Callan

March 31, 2016

North Dakota State Investment Board Pension Funds

Investment Measurement Service Quarterly Review

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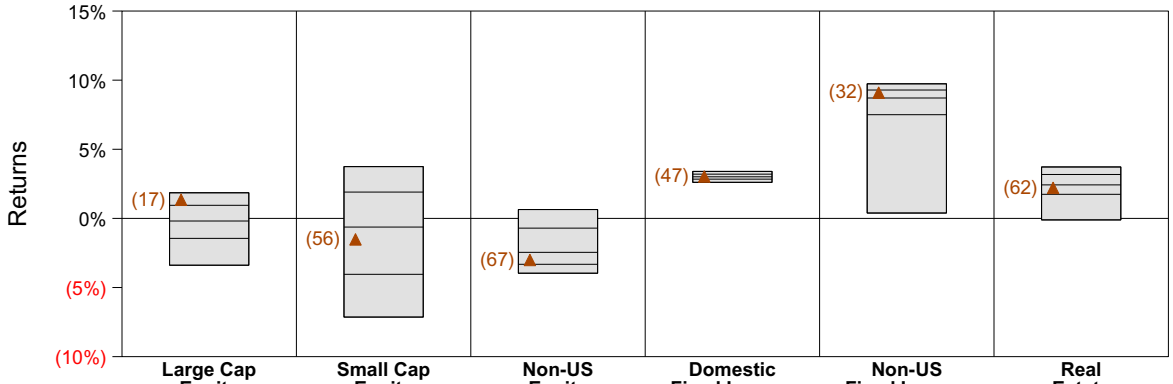
Market Overview
Active Management vs Index Returns

Market Overview

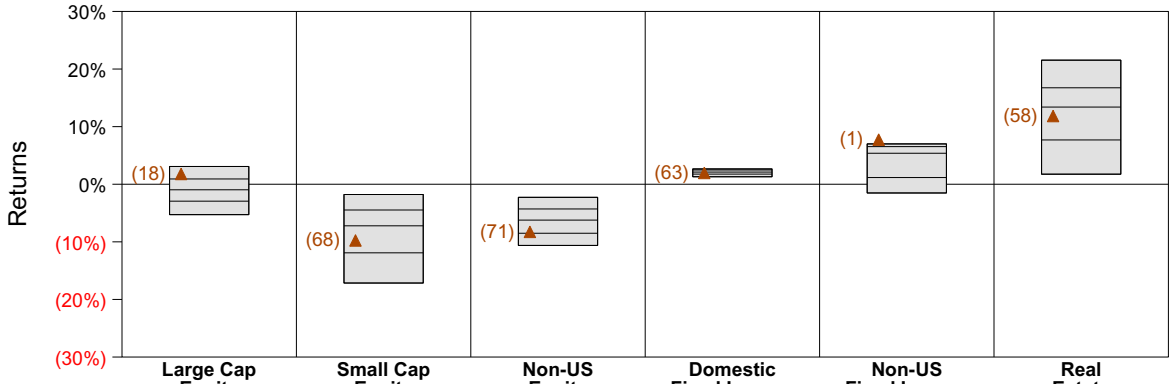
The charts below illustrate the range of returns across managers in Callan's Separate Account database over the most recent one quarter and one year time periods. The database is broken down by asset class to illustrate the difference in returns across those asset classes. An appropriate index is also shown for each asset class for comparison purposes. As an example, the first bar in the upper chart illustrates the range of returns for domestic equity managers over the last quarter. The triangle represents the S&P 500 return. The number next to the triangle represents the ranking of the S&P 500 in the Large Cap Equity manager database.

Range of Separate Account Manager Returns by Asset Class
One Quarter Ended March 31, 2016



	Large Cap Equity vs S&P 500	Small Cap Equity vs Russell 2000	Non-US Equity vs MSCI EAFE	Domestic Fixed Income vs Barclays Aggr Bd	Non-US Fixed Income vs Citi Non-US Govt	Real Estate vs NCREIF Index
10th Percentile	1.85	3.75	0.64	3.40	9.74	3.72
25th Percentile	0.95	1.90	(0.70)	3.20	9.29	3.18
Median	(0.19)	(0.63)	(2.46)	3.01	8.71	2.42
75th Percentile	(1.45)	(4.04)	(3.32)	2.84	7.50	1.74
90th Percentile	(3.39)	(7.14)	(3.97)	2.61	0.39	(0.11)
Index ▲	1.35	(1.52)	(3.01)	3.03	9.10	2.21

Range of Separate Account Manager Returns by Asset Class
One Year Ended March 31, 2016



	Large Cap Equity vs S&P 500	Small Cap Equity vs Russell 2000	Non-US Equity vs MSCI EAFE	Domestic Fixed Income vs Barclays Aggr Bd	Non-US Fixed Income vs Citi Non-US Govt	Real Estate vs NCREIF Index
10th Percentile	3.08	(1.78)	(2.27)	2.66	7.00	21.54
25th Percentile	0.92	(4.47)	(4.29)	2.48	6.53	16.75
Median	(0.96)	(7.22)	(6.23)	2.11	5.38	13.40
75th Percentile	(2.94)	(11.91)	(8.51)	1.76	1.16	7.69
90th Percentile	(5.28)	(17.15)	(10.63)	1.30	(1.52)	1.75
Index ▲	1.78	(9.76)	(8.27)	1.96	7.74	11.84

Callan

Capital Market Review

First Quarter 2016

Don't Believe the Hype (or the Markets)

ECONOMY

2 PAGE

The U.S. economy's expansion is now entering its seventh year. However, you'd hardly know it if you looked at the capital markets' reaction over the past nine months. First quarter GDP growth came in at a weak 0.5%, down from 1.4% the prior quarter.

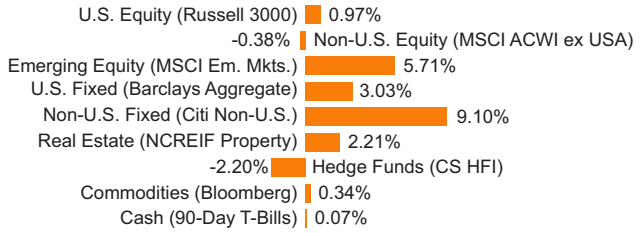
Progress Discounted

FUND SPONSOR

4 PAGE

Global financial markets made little progress in the first quarter. Corporate funds beat other fund types, due in part to their high U.S. fixed income exposure. Endowments/foundations trailed due to more exposure to non-U.S. equity and less to U.S. fixed income.

Broad Market Quarterly Returns



Sources: Barclays, Bloomberg, Citigroup, Credit Suisse Hedge Index, Merrill Lynch, MSCI, NCREIF, Russell Investment Group

Tale of Two Halves

U.S. EQUITY

6 PAGE

The first quarter of 2016 was a tale of two halves. The **S&P 500 Index** declined in the first half only to reverse course and post a positive quarterly return (+1.35%). Large capitalization companies held their lead over small cap, but in a trend of reversals, value overtook growth across capitalizations.

Mr. Draghi's Wild Ride

NON-U.S. EQUITY

9 PAGE

Non-U.S. equity markets endured a rocky January and February, but managed to rally in March to finish at a modest loss (**MSCI ACWI ex USA Index**: -0.38%). The **MSCI Emerging Markets Index** (+5.71%) bounced much higher than its developed counterpart (**MSCI World ex USA**: -1.95%).

More T-Bills, Please

U.S. FIXED INCOME

12 PAGE

Yields plummeted during a volatile first quarter. A dovish Fed fostered uncertainty over global economic growth. The **Barclays Aggregate Index** gained 3.03% and the **Barclays Corporate High Yield Index** was up 3.35%.

A Dole of Doves

NON-U.S. FIXED INCOME

15 PAGE

Sovereign debt surged in the first quarter, driven by risk-on sentiment and the U.S. dollar's relative weakness. The **Citi Non-U.S. World Government Bond Index** jumped 9.10%. The hard currency **JPM EMBI Global Diversified Index** rose 5.04% while the local currency **JPM GBI-EM Global Diversified** soared 11.02%.

Slow and Low

REAL ESTATE

17 PAGE

The **NCREIF Property Index** advanced 2.21% and the **NCREIF Open End Diversified Core Equity Index** earned 2.18%, the lowest quarterly return since 2010. Capital flows to core funds continued to decline, as more investors reached their allocation targets.

Drip, Drip, Drip

PRIVATE EQUITY

19 PAGE

Liquidity in the private equity market declined notably. Fundraising and company investments held relatively steady. Venture capital fundraising was surprisingly strong given the drop-off in IPO activity due to zig-zagging public equity markets.

Market Tremors Panic Hedge Funds

HEDGE FUNDS

20 PAGE

Investor pessimism over softening global growth slammed stocks and commodities. The **Credit Suisse Hedge Fund Index** sank 2.20% and the median manager in the **Callan Hedge Fund-of-Funds Database** fell 2.99%.

Strong Quarter Can't Save 2015

DEFINED CONTRIBUTION

21 PAGE

The Callan DC Index™ finished 2015 with a strong 3.50% gain in the fourth quarter. Nonetheless, the DC Index turned out a negative 2015 calendar year return: -0.34%, the weakest annual return since 2011.

Don't Believe the Hype (or the Markets)

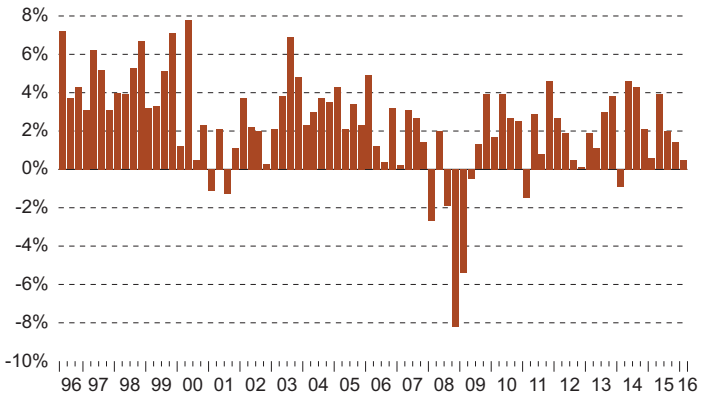
ECONOMY | Jay Kloepfer

The U.S. economy's expansion—while subpar relative to past expansions in the 1980s and 1990s—has been slowly building strength and is now entering its seventh year. However, you'd hardly know it if you looked at the capital markets' reaction over the past nine months. Concerns about China, a slowing global recovery, political uncertainty in more than a few countries, and an unclear path as to future interest rates have all spurred investors to swing wildly from lows to highs and back again, all while the broad underlying economic data remain solid.

The National Bureau of Economic Research tracks four monthly indicators in order to identify turning points in the economic cycles. Only one of those—industrial production—is declining, and that decline began back in 2014, when the collapse in oil prices hit the mining sector and the U.S. dollar began to rally, hampering U.S. manufacturing and exports. The other three indicators show no signs of a slowdown, let alone a decline: employment, personal incomes, and real business sales. Adding to this incongruity is the first report on GDP growth for the first quarter of 2016. It came in at a weak 0.5%, down from 1.4% in the fourth quarter of 2015. Almost all economic indicators have been more upbeat than GDP over the past year or two, suggesting that the sum has been less than the parts, that we are misrepresenting economic growth with our GDP calculation, or that we are misreading the headwinds to aggregate growth.

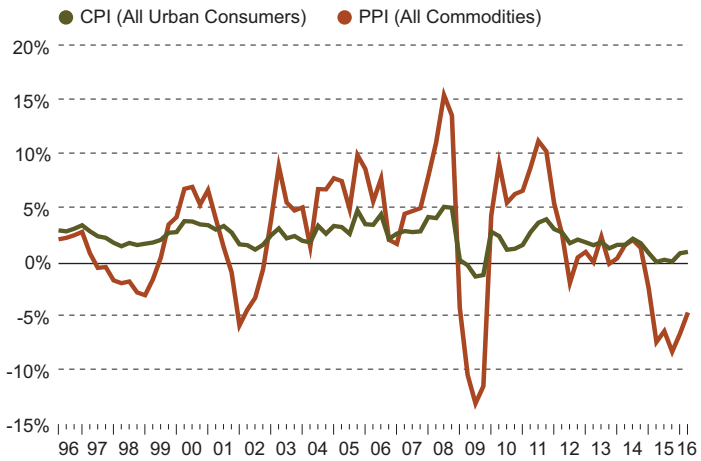
Real GDP growth has continued a familiar pattern, showing anemic first-quarter growth in five of the past six years. Such a pattern is a recent development in U.S. economic history, and suggests (to us) that part of this weakness may in fact be a problematic seasonal-adjustment process within the data calculation. Consumer spending grew 1.9% in the quarter, with the bulk of that growth occurring in services (2.7% gain). The brightest spot was a 14.8% jump in housing, which contributed almost 0.5% to total GDP growth. The residential housing market has finally turned the corner after the plunge that began in late 2005, and several markets on the coasts and in a few other

Quarterly Real GDP Growth (20 Years)



Source: Bureau of Economic Analysis

Inflation Year-Over-Year



Source: Bureau of Labor Statistics

large metro areas are seeing substantial gains in existing home prices and sales. However, housing was the only bright spot in private domestic investment as non-residential sectors suffered declines, led by a 10.7% drop in structures.

The plunge in oil prices early in 2016 triggered another sharp decline in energy-sector capital spending, a trend that has hampered the sector since the initial oil price collapse in 2014. The cause of the drop in equipment spending is less

clear, but may be traced to corporate caution following the stock market turmoil that began last summer and reappeared with a vengeance this past January and February.

