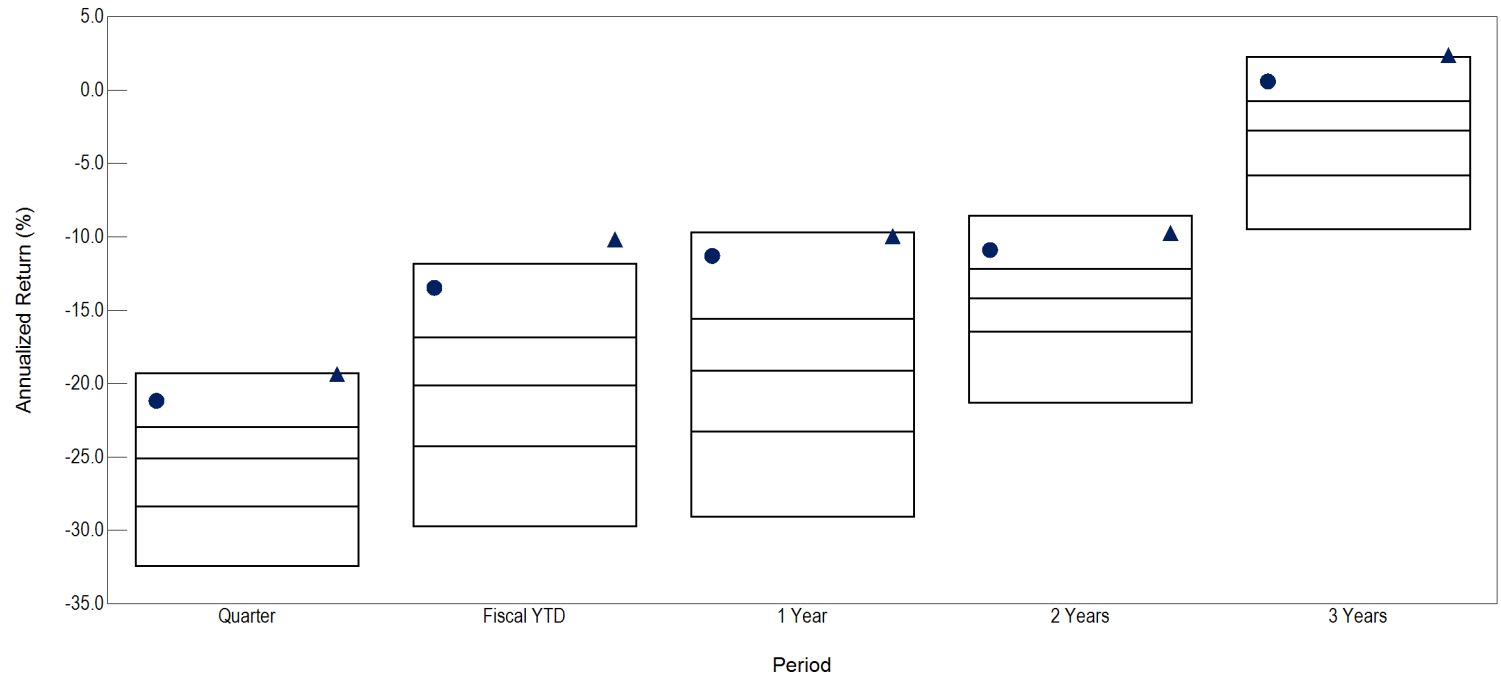
AXIOM EMERGING MARKETS

Quarterly and Cumulative Excess Performance



AXIOM EMERGING MARKETS

Axiom Emerging Markets vs. eV Emg Mkts Equity Net



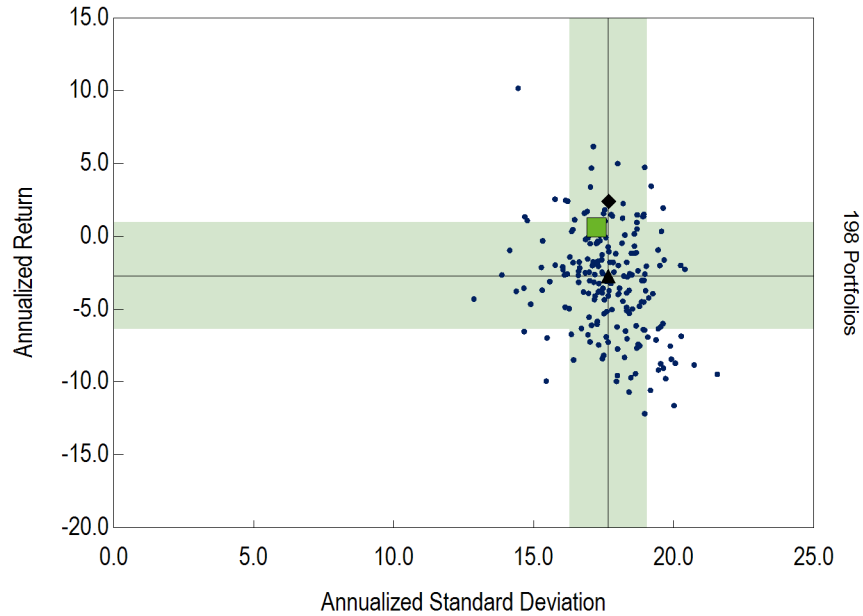
	Return (Rank)									
5th Percentile	-19.31		-11.83		-9.69		-8.55		2.27	
25th Percentile	-22.92		-16.80		-15.55		-12.13		-0.69	
Median	-25.05		-20.07		-19.10		-14.14		-2.71	
75th Percentile	-28.34		-24.21		-23.21		-16.43		-5.77	
95th Percentile	-32.37		-29.69		-29.04		-21.25		-9.44	
# of Portfolios	224		223		222		209		198	
● Axiom Emerging Markets	-21.17	(12)	-13.47	(9)	-11.29	(8)	-10.89	(18)	0.59	(16)
▲ MSCI Emerging Markets Growth NR USD	-19.34	(6)	-10.17	(2)	-9.94	(6)	-9.73	(10)	2.39	(5)



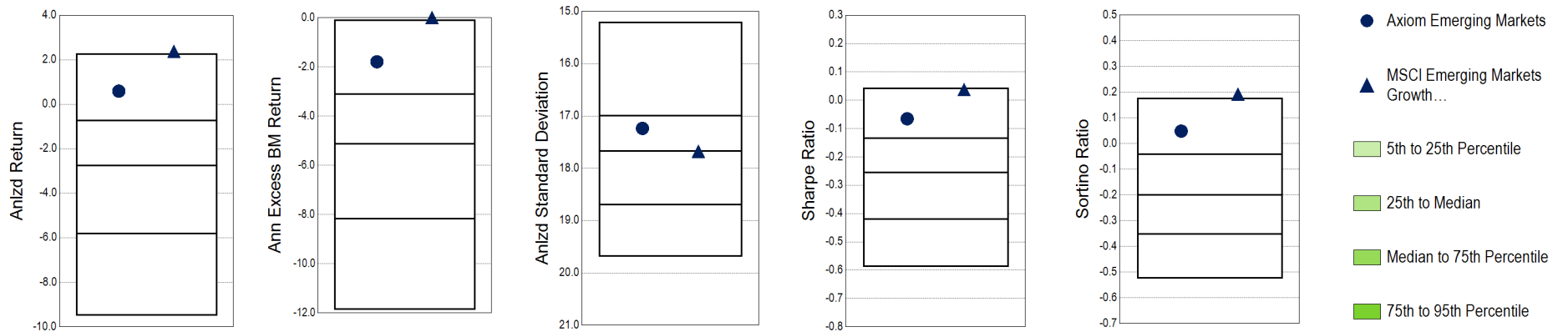
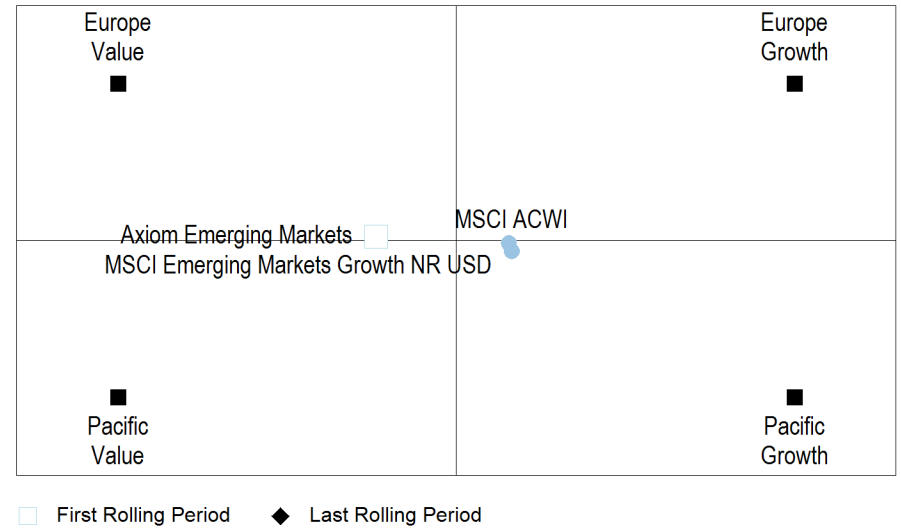
Los Angeles City Employees' Retirement System

AXIOM EMERGING MARKETS

3 Year Risk Return



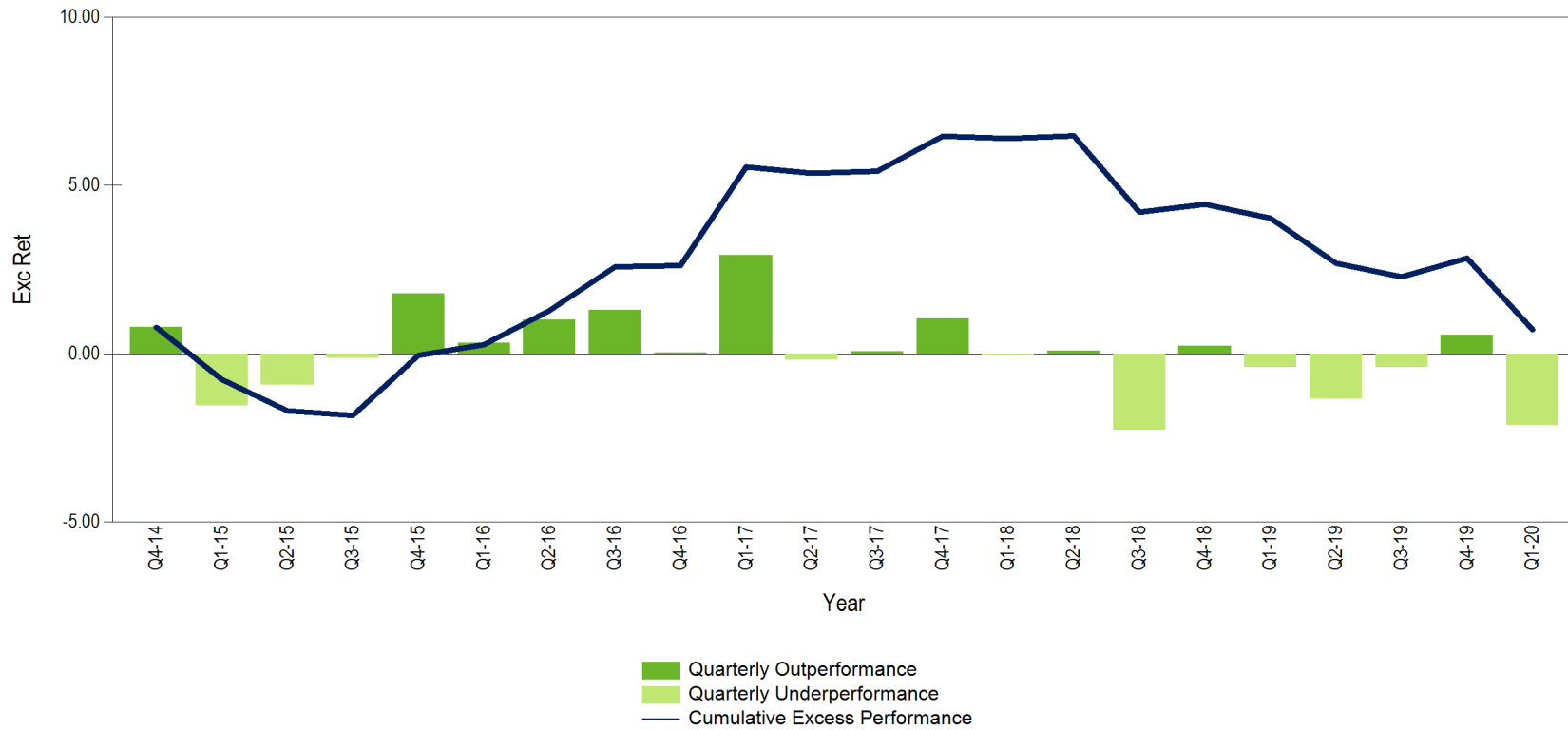
3 Year Style Map



Los Angeles City Employees' Retirement System

DFA EMERGING MARKETS

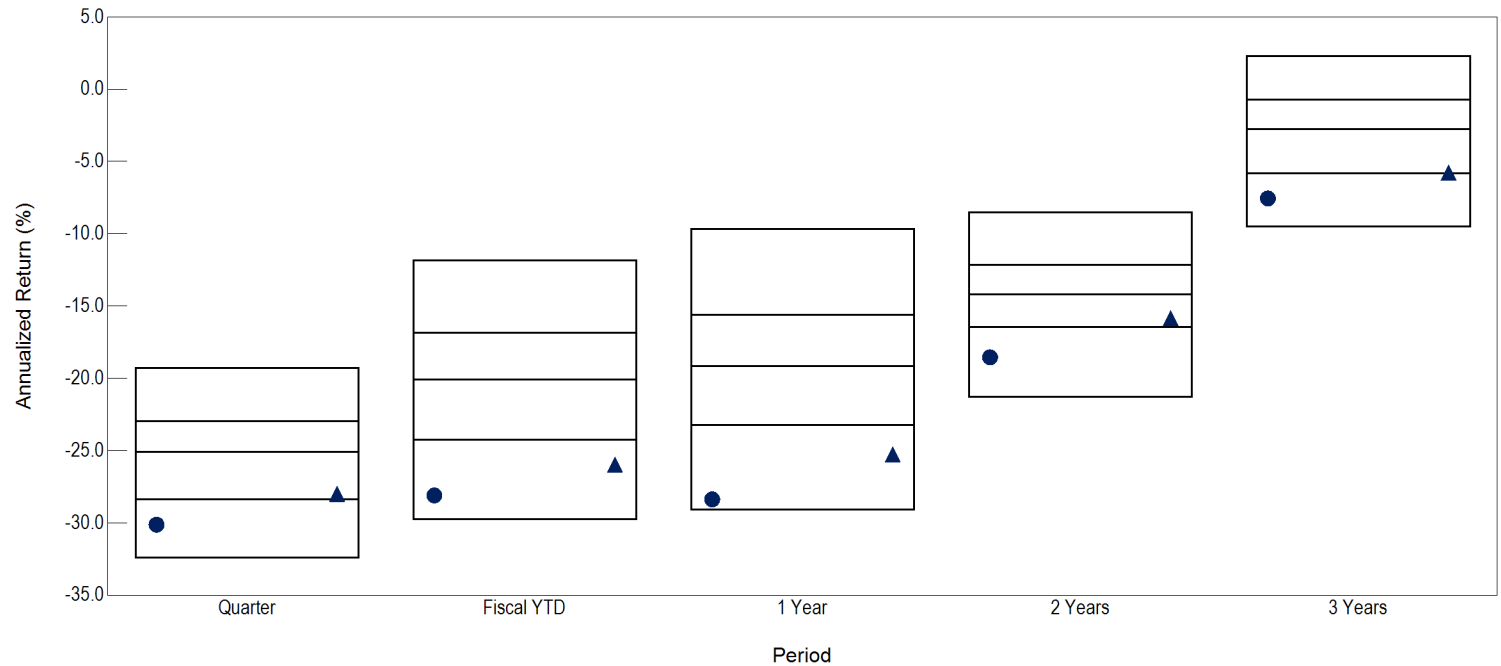
Quarterly and Cumulative Excess Performance



Los Angeles City Employees' Retirement System

DFA EMERGING MARKETS

DFA Emerging Markets vs. eV Emg Mkts Equity Net



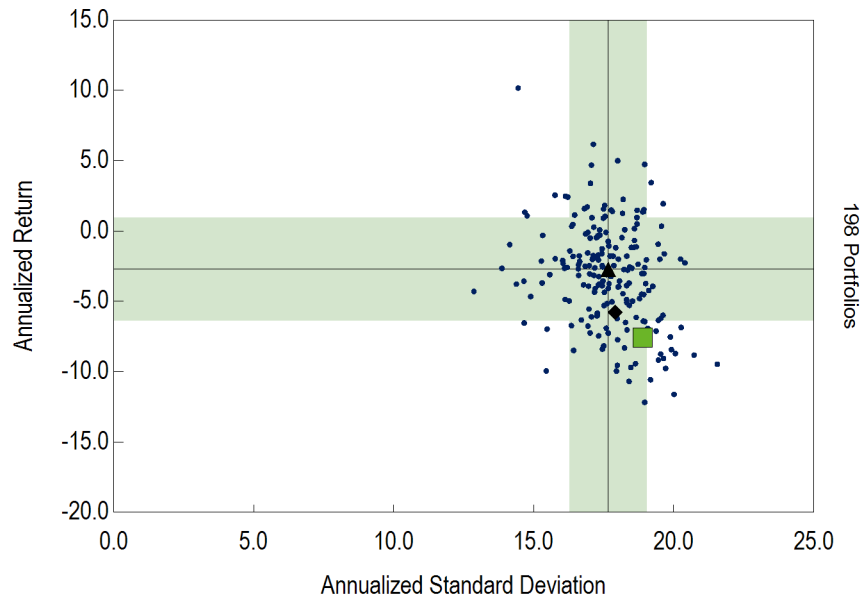
	Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)	
5th Percentile	-19.31	(85)	-11.83	(90)	-9.69	(92)	-8.55	(89)	2.27	(89)
25th Percentile	-22.92	(74)	-16.80	(83)	-15.55	(82)	-12.13	(71)	-0.69	(76)
Median	-25.05		-20.07		-19.10		-14.14		-2.71	
75th Percentile	-28.34		-24.21		-23.21		-16.43		-5.77	
95th Percentile	-32.37		-29.69		-29.04		-21.25		-9.44	
# of Portfolios	224		223		222		209		198	
● DFA Emerging Markets	-30.13	(85)	-28.11	(90)	-28.38	(92)	-18.55	(89)	-7.56	(89)
▲ MSCI Emerging Markets Value NR USD	-28.00	(74)	-25.97	(83)	-25.26	(82)	-15.85	(71)	-5.78	(76)



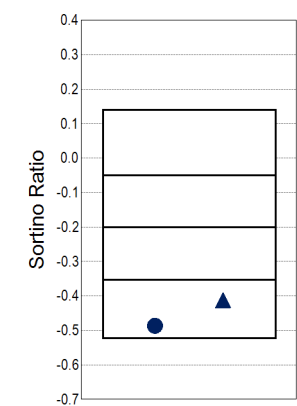
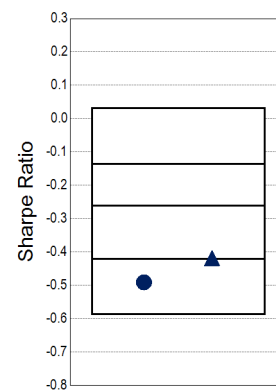
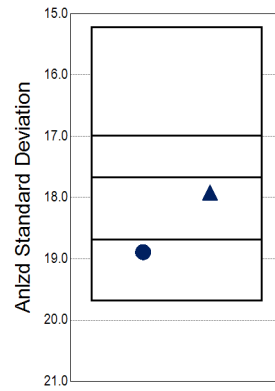
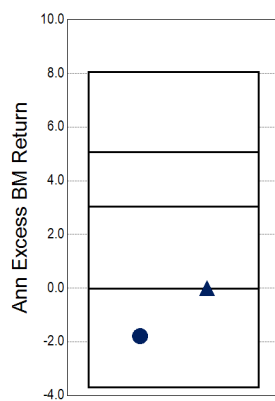
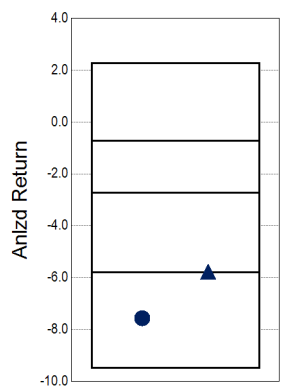
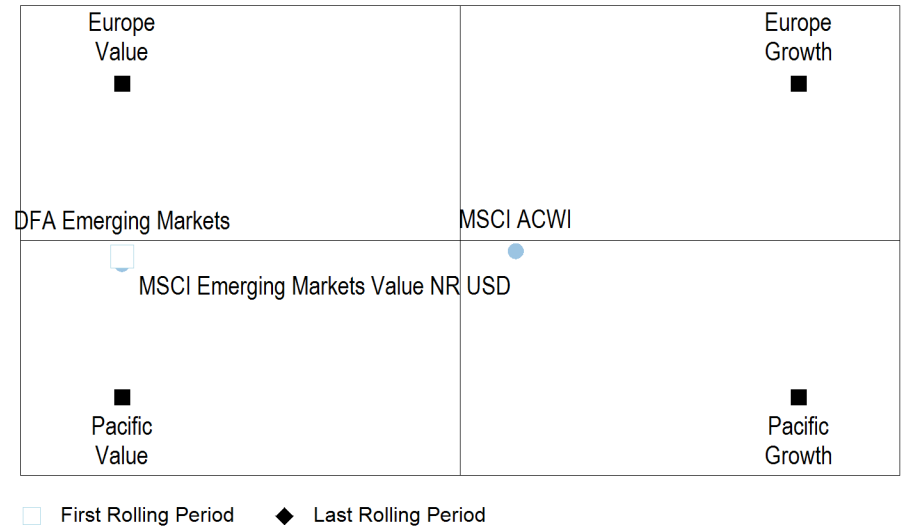
Los Angeles City Employees' Retirement System

DFA EMERGING MARKETS

3 Year Risk Return



3 Year Style Map



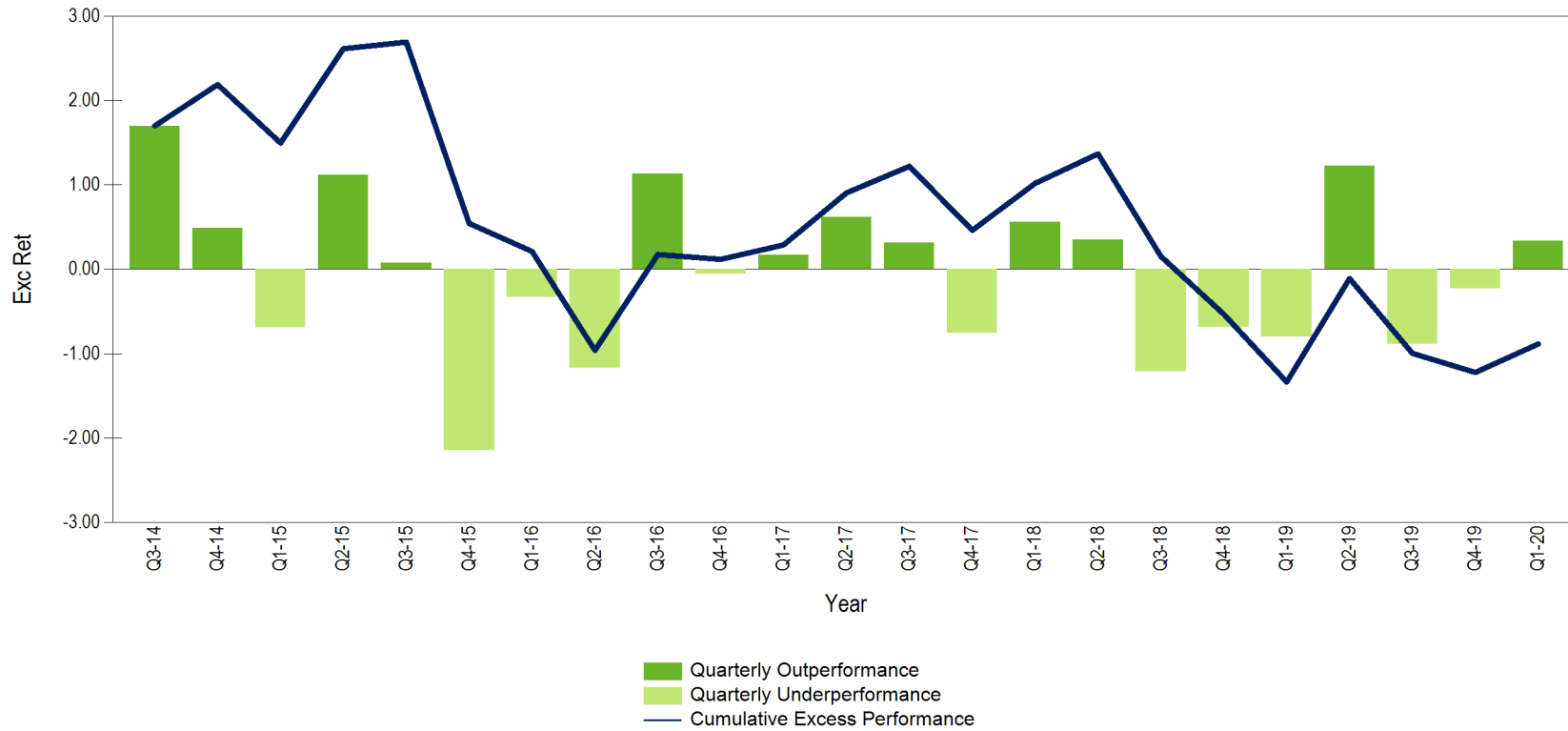
- DFA Emerging Markets
- ▲ MSCI Emerging Markets Value NR USD
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

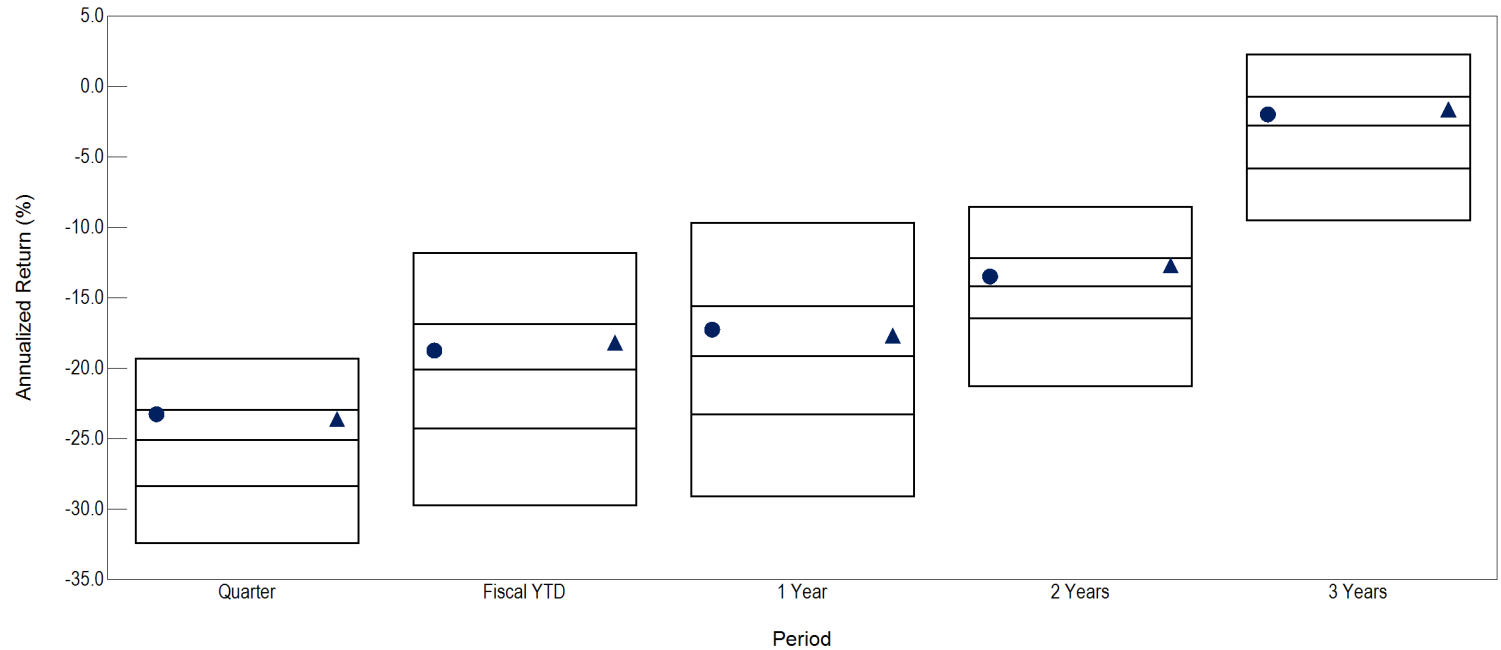
QMA EMERGING MARKETS

Quarterly and Cumulative Excess Performance



QMA EMERGING MARKETS

QMA Emerging Markets vs. eV Emg Mkts Equity Net



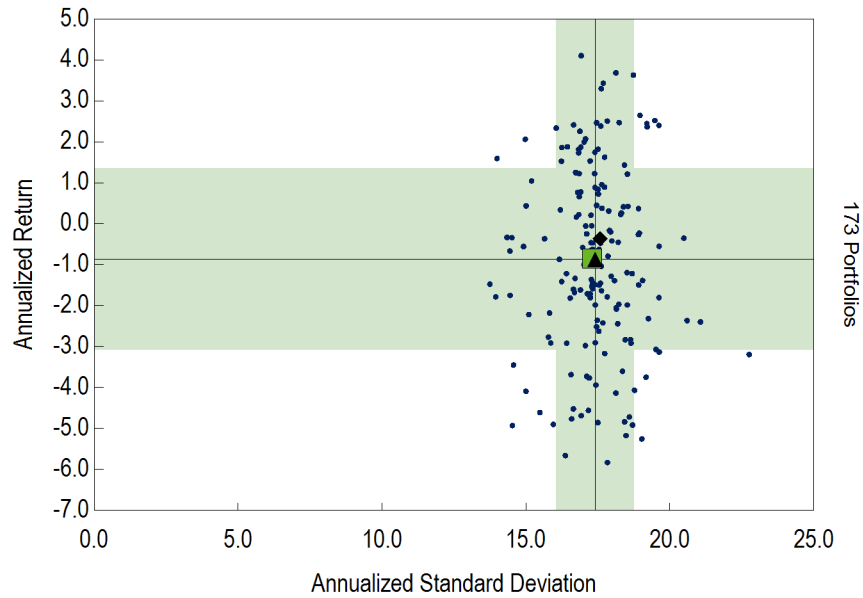
	Return (Rank)									
5th Percentile	-19.31		-11.83		-9.69		-8.55		2.27	
25th Percentile	-22.92		-16.80		-15.55		-12.13		-0.69	
Median	-25.05		-20.07		-19.10		-14.14		-2.71	
75th Percentile	-28.34		-24.21		-23.21		-16.43		-5.77	
95th Percentile	-32.37		-29.69		-29.04		-21.25		-9.44	
# of Portfolios	224		223		222		209		198	
● QMA Emerging Markets	-23.26	(30)	-18.75	(42)	-17.26	(38)	-13.49	(43)	-1.98	(37)
▲ MSCI Emerging Markets	-23.60	(35)	-18.18	(37)	-17.69	(40)	-12.70	(32)	-1.62	(32)



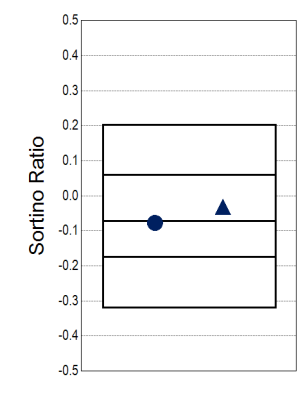
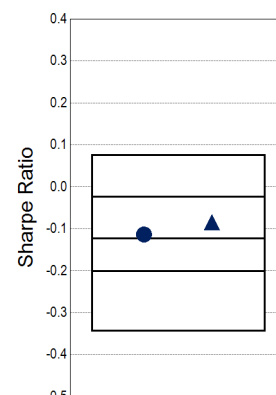
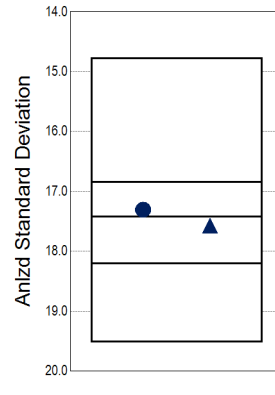
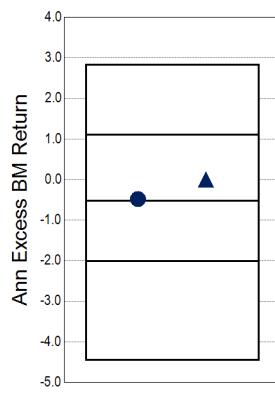
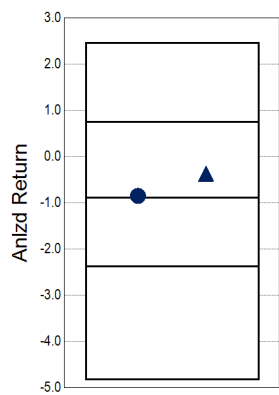
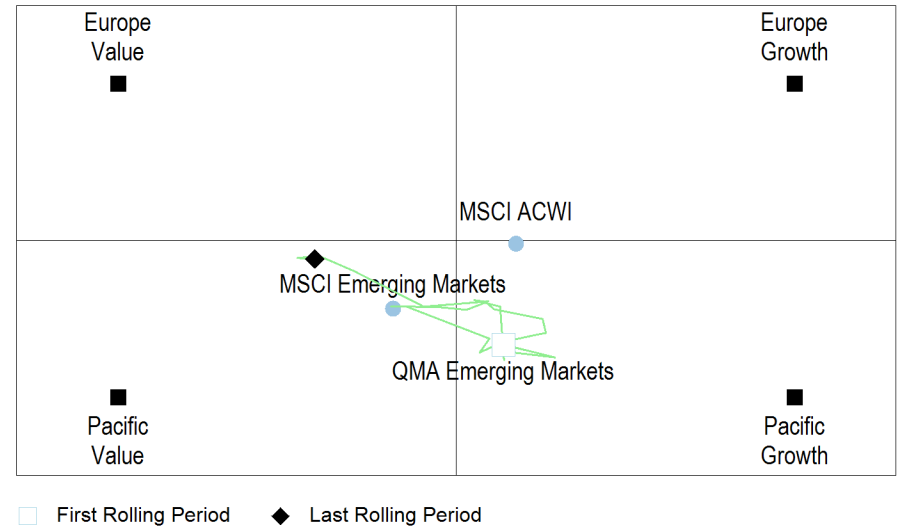
Los Angeles City Employees' Retirement System

QMA EMERGING MARKETS

5 Year Risk Return



5 Year Style Map



- QMA Emerging Markets
- ▲ MSCI Emerging Markets
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

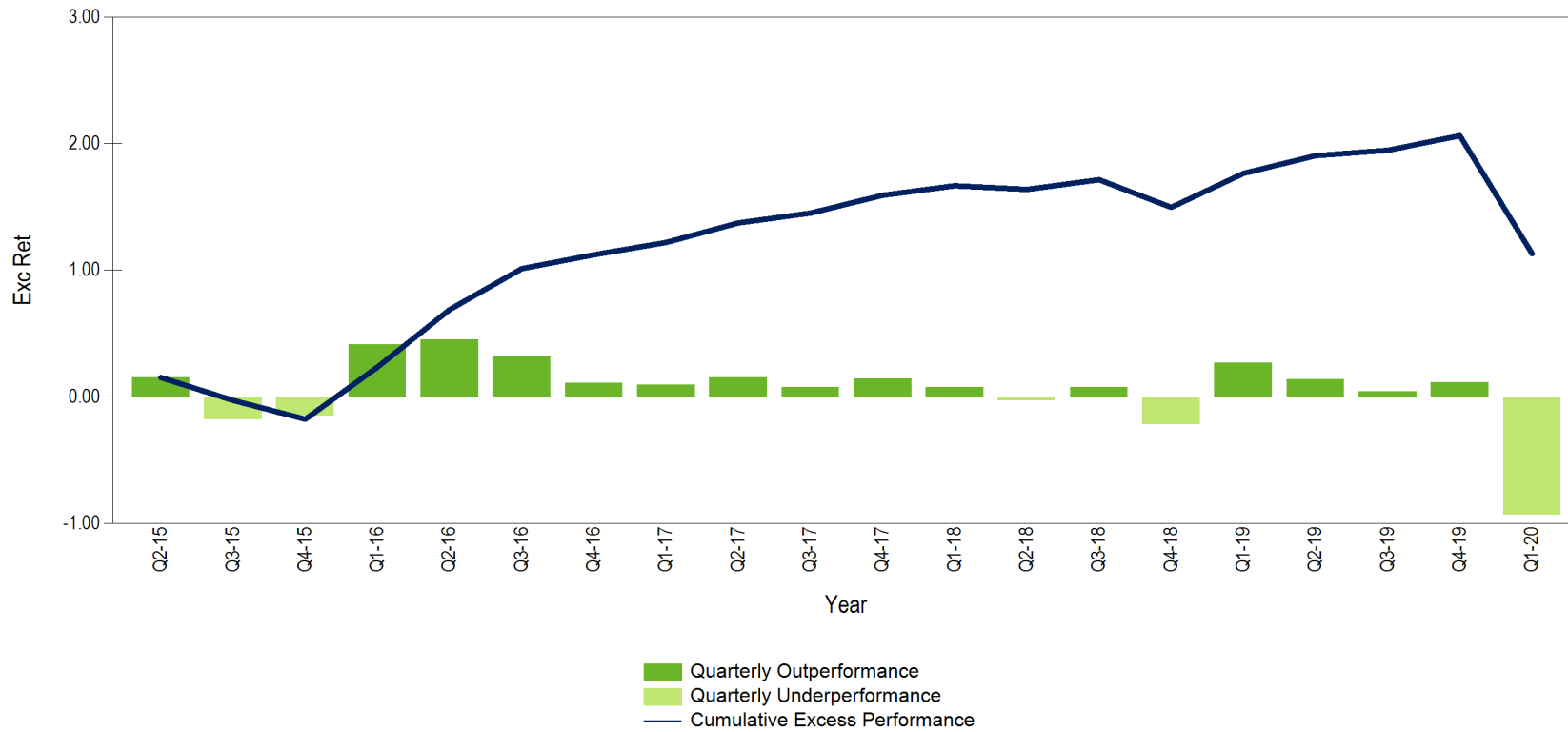


CORE FIXED INCOME MANAGER PERFORMANCE

NEPC, LLC

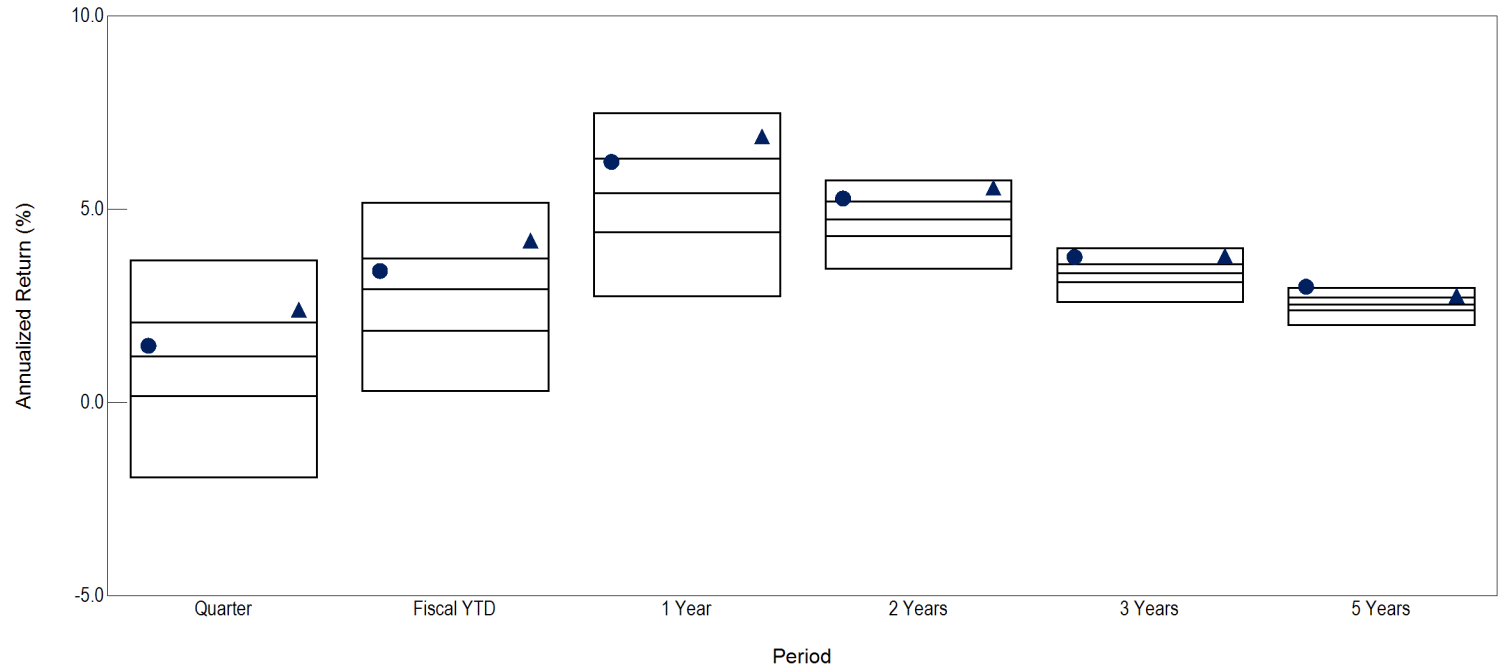
BAIRD ADVISORS

Quarterly and Cumulative Excess Performance



BAIRD ADVISORS

Baird Advisors vs. eV US Interm Duration Fixed Inc Net



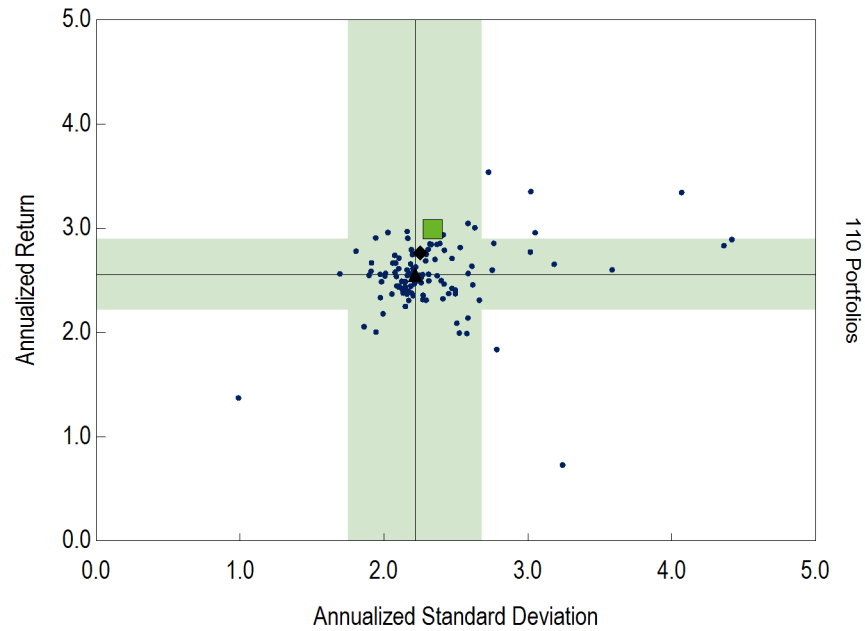
	Return (Rank)		Quarter		Fiscal YTD		1 Year		2 Years		3 Years		5 Years	
5th Percentile	3.68		5.17		7.49		5.74		3.99		2.97			
25th Percentile	2.09		3.75		6.33		5.21		3.59		2.73			
Median	1.21		2.94		5.43		4.74		3.36		2.56			
75th Percentile	0.18		1.87		4.41		4.32		3.13		2.41			
95th Percentile	-1.92		0.32		2.76		3.47		2.61		2.03			
# of Portfolios	115		115		115		113		111		110			
● Baird Advisors	1.47	(45)	3.40	(40)	6.22	(32)	5.28	(21)	3.76	(10)	2.99	(4)		
▲ BBgBarc US Govt/Credit Int TR	2.40	(13)	4.19	(12)	6.88	(8)	5.55	(9)	3.79	(9)	2.76	(22)		