The continuing drag from inventories was larger than expected in the first quarter, but on the plus side, it appears that the bulk of the inventory adjustment is now behind us. The rebound in energy prices in March may spell the end of the rout in the energy sector. These factors, combined with signs of continuing economic growth, give businesses confidence and are likely to limit the decline in business fixed investment. The forward-looking Institute for Supply Management activity indices, which measure sentiment for business investment in manufacturing and non-manufacturing areas, are both back above 50, the dividing line between expansion and contraction, and are at levels consistent with GDP growth in excess of 2%.

Concerns about China's growth and its role in restraining confidence elsewhere in the global economy have fueled negative investor sentiment and subsequent capital market volatility. China adopted a new Five-Year Plan with a goal of GDP growth averaging at least 6.5% during 2016-2020. History suggests that goal may be ambitious for an economy that has reached China's level of current development. Official figures stated growth averaging 7.8% per year from 2011-2015, but economists from Capital Economics, a research consultancy based in London, and other forecasters estimate that growth has been closer to 6.5%. A more reasonable estimate for China's economy for the next five years may be closer to 5%; however, a figure that far below the official target could spur further stimulus from the Chinese government, increasing the medium-term risks to growth.

The Long-Term View

Index	2016 1st Qtr	Periods ended December 31, 2015 Year	5 Yrs	10 Yrs	25 Yrs
U.S. Equity					
Russell 3000	0.97	0.48	12.18	7.35	10.03
S&P 500	1.35	1.38	12.57	7.31	9.82
Russell 2000	-1.52	-4.41	9.19	6.80	10.50
Non-U.S. Equity					
MSCI EAFE	-3.01	-0.81	3.60	3.03	5.40
MSCI Emerging Markets	5.71	-14.92	-4.80	3.61	–
S&P ex-U.S. Small Cap	0.52	5.92	5.51	5.33	6.80
Fixed Income					
Barclays Aggregate	3.03	0.55	3.25	4.51	6.15
90-Day T-Bill	0.07	0.05	0.07	1.24	2.93
Barclays Long G/C	7.30	-3.30	6.98	6.45	8.08
Citi Non-U.S. Govt	9.10	-5.54	-1.30	3.05	5.37
Real Estate					
NCREIF Property	2.21	13.33	12.18	7.76	8.05
FTSE NAREIT Equity	6.00	3.20	11.96	7.41	12.13
Alternatives					
CS Hedge Fund	-2.20	-0.71	3.55	4.97	–
Cambridge PE*	–	8.66	14.70	11.80	15.74
Bloomberg Commodity	0.42	-24.66	-13.47	-6.43	–
Gold Spot Price	16.54	-10.46	-5.70	7.41	4.02
Inflation – CPI-U	0.68	0.73	1.53	1.86	2.30

*Private equity data are time-weighted returns for periods ended September 30, 2015.

Sources: Barclays, Bloomberg, Citigroup, Credit Suisse, FTSE, MSCI, NCREIF, Russell Investment Group, Standard & Poor's, Thomson/Cambridge, Bureau of Economic Analysis.

The strong dollar has been a significant drag on U.S. exports and manufacturing. It has also certainly lowered the cost of imports, particularly energy. The dollar reached its most recent peak in January, but has since declined sharply. The rebound in commodity prices and a scaling back of expectations for the Fed to raise rates will continue to dictate the dollar's course over the next two years.

Recent Quarterly Indicators

Economic Indicators	1Q16	4Q15	3Q15	2Q15	1Q15	4Q14	3Q14	2Q14
Employment Cost–Total Compensation Growth	1.9%	2.0%	2.0%	2.0%	2.6%	2.2%	2.2%	2.0%
Nonfarm Business–Productivity Growth	-0.3%*	-2.2%	2.0%	3.1%	-0.8%	-1.7%	3.1%	2.4%
GDP Growth	0.5%	1.4%	2.0%	3.9%	0.6%	2.1%	4.3%	4.6%
Manufacturing Capacity Utilization	75.4%	75.4%	75.6%	75.5%	75.5%	76.0%	75.7%	75.1%
Consumer Sentiment Index (1966=100)	91.5	91.3	90.8	94.2	95.5	89.8	83.0	82.8

*Estimate.

Sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve, IHS Economics, Reuters/University of Michigan.

Progress Discounted

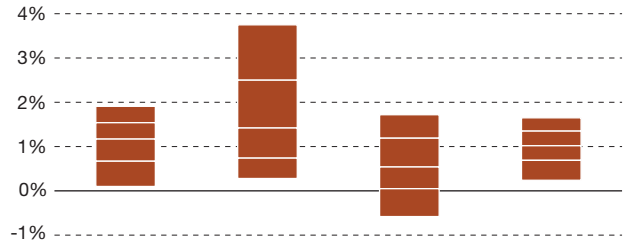
FUND SPONSOR | Rufash Lama

Global financial markets made little progress in the first quarter, as concerns over sluggish economic growth and falling oil prices led to sharp declines through mid-February. However, U.S. equity and fixed income markets staged a strong rally to end the quarter in the black. Non-U.S. equity markets (**MSCI ACWI ex USA Index**: -0.38%) lagged U.S. equity markets (**S&P 500 Index**: +1.35%) amid concerns over economic growth. The Federal Reserve's decision to delay rate hikes supported U.S. bonds (**Barclays Aggregate**: +3.03%), which nonetheless trailed the non-U.S. fixed income markets (**Citi Non-U.S. World Government Bond Index**: +9.10%).

The funded status of corporate plans deteriorated over the quarter as liabilities outgrew assets. The median and average funded status of U.S. corporate defined benefit plans fell to 80.0% and 79.9%, respectively, based on a peer group* of seven different funded ratio measures. While assets grew for the quarter, liabilities rose faster due to a fall in discount rates.

Looking at the Callan Fund Sponsor Quarterly Returns table, we see corporate funds outperformed other fund types at the median and across percentiles. Performance dispersion was highest in the 10th percentile: corporate funds gained 3.75%, due in part to their high U.S. fixed income exposure, while at the low end of the spectrum Taft-Hartley funds ended the quarter at +1.65%. Endowments/foundations trailed significantly in the 90th percentile at -0.58%. Overall, endowments/foundations performed the worst due to a relatively high exposure to non-U.S. equity and low exposure to U.S. fixed income. Public funds were buoyed by greater exposure to non-U.S. fixed income as accommodative central bank policies helped fixed income markets stage a strong rally. The Barclays Global Aggregate Index gained 5.90% for the quarter.

Callan Fund Sponsor Returns for the Quarter



	Public Database	Corporate Database	Endow/Fndn Database	Taft-Hartley Database
10th Percentile	1.91	3.75	1.72	1.65
25th Percentile	1.54	2.50	1.19	1.35
Median	1.17	1.42	0.54	1.02
75th Percentile	0.67	0.74	0.05	0.69
90th Percentile	0.10	0.28	-0.58	0.24

Source: Callan

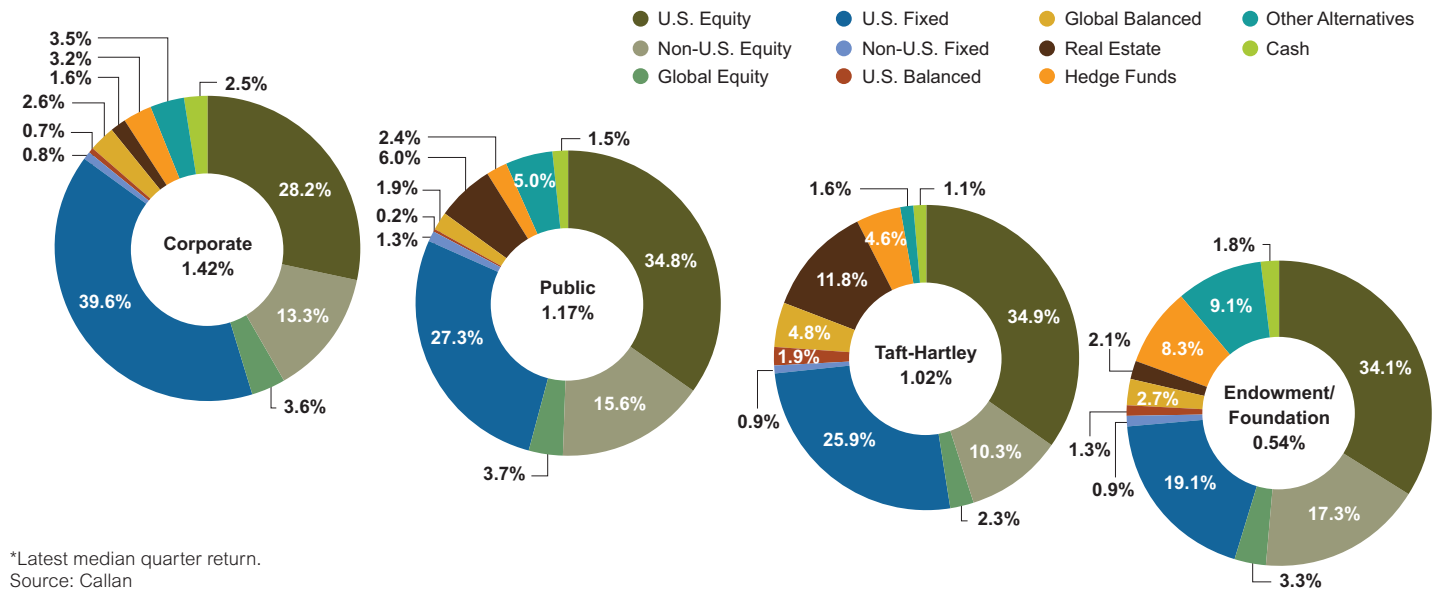
Callan Database Median and Index Returns for Periods ended March 31, 2016**

Fund Sponsor	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Public Database	**1.17**	**-1.03**	**6.02**	**6.41**	**5.39**	**6.09**
Corporate Database	**1.42**	**-1.91**	**5.47**	**6.41**	**5.54**	**6.17**
Endowments/Foundations Database	**0.54**	**-2.72**	**4.79**	**5.48**	**5.11**	**5.85**
Taft-Hartley Database	**1.02**	**-0.13**	**6.56**	**6.73**	**5.27**	**5.76**
Diversified Manager	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Asset Allocator Style	**0.76**	**-2.12**	**6.00**	**6.41**	**5.72**	**6.48**
U.S. Balanced Database	**1.46**	**-1.59**	**5.78**	**6.33**	**5.57**	**6.12**
Global Balanced Database	**0.45**	**-4.20**	**3.11**	**4.60**	**5.08**	**7.30**
60% Russell 3000 + 40% Barclays Agg	1.79	0.73	7.73	8.35	6.53	6.27
60% MSCI World + 40% Barclays Glbl Agg	2.15	-0.11	4.51	4.77	4.58	5.38

* The peer group includes funded ratio measures provided by large, institutional investment and actuarial consultants, as well as investment management firms.
**Returns less than one year are not annualized.
Sources: Callan, Barclays, MSCI, Russell Investment Group.

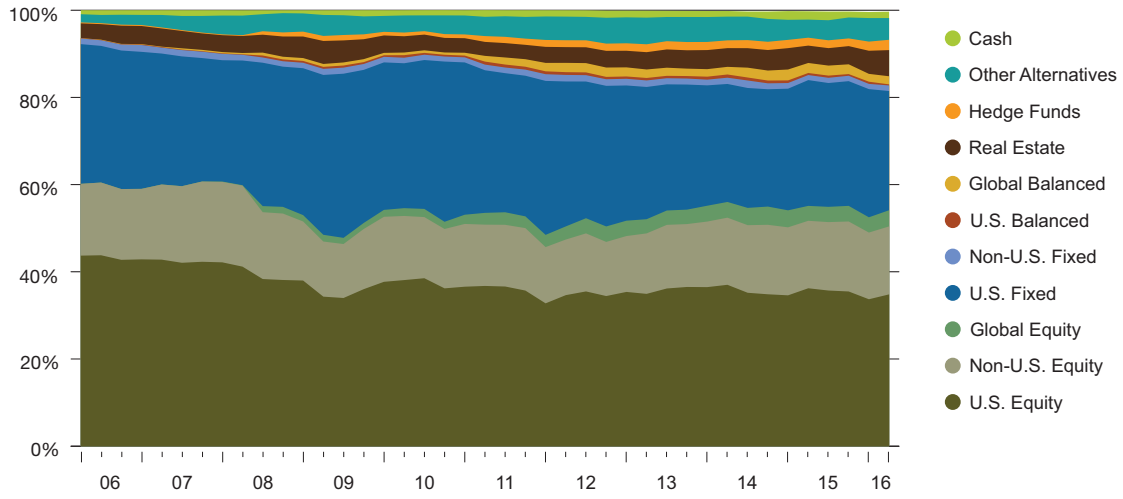
While one-year returns were consistently in the red, all fund types maintained performance in the +5% – +7% range for longer time periods. Taft-Hartley funds kept their lead over other fund types during three- and five-year periods, and corporate funds boasted the top returns over longer periods (10 and 15 years). Although the blended 60% Russell 3000 + 40% Barclays Aggregate Index (+1.79%) trailed the 60% MSCI World + 40% Barclays Global Aggregate Index (+2.15%) for the quarter, the U.S.-based benchmark continues to outperform over longer time periods. Callan's U.S. Balanced Database group maintained its edge over the Global Balanced Database group across all but the longest time periods shown in the table.

Callan Fund Sponsor Average Asset Allocation



*Latest median quarter return.
Source: Callan

Callan Public Fund Database Average Asset Allocation (10 Years)



Source: Callan

Tale of Two Halves

U.S. EQUITY | Lauren Mathias, CFA

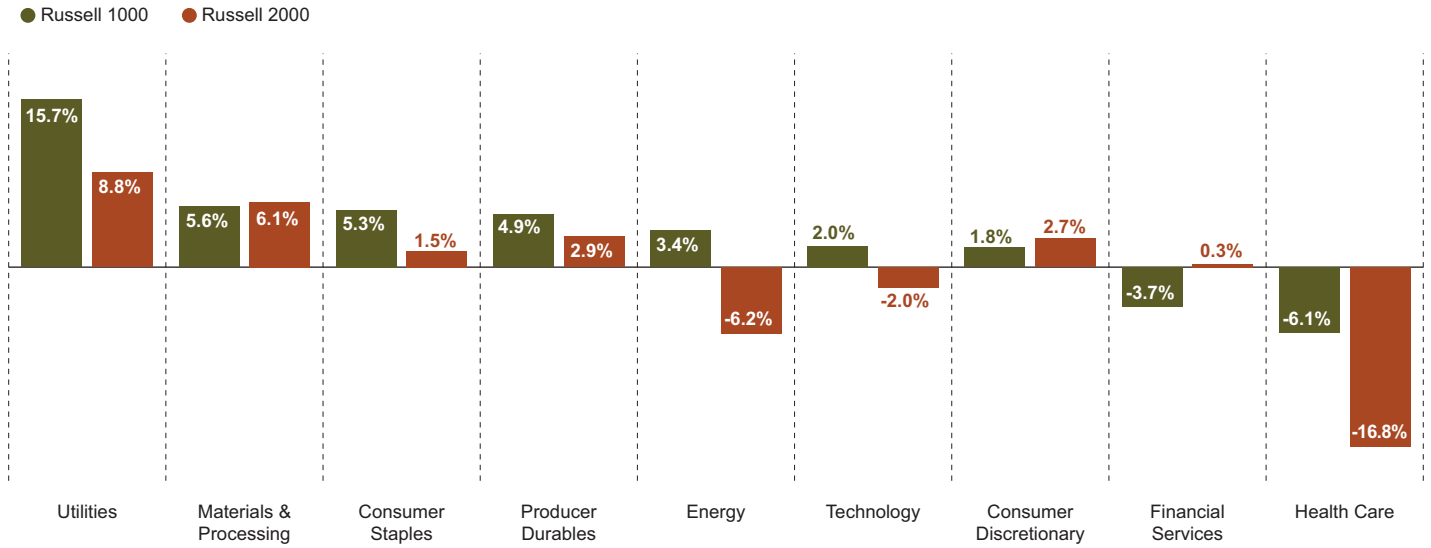
The first quarter of 2016 was a tale of two halves: the **S&P 500 Index** declined in the first half only to reverse course and post a positive quarterly return (+1.35%). Large cap companies held their lead over small cap, but in the trend of reversals, value overtook growth in all capitalizations. (**Russell 1000 Index**: +1.17% and **Russell 2000 Index**: -1.52%; **Russell 1000 Value Index:** +1.64% and **Russell 1000 Growth Index**: +0.74%).

Though the S&P 500 Index ended in positive territory, during the quarter performance dipped 10%. This is the first time since the Great Depression that the S&P fell to this depth only to rebound and end in the black. January was a disappointing month as economic concerns lingered from 2015. But in February and March, U.S. manufacturing activity grew, fourth-quarter 2015 GDP was revised to 1.4% from 1.0%, the labor force participation rate expanded to 63% (from 62.4%), and the U.S. economy added 215,000 jobs in March alone. Global concerns around the price of oil abated as the crude oil spot price ended the quarter at $38/barrel after bottoming at $26/barrel in mid-February. Investor sentiment rose in tandem with these positive developments. Despite some improvement, the U.S. Federal Reserve stated that global economic and financial developments continued to pose risks, and thus maintained the target range for the federal funds rate at 0.25%–0.50%.

Growth lost its lead over value. The difference was most significant within small cap (**Russell 2000 Growth Index**: -4.68% and **Russell 2000 Value Index**: +1.70). Micro and small cap companies declined while mid and large cap advanced (**Russell Microcap Index**: -5.43%, **Russell 2000 Index**: -1.52%, and **Russell Midcap Index**: +2.24%, **Russell 1000 Index**: +1.17%).

Sector performance over the quarter also revealed reversals. Cyclical areas like Energy, Industrials, and Materials added

Economic Sector Quarterly Performance



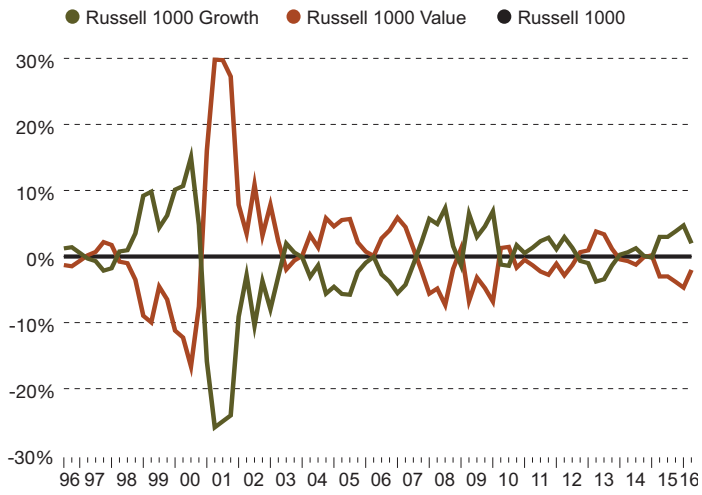
Source: Russell Investment Group

Note: As of the fourth quarter of 2015, the Capital Markets Review reports sector-specific returns using the Russell Global Sectors (RGS) classification system rather than the Global Industry Classification Standard (GICS) system. RGS uses a three-tier classification system containing nine sectors; GICS uses a four-tier system containing ten sectors.

value, and the interest rate-sensitive Utilities sector expanded, but typically defensive Health Care trailed. Not only did sectors turnabout, so did factors—valuation metrics such as price/book and yield outpaced growth metrics such as projected EPS growth and price momentum. Volatility of stocks, as measured by the daily VIX, increased during February's pullback, ending the quarter near average levels. Correlations remained well above long-term averages and spreads between stock returns were below average (both based on the S&P 500 universe)—a difficult environment for stock-picking strategies.

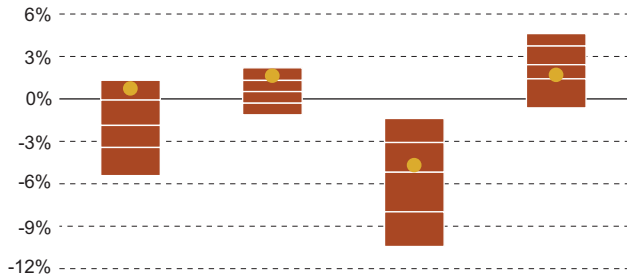
The U.S. equity market had a tumultuous start to the year, but found itself in positive territory by quarter end. This tale of two halves made it challenging for active management, with just 19% of large cap funds outperforming the S&P 500 Index during the quarter.

Rolling One-Year Relative Returns (vs. Russell 1000)



Source: Russell Investment Group

Callan Style Group Quarterly Returns



	Large Cap Growth Style	Large Cap Value Style	Small Cap Growth Style	Small Cap Value Style
10th Percentile	1.32	2.20	-1.38	4.62
25th Percentile	-0.08	1.31	-3.08	3.74
Median	-1.87	0.52	-5.18	2.42
75th Percentile	-3.43	-0.30	-7.98	1.42
90th Percentile	-5.42	-1.12	-10.43	-0.63
	R1000 Growth	**R1000 Value**	**R2000 Growth**	**R2000 Value**
Benchmark	0.74	1.64	-4.68	1.70

Sources: Callan, Russell Investment Group

U.S. Equity Index Characteristics as of March 31, 2016

	S&P 500	Rus 3000	Rus 1000	Rus Midcap	Rus 2500	Rus 2000
Cap Range Min ($mm)	1,401	5	147	147	5	5
Cap Range Max ($bn)	604.30	627.89	627.89	20.34	5.97	3.77
Number of Issues	504	2,978	1,017	818	2,468	1,957
% of Russell 3000	82%	100%	92%	27%	17%	7%
Wtd Avg Mkt Cap ($bn)	128.89	107.53	116.14	12.43	4.13	1.90
Price/Book Ratio	2.7	2.6	2.6	2.4	2.1	1.9
Forward P/E Ratio	16.7	17.0	16.8	18.4	18.5	18.8
Dividend Yield	2.2%	2.1%	2.1%	1.8%	1.7%	1.6%
5-Yr Earnings (forecasted)	10.3%	10.7%	10.5%	9.4%	11.5%	13.1%

Sources: Russell Investment Group, Standard & Poor's.

Callan Style Median and Index Returns* for Periods ended March 31, 2016

Large Cap Equity	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Large Cap Core Style	**-0.12**	**-0.84**	**11.55**	**11.43**	**7.32**	**6.67**
Large Cap Growth Style	**-1.87**	**0.44**	**13.05**	**11.51**	**8.10**	**6.14**
Large Cap Value Style	**0.52**	**-2.37**	**9.67**	**10.25**	**6.40**	**7.20**
Aggressive Growth Style	**-3.86**	**-1.09**	**11.81**	**9.50**	**7.24**	**6.65**
Contrarian Style	**0.34**	**-4.94**	**9.21**	**9.77**	**6.14**	**7.33**
Yield-Oriented Style	**2.30**	**-0.92**	**9.16**	**9.88**	**6.97**	**7.63**
Russell 3000	0.97	-0.34	11.15	11.01	6.90	6.38
Russell 1000	1.17	0.50	11.52	11.35	7.06	6.28
Russell 1000 Growth	0.74	2.52	13.61	12.38	8.28	6.03
Russell 1000 Value	1.64	-1.54	9.38	10.25	5.72	6.41
S&P Composite 1500	1.57	1.18	11.53	11.34	7.05	6.37
S&P 500	1.35	1.78	11.82	11.58	7.01	5.99
NYSE	1.33	-3.91	6.67	8.39	5.70	6.31
Dow Jones Industrials	2.20	2.08	9.29	10.27	7.54	6.55
Mid Cap Equity	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Mid Cap Core Style	**1.04**	**-3.68**	**10.56**	**10.37**	**7.71**	**9.87**
Mid Cap Growth Style	**-2.14**	**-7.69**	**9.55**	**8.50**	**7.47**	**8.31**
Mid Cap Value Style	**2.03**	**-4.34**	**9.72**	**10.02**	**7.85**	**10.16**
Russell Midcap	2.24	-4.04	10.45	10.30	7.45	9.11
S&P MidCap 400	3.79	-3.60	9.46	9.52	7.78	9.42
Small Cap Equity	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Small Cap Core Style	**-0.20**	**-6.50**	**9.29**	**9.75**	**7.07**	**10.28**
Small Cap Growth Style	**-5.18**	**-13.12**	**7.24**	**7.69**	**6.31**	**8.07**
Small Cap Value Style	**2.42**	**-4.93**	**8.92**	**9.09**	**6.92**	**10.77**
Russell 2000	-1.52	-9.76	6.84	7.20	5.26	7.65
S&P SmallCap 600	2.66	-3.20	10.39	10.41	6.99	9.60
NASDAQ	-2.43	0.55	15.63	13.28	8.78	7.67
Smid Cap Equity	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Smid Cap Broad Style	**0.09**	**-7.42**	**8.93**	**8.73**	**7.57**	**9.73**
Smid Cap Growth Style	**-3.51**	**-9.97**	**8.27**	**8.34**	**6.78**	**8.92**
Smid Cap Value Style	**3.00**	**-5.56**	**8.32**	**8.43**	**7.42**	**10.79**
Russell 2500	0.39	-7.31	8.16	8.58	6.47	8.76
S&P 1000	3.45	-3.47	9.75	9.80	7.51	9.46
Russell 3000 Sectors	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Consumer Discretionary	1.88	2.43	13.87	15.59	9.79	–
Consumer Staples	5.22	12.19	13.98	15.64	12.35	–
Energy	3.13	-18.92	-6.73	-3.91	2.57	–
Financial Services	-3.30	-2.34	10.03	9.91	0.69	–
Health Care	-7.05	-7.62	15.51	17.25	10.20	–
Materials & Processing	5.70	-4.62	6.38	5.70	5.56	–
Producer Durables	4.76	0.59	11.59	10.27	6.42	–
Technology	1.73	4.51	15.91	11.85	8.91	–
Utilities	15.23	15.78	10.78	11.98	8.16	–

*Returns less than one year are not annualized.
Sources: Callan, Dow Jones & Company, Russell Investment Group, Standard & Poor's, The NASDAQ Stock Market.

Mr. Draghi's Wild Ride

NON-U.S. EQUITY | Kevin Nagy

Non-U.S. equity markets endured a rocky January and February but rallied in March to finish at a modest loss (**MSCI ACWI ex USA Index**: -0.38%). Emerging markets (**MSCI Emerging Markets Index**: +5.71%) did better than their developed counterparts (**MSCI World ex USA**: -1.95%).