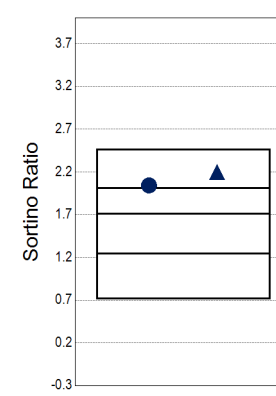
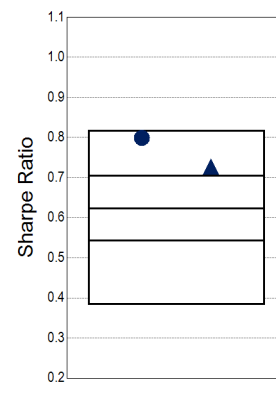
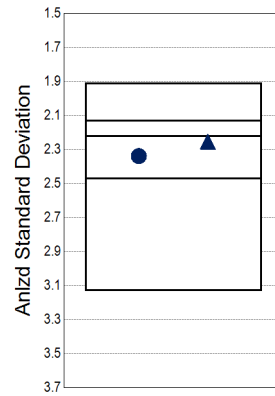
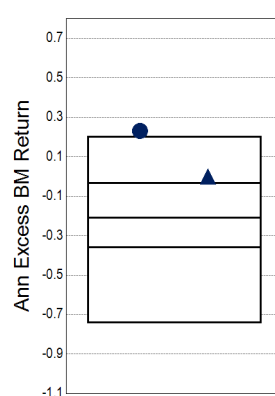
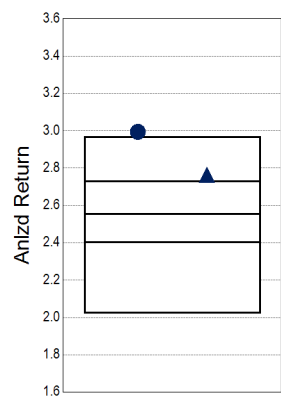
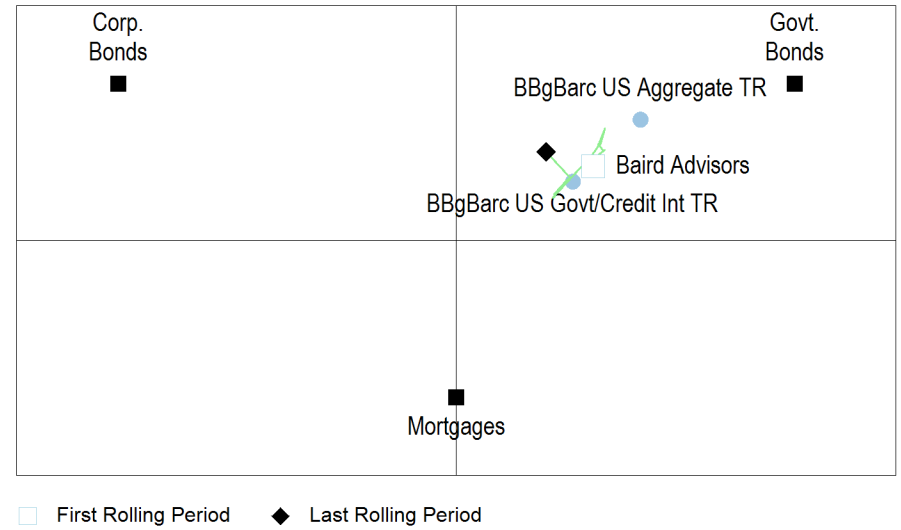
Los Angeles City Employees' Retirement System

BAIRD ADVISORS

5 Year Risk Return



5 Year Style Map

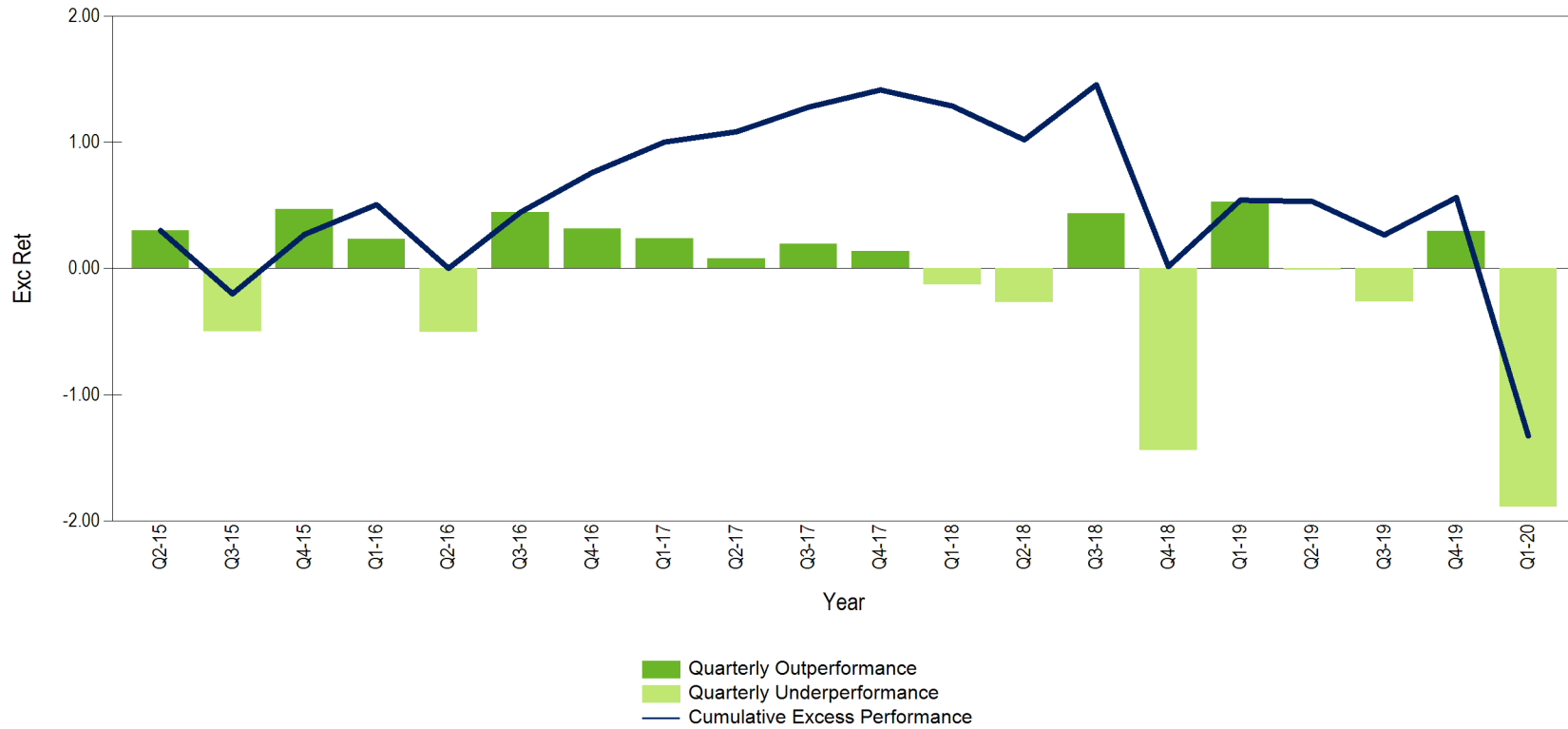


- Baird Advisors
- ▲ BBgBarc US Govt/Credit Int TR
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



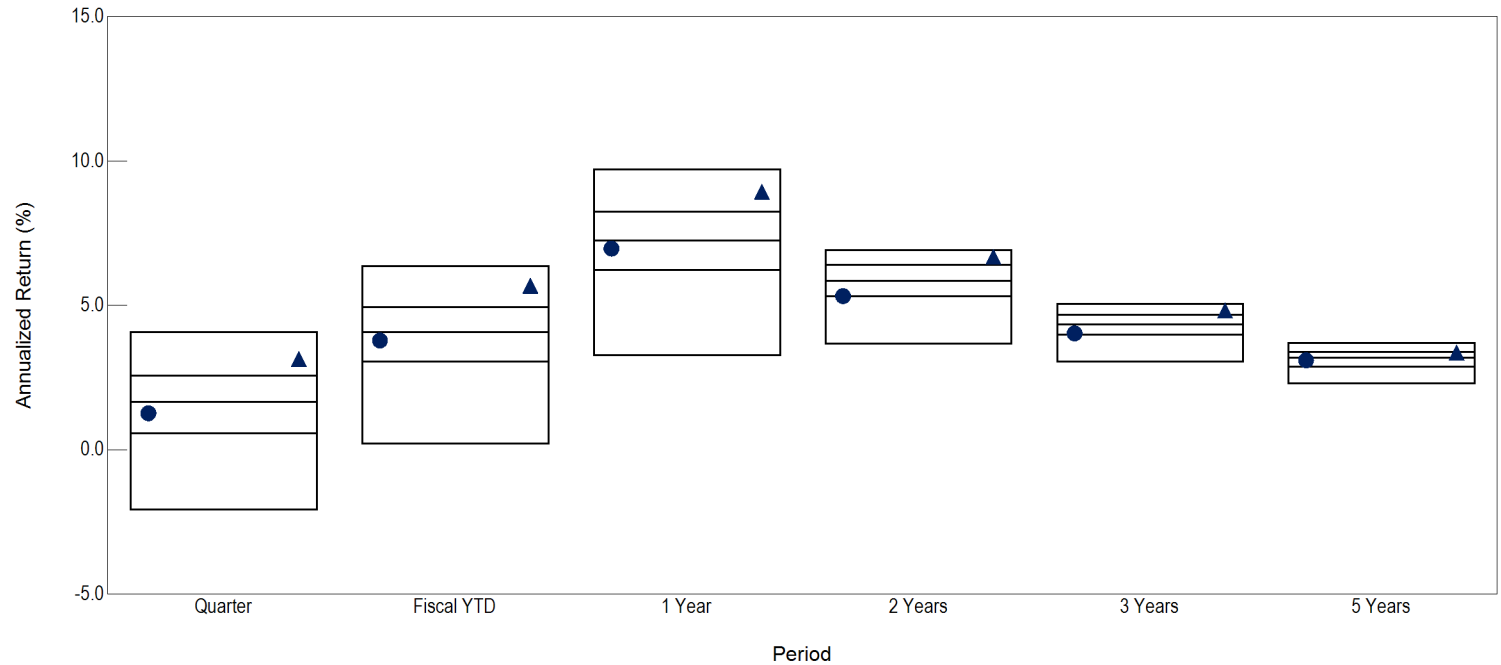
LM CAPITAL

Quarterly and Cumulative Excess Performance



LM CAPITAL

Core Fixed Income Managers vs. eV US Core Fixed Inc Net



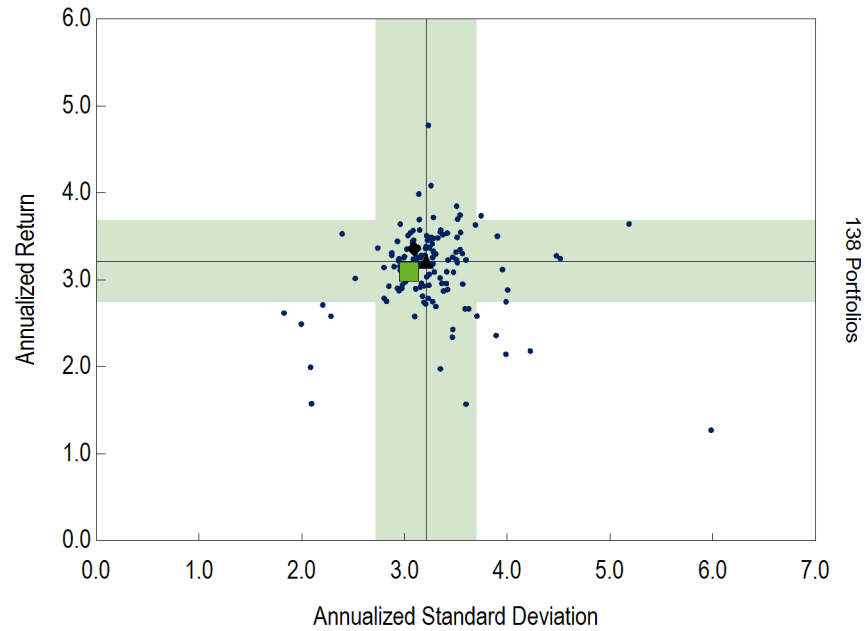
	Return (Rank)											
5th Percentile	4.07		6.35		9.72		6.92		5.05		3.70	
25th Percentile	2.58		4.97		8.27		6.43		4.69		3.41	
Median	1.68		4.09		7.28		5.86		4.36		3.22	
75th Percentile	0.58		3.07		6.26		5.34		4.00		2.91	
95th Percentile	-2.06		0.23		3.29		3.69		3.08		2.32	
# of Portfolios	145		144		144		141		141		138	
● LM Capital	1.26	(62)	3.78	(60)	6.97	(59)	5.32	(77)	4.03	(74)	3.10	(62)
▲ Core Fixed Income Blend	3.15	(15)	5.68	(12)	8.93	(13)	6.68	(15)	4.82	(15)	3.36	(30)



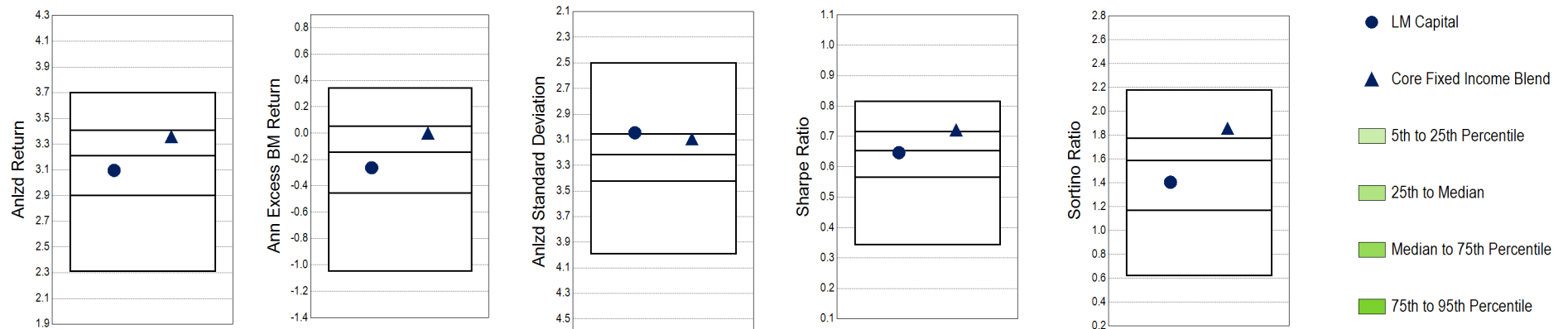
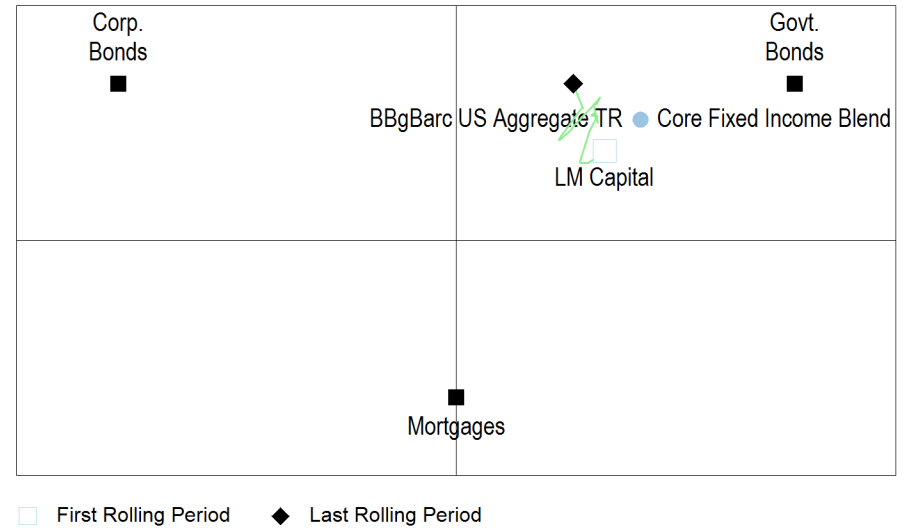
Los Angeles City Employees' Retirement System