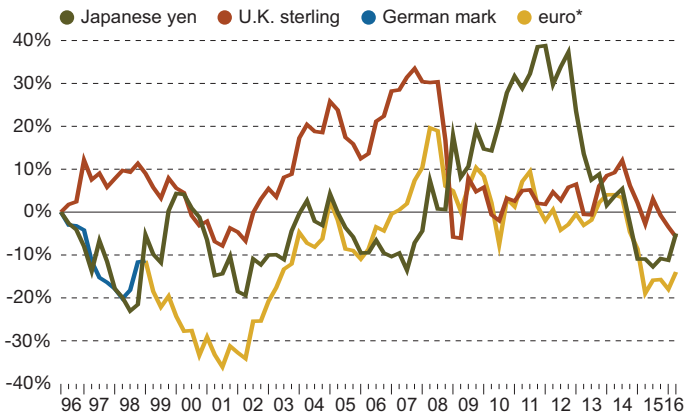
Falling oil prices, concerns about global economic growth, and declining corporate profits prompted a January sell-off, as many investors switched to a "risk-off" footing. Announcements of further European Central Bank (ECB) monetary stimulus and a modest rebound in commodity prices helped kick-start a comeback in February and March, but were not enough to drive the broader non-U.S. indices into the black.

The MSCI Emerging Markets Index (+5.71%) handily surpassed the MSCI World ex USA Index (-1.95%). Small cap stocks rode the rally further than large cap and posted a slight positive return, due to strong performance in the Utilities sector (**MSCI ACWI ex USA Small Cap Index**: +0.68%). Sector results were mixed: Energy (+9.81%) and Materials (+7.20%) were strongest while Health Care and Financials retreated (-7.50% and -4.96%, respectively).

European stocks were unable to complete their rebound despite further rate cuts and bond purchases by the ECB (**MSCI Europe Index**: -2.51%). The banking sector was hurt by slashed interest rates. Health Care also struggled, dropping 7.45% amid renewed political tension over rising drug prices. The Netherlands (+3.35%) was the top performer in Europe due to strong domestic performance from Energy (+15.73%) and Consumer Discretionary (+12.32%). Italy (-11.66%) was the worst performer; its Financial sector lost 25.84% due to Italian banks carrying massive amounts of non-performing loans on their balance sheets.

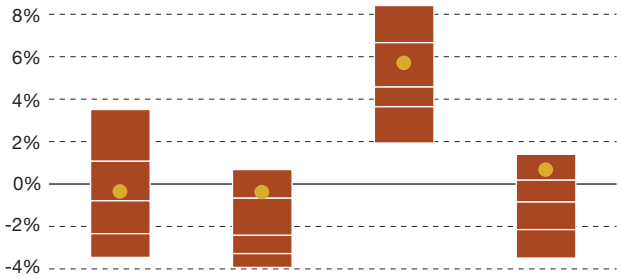
Southeast Asia and the Pacific (**MSCI Pacific Index**: -3.79%) underperformed Europe and other broad benchmarks. Japan (-6.52%) battled with tepid economic growth and large losses in the banking sector. The Financial sector was hit especially hard, losing 13.58%. Exporters also struggled due to the strengthening yen. Things were less gloomy in the rest of the region with New Zealand (+11.60%), Singapore (+5.05%), and Australia (+2.10%) benefitting from a commodities rally.

Major Currencies' Cumulative Returns (vs. U.S. Dollar)



*euro returns from 1Q99
Source: MSCI

Callan Style Group Quarterly Returns

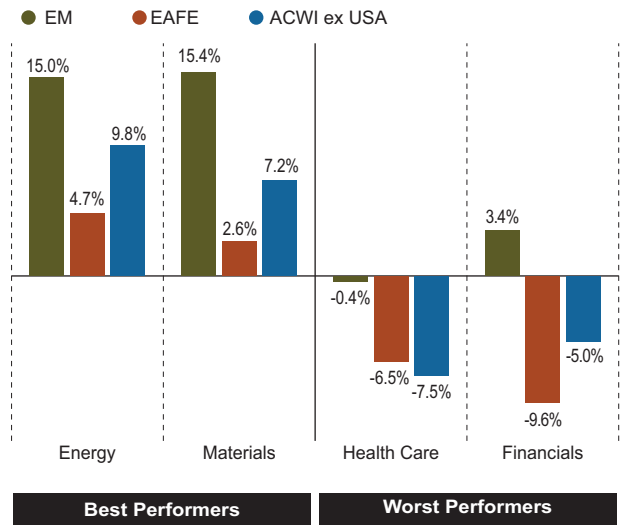


	Global Eq Style	Non-U.S. Eq Style	Emg Mkt Style	Small Cap Style
10th Percentile	3.47	0.64	8.37	1.36
25th Percentile	1.03	-0.71	6.62	0.14
Median	-0.83	-2.46	4.53	-0.89
75th Percentile	-2.38	-3.32	3.60	-2.19
90th Percentile	-3.50	-3.97	1.89	-3.53
	MSCI World	MSCI ACWI ex USA	MSCI Emg Mkts	MSCI ACWI ex USA SC
Benchmark	-0.35	-0.38	5.71	0.68

Sources: Callan, MSCI

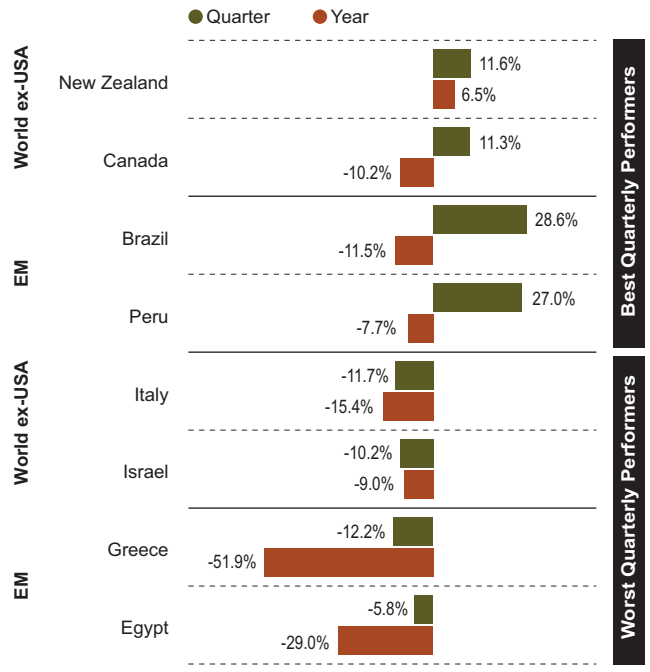
China (-4.80%) continued to struggle due to concerns over slowing growth and ineffective monetary policy. In an effort to sustain the economy's growth, Chinese authorities implemented selective capital controls to slow asset withdrawals and cut the required reserve ratio. Consumer Discretionary (-10.75%), Financials (-9.68%), and Health Care (-6.65%) were three significant detractors. In keeping with the rest of the world, surging commodity prices buoyed Energy (+6.75%) and Materials (+7.26%). Latin America was the big winner of the first quarter as Brazil, Colombia, Chile, and Peru (+28.58%, +22.49%, +13.25%, and +27.02%) made the **MSCI Latin America Index** the top-performing regional index at +19.23%. The real appreciated 12% against the dollar on the back of the commodities rally and the prospect of political change.

Quarterly Returns: Strong and Struggling Sectors



Source: MSCI

Quarterly and Annual Country Performance Snapshot



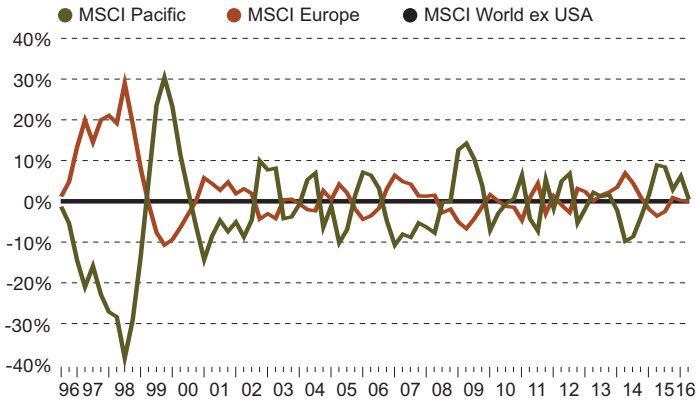
Source: MSCI

Quarterly Return Attribution for EAFE (U.S. Dollar)

Country	Total	Local	Currency	Wtg
Australia	2.10%	-3.44%	5.73%	7.16%
Austria	-0.52%	-5.17%	4.90%	0.18%
Belgium	-2.43%	-6.99%	4.90%	1.45%
Denmark	-0.96%	-5.75%	5.08%	1.99%
Finland	-5.19%	-9.62%	4.90%	1.01%
France	0.12%	-4.56%	4.90%	9.98%
Germany	-2.50%	-7.06%	4.90%	9.17%
Hong Kong	-0.55%	-0.47%	-0.08%	3.31%
Ireland	-4.15%	-8.63%	4.90%	0.50%
Israel	-10.16%	-12.84%	3.50%	0.71%
Italy	-11.66%	-15.79%	4.90%	2.18%
Japan	-6.52%	-12.66%	7.03%	22.48%
Netherlands	3.35%	-1.30%	4.90%	3.08%
New Zealand	11.60%	10.04%	1.42%	0.18%
Norway	1.72%	-4.94%	7.01%	0.58%
Portugal	3.24%	-1.59%	4.90%	0.17%
Singapore	5.05%	-0.20%	5.35%	1.36%
Spain	-4.09%	-8.57%	4.90%	3.15%
Sweden	-0.22%	-4.05%	4.00%	2.94%
Switzerland	-5.51%	-9.60%	4.53%	9.12%
U.K.	-2.34%	0.15%	-2.48%	19.30%

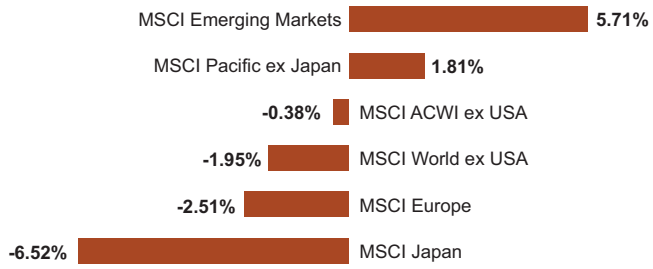
Sources: MSCI, Russell Investment Group, Standard & Poor's.

Rolling One-year Relative Returns (vs. MSCI World ex USA)



Source: MSCI

Regional Quarterly Performance (U.S. Dollar)



Source: MSCI

Style Median and Index Returns* for Periods ended March 31, 2016

Non-U.S. Equity	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Non-U.S. Equity Style	**-2.46**	**-6.23**	**3.54**	**3.45**	**3.00**	**6.32**
MSCI EAFE	-3.01	-8.27	2.23	2.29	1.80	4.35
MSCI EAFE (local)	-6.52	-11.17	6.47	6.20	1.72	2.76
MSCI ACWI ex USA	-0.38	-9.19	0.32	0.31	1.94	4.99
MSCI ACWI ex USA Growth	-0.34	-6.08	1.92	1.61	2.72	4.88
MSCI ACWI ex USA Value	-0.42	-12.31	-1.34	-1.03	1.11	5.03
Global Equity	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Global Equity Style	**-0.83**	**-3.45**	**7.27**	**7.11**	**5.15**	**6.48**
MSCI World	-0.35	-3.45	6.82	6.51	4.27	4.97
MSCI World (local)	-1.96	-4.56	8.86	8.38	4.12	4.19
MSCI ACWI	0.24	-4.34	5.53	5.22	4.08	5.10
Regional Equity	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
MSCI Europe	-2.51	-8.44	2.71	2.07	2.05	4.46
MSCI Europe (local)	-4.92	-10.63	5.87	5.42	2.56	2.97
MSCI Japan	-6.52	-7.06	3.84	4.03	-0.42	2.27
MSCI Japan (local)	-12.66	-12.90	10.21	10.57	-0.91	1.53
MSCI Pacific ex Japan	1.81	-9.65	-2.95	0.68	5.60	9.18
MSCI Pacific ex Japan (local)	-2.11	-10.23	3.69	4.53	4.67	6.72
Emerging/Frontier Markets	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Emerging Market Style	**4.53**	**-10.27**	**-3.47**	**-2.64**	**4.08**	**10.96**
MSCI Emerging Markets	5.71	-12.03	-4.50	-4.13	3.02	9.35
MSCI Emerging Markets (local)	2.73	-7.70	1.91	1.33	5.33	10.24
MSCI Frontier Markets	-0.94	-12.54	1.75	1.30	-0.78	--
Non-U.S. Small Cap Equity	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Non-U.S. Small Cap Style	**-0.89**	**2.36**	**7.94**	**7.23**	**5.28**	**10.34**
MSCI World ex USA Small Cap	0.60	1.99	5.54	3.84	3.09	8.66
MSCI ACWI ex USA Small Cap	0.68	-0.60	3.67	2.39	3.87	8.91
MSCI Emerging Market Small Cap	0.97	-9.20	-2.69	-2.56	5.07	10.96

*Returns less than one year are not annualized.
Sources: Callan, MSCI.

More T-Bills, Please

U.S. FIXED INCOME | Irina Sushch

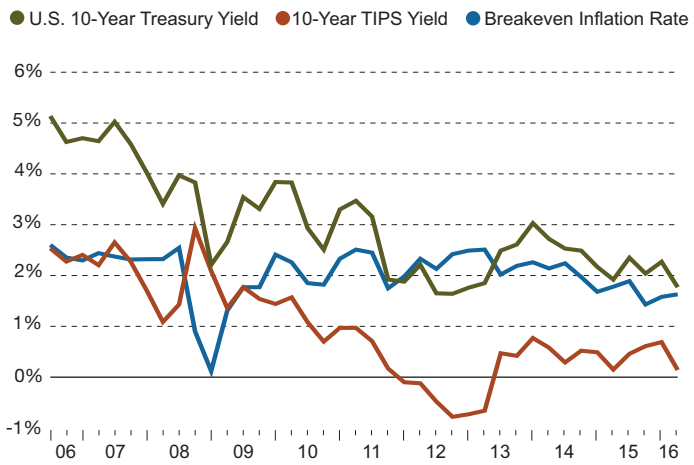
Yields plummeted during a volatile first quarter. A dovish Fed fostered uncertainty over global economic growth. **The Barclays Aggregate Index** gained 3.03% and the **Barclays Corporate High Yield Index** was up 3.35%.

Yields fell nearly 50 bps during a volatile first quarter. The yield curve flattened further in markets abundant with uncertainty over global economic growth. Investment grade credit, mortgage-backed (MBS), commercial mortgage-backed (CMBS), and high yield spreads all tightened, while asset-backed spreads widened.

Following December's federal funds rate hike, the Federal Reserve took on a neutral outlook. The Fed stated that financial and economic conditions are less favorable than they had been in December. The U.S. economy experienced modest growth despite improving employment and housing numbers. Fed chair Janet Yellen stated that the U.S. economy would have to get much worse before the Fed would consider the use of negative interest rates (six other central banks have implemented negative interest rates). The 10-year U.S. Treasury yield tumbled to 1.77%. The breakeven inflation rate (the difference between nominal and real yields) on 10-year Treasuries ticked up 1.63% as TIPS fell 55 bps, in line with their nominal counterparts.

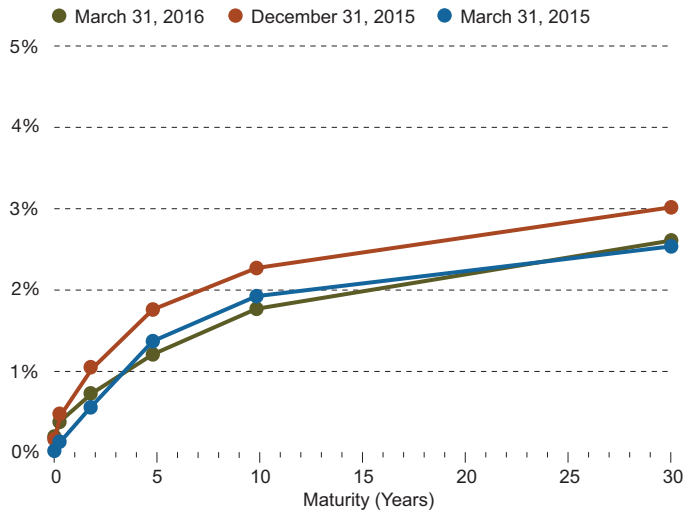
Sectors in the Barclays Aggregate posted positive returns across the board. CMBS outperformed like-duration Treasuries by 0.58% and rose 3.61% for the quarter. Credit was the highest returning sector (+3.92%), but only beat like-duration Treasuries

Historical 10-Year Yields



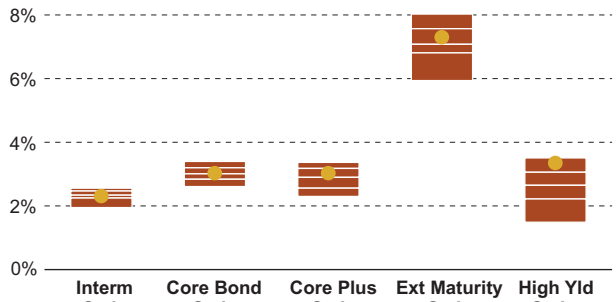
Source: Bloomberg

U.S. Treasury Yield Curves



Source: Bloomberg

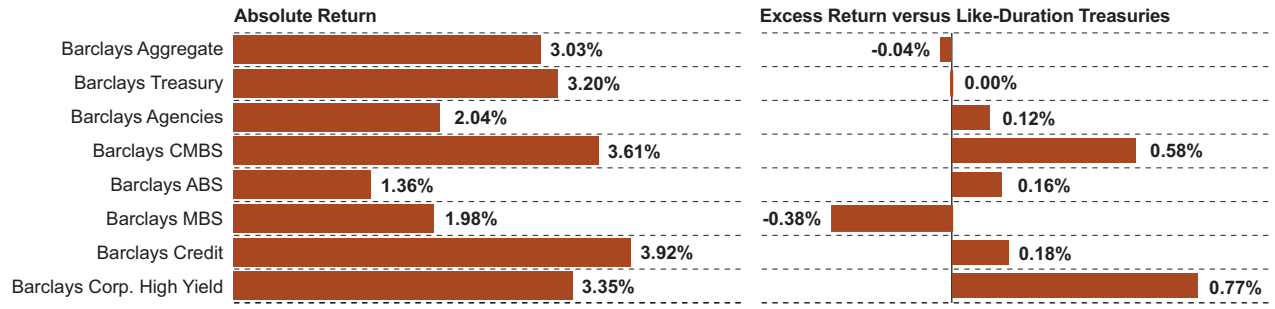
Callan Style Group Quarterly Returns



	Interm Style	Core Bond Style	Core Plus Style	Ext Maturity Style	High Yld Style
10th Percentile	2.56	3.40	3.37	8.03	3.51
25th Percentile	2.47	3.20	3.18	7.57	3.06
Median	2.34	3.01	2.90	7.08	2.65
75th Percentile	2.25	2.84	2.56	6.81	2.22
90th Percentile	1.95	2.61	2.30	5.94	1.49
	Barclays Interm Agg	Barclays Agg	Barclays Agg	Barclays Long G/C	Barclays High Yld
Benchmark	2.31	3.03	3.03	7.30	3.35

Sources: Barclays, Callan

Fixed Income Index Quarterly Returns

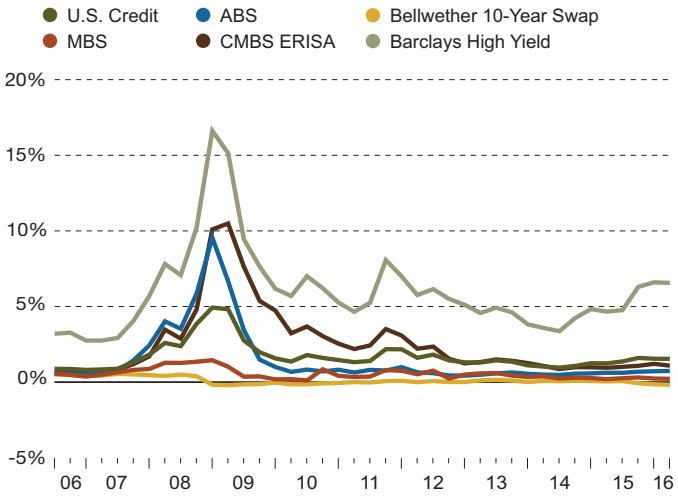


Source: Barclays

by 0.18%. MBS was the only sector to trail like-duration Treasuries (down by 0.38%), yet still rose 1.98%. Investment grade Financials, hurt by worries over persistent low or negative interest rates, underperformed like-duration Treasuries by nearly 100 bps; Industrials, buoyed by a rebound in commodity prices, outperformed by 70 bps.

High yield corporate bonds rebounded from severe underperformance in January and early February (down 5% through February 11) to finish in the black. The Barclays Corporate High Yield Index was up 3.35%, outpacing Treasuries by 77 bps. Including an upsurge in issuance in the last few weeks of the quarter, new high yield issuance was $35.9 billion—60% lower than one year ago.

Effective Yield Over Treasuries



Source: Barclays

U.S. Fixed Income Index Characteristics as of March 31, 2016

Barclays Indices	Yield to Worst	Mod Adj Duration	Avg Maturity	% of Barclays G/C	% of Barclays Agg
Barclays Aggregate	2.16	5.47	7.79		100.00
Barclays Govt/Credit	2.09	6.48	8.73	100.00	69.44
Intermediate	1.63	4.04	4.39	78.18	54.29
Long-Term	3.74	15.22	24.30	21.82	15.15
Barclays Govt	1.31	5.96	7.29	56.54	39.26
Barclays Credit	3.10	7.15	10.61	43.46	30.18
Barclays MBS	2.35	3.06	5.70		28.21
Barclays ABS	1.57	2.31	2.47		0.50
Barclays CMBS	2.43	5.23	5.87		1.76
Barclays Corp High Yield	8.18	4.22	6.25		

Source: Barclays

Callan Style Median and Index Returns* for Periods ended March 31, 2016

Broad Fixed Income	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Core Bond Style	**3.01**	**2.11**	**2.76**	**4.22**	**5.35**	**5.41**
Core Bond Plus Style	**2.90**	**1.35**	**2.65**	**4.47**	**5.76**	**5.97**
Barclays Aggregate	3.03	1.96	2.50	3.78	4.90	4.97
Barclays Govt/Credit	3.47	1.75	2.42	4.04	4.93	5.03
Barclays Govt	3.12	2.37	2.11	3.42	4.52	4.57
Barclays Credit	3.92	0.93	2.86	5.00	5.70	5.79
Citi Broad Investment Grade	3.04	1.93	2.49	3.78	4.98	5.04
Long-Term	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Extended Maturity Style	**7.08**	**0.36**	**4.95**	**8.90**	**8.14**	**7.74**
Barclays Long Govt/Credit	7.30	0.39	4.81	8.51	7.57	7.38
Barclays Long Govt	8.06	2.80	6.04	9.52	7.88	7.43
Barclays Long Credit	6.82	-1.08	4.10	7.77	7.25	7.40
Citi Pension Discount Curve	9.21	1.02	7.27	11.67	9.36	9.74
Intermediate-Term	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Intermediate Style	**2.34**	**2.11**	**2.00**	**3.30**	**4.82**	**4.86**
Barclays Intermediate Aggregate	2.31	2.20	2.14	3.11	4.53	4.62
Barclays Intermediate Govt/Credit	2.45	2.06	1.83	3.01	4.34	4.46
Barclays Intermediate Govt	2.28	2.21	1.52	2.48	3.97	4.03
Barclays Intermediate Credit	2.70	1.82	2.36	3.98	5.16	5.26
Short-Term	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Defensive Style	**1.01**	**1.26**	**1.16**	**1.59**	**3.13**	**3.28**
Active Duration Style	**2.78**	**2.22**	**2.23**	**3.83**	**4.84**	**5.05**
Money Market Funds (net of fees)	0.01	0.02	0.01	0.01	1.07	1.32
ML Treasury 1–3-Year	0.90	0.92	0.77	0.87	2.48	2.71
90-Day Treasury Bills	0.07	0.12	0.07	0.08	1.15	1.51
High Yield	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
High Yield Style	**2.65**	**-2.87**	**2.37**	**5.17**	**6.87**	**7.59**
Barclays Corporate High Yield	3.35	-3.69	1.84	4.93	7.01	7.38
ML High Yield Master	3.23	-3.90	1.76	4.71	6.78	7.20
Mortgage/Asset-Backed	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Mortgage Style	**1.91**	**2.40**	**2.94**	**3.77**	**5.14**	**5.29**
Barclays MBS	1.98	2.43	2.70	3.24	4.85	4.85
Barclays ABS	1.36	1.71	1.39	2.46	3.40	3.87
Barclays CMBS	3.61	2.80	2.84	4.41	5.63	5.82
Municipal	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Barclays Muni	1.67	3.98	3.63	5.59	4.86	4.97
Barclays Muni 1–10-Year	1.24	2.86	2.50	3.68	4.21	4.17
Barclays Muni 3-Year	0.77	1.54	1.31	1.80	3.07	3.11
TIPS	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Barclays TIPS Full Duration	4.46	1.51	-0.71	3.02	4.62	5.49
Barclays TIPS 1-10 Year	3.60	1.84	-0.72	1.88	4.00	4.78

*Returns for less than one year are not annualized.

Sources: Barclays, Callan, Citigroup, Merrill Lynch.

A Dole of Doves

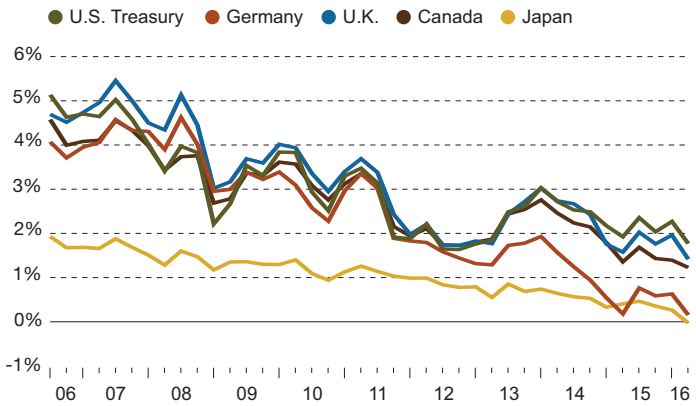
NON-U.S. FIXED INCOME | Kyle Fekete

Sovereign debt rallied in the first quarter, driven by risk-on sentiment and the impact of the U.S. dollar's relative weakness. The **Citi Non-U.S. World Government Bond Index** jumped 9.10% (+4.16% on a hedged basis). The hard currency **JPM EMBI Global Diversified Index** rose 5.04% while the local currency **JPM GBI-EM Global Diversified** soared 11.02%.

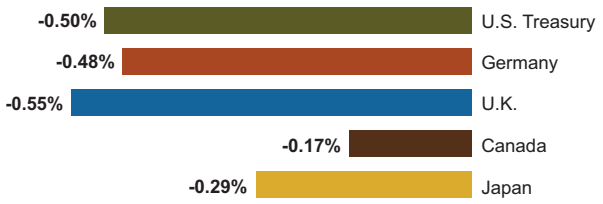
The U.S. dollar weakened versus most currencies during the quarter, providing a tailwind to unhedged foreign bond returns. The yen gained 7% versus the dollar as investors sought its safe-haven status amid market turbulence in China and concerns over the health of the European banking sector. The euro was also stronger versus the dollar (+5%). In March, the ECB continued its accomodative stance, slashing interest rates and increasing asset purchases. For the first time, the ECB included non-bank investment grade corporate bonds in its asset purchase program. Interest rates fell across developed markets, further bolstering returns. The **Barclays Global Aggregate** rose 5.90% (+3.28% hedged).