LM CAPITAL

5 Year Risk Return

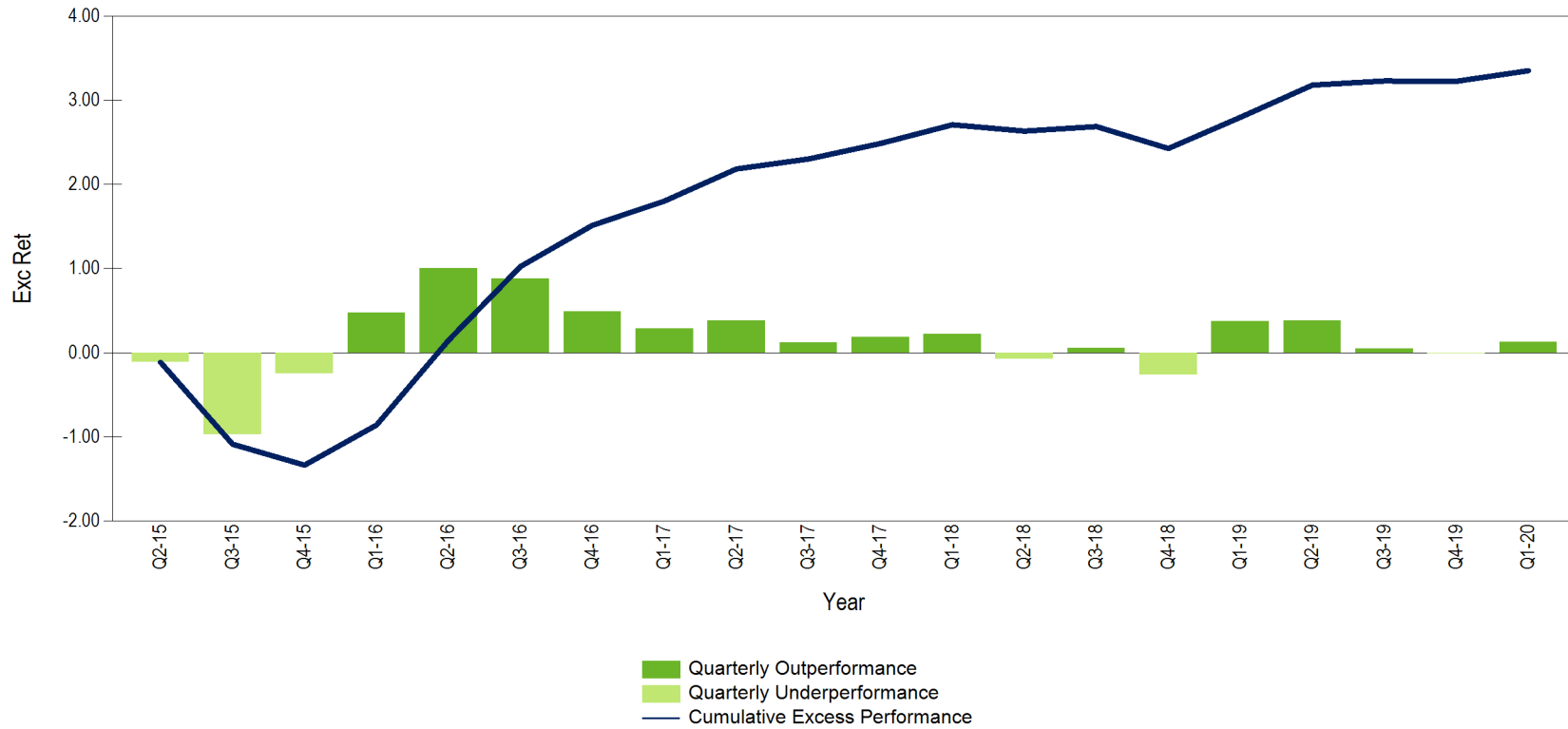


5 Year Style Map



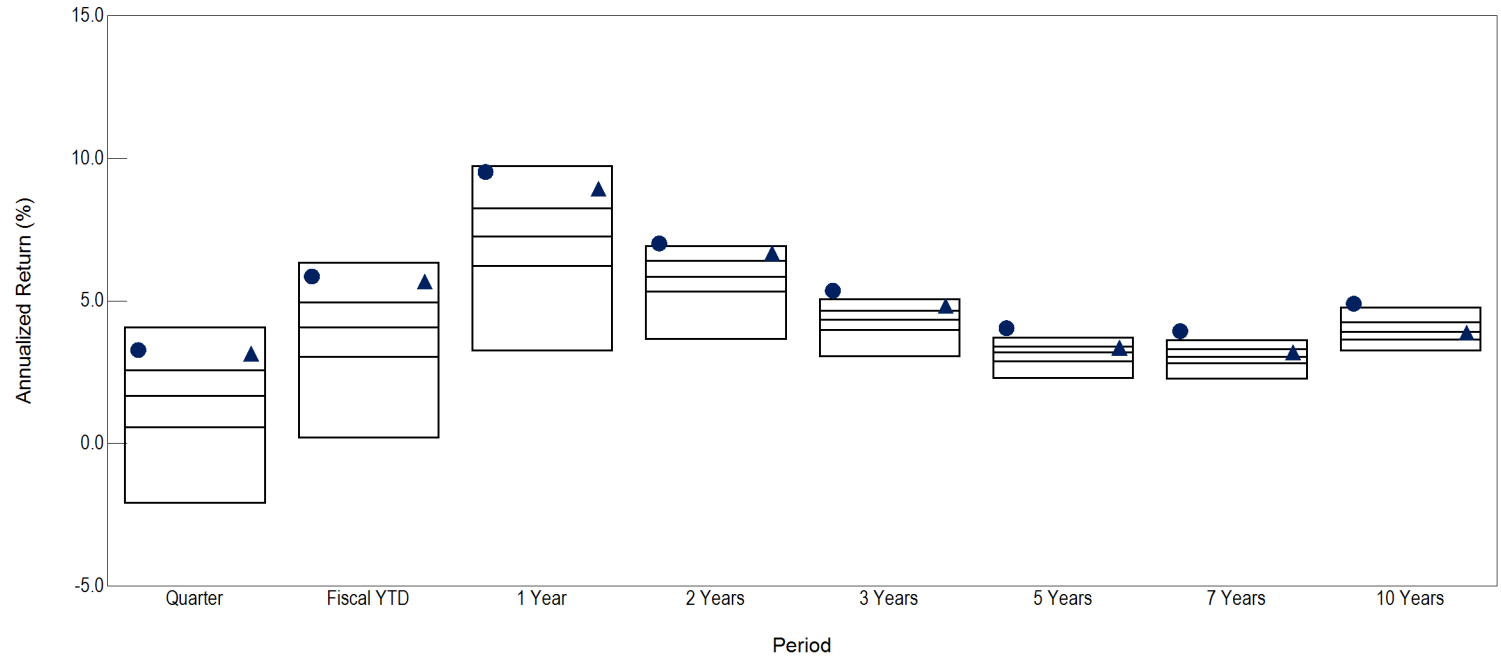
LOOMIS SAYLES

Quarterly and Cumulative Excess Performance



LOOMIS SAYLES

Loomis Sayles vs. eV US Core Fixed Inc Net



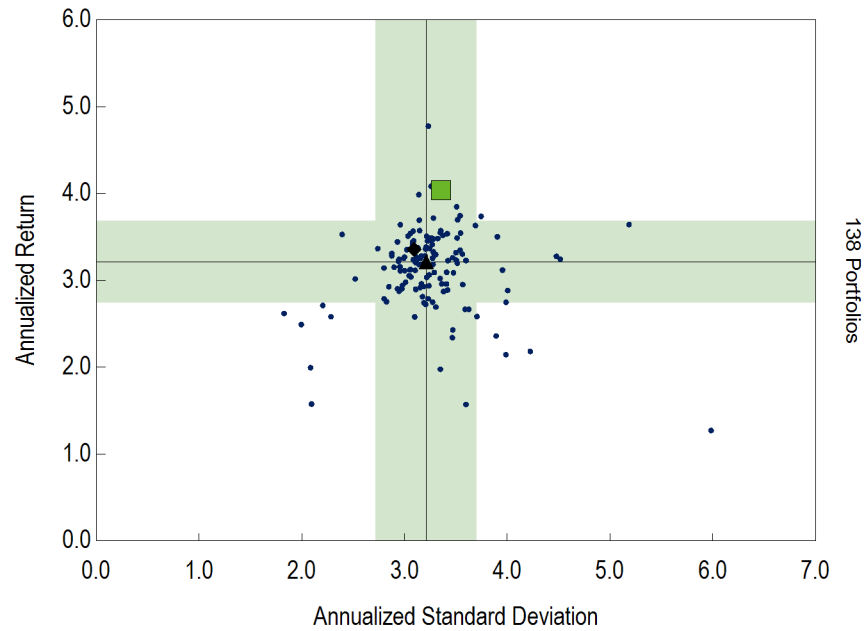
	Return (Rank)															
5th Percentile	4.07	6.35	9.72	6.92	5.05	3.70	3.62	4.76								
25th Percentile	2.58	4.97	8.27	6.43	4.69	3.41	3.33	4.27								
Median	1.68	4.09	7.28	5.86	4.36	3.22	3.06	3.94								
75th Percentile	0.58	3.07	6.26	5.34	4.00	2.91	2.83	3.67								
95th Percentile	-2.06	0.23	3.29	3.69	3.08	2.32	2.30	3.27								
# of Portfolios	145	144	144	141	141	138	136	125								
● Loomis Sayles	3.27	(13)	5.85	(10)	9.52	(6)	7.01	(5)	5.36	(3)	4.04	(2)	3.94	(1)	4.90	(2)
▲ BC US Agg LACERS custom	3.15	(15)	5.68	(12)	8.93	(13)	6.68	(15)	4.82	(15)	3.36	(30)	3.19	(39)	3.88	(56)



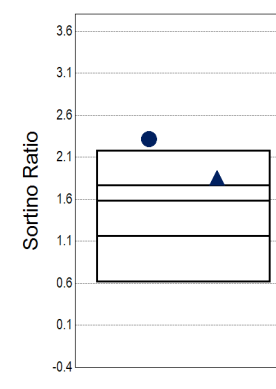
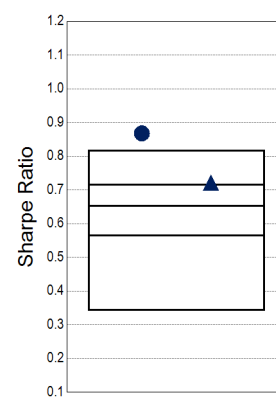
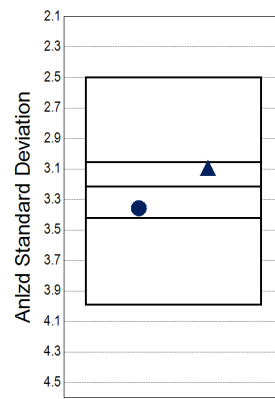
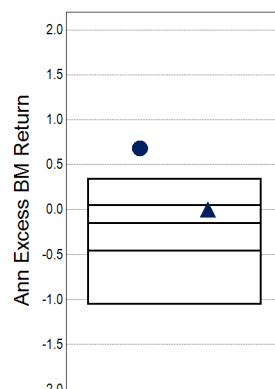
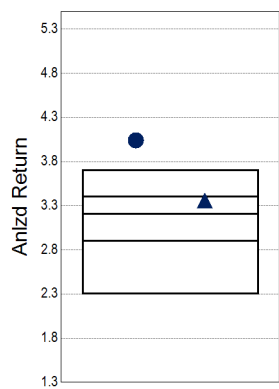
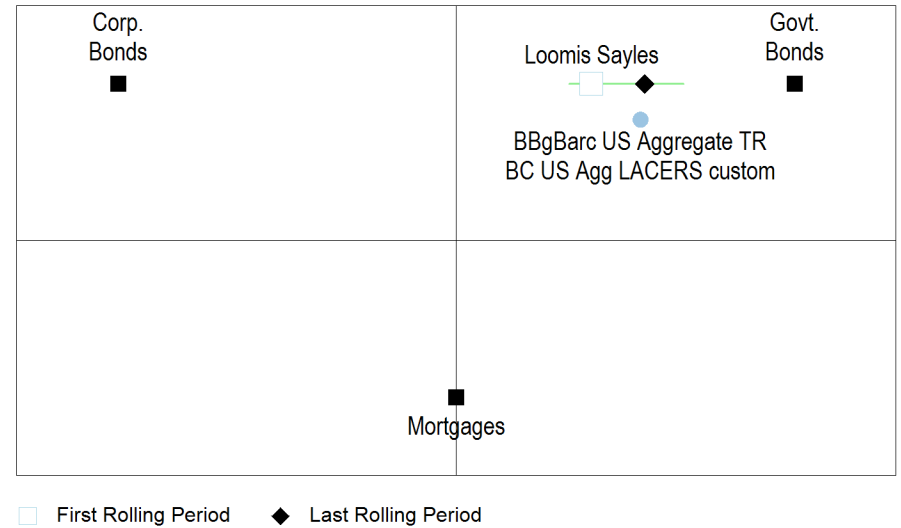
Los Angeles City Employees' Retirement System

LOOMIS SAYLES

5 Year Risk Return



5 Year Style Map

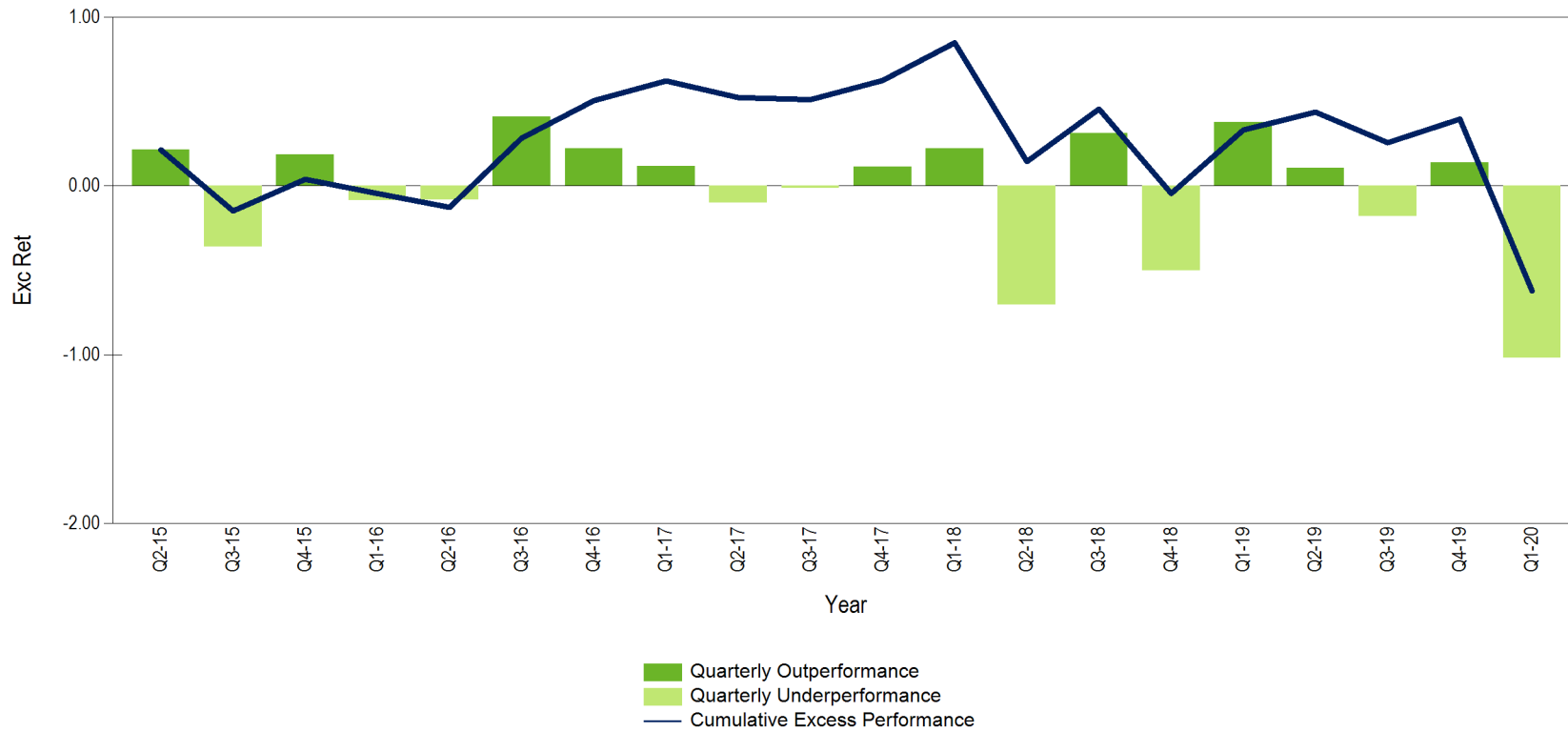


- Loomis Sayles
- ▲ BC US Agg LACERS custom
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



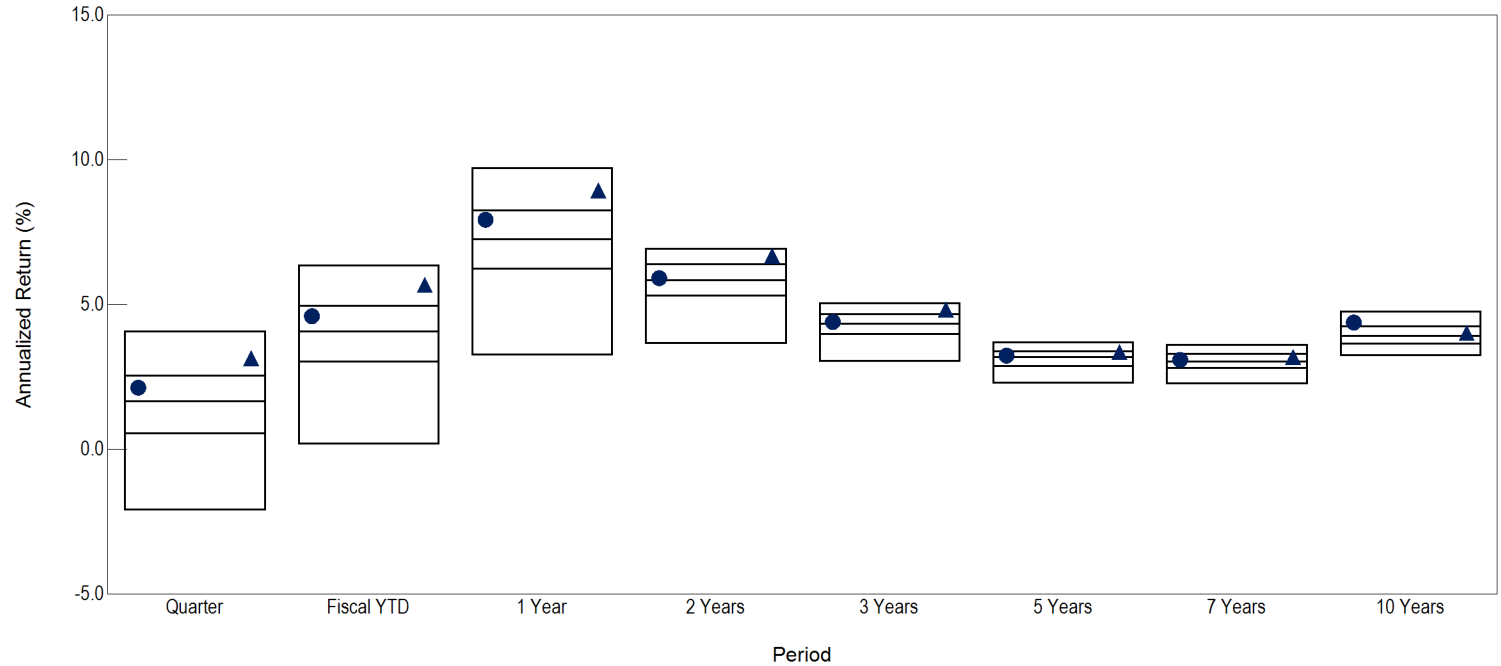
NEUBERGER BERMAN

Quarterly and Cumulative Excess Performance



NEUBERGER BERMAN

Neuberger Berman vs. eV US Core Fixed Inc Net



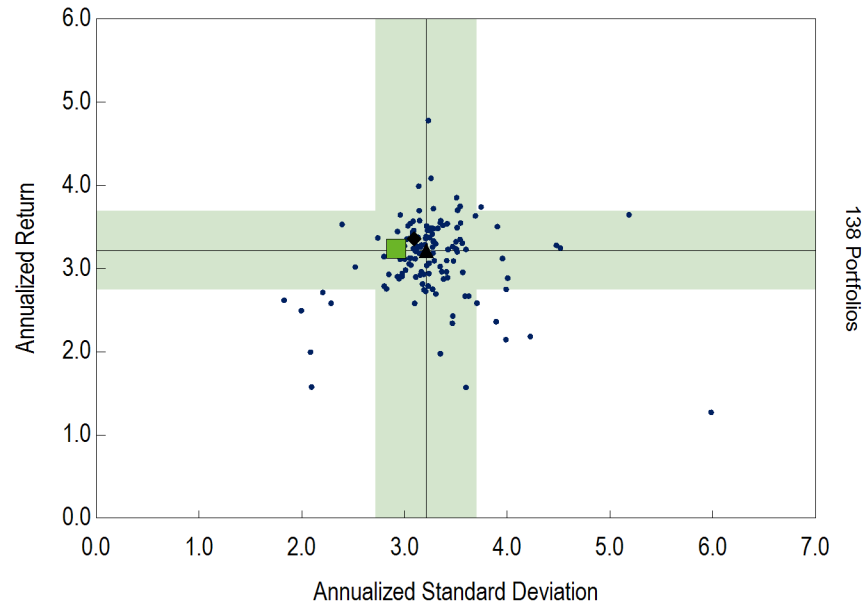
	Return (Rank)															
5th Percentile	4.07	6.35	9.72	6.92	5.05	3.70	3.62	4.76								
25th Percentile	2.58	4.97	8.27	6.43	4.69	3.41	3.33	4.27								
Median	1.68	4.09	7.28	5.86	4.36	3.22	3.06	3.94								
75th Percentile	0.58	3.07	6.26	5.34	4.00	2.91	2.83	3.67								
95th Percentile	-2.06	0.23	3.29	3.69	3.08	2.32	2.30	3.27								
# of Portfolios	145	144	144	141	141	138	136	125								
● Neuberger Berman	2.13	(39)	4.60	(35)	7.93	(33)	5.91	(46)	4.40	(47)	3.24	(47)	3.09	(49)	4.38	(19)
▲ Core Fixed Income Blend	3.15	(15)	5.68	(12)	8.93	(13)	6.68	(15)	4.82	(15)	3.36	(30)	3.18	(40)	4.02	(47)



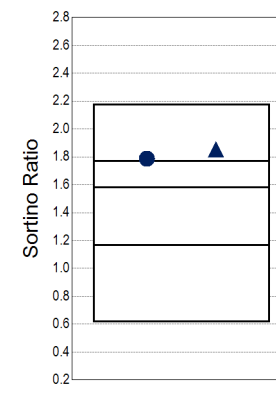
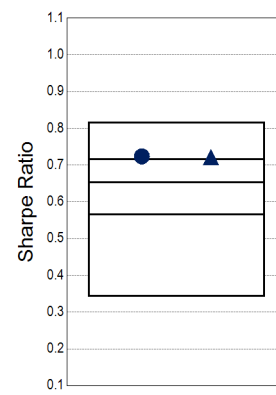
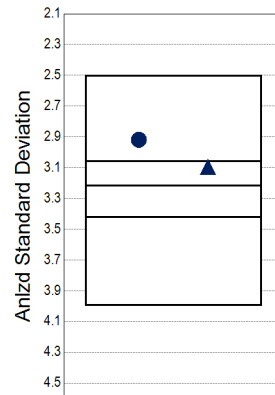
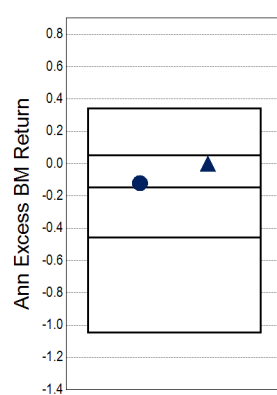
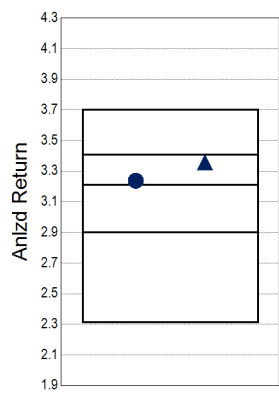
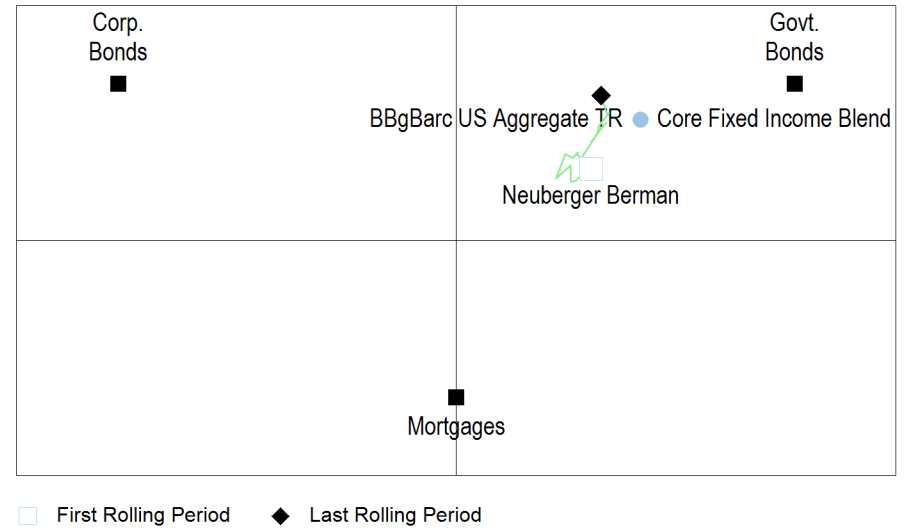
Los Angeles City Employees' Retirement System

NEUBERGER BERMAN

5 Year Risk Return



5 Year Style Map

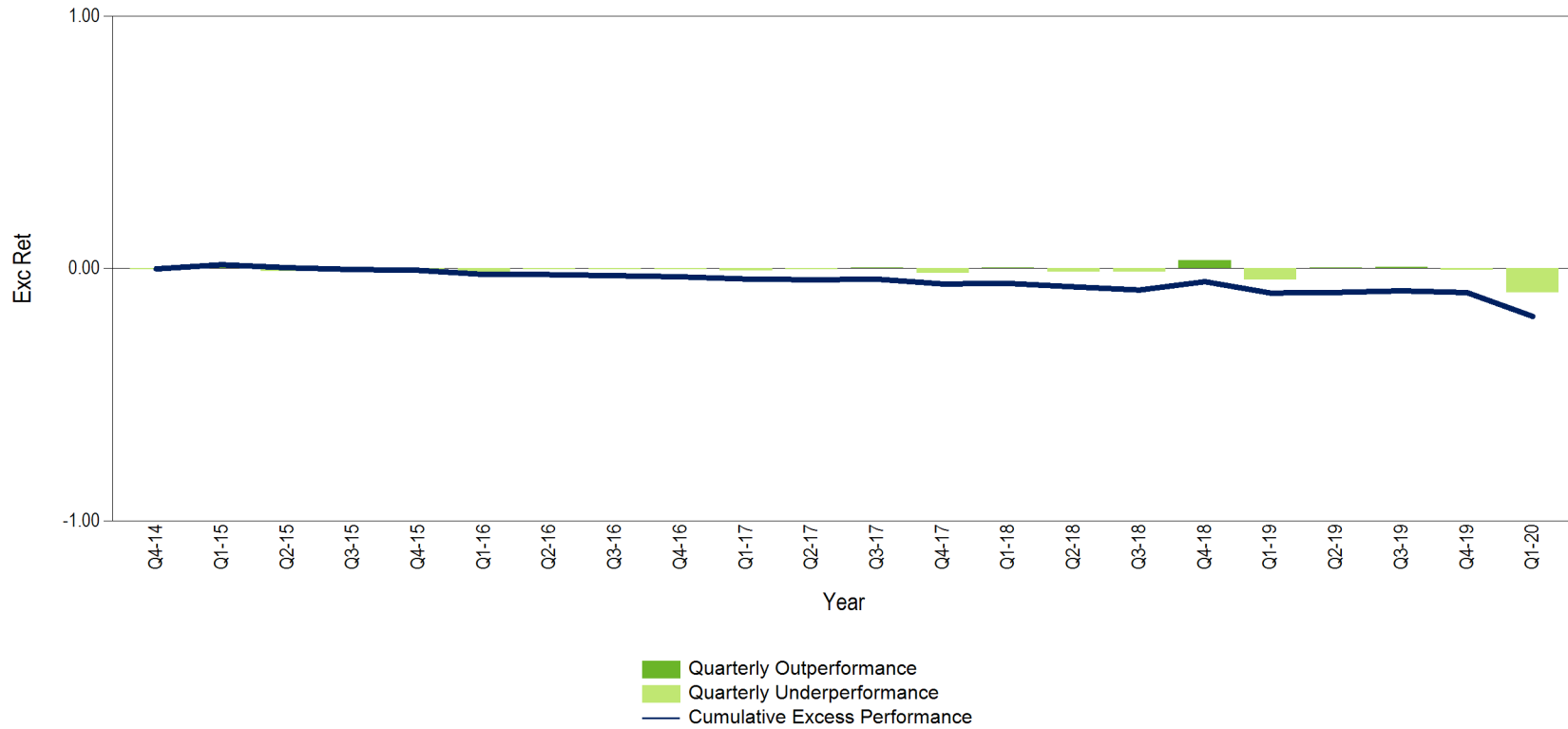


- Neuberger Berman
- ▲ Core Fixed Income Blend
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