On an unhedged basis, returns approached 10% for many countries, including Japan, which was up 12% on the back of falling rates combined with yen strength. Yield on the Japanese 10-year bond reached negative territory after a surprise move by the Bank of Japan (BoJ) in January to adopt a negative interest rate policy, indicating bond investors would have to pay-to-own before adjusting for inflation. The BoJ owns approximately one-third of outstanding Japanese bonds as a result of its

10-Year Global Government Bond Yields



Change in 10-Year Yields from 4Q15 to 1Q16



Source: Bloomberg

Quarterly Return Attribution for Non-U.S. Gov't Indices
(U.S. Dollar)

Country	Total	Local	Currency	Wtg
Australia	8.29%	2.42%	5.73%	2.11%
Austria	8.73%	3.64%	4.90%	1.79%
Belgium	9.93%	4.79%	4.90%	2.98%
Canada	8.60%	1.12%	7.39%	2.30%
Denmark	9.88%	4.57%	5.08%	0.79%
Finland	8.12%	3.07%	4.90%	0.76%
France	9.18%	4.08%	4.90%	11.62%
Germany	8.88%	3.79%	4.90%	8.66%
Ireland	7.62%	2.59%	4.90%	0.95%
Italy	7.60%	2.57%	4.90%	11.44%
Japan	12.05%	4.69%	7.03%	33.67%
Malaysia	12.49%	2.22%	10.05%	0.53%
Mexico	3.48%	2.68%	0.78%	1.14%
Netherlands	8.98%	3.88%	4.90%	2.88%
Norway	8.84%	1.71%	7.01%	0.36%
Poland	7.82%	1.62%	6.10%	0.73%
Singapore	10.26%	4.66%	5.35%	0.45%
South Africa	12.34%	6.63%	5.35%	0.50%
Spain	7.64%	2.61%	4.90%	6.45%
Sweden	7.02%	2.90%	4.00%	0.58%
Switzerland	5.75%	1.17%	4.53%	0.34%
U.K.	2.66%	5.28%	-2.48%	8.96%

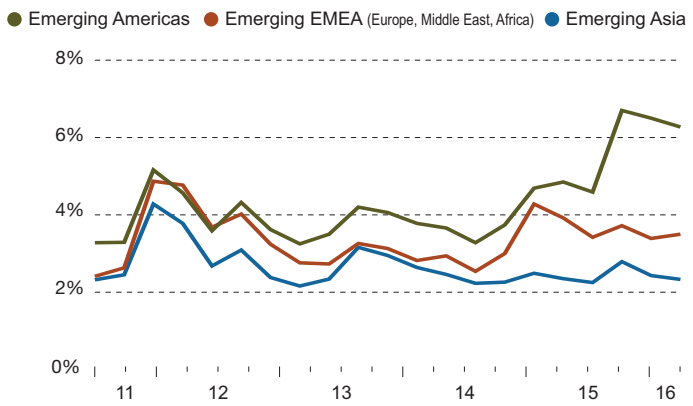
Source: Citigroup

quantitative easing program. Regulations require the nation's banks, insurers, and pension funds to carry Japanese bonds on their balance sheets.

The unhedged U.K. gilt advanced 2.66%, hampered by the pound's 3% fall. Worries over a potential Brexit put pressure on the currency. Yield on the 10-year U.K. gilt declined more than 50 bps, hitting an all-time low early in the quarter. The Bank of England elected to maintain its relaxed monetary policy for the seventh straight year, citing weak growth and global market turmoil.

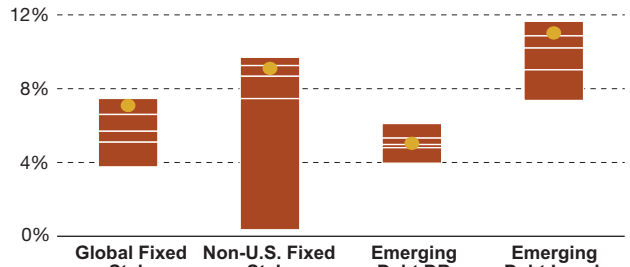
Emerging market bonds rebounded. In late February and March, commodity prices stabilized, risk appetite returned, and confidence in the Chinese renminbi stabilized. The hard currency **JPM EMBI Global Diversified Index** rose 5.04% while the local currency **JPM GBI-EM Global Diversified** soared 11.02%, bolstered by the dollar's relative weakness. Brazil led both indices as investors cheered the prospect of an impeachment of President Dilma Rousseff, hoping a new government could bring better days for the beleaguered country.

Emerging Spreads Over Developed (By Region)



Source: Barclays

Callan Style Group Quarterly Returns



	Global Fixed Style	Non-U.S. Fixed Style	Emerging Debt DB	Emerging Debt Local
10th Percentile	7.51	9.74	6.15	11.69
25th Percentile	6.64	9.29	5.36	10.90
Median	5.73	8.71	5.01	10.24
75th Percentile	5.14	7.50	4.84	9.06
90th Percentile	3.80	0.39	4.00	7.40
	Citi World Gov	Citi Non-U.S. World Gov	JPM EMBI Gl Div	JPM GBI-EM Gl Div
Benchmark ●	7.09	9.10	5.04	11.02

Sources: Callan, Citigroup, JPMorgan Chase

Callan Style Median and Index Returns* for Periods ended March 31, 2016

Global Fixed Income	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Global Style	**5.73**	**3.39**	**0.90**	**2.15**	**4.98**	**5.98**
Citi World Govt	7.09	5.92	0.49	1.16	4.19	5.28
Citi World Govt (Local)	3.68	2.84	4.20	4.88	4.27	4.19
Barclays Global Aggregate	5.90	4.57	0.87	1.81	4.35	5.25
Non-U.S. Fixed	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Non-U.S. Style	**8.71**	**5.38**	**0.01**	**1.22**	**4.69**	**6.27**
Citi Non-U.S. World Govt	9.10	7.74	-0.16	0.24	3.97	5.39
Citi Non-U.S. World Govt (Local)	3.95	3.10	5.11	5.48	4.29	4.14
European Fixed	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Citi Euro Govt Bond	8.50	6.95	2.45	2.49	4.57	7.15
Citi Euro Govt Bond (Local)	3.43	0.79	5.97	6.71	5.01	5.22
Emerging Markets Fixed	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
JPM EMBI Global Diversified	5.04	4.19	3.45	6.22	7.20	9.12
JPM GBI-EM Global Diversified	11.02	-1.65	-6.72	-2.00	4.95	--

*Returns less than one year are not annualized.
Sources: Callan, Citigroup, JPMorgan Chase.

Slow and Low

REAL ESTATE | Avery Robinson

The **NCREIF Property Index** advanced 2.21%, recording a 1.17% income return and a 1.04% appreciation return during the quarter. Industrial (+2.96%) and Retail (+2.96%) led property sector performance for the quarter while Hotels (+1.16%) lagged. Regionally, the West bested other areas with a 2.75% return and the East brought up the rear with 1.66%.

During the quarter there were 184 asset trades representing $7.5 billion of overall transactional volume. This marks a considerable decline from the fourth quarter of 2015's $11.3 billion, but it is still above the five-year quarterly transaction average of $6.4 billion. During the first quarter of 2016, appraisal capitalization rates decreased from 4.59% to 4.54%, setting an all-time low.

The **NCREIF Open End Diversified Core Equity Index** earned 2.18%, comprising a 1.11% income return and a 1.07% appreciation return. This marks the lowest quarterly return for the Index since 2010. Capital flows to core funds continued to decline, as a growing number of institutional investors are reaching or surpassing their real estate allocation targets. As a result, entry queues have also declined by more than 40% for the ODCE funds over the past six months.

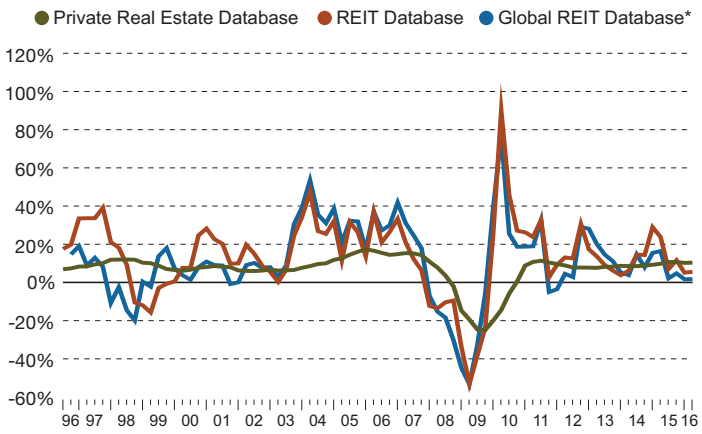
In the listed real estate market, the **FTSE EPRA/NAREIT Developed REIT Index (USD)** gained 5.43% and U.S. REITs tracked by the **FTSE NAREIT Equity REITs Index** advanced 6.00%.

In the U.S., volatility continued as REIT sectors rebounded sharply in March to generate positive returns for the quarter. Sector performance was led once again by Self-Storage (+10.85%), followed by Retail (+8.21%), Residential (+8.38%), and Industrial (+6.49%). The only negative was single family homes (-1.03%). As of March 31, U.S. REITs were trading at a 3% premium to net asset value. This marked the first time REITs have traded at a premium over the past 10 months. U.S. REITs raised $15.1 billion, despite no IPO activity for the quarter. There were 24 secondary equity offerings and 14 secondary debt offerings.

In Europe, the momentum in core markets was put on pause during the first quarter as a result of the uncertainty surrounding a potential "Brexit." According to Lambert Smith Hampton, investment volume in central London offices totaled £2.2 billion—31% below the 10-year average and less than half of the £4.6 billion recorded in the previous quarter. Optimism remains strong for the medium and long term, however, as capital raising remains robust and investors continue to see value on the continent. Despite continued concerns about the economic growth outlook for China, Asian real estate funds are still attracting new capital flows, with 2015 totals surpassing 2014.

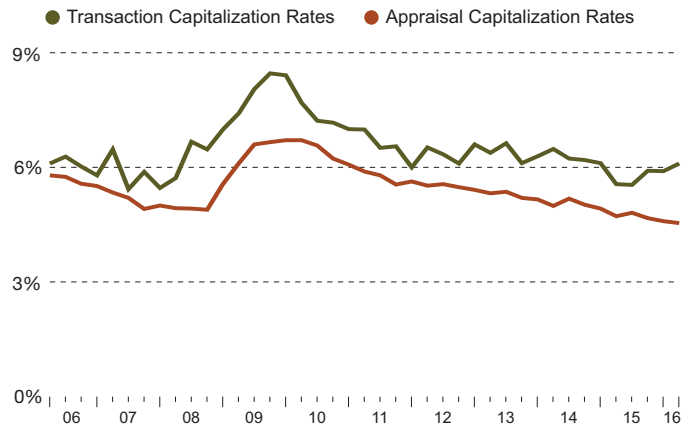
CMBS issuance reached $19.3 billion, significantly down from the first quarter of 2015 ($27.0 billion). This decline was widely credited to the instability in the broader financial market.

Rolling One-Year Returns



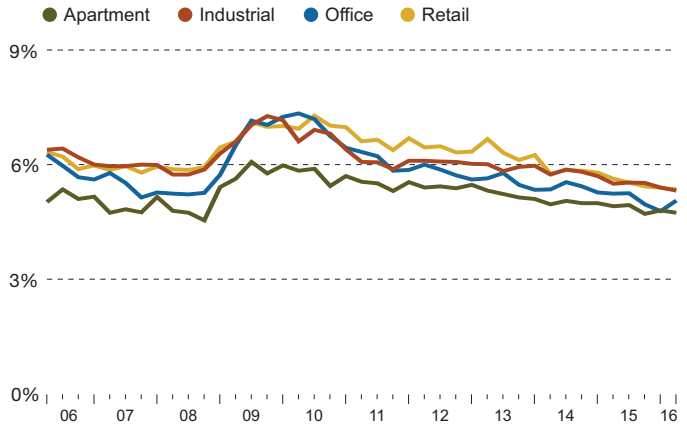
*Global REIT returns from 3Q96
Source: Callan

NCREIF Transaction and Appraisal Capitalization Rates



Source: NCREIF
Note: Transaction capitalization rate is equal-weighted.

NCREIF Capitalization Rates by Property Type



Source: NCREIF
Note: Capitalization rates are appraisal-based.

Callan Database Median and Index Returns* for Periods ended March 31, 2016

Private Real Estate	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Real Estate Database (net of fees)	**2.42**	**13.40**	**13.11**	**12.66**	**5.23**	**7.44**
NCREIF Property	2.21	11.84	11.91	11.93	7.61	8.95
NFI-ODCE (value wtd. net)	1.95	12.62	12.59	12.20	5.38	6.93
Public Real Estate	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
REIT Database	**5.33**	**4.87**	**11.57**	**12.46**	**7.36**	**12.70**
FTSE NAREIT Equity	6.00	4.43	10.47	11.89	6.56	11.57
Global Real Estate	**Quarter**	**Year**	**3 Years**	**5 Years**	**10 Years**	**15 Years**
Global REIT Database	**4.80**	**1.69**	**7.32**	**9.28**	**5.18**	**10.60**
FTSE EPRA/NAREIT Developed REIT	5.43	1.27	6.31	8.47	4.58	9.97

*Returns for less than one year are not annualized.
All REIT returns are reported gross in USD.
Sources: Callan, NAREIT, NCREIF, The FTSE Group. NCREIF statistics are the product of direct queries and may fluctuate over time.

Drip, Drip, Drip

PRIVATE EQUITY | Gary Robertson

In fundraising, *Private Equity Analyst* reports that new first-quarter commitments totaled $53.1 billion with 177 new partnerships formed. This represents a moderate start to the year. The number of funds raised increased 20% from 147 in the first quarter of 2015, but the dollar volume dropped 5% from $56.2 billion. According to the National Venture Capital Association (NVCA), venture capital had the strongest fundraising quarter in 10 years.

According to *Buyouts* newsletter, the investment pace by funds into companies totaled 329 transactions, a 32% fall from 484 deals in the first quarter of 2015. The announced aggregate dollar volume was $57.9 billion, up 56% from $37.1 billion a year ago. The $14.2 billion take-private of Keurig Green Mountain helped boost the announced value. Twelve deals with announced values of $1 billion or more closed in the quarter.

According to the NVCA, new investments in venture capital companies totaled $12.1 billion in 969 rounds of financing. The dollar volume and number of rounds decreased compared to the first quarter of 2015's $13.6 billion and 1,063 rounds.

Regarding exits, *Buyouts* reports that steep declines occurred in the first quarter of 2016. There were 107 private M&A exits of buyout-backed companies, with 31 deals disclosing values totaling $14.6 billion. The M&A exits count was down 27% year-over-year from 147, and the announced value declined 53% from $30.9 billion. There were no buyout-backed IPOs in the first quarter.

Venture-backed M&A exits totaled 79 transactions, with 20 disclosing a total dollar volume of $4.8 billion. The number of exits declined but the announced dollar volume increased from the first quarter of 2015, which had 97 sales with 18 announcing dollar values totaling $2.8 billion. There were six VC-backed IPOs in the first quarter with a combined float of $575 million. For comparison, the first quarter of 2015 had 17 IPOs and total issuance of $1.4 billion.

Please see our upcoming issue of *Private Markets Trends* for more in-depth coverage.

Funds Closed January 1 to March 31, 2016

Strategy	No. of Funds	Amt ($mm)	Percent
Venture Capital	94	8,881	17%
Buyouts	60	38,237	72%
Subordinated Debt	1	158	0%
Distressed Debt	6	2,265	4%
Secondary and Other	1	94	0%
Fund-of-funds	15	3,513	7%
Totals	**177**	**53,147**	**100%**

Source: Private Equity Analyst

Private Equity Performance Database (%) (Pooled Horizon IRRs through Sept. 30, 2015*)

Strategy	3 Months	Year	3 Years	5 Years	10 Years	15 Years	20 Years
All Venture	2.1	24.2	15.2	14.9	9.8	9.5	27.4
Growth Equity	1.8	20.1	14.9	15.1	13.5	13.0	15.0
All Buyouts	-0.8	15.1	15.3	15.5	14.0	11.8	13.4
Mezzanine	2.6	12.5	13.1	12.1	11.0	8.3	10.2
Distressed	0.5	13.1	16.0	13.9	11.4	11.7	11.8
All Private Equity	**0.2**	**16.7**	**15.3**	**15.1**	**12.8**	**11.4**	**14.6**
S&P 500 Index	1.1	19.7	23.0	15.7	8.1	4.9	9.6

Private equity returns are net of fees.
Sources: Standard & Poor's, Thomson/Cambridge.
*Most recent data available at time of publication.

Note: Transaction count and dollar volume figures across all private equity measures are preliminary figures and are subject to update in subsequent versions of Capital Market Review and other Callan publications.

Market Tremors Panic Hedge Funds

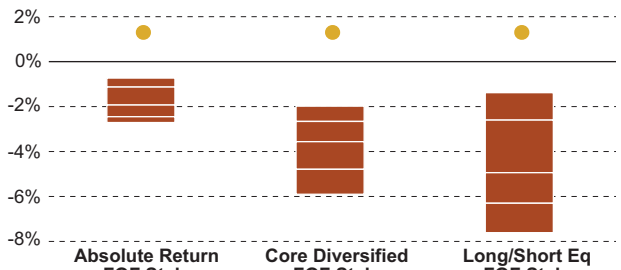
HEDGE FUNDS | Jim McKee

Investor pessimism over softening global growth slammed stocks and commodities at the opening of 2016. The 10-Year Treasury yield fell 50 bps during the quarter as investors fled to the sidelines. Despite foreign central bankers pushing their funding rates into the negative, the dollar unexpectedly lost ground to the euro (+4.90%) and yen (+7.03%). After oil fell to new cyclical lows in February, talk of production freeze excited oil buyers. Similarly, chatter of China reopening the credit spigot to jump-start its sagging growth revved markets. After initially falling 10% or more, stocks around the globe—particularly emerging markets—rebounded to finish mostly positive.

Illustrating performance of an unmanaged hedge fund universe, the **Credit Suisse Hedge Fund Index** (CS HFI) sank 2.20%, gross of implementation costs. Representing actual hedge fund portfolios, the median manager in the **Callan Hedge Fund-of-Funds Database** fell 2.99%, net of all fees.

Within the CS HFI, *Managed Futures* (+4.35%) topped other strategies thanks to trend-following factors. Given the highly unusual incidence of crowded trades and related short squeezes in a de-risking market, *Event-Driven Multi-Strategy* (-5.58%) and *Long/Short Equity* (-3.85%) performed worst.

Callan Style Group Quarterly Returns



	Absolute Return FOF Style	Core Diversified FOF Style	Long/Short Eq FOF Style
10th Percentile	-0.73	-1.98	-1.38
25th Percentile	-1.13	-2.66	-2.60
Median	-1.93	-3.56	-4.94
75th Percentile	-2.45	-4.79	-6.30
90th Percentile	-2.71	-5.90	-7.61
T-Bills + 5% ●	1.30	1.30	1.30

Sources: Callan, Merrill Lynch

Market exposures did not seem to help in the first quarter within Callan's Hedge Fund-of-Funds Database. Despite mildly positive equity tailwinds, the median *Callan Long/Short Equity FOF* (-4.94%) trailed the *Callan Absolute Return FOF* (-1.93%). With diversifying exposures to both non-directional and directional styles, the *Core Diversified FOF* dropped 3.56%.

Callan Database Median and Index Returns* for Periods ended March 31, 2016

	Quarter	Year	3 Years	5 Years	10 Years	15 Years
Hedge Fund-of-Funds Database	**-2.99**	**-6.38**	**2.22**	**2.53**	**3.27**	**4.73**
CS Hedge Fund Index	-2.20	-5.25	2.33	2.65	4.19	5.80
CS Equity Market Neutral	-0.36	3.88	2.79	2.19	-1.82	1.10
CS Convertible Arbitrage	-0.39	-0.05	0.65	1.79	3.82	4.48
CS Fixed Income Arbitrage	-1.22	-0.49	1.76	4.11	3.51	4.26
CS Multi-Strategy	-0.58	0.24	5.72	5.77	5.53	6.71
CS Distressed	-1.95	-7.39	1.71	2.86	4.16	7.22
CS Risk Arbitrage	2.12	1.85	1.90	1.47	3.44	3.54
CS Event-Driven Multi-Strategy	-5.58	-13.72	-0.63	-0.71	4.00	5.85
CS Long/Short Equity	-3.85	-2.23	5.59	3.94	4.69	6.06
CS Dedicated Short Bias	-0.90	5.97	-7.71	-8.79	-8.43	-7.89
CS Global Macro	-2.23	-6.25	1.03	3.10	5.96	8.37
CS Managed Futures	4.35	-3.67	4.77	2.30	4.23	5.35
CS Emerging Markets	-1.23	-2.77	1.37	1.96	4.15	7.97

*Returns less than one year are not annualized. Sources: Callan, Credit Suisse.

Strong Quarter Can't Save 2015

DEFINED CONTRIBUTION | Tom Szkwarla

The Callan DC Index™ finished the year with a strong 3.50% gain in the fourth quarter. The rebound helped offset third-quarter losses, which were among the worst ever in the Index's 10-year history. This strong finish did not keep the DC Index out of negative territory for the year; a 2015 calendar year return of -0.34% is the weakest since 2011. 2016 marks the 10th anniversary of the Callan DC Index. Since inception, the Index's annualized return is 5.18%, compared to the Age 45 Target Date return of 5.25%.

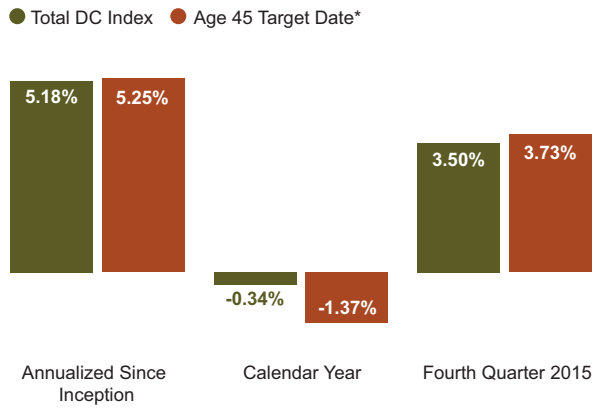
The Age 45 Target Date Fund—the average of target date funds that would be selected by participants age 45 and retiring at age 65—beat the DC Index for the quarter, but underperformed it by 1.03% for the year. Both results were driven by the fact that the Age 45 Target Date Fund has a higher allocation to equities than the average DC plan: 74% for the Age 45 Target Date Fund versus 66% for the average DC plan.

The year was noteworthy for target date funds, which overtook large cap equity as the single-largest holding in the typical DC plan. As usual, target date funds absorbed a majority of cash flows during the quarter, taking in more than 80 cents of every dollar. Stable value funds continued net inflows for the third consecutive quarter. In contrast, many asset classes saw net outflows—U.S. equity (both large and small/mid cap) and company stock in particular.

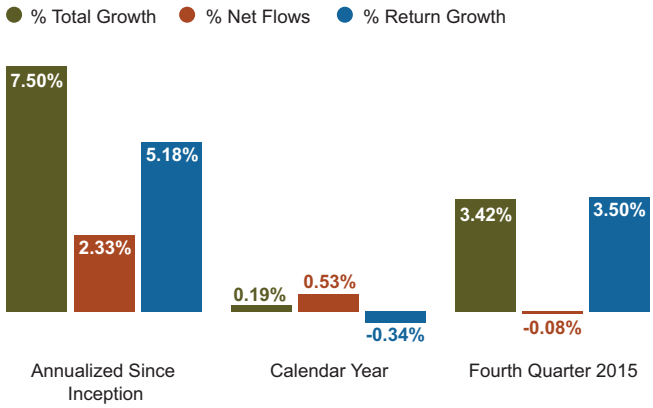
Fourth quarter turnover (i.e., net transfer activity) in the DC Index was 0.46%. Turnover has been steadily increasing since the beginning of the year, but remains below the historical average of 0.65%.

The Callan DC Index is an equally weighted index tracking the cash flows and performance of nearly 90 plans, representing more than one million DC participants and over $135 billion in assets. The Index is updated quarterly and is available on Callan's website, as is the quarterly DC Observer newsletter.

Investment Performance*



Growth Sources*



Net Cash Flow Analysis (Fourth Quarter 2015)*
(Top Two and Bottom Two Asset Gatherers)

Asset Class	Flows as % of Total Net Flows
Target Date Funds	81.15%
Stable Value	7.15%
U.S./Global Balanced	-16.88%
U.S. Large Cap	-28.91%
Total Turnover**	**0.46%**

Source: Callan DC Index
Data provided here is the most recent available at time of publication.

* DC Index inception date is January 2006. DB plan performance is gross of fees.

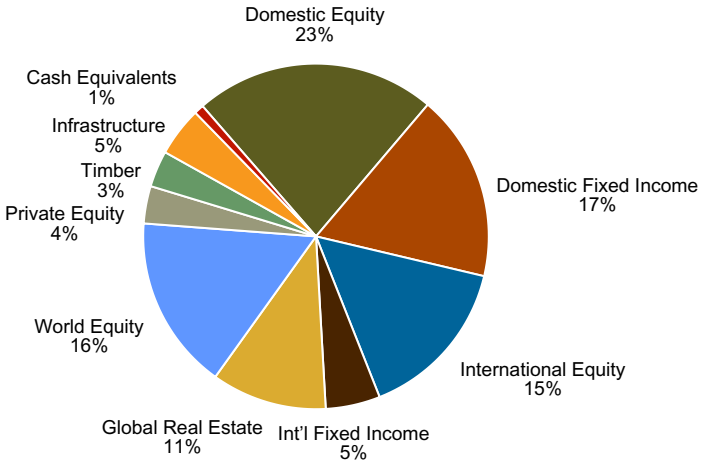
**Total Index "turnover" measures the percentage of total invested assets (transfers only, excluding contributions and withdrawals) that moved between asset classes.