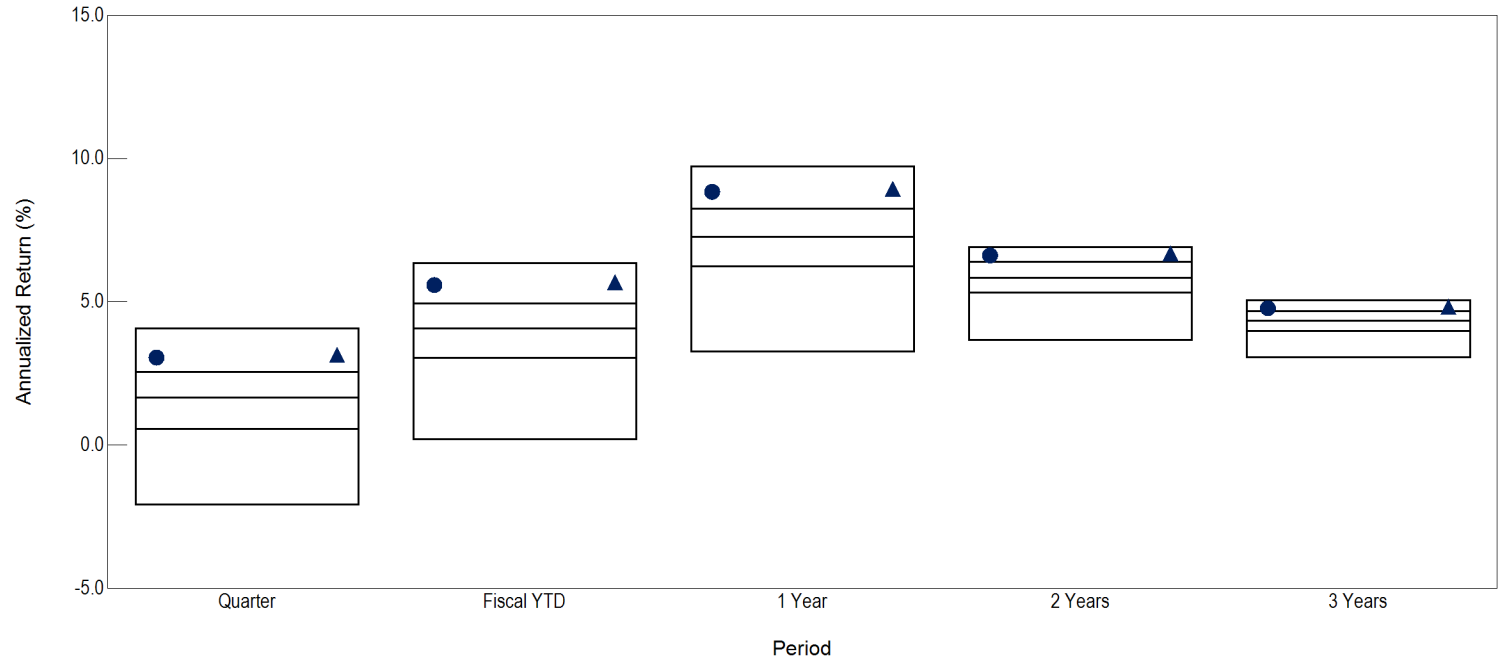
SSGA U.S. AGGREGATE BOND

Quarterly and Cumulative Excess Performance



SSGA U.S. AGGREGATE BOND

SSgA U.S. Aggregate Bond vs. eV US Core Fixed Inc Net



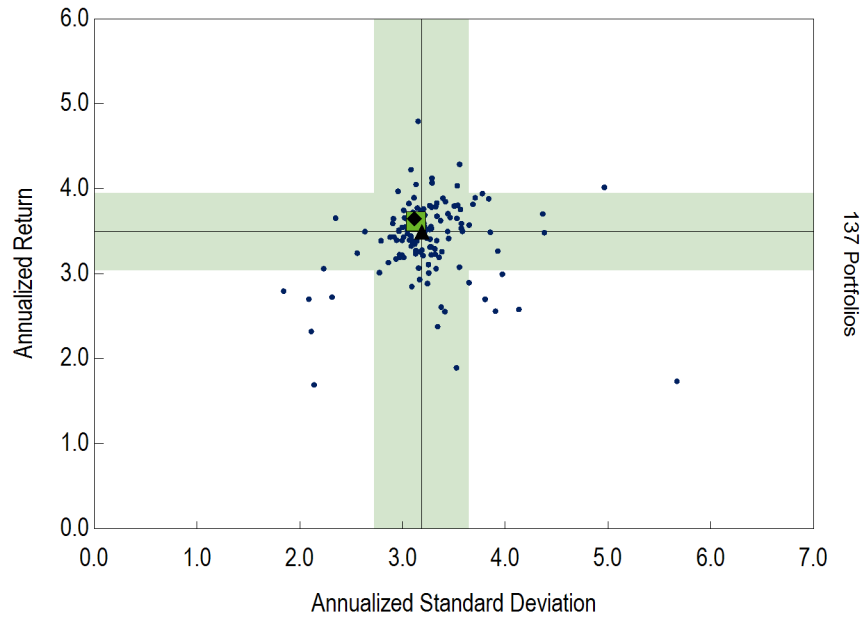
	Return (Rank)									
5th Percentile	4.07		6.35		9.72		6.92		5.05	
25th Percentile	2.58		4.97		8.27		6.43		4.69	
Median	1.68		4.09		7.28		5.86		4.36	
75th Percentile	0.58		3.07		6.26		5.34		4.00	
95th Percentile	-2.06		0.23		3.29		3.69		3.08	
# of Portfolios	145		144		144		141		141	
● SSGA U.S. Aggregate Bond	3.05	(16)	5.58	(13)	8.84	(16)	6.62	(16)	4.77	(17)
▲ BBgBarc US Aggregate TR	3.15	(15)	5.68	(12)	8.93	(13)	6.68	(15)	4.82	(15)



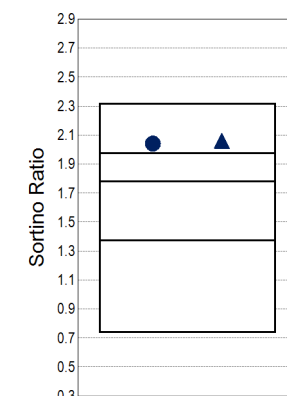
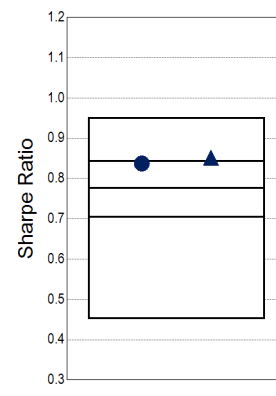
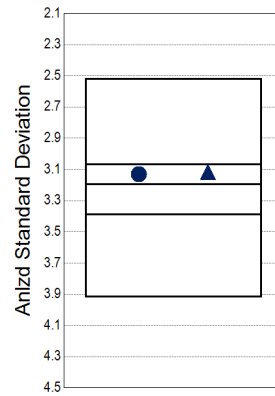
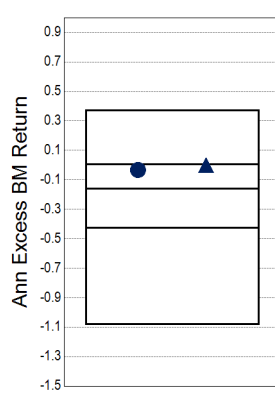
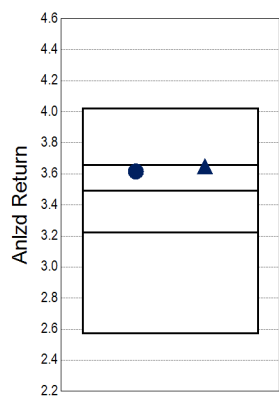
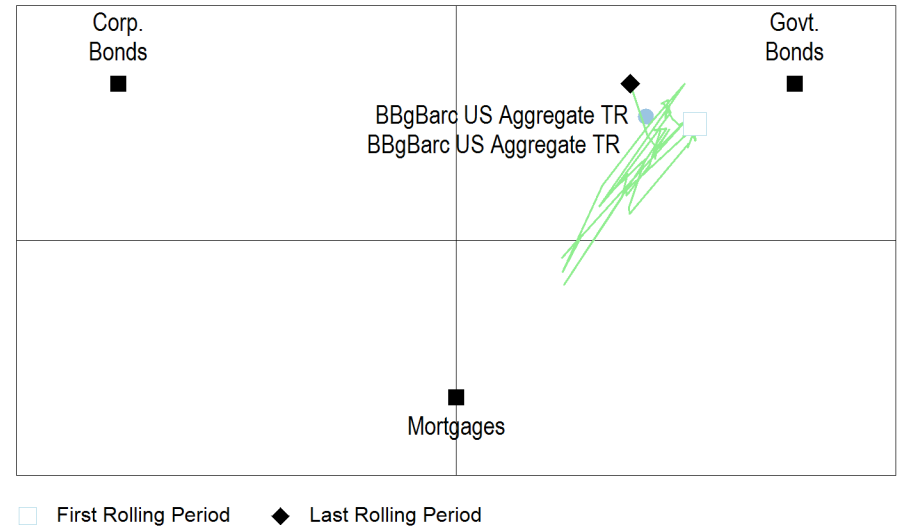
Los Angeles City Employees' Retirement System

SSGA U.S. AGGREGATE BOND

Since Inception Risk Return



Since Inception Style Map



- SSGA U.S. Aggregate Bond
- ▲ BBgBarc US Aggregate TR
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile

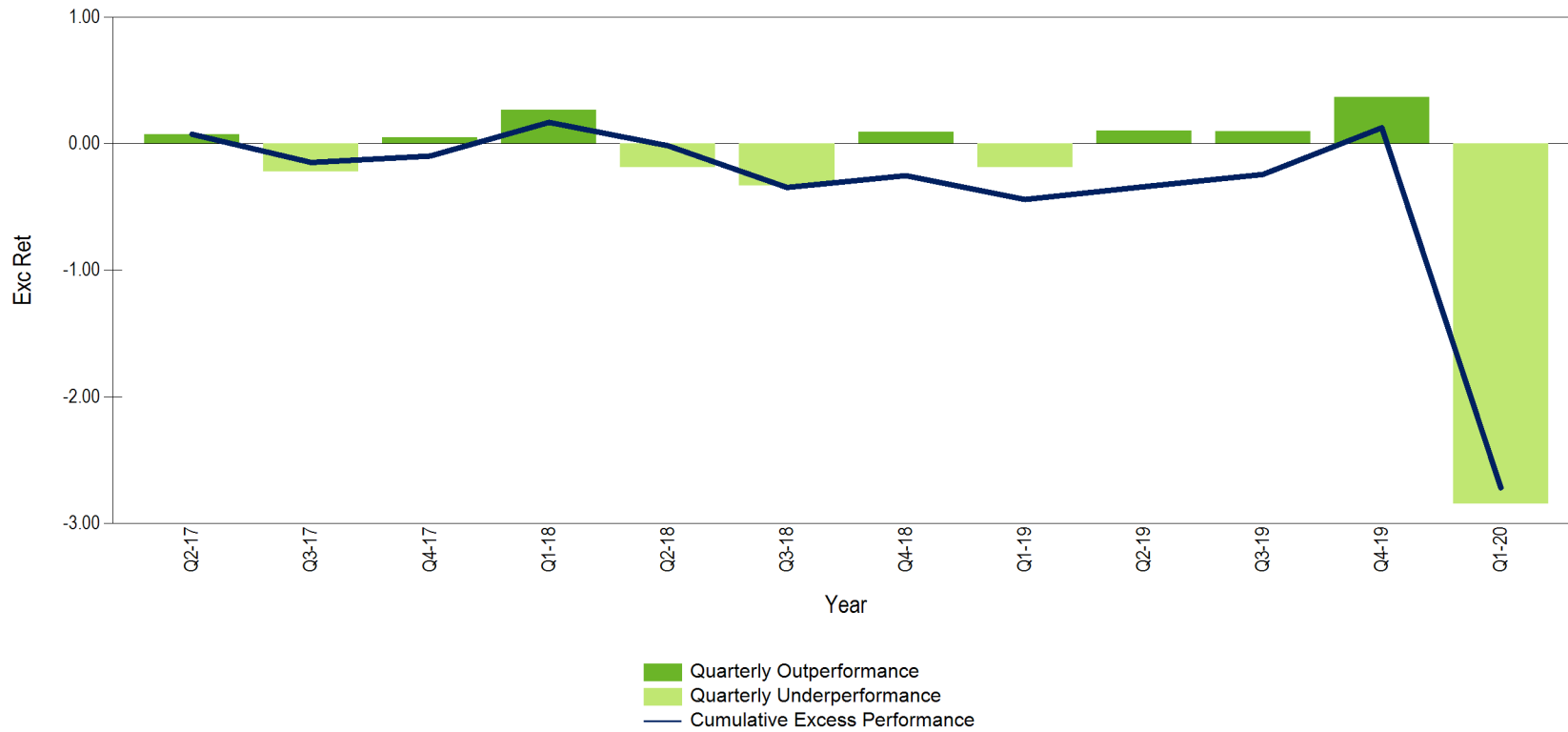


CREDIT OPPORTUNITIES MANAGER PERFORMANCE

NEPC, LLC

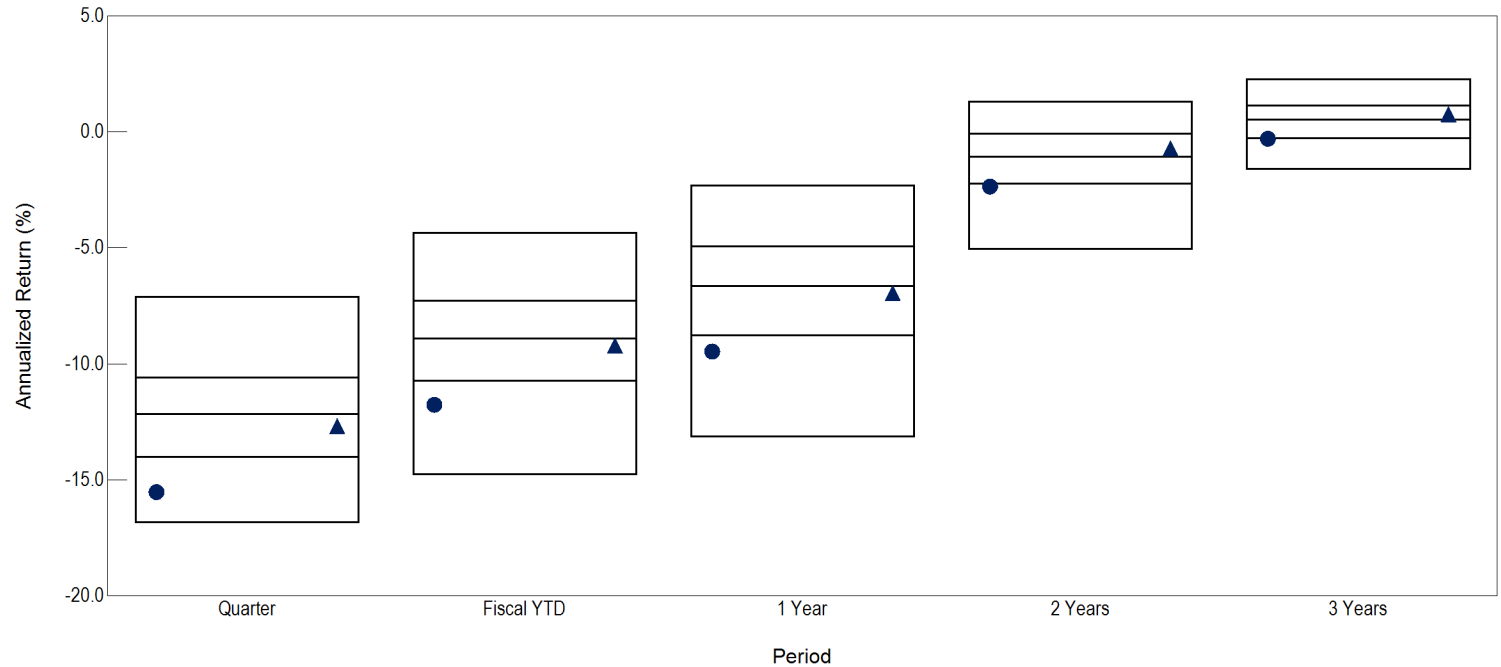
AEGON USA

Quarterly and Cumulative Excess Performance



AEGON USA

AEGON USA vs. eV US High Yield Fixed Inc Net



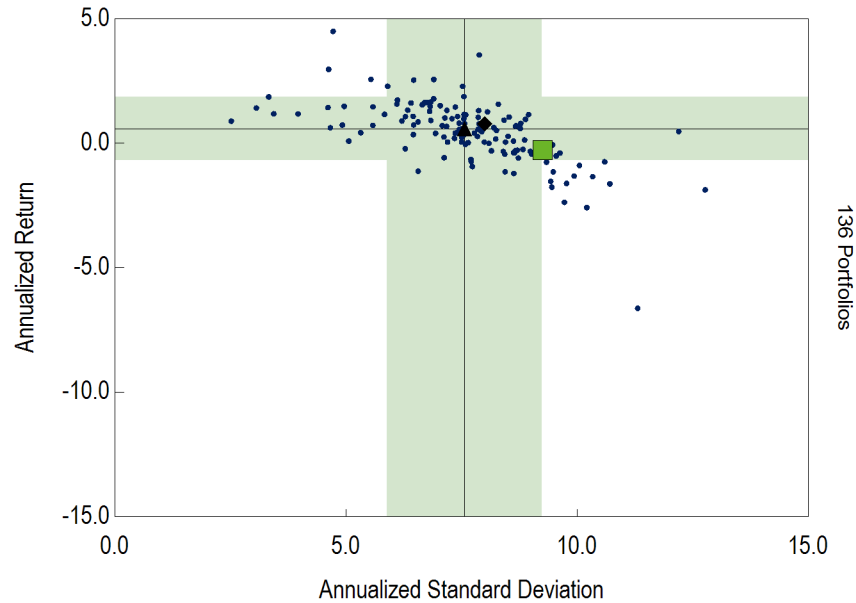
	Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)		Return (Rank)	
5th Percentile	-7.12	(88)	-4.36	(84)	-2.30	(82)	1.31	(78)	2.28	(77)
25th Percentile	-10.57	(88)	-7.26	(84)	-4.89	(82)	-0.06	(78)	1.15	(77)
Median	-12.13	(88)	-8.89	(84)	-6.62	(82)	-1.03	(78)	0.57	(77)
75th Percentile	-13.98	(88)	-10.69	(84)	-8.74	(82)	-2.21	(78)	-0.24	(77)
95th Percentile	-16.81	(88)	-14.72	(84)	-13.11	(82)	-5.01	(78)	-1.56	(77)
# of Portfolios	144		142		142		140		136	
● AEGON USA	-15.53	(88)	-11.77	(84)	-9.47	(82)	-2.36	(78)	-0.29	(77)
▲ BBgBarc US High Yield 2% Issuer Cap TR	-12.68	(57)	-9.21	(57)	-6.94	(55)	-0.71	(43)	0.76	(41)



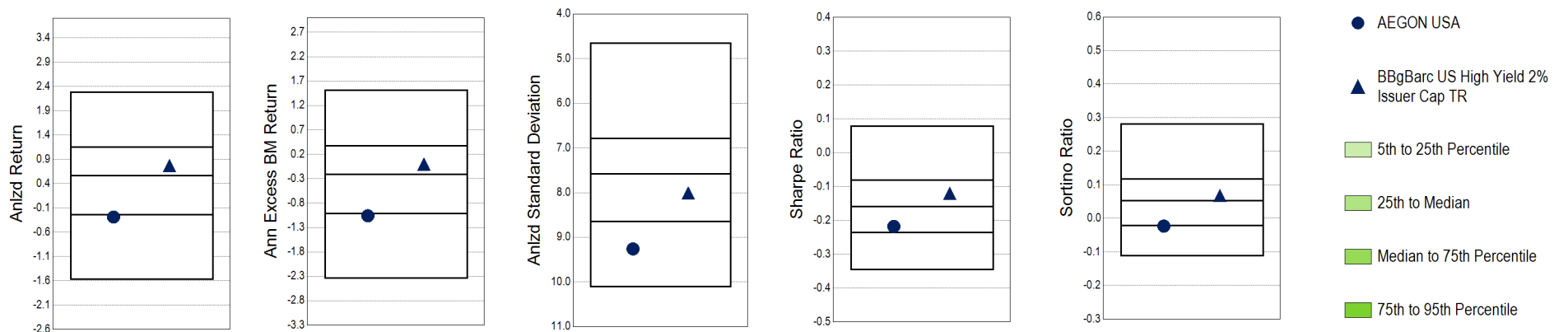
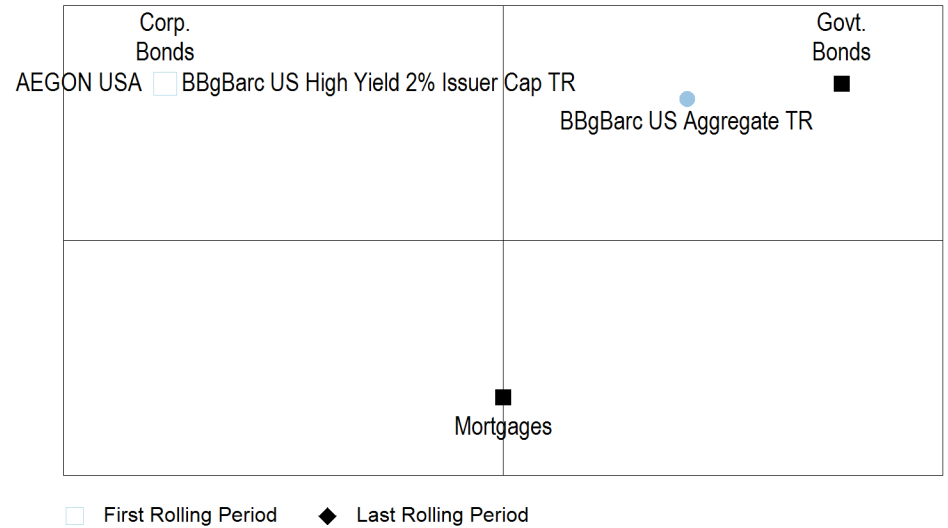
Los Angeles City Employees' Retirement System

AEGON USA

3 Year Risk Return

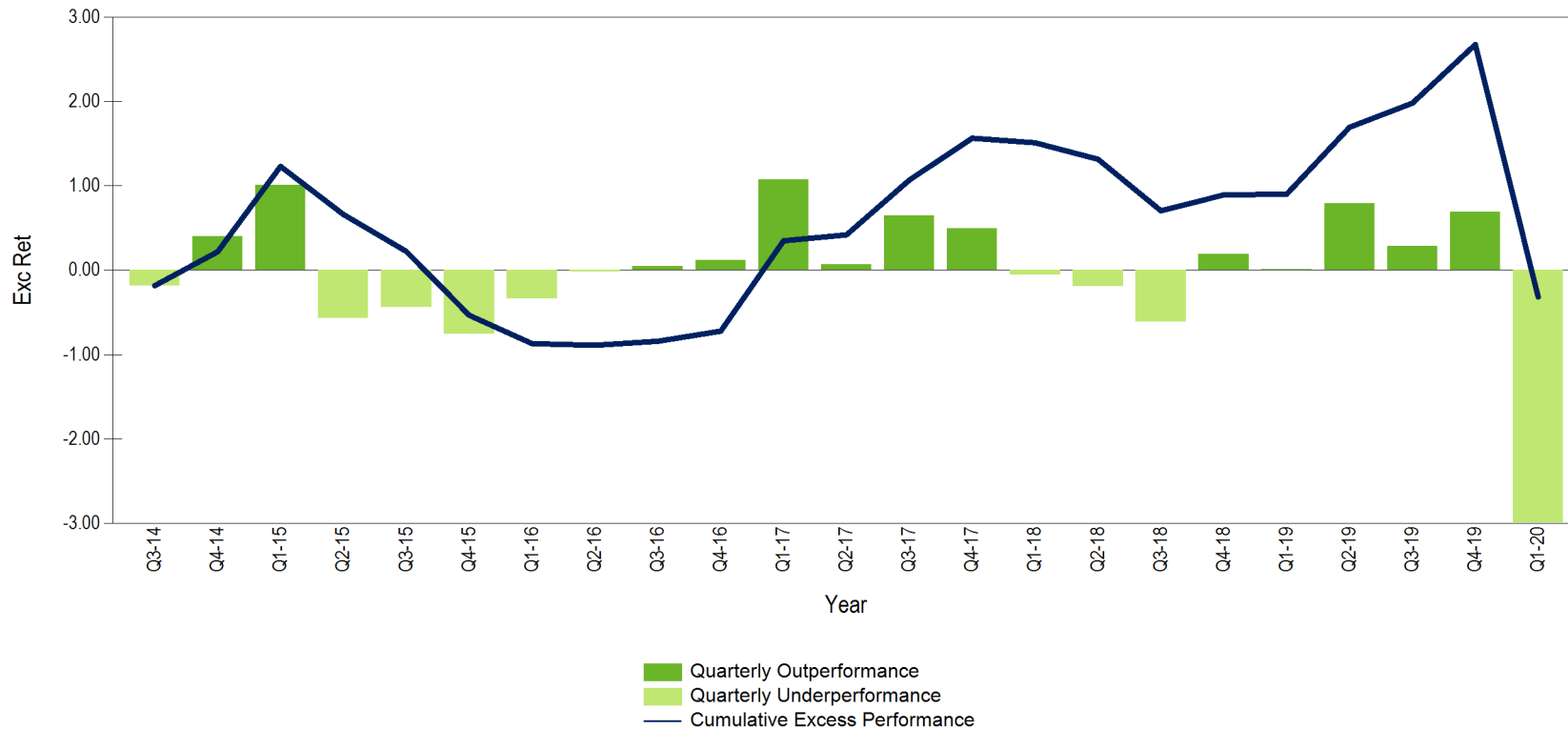


3 Year Style Map



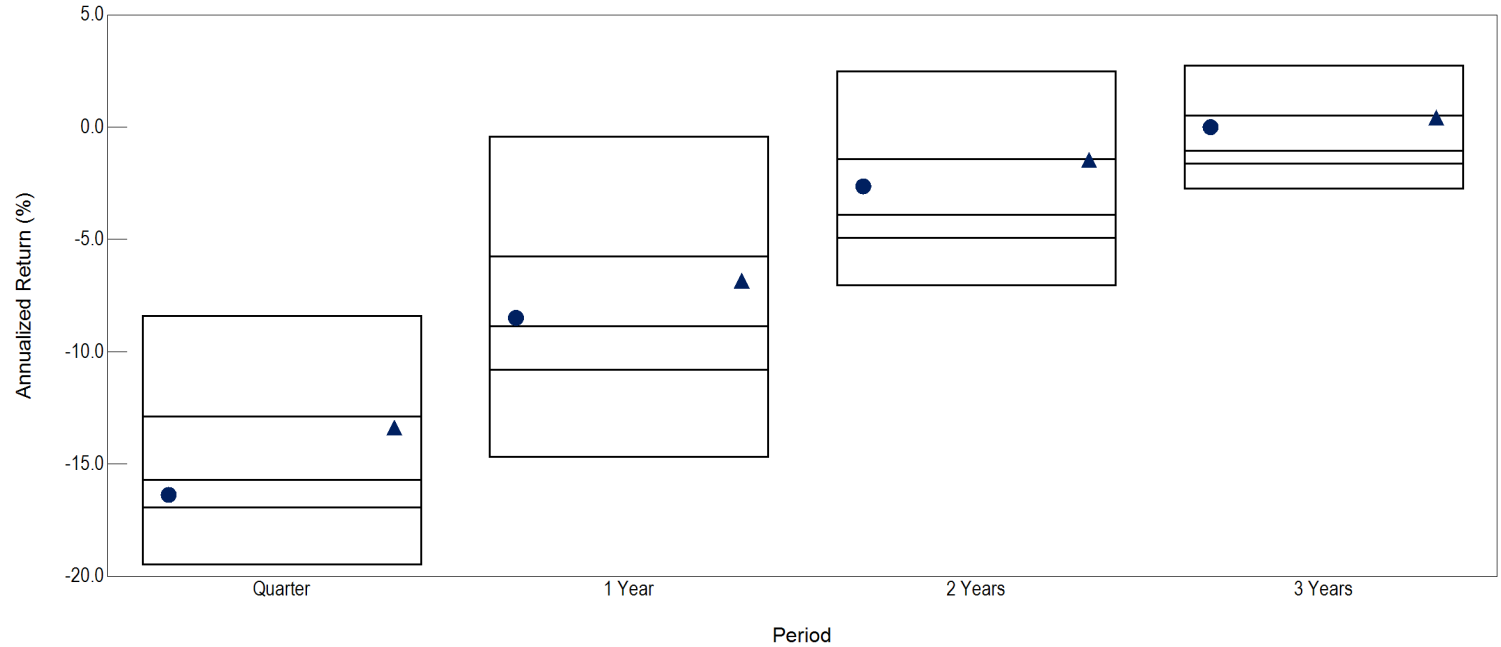
PRUDENTIAL EMERGING MARKETS

Quarterly and Cumulative Excess Performance



PRUDENTIAL EMERGING MARKETS

Prudential Emerging Markets vs. eV Emg Mkts Fixed Inc - Hard Currency Net



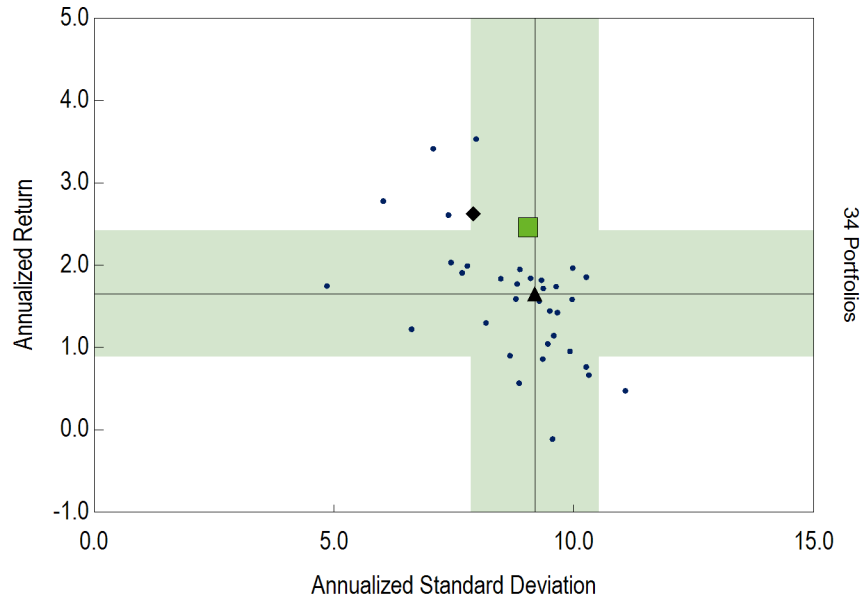
	Return (Rank)							
5th Percentile	-8.42		-0.42		2.48		2.72	
25th Percentile	-12.86		-5.72		-1.39		0.55	
Median	-15.67		-8.84		-3.87		-1.02	
75th Percentile	-16.91		-10.79		-4.90		-1.61	
95th Percentile	-19.45		-14.65		-7.02		-2.72	
# of Portfolios	42		42		39		38	
● Prudential Emerging Markets	-16.38	(67)	-8.50	(39)	-2.64	(34)	0.00	(32)
▲ JP Morgan EMBI Global Diversified	-13.38	(31)	-6.84	(30)	-1.47	(31)	0.42	(31)



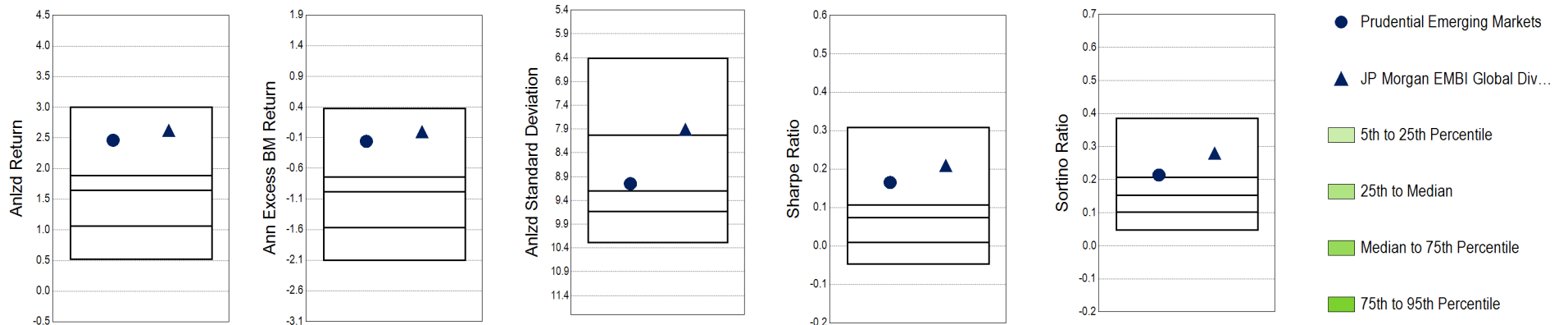
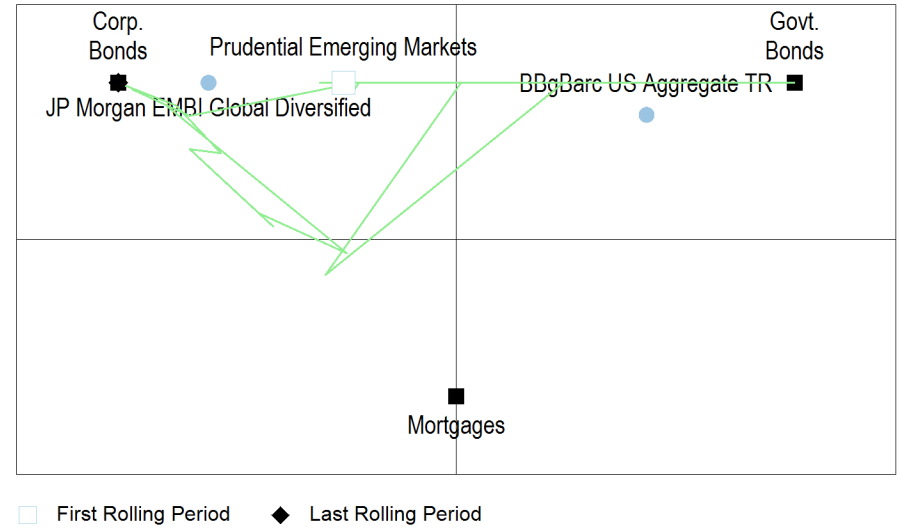
Los Angeles City Employees' Retirement System

PRUDENTIAL EMERGING MARKETS

Since Inception Risk Return

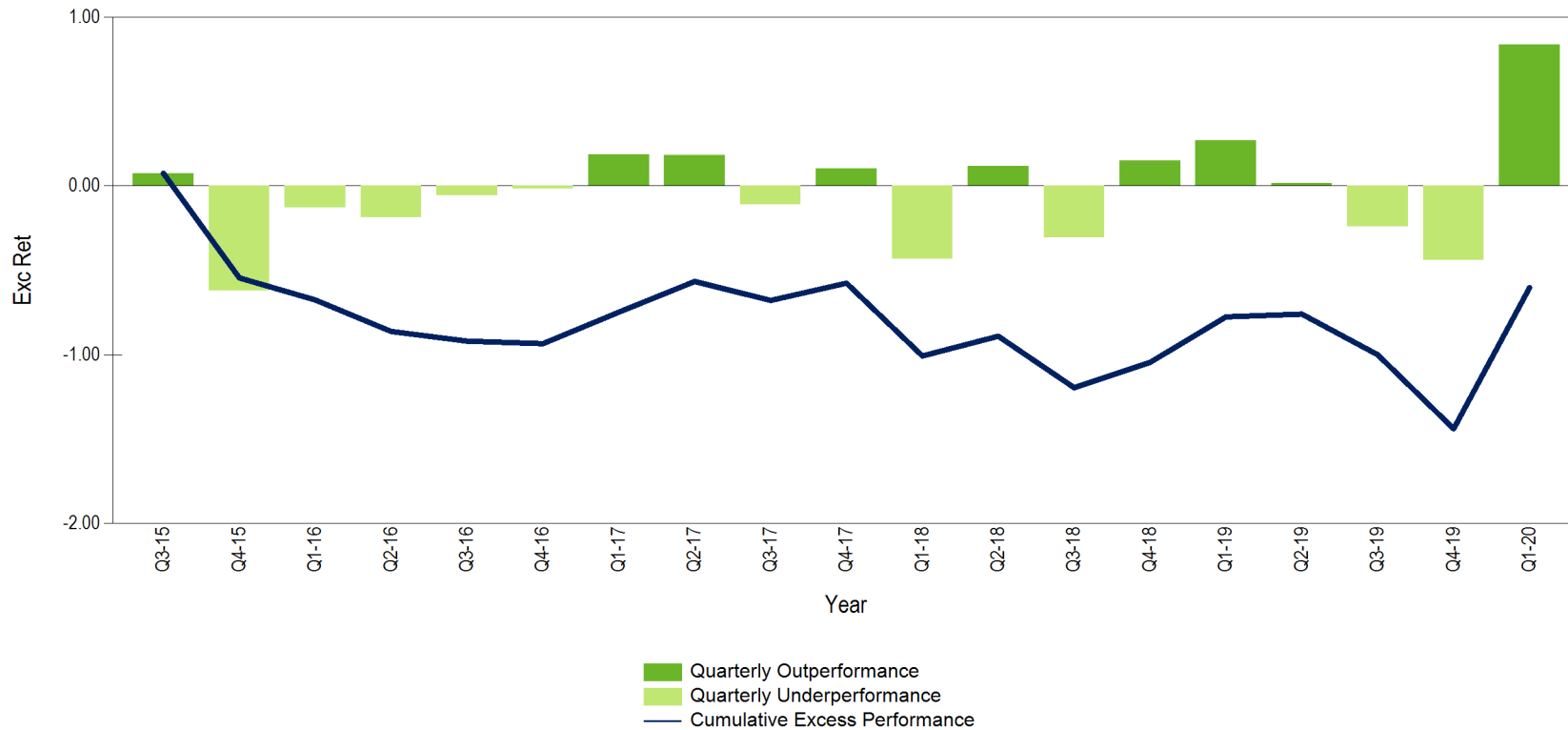


Since Inception Style Map



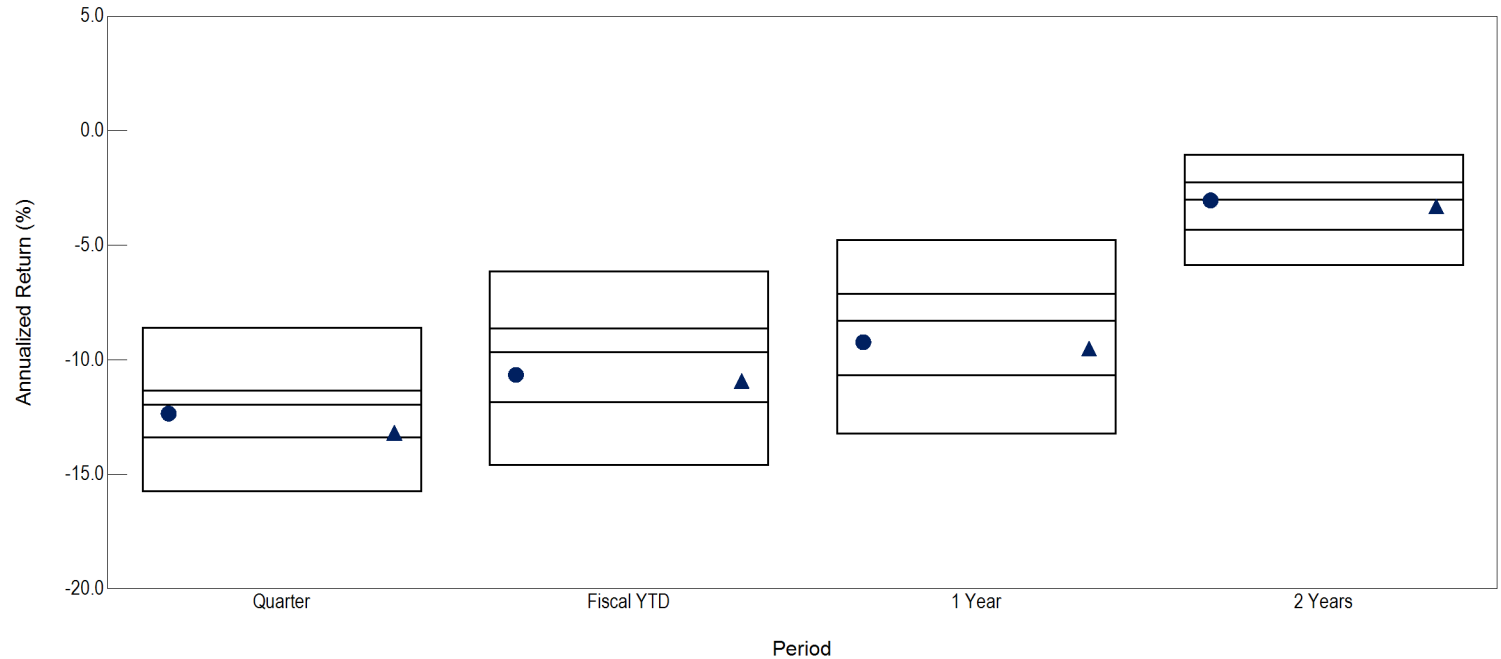
BAIN CAPITAL SENIOR LOAN FUND, LP

Quarterly and Cumulative Excess Performance



BAIN CAPITAL SENIOR LOAN FUND, LP

Bain Capital Senior Loan Fund, LP vs. eV US Float-Rate Bank Loan Fixed Inc Net



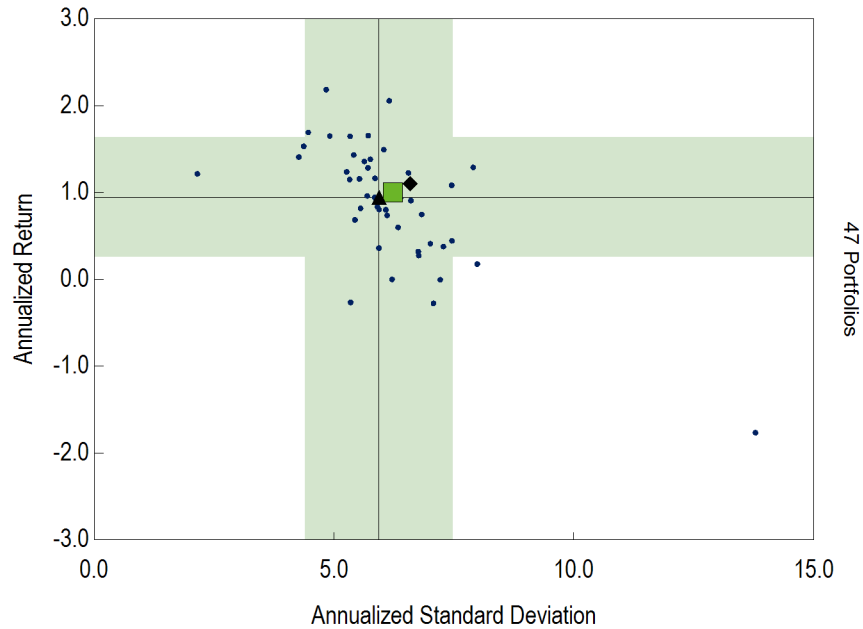
	Return (Rank)							
5th Percentile	-8.59		-6.16		-4.79		-1.06	
25th Percentile	-11.32		-8.60		-7.10		-2.23	
Median	-11.93		-9.64		-8.27		-2.98	
75th Percentile	-13.37		-11.82		-10.66		-4.30	
95th Percentile	-15.71		-14.58		-13.20		-5.84	
# of Portfolios	51		51		51		50	
● Bain Capital Senior Loan Fund, LP	-12.35	(60)	-10.66	(65)	-9.24	(62)	-3.05	(52)
▲ Credit Suisse Leveraged Loans	-13.19	(73)	-10.92	(67)	-9.51	(66)	-3.30	(57)



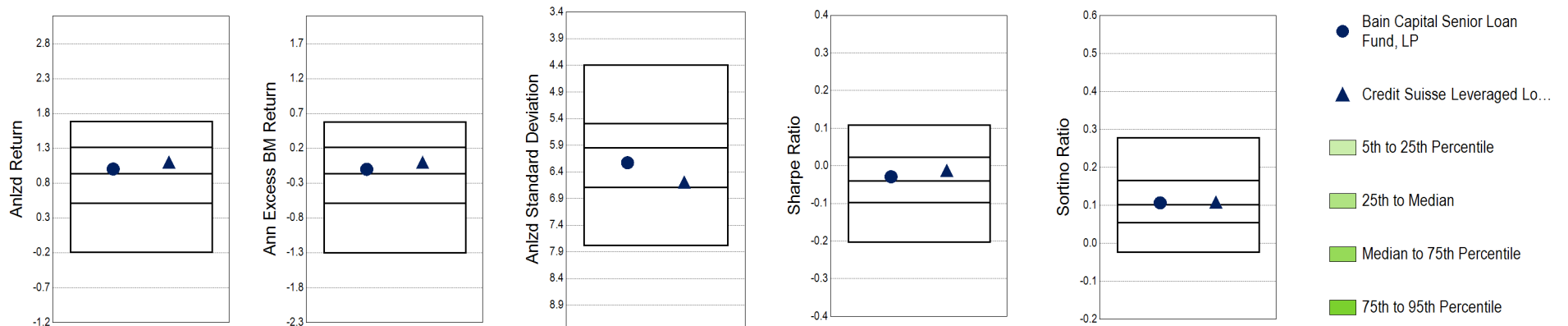
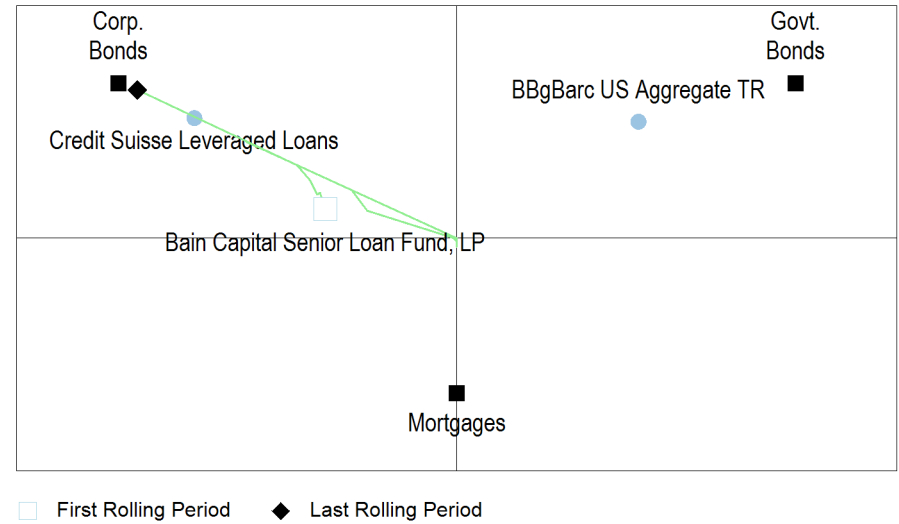
Los Angeles City Employees' Retirement System

BAIN CAPITAL SENIOR LOAN FUND, LP

Since Inception Risk Return



Since Inception Style Map

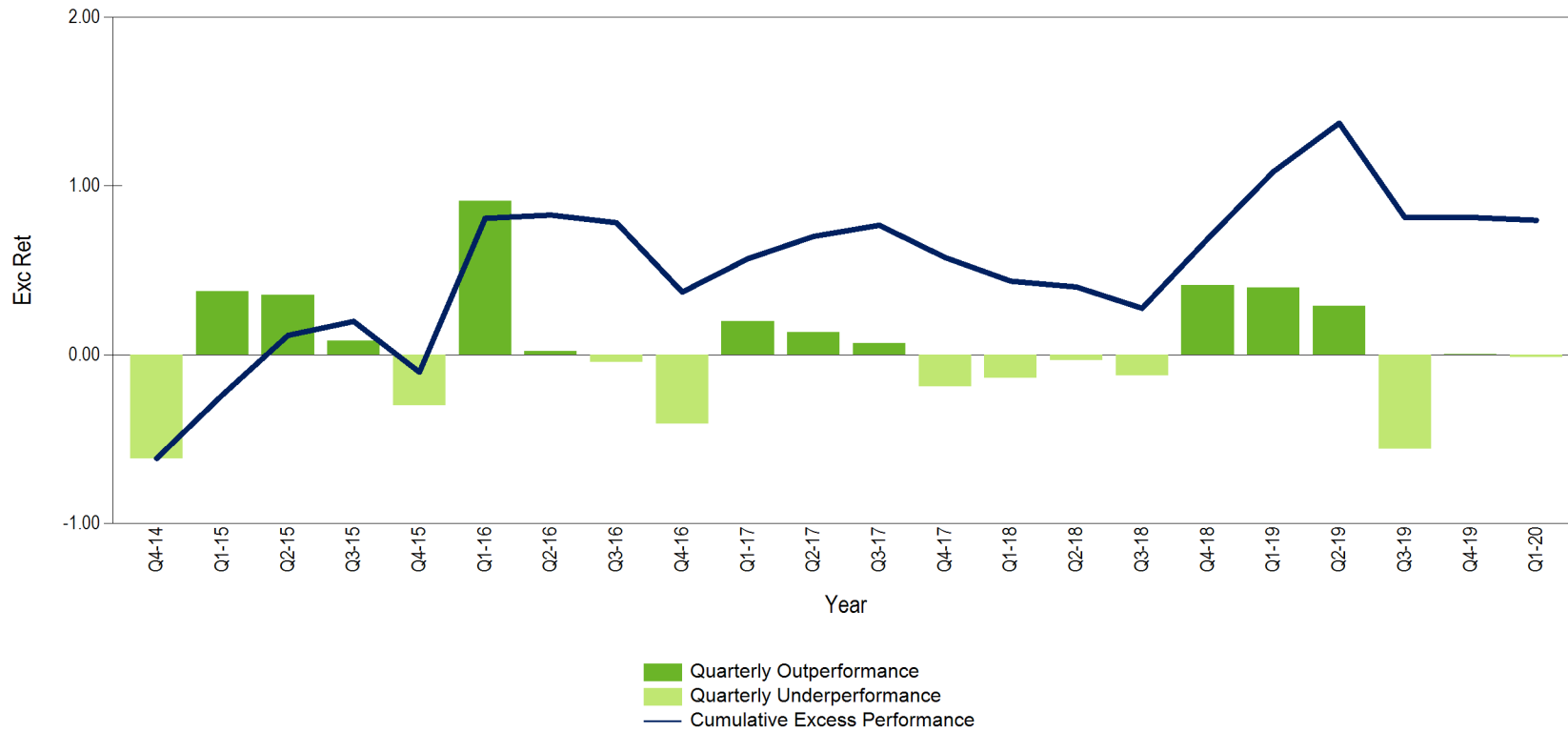


REAL ASSETS MANAGER PERFORMANCE

NEPC, LLC

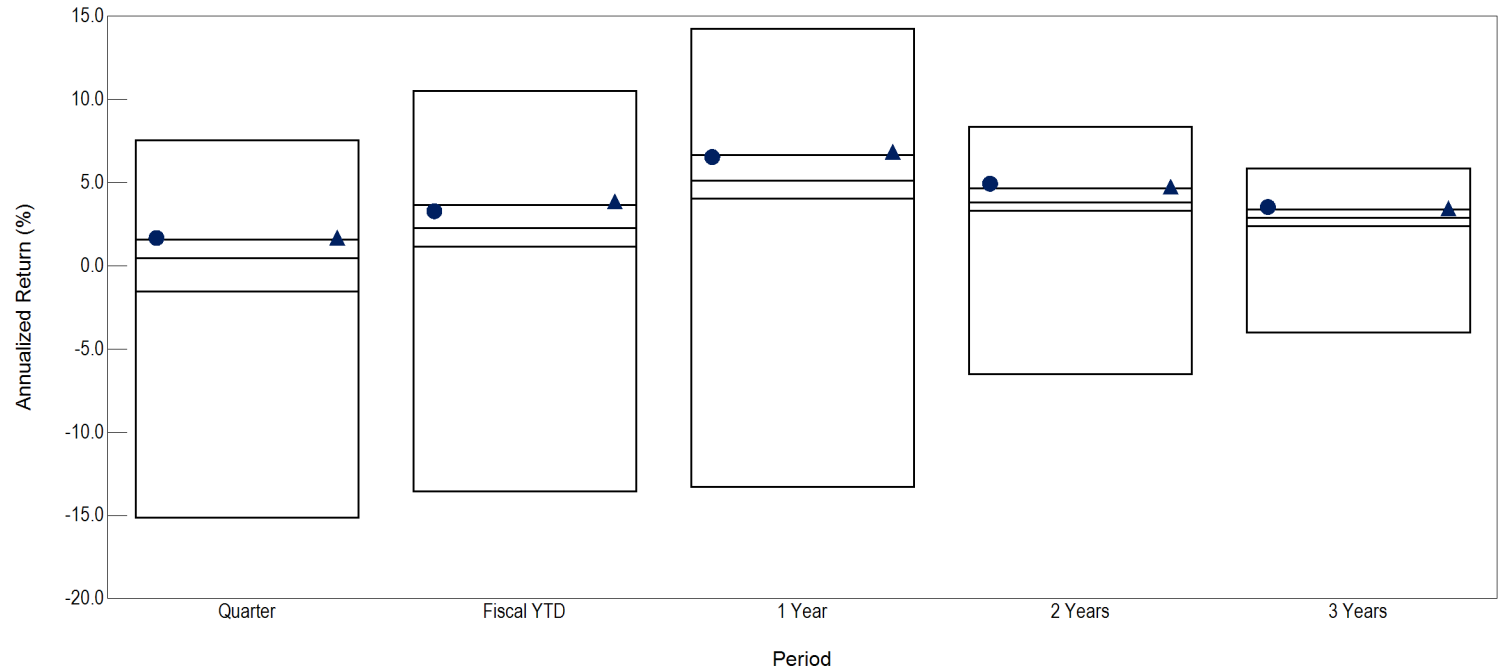
DFA US TIPS

Quarterly and Cumulative Excess Performance



DFA US TIPS

DFA US TIPS vs. eV US TIPS / Inflation Fixed Inc Net



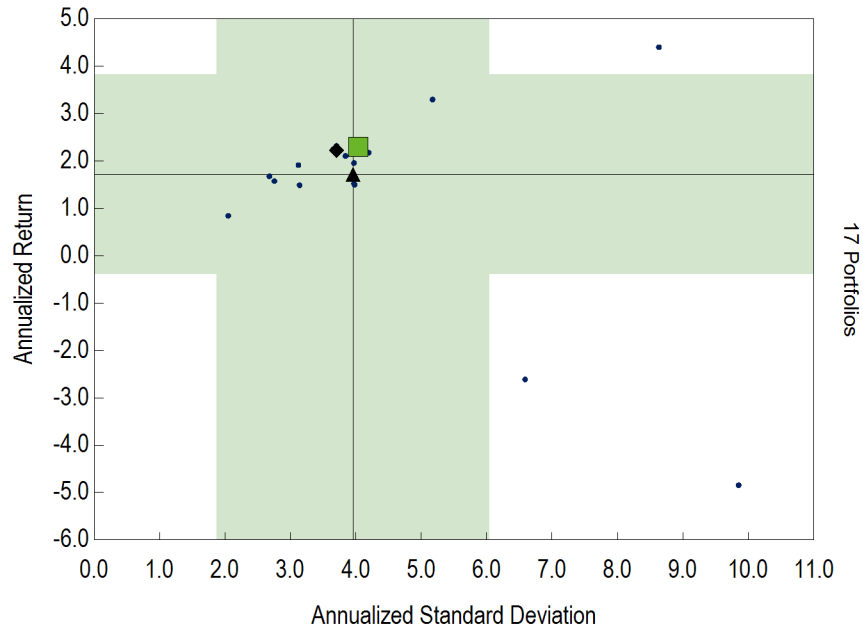
	Return (Rank)									
5th Percentile	7.54		10.51		14.25		8.35		5.86	
25th Percentile	1.63		3.68		6.69		4.69		3.43	
Median	0.51		2.31		5.14		3.85		2.93	
75th Percentile	-1.52		1.21		4.07		3.34		2.42	
95th Percentile	-15.11		-13.51		-13.26		-6.46		-3.96	
# of Portfolios	19		18		18		18		18	
● DFA US TIPS	1.68	(24)	3.28	(34)	6.54	(32)	4.94	(12)	3.54	(12)
▲ BBgBarc US TIPS TR	1.69	(23)	3.87	(20)	6.85	(19)	4.76	(16)	3.46	(15)



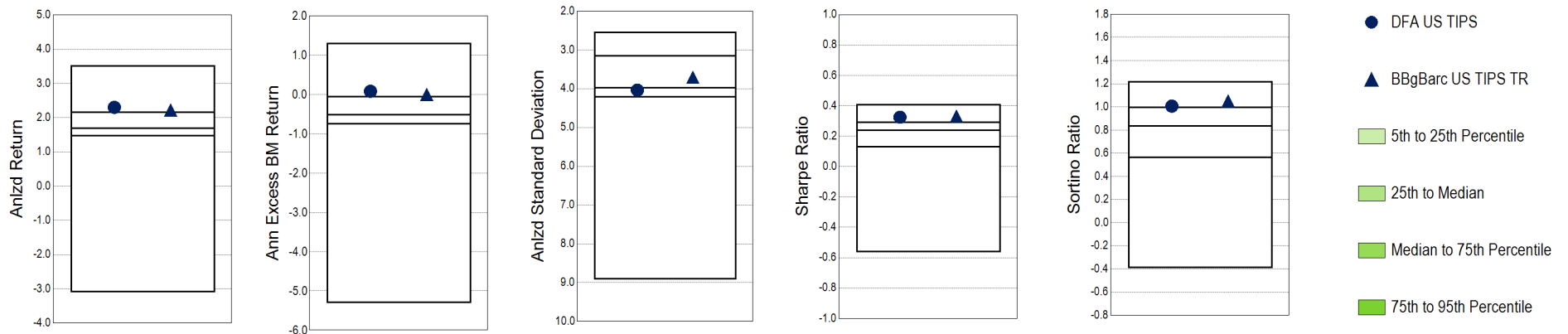
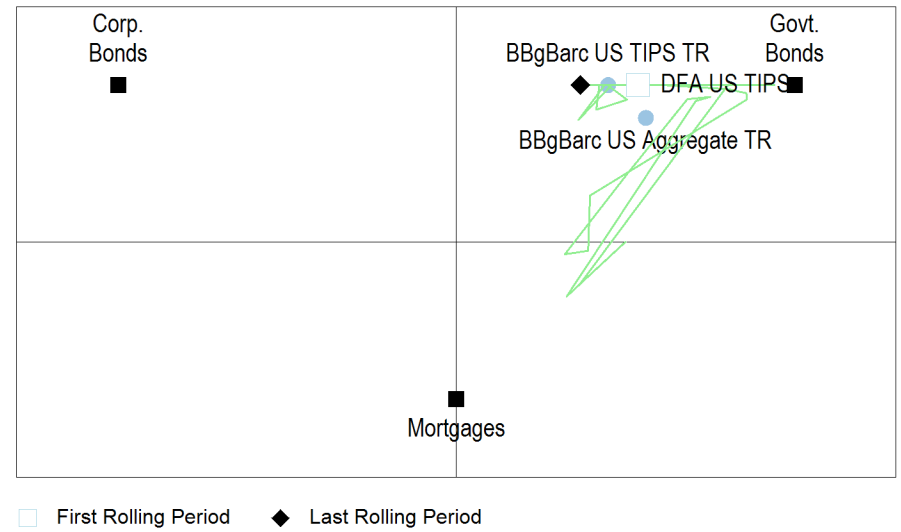
Los Angeles City Employees' Retirement System

DFA US TIPS

Since Inception Risk Return

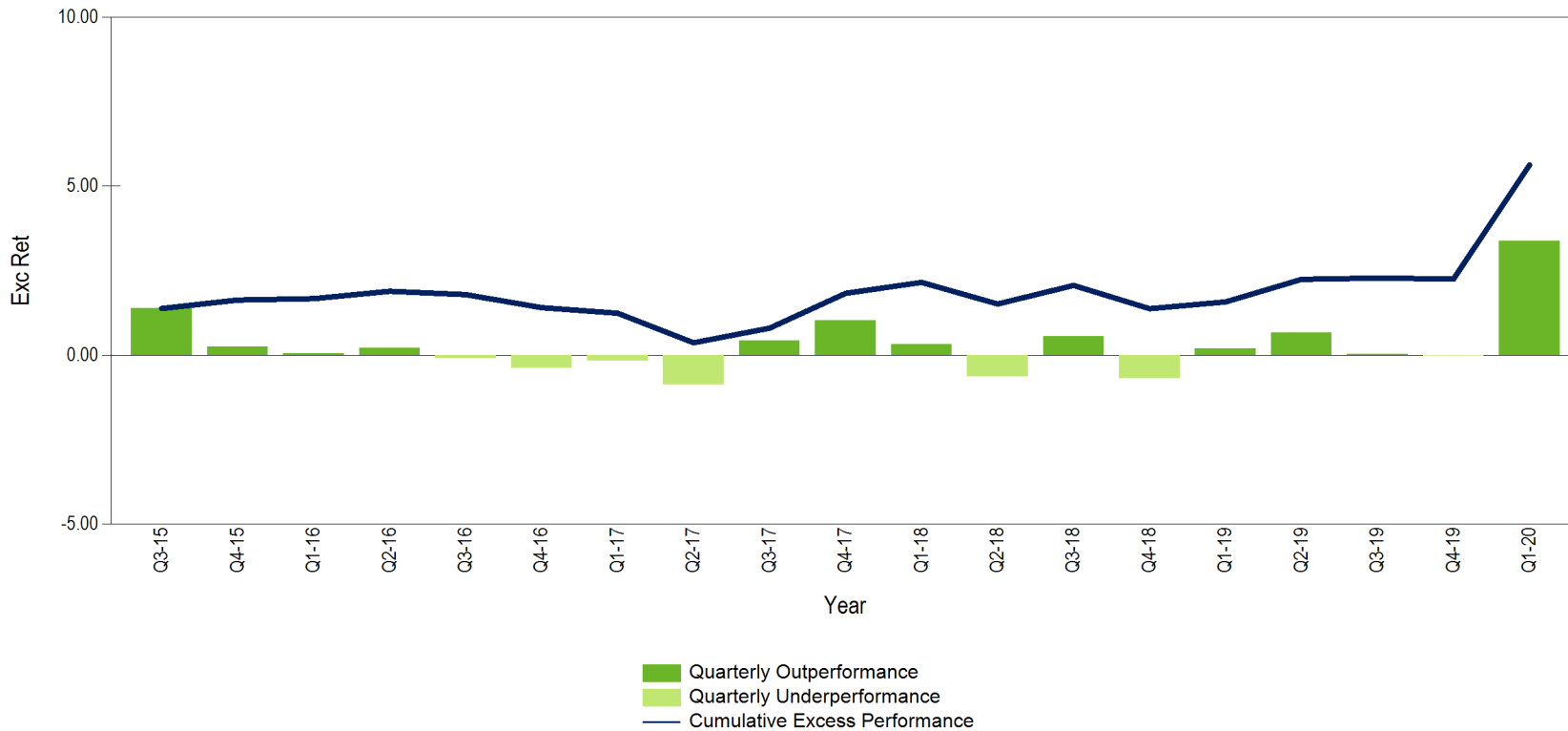


Since Inception Style Map



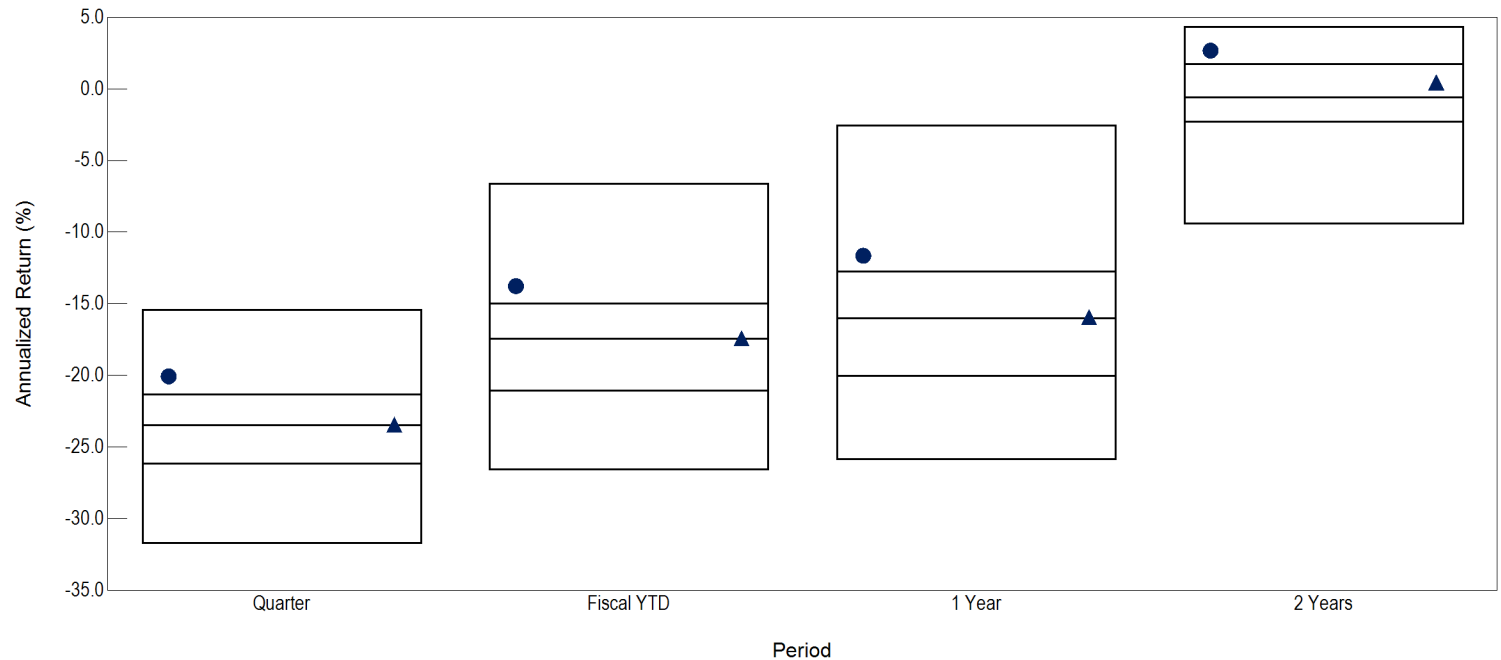
CENTERSQUARE US REAL ESTATE

Quarterly and Cumulative Excess Performance



CENTERSQUARE US REAL ESTATE

CenterSquare US Real Estate vs. eV US REIT Net



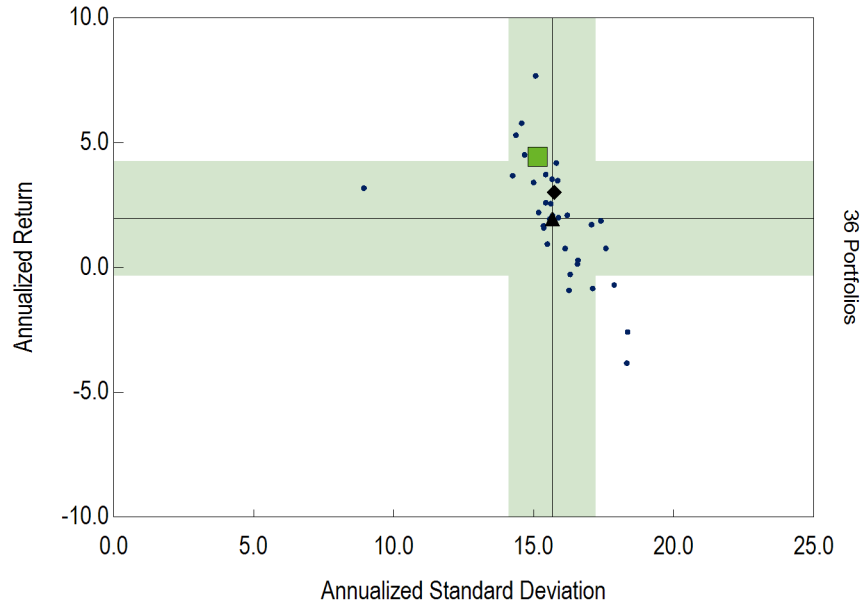
	Return (Rank)							
5th Percentile	-15.45		-6.64		-2.56		4.33	
25th Percentile	-21.29		-14.93		-12.70		1.77	
Median	-23.41		-17.40		-15.98		-0.53	
75th Percentile	-26.10		-21.01		-19.97		-2.24	
95th Percentile	-31.66		-26.52		-25.78		-9.34	
# of Portfolios	39		39		38		38	
● CenterSquare US Real Estate	-20.07	(19)	-13.77	(20)	-11.65	(23)	2.66	(18)
▲ FTSE NAREIT All Equity REIT	-23.44	(51)	-17.41	(51)	-15.93	(50)	0.45	(38)



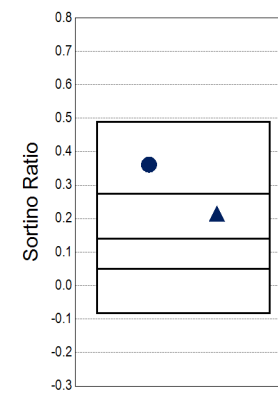
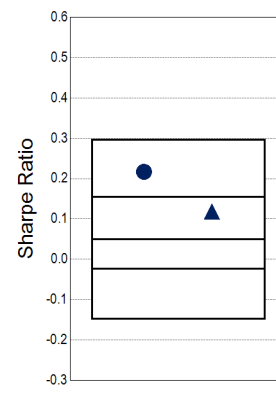
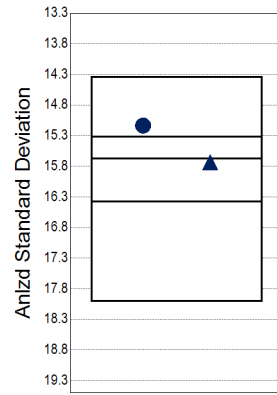
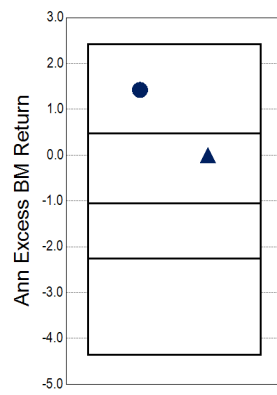
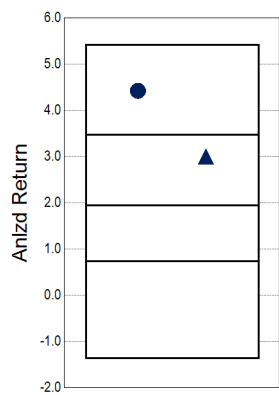
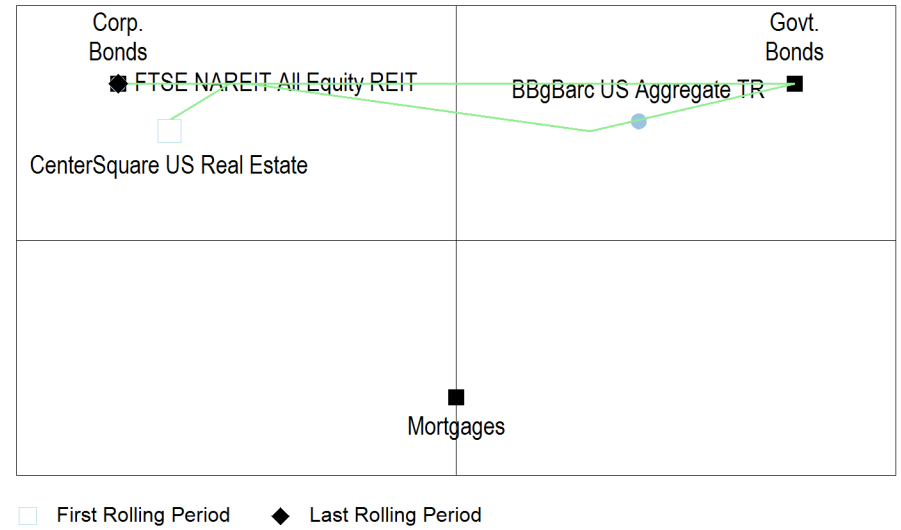
Los Angeles City Employees' Retirement System

CENTERSQUARE US REAL ESTATE

Since Inception Risk Return



Since Inception Style Map



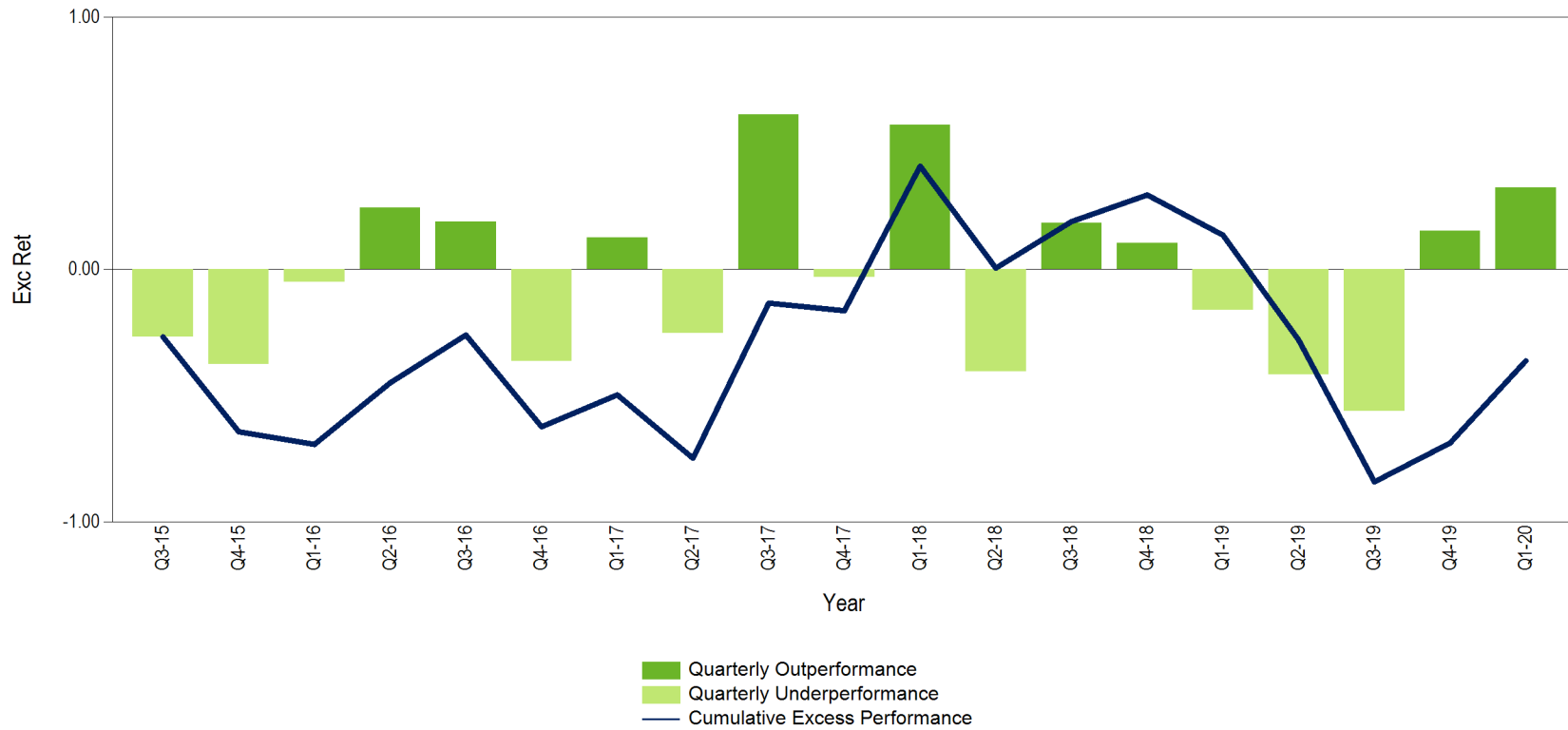
- CenterSquare US Real Estate
- ▲ FTSE NAREIT All Equity REIT
- 5th to 25th Percentile
- 25th to Median
- Median to 75th Percentile
- 75th to 95th Percentile



Los Angeles City Employees' Retirement System

CORE COMMODITY MGMT

Quarterly and Cumulative Excess Performance



DEFINITIONS

NEPC, LLC

POLICY INDEX DEFINITIONS

Policy Index: Current (adopted January 10, 2012) 24% Russell 3000 Index, 29% MSCI ACWI ex USA Net Index, 19% Bbg Barclays U.S. Aggregate Bond Index, 5% Credit Opportunities Blend, 10% Real Assets Blend, 12% Private Equity Blend, 1% Citi 3 Month T-Bill Index

U.S. Equity Blend: July 1, 2011 - Current: Russell 3000 Index; September 30, 1994 - December 31, 1999 S&P 500 Index 33.75, Russell 1000 Value Index 35%, Russell 1000 Growth 12.5%, Russell 2000 Value 12.5%, Russell 2000 Growth 6.25%

Core Fixed Income Blend: July 1, 2013 – Current: Bbg Barclays U.S. Aggregate Bond Index

Credit Opportunities Blend: 65% Bbg Barclays U.S. HY 2% Cap Index, 35% JPM EMBIGD Index

Public Real Assets Blend: 60% Bbg Barclays U.S. TIPS Index, 20% Bbg Commodity Index, 10% FTSE NAREIT All Equity Index, 10% Alerian MLP Index

Real Estate Blend: July 1, 2014 - Current NCREIF ODCE + 0.80%; July 1, 2012 - June 30, 2014 NCREIF Property Index Lagged +1%; October 1, 1994 - June 30, 2012 NCREIF Property Index Lagged

Private Equity Blend: February 1, 2012 – current: Russell 3000 + 3%; Inception – January 31, 2012: Russell 3000 + 4%

Note: Policy index definitions do not reflect the updated target asset allocation adopted on April 10, 2018.

Note: See Investment Policy for a full description of the indices listed.



GLOSSARY OF INVESTMENT TERMINOLOGY

Of Portfolios/Observations¹ - The total number of data points that make up a specified universe

Allocation Index³ - The allocation index measures the value added (or subtracted) to each portfolio by active management. It is calculated monthly: The portfolio asset allocation to each category from the prior month-end is multiplied by a specified market index.

Asset Allocation Effect² - Measures an investment manager's ability to effectively allocate their portfolio's assets to various sectors. The allocation effect determines whether the overweighting or underweighting of sectors relative to benchmark contributes positively or negatively to the overall portfolio return. Positive allocation occurs when the portfolio is over weighted in a sector that outperforms the benchmark and underweighted in a sector that underperforms the benchmark. Negative allocation occurs when the portfolio is over weighted in a sector that underperforms the benchmark and under weighted in a sector that outperforms the benchmark.

Agency Bonds (Agencies)³ - The full faith and credit of the United States government is normally not pledged to payment of principal and interest on the majority of government agencies issuing these bonds, with maturities of up to ten years. Their yields, therefore, are normally higher than government and their marketability is good, thereby qualifying them as a low risk-high liquidity type of investment. They are eligible as security for advances to the member banks by the Federal Reserve, which attests to their standing.

Asset Backed Securities (ABS)³ - Bonds which are similar to mortgage-backed securities but are collateralized by assets other than mortgages; commonly backed by credit card receivables, auto loans, or other types of consumer financing.

Attribution³ - Attribution is an analytical technique that allows us to evaluate the performance of the portfolio relative to the benchmark. A proper attribution tells us where value was added or subtracted as a result of the manager's decisions.

Average Effective Maturity⁴ - For a single bond, it is a measure of maturity that takes into account the possibility that a bond might be called back to the issuer.

For a portfolio of bonds, average effective maturity is the weighted average of the maturities of the underlying bonds. The measure is computed by weighing each bond's maturity by its market value with respect to the portfolio and the likelihood of any of the bonds being called. In a pool of mortgages, this would also account for the likelihood of prepayments on the mortgages.

Batting Average¹ - A measurement representing an investment manager's ability to meet or beat an index.

Formula: Divide the number of days (or months, quarters, etc.) in which the manager beats or matches the index by the total number of days (or months, quarters, etc.) in the period of question and multiply that factor by 100.

Brinson Fachler (BF) Attribution¹ - The BF methodology is a highly accepted industry standard for calculating the allocation, selection, and interaction effects within a portfolio that collectively explains a portfolio's underlying performance. The main advantage of the BF methodology is that rather than using the overall return of the benchmark, it goes a level deeper than BHB and measures whether the benchmark sector, country, etc. outperformed/or underperformed the overall benchmark.

Brinson Hood Beebower (BHB) Attribution¹ - The BHB methodology shows that excess return must be equal to the sum of all other factors (i.e., allocation effect, selection effect, interaction effect, etc.). The advantage to using the BHB methodology is that it is a highly accepted industry standard for calculating the allocation, selection, and interaction effects within a portfolio that collectively explains a portfolio's underlying performance.

Corporate Bond (Corp)⁴ - A debt security issued by a corporation and sold to investors. The backing for the bond is usually the payment ability of the company, which is typically money to be earned from future operations. In some cases, the company's physical assets may be used as collateral for bonds.

Correlation¹ - A range of statistical relationships between two or more random variables or observed data values. A correlation is a single number that describes the degree of relationship between variables.

Data Source: ¹InvestorForce, ²Interaction Effect Performance Attribution, ³NEPC, LLC, ⁴Investopedia, ⁵Hedgeco.net



GLOSSARY OF INVESTMENT TERMINOLOGY

Coupon⁴ – The interest rate stated on a bond when it is issued. The coupon is typically paid semiannually. This is also referred to as the "coupon rate" or "coupon percent rate."

Currency Effect¹ – Is the effect that changes in currency exchange rates over time affect excess performance.

Derivative Instrument² – A financial obligation that derives its precise value from the value of one or more other instruments (or assets) at the same point of time. For example, the relationship between the value of an S&P 500 futures contract (the derivative instrument in this case) is determined by the value of the S&P 500 Index and the value of a U.S. Treasury bill that matures at the expiration of the futures contract.

Downside Deviation¹ – Equals the standard deviation of negative return or the measure of downside risk focusing on the standard deviation of negative returns.

Formula:

Annualized Standard Deviation (Fund Return - Average Fund Return) where average fund return is greater than individual fund returns, monthly or quarterly.

Duration³ – Duration is a measure of interest rate risk. The greater the duration of a bond, or a portfolio of bonds, the greater its price volatility will be in response to a change in interest rates. A bond's duration is inversely related to interest rates and directly related to time to maturity.

Equity/Debt/Cash Ratio¹ – The percentage of an investment or portfolio that is in Equity, Debt, and/or Cash (i.e. A 7/89/4 ratio represents an investment that is made up of 7% Equity, 89% Debt, and 4% Cash).

Foreign Bond³ – A bond that is issued in a domestic market by a foreign entity, in the domestic market's currency. A foreign bond is most often issued by a foreign firm to raise capital in a domestic market that would be most interested in purchasing the firm's debt. For foreign firms doing a large amount of business in the domestic market, issuing foreign bonds is a common practice.

Hard Hurdle⁵ – is a hurdle rate that once beaten allows a fund manager to charge a performance fee on only the funds above the specified hurdle rate.

High-Water Mark⁴ – The highest peak in value that an investment fund/account has reached. This term is often used in the context of fund manager compensation, which is performance based. Some performance-based fees only get paid when fund performance exceeds the high-water mark. The high-water mark ensures that the manager does not get paid large sums for poor performance.

Hurdle Rate⁴ – The minimum rate of return on an investment required, in order for a manager to collect incentive fees from the investor, which is usually tied to a benchmark.

Interaction Effects² – The interaction effect measures the combined impact of an investment manager's selection and allocation decisions within a sector. For example, if an investment manager had superior selection and over weighted that particular sector, the interaction effect is positive. If an investment manager had superior selection, but underweighted that sector, the interaction effect is negative. In this case, the investment manager did not take advantage of the superior selection by allocating more assets to that sector. Since many investment managers consider the interaction effect to be part of the selection or the allocation, it is often combined with the either effect.

Median³ – The value (rate of return, market sensitivity, etc.) that exceeds one-half of the values in the population and that is exceeded by one-half of the values. The median has a percentile rank of 50.

Modified Duration³ – The percentage change in the price of a fixed income security that results from a change in yield.

Mortgage Backed Securities (MBS)³ – Bonds which are a general obligation of the issuing institution but are also collateralized by a pool of mortgages.

Municipal Bond (Muni)⁴ – A debt security issued by a state, municipality or county to finance its capital expenditures.

Net Investment Change¹ – Is the change in an investment after accounting for all Net Cash Flows.

Performance Fee⁴ – A payment made to a fund manager for generating positive returns. The performance fee is generally calculated as a percentage of investment profits, often both realized and unrealized.

Data Source: ¹InvestorForce, ²Interaction Effect Performance Attribution, ³NEPC, LLC, ⁴Investopedia, ⁵Hedgeco.net



GLOSSARY OF INVESTMENT TERMINOLOGY

Policy Index³ - A custom benchmark designed to indicate the returns that a passive investor would earn by consistently following the asset allocation targets set forth in this investment policy statement.

Price to Book (P/B)⁴ - A ratio used to compare a stock's market value to its book value. It is calculated by dividing the current closing price of the stock by the latest quarter's book value per share, also known as the "price-equity ratio".

Price to Earnings (P/E)³ - The weighted equity P/E is based on current price and trailing 12 months earnings per share (EPS).

Price to Sales (P/S)⁴ - A ratio for valuing a stock relative to its own past performance, other companies, or the market itself. Price to sales is calculated by dividing a stock's current price by its revenue per share for the trailing 12 months.

Return on Equity (ROE)⁴ - The amount of net income returned as a percentage of shareholders equity. Return on equity measures a corporation's profitability by revealing how much profit a company generates with the money shareholders have invested.

Selection (or Manager) Effect² - Measures the investment manager's ability to select securities within a given sector relative to a benchmark. The over or underperformance of the portfolio is weighted by the benchmark weight, therefore, selection is not affected by the manager's allocation to the sector. The weight of the sector in the portfolio determines the size of the effect—the larger the sector, the larger the effect is, positive or negative.

Soft Hurdle rate⁵ - is a hurdle rate that once beaten allows a fund manager to charge a performance fee based on the entire annualized return.

Tiered Fee¹ - A fee structure that is paid to fund managers based on the size of the investment (i.e. 1.00% fee on the first \$10M invested, 0.90% on the next \$10M, and 0.80% on the remaining balance).

Total Effects² - The active management (total) effect is the sum of the selection, allocation, and interaction effects. It is also the difference between the total portfolio return and the total benchmark return. You can use the active management effect to determine the amount the investment manager has added to a portfolio's return.

Total Return¹ - The actual rate of return of an investment over a specified time period. Total return includes interest, capital gains, dividends, and distributions realized over a defined time period.

Universe³ - The list of all assets eligible for inclusion in a portfolio.

Upside Deviation¹ - Standard Deviation of Positive Returns

Weighted Avg. Market Cap.⁴ - A stock market index weighted by the market capitalization of each stock in the index. In such a weighting scheme, larger companies account for a greater portion of the index. Most indexes are constructed in this manner, with the best example being the S&P 500.

Yield (%)³ - The current yield of a security is the current indicated annual dividend rate divided by current price.

Yield to Maturity³ - The discount rate that equates the present value of cash flows, both principal and interest, to market price.

Data Source: ¹InvestorForce, ²Interaction Effect Performance Attribution, ³NEPC, LLC, ⁴Investopedia, ⁵Hedgeco.net



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- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
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