NDSIB - Consolidated
Pension Trust

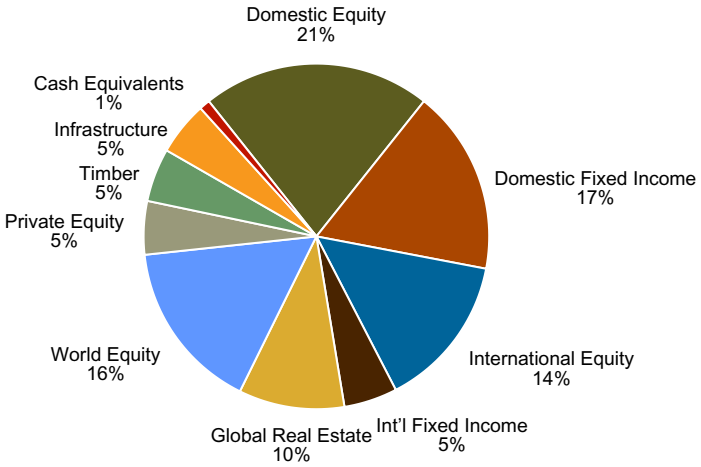
Actual vs Target Asset Allocation
As of March 31, 2016

The top left chart shows the Fund's asset allocation as of March 31, 2016. The top right chart shows the Fund's target asset allocation as outlined in the investment policy statement. The bottom chart ranks the fund's asset allocation and the target allocation versus the Public Fund Sponsor Database.

Actual Asset Allocation

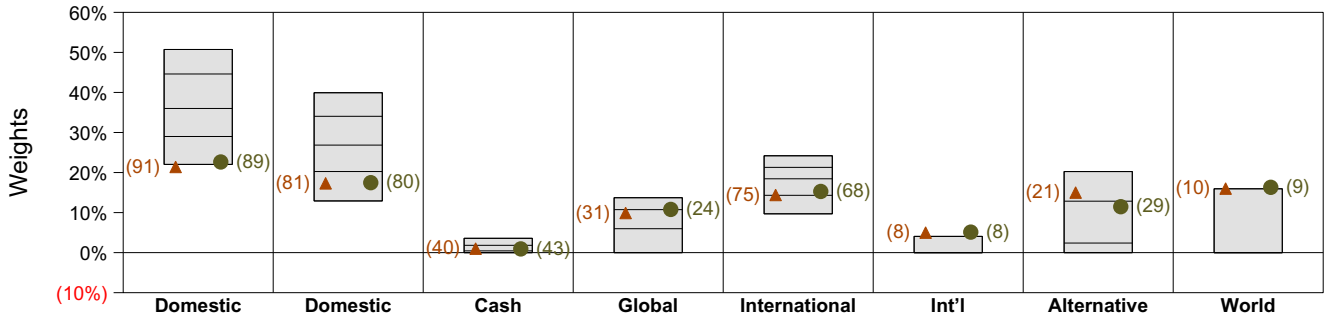


Target Asset Allocation



Asset Class	$000s Actual	Weight Actual	Target	Percent Difference	$000s Difference
Domestic Equity	1,053,891	22.6%	21.4%	1.2%	57,491
Domestic Fixed Income	813,405	17.5%	17.3%	0.2%	7,904
International Equity	711,253	15.3%	14.4%	0.9%	40,778
Int'l Fixed Income	238,540	5.1%	5.0%	0.1%	5,736
Global Real Estate	502,278	10.8%	9.9%	0.9%	41,326
World Equity	759,328	16.3%	16.0%	0.3%	14,356
Private Equity	163,010	3.5%	5.0%	(1.5%)	(69,794)
Timber	156,098	3.4%	5.0%	(1.6%)	(76,706)
Infrastructure	215,022	4.6%	5.0%	(0.4%)	(17,782)
Cash Equivalents	43,251	0.9%	1.0%	(0.1%)	(3,310)
Total	4,656,075	100.0%	100.0%		

Asset Class Weights vs Public Fund Sponsor Database



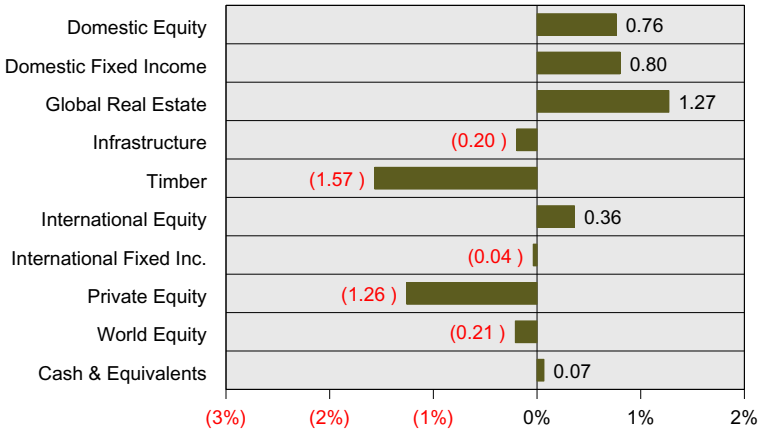
	Domestic Equity	Domestic Fixed Income	Cash Equivalents	Global Real Estate	International Equity	Int'l Fixed Income	Alternative	World Equity
10th Percentile	50.73	39.93	3.58	13.71	24.19	4.06	20.25	15.94
25th Percentile	44.61	34.04	1.83	10.74	21.29	0.00	12.84	0.00
Median	36.00	26.85	0.44	5.98	18.44	0.00	2.40	0.00
75th Percentile	29.00	20.25	0.00	0.00	14.31	0.00	0.00	0.00
90th Percentile	22.03	12.91	0.00	0.00	9.69	0.00	0.00	0.00
Fund ●	22.63	17.47	0.93	10.79	15.28	5.12	11.47	16.31
Target ▲	21.40	17.30	1.00	9.90	14.40	5.00	15.00	16.00
% Group Invested	97.44%	96.92%	70.26%	61.03%	89.74%	19.49%	44.62%	23.08%

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

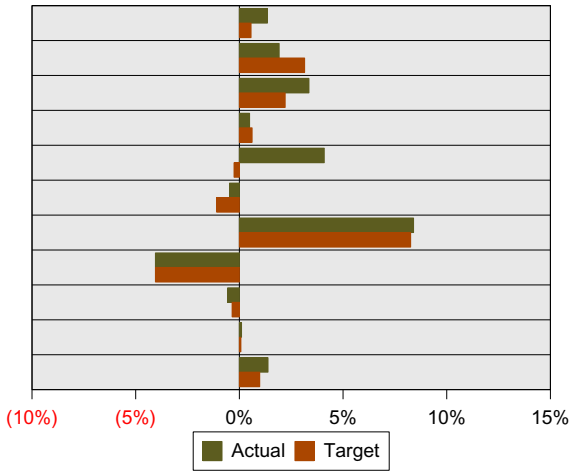
Quarterly Total Fund Relative Attribution - March 31, 2016

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

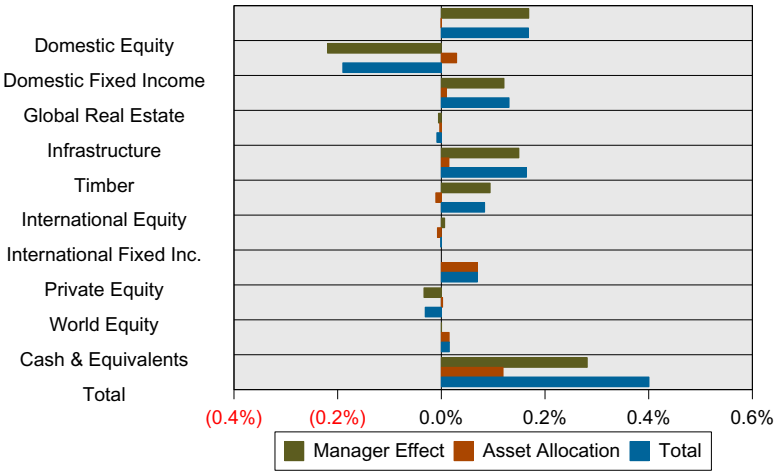
Asset Class Under or Overweighting



Actual vs Target Returns



Relative Attribution by Asset Class



Relative Attribution Effects for Quarter ended March 31, 2016

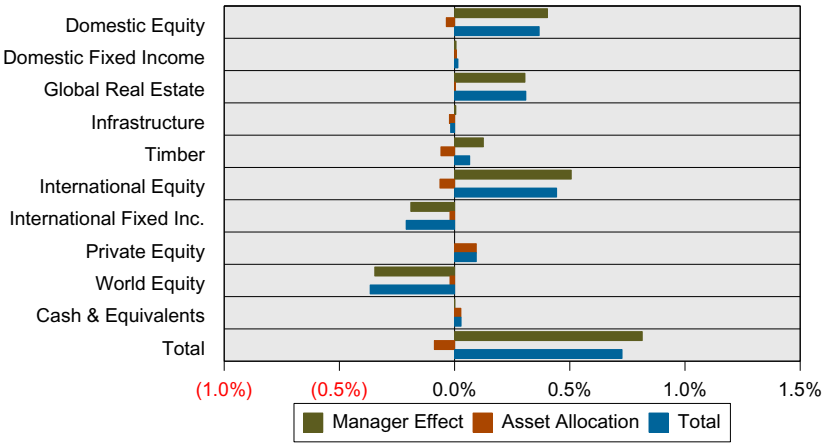
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	22%	21%	1.35%	0.56%	0.17%	(0.00%)	0.17%
Domestic Fixed Income	18%	17%	1.92%	3.15%	(0.22%)	0.03%	(0.19%)
Global Real Estate	11%	10%	3.36%	2.21%	0.12%	0.01%	0.13%
Infrastructure	5%	5%	0.49%	0.61%	(0.01%)	(0.00%)	(0.01%)
Timber	3%	5%	4.09%	(0.26%)	0.15%	0.01%	0.16%
International Equity	15%	14%	(0.48%)	(1.10%)	0.09%	(0.01%)	0.08%
International Fixed Inc.	5%	5%	8.40%	8.26%	0.01%	(0.01%)	(0.00%)
Private Equity	4%	5%	(4.05%)	(4.05%)	0.00%	0.07%	0.07%
World Equity	16%	16%	(0.57%)	(0.35%)	(0.03%)	0.00%	(0.03%)
Cash & Equivalents	1%	1%	0.10%	0.07%	0.00%	0.02%	0.02%
Total			**1.38% =**	**0.98% +**	**0.28% +**	**0.12%**	**0.40%**

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

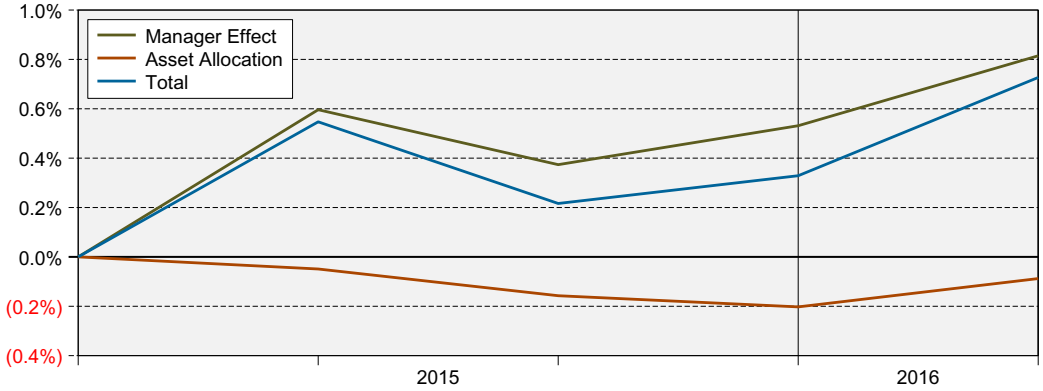
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

One Year Relative Attribution Effects



Cumulative Relative Attribution Effects



One Year Relative Attribution Effects

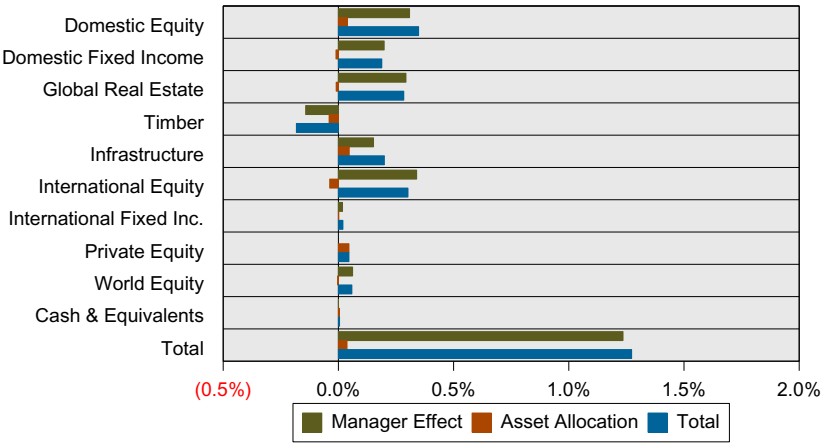
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	22%	21%	(0.05%)	(1.88%)	0.40%	(0.04%)	0.37%
Domestic Fixed Income	19%	18%	0.44%	0.43%	0.01%	0.01%	0.01%
Global Real Estate	10%	10%	15.30%	11.84%	0.31%	0.00%	0.31%
Infrastructure	5%	5%	0.55%	0.50%	0.01%	(0.02%)	(0.02%)
Timber	4%	5%	6.65%	2.90%	0.12%	(0.06%)	0.07%
International Equity	15%	14%	(5.68%)	(8.96%)	0.51%	(0.06%)	0.44%
International Fixed Inc.	5%	5%	2.64%	6.69%	(0.19%)	(0.02%)	(0.21%)
Private Equity	4%	5%	(9.28%)	(9.28%)	0.00%	0.09%	0.09%
World Equity	16%	16%	(5.59%)	(3.45%)	(0.35%)	(0.02%)	(0.37%)
Cash & Equivalents	1%	1%	0.19%	0.12%	0.00%	0.03%	0.03%
Total			**(0.10%) =**	**(0.83%) +**	**0.81% +**	**(0.09%)**	**0.73%**

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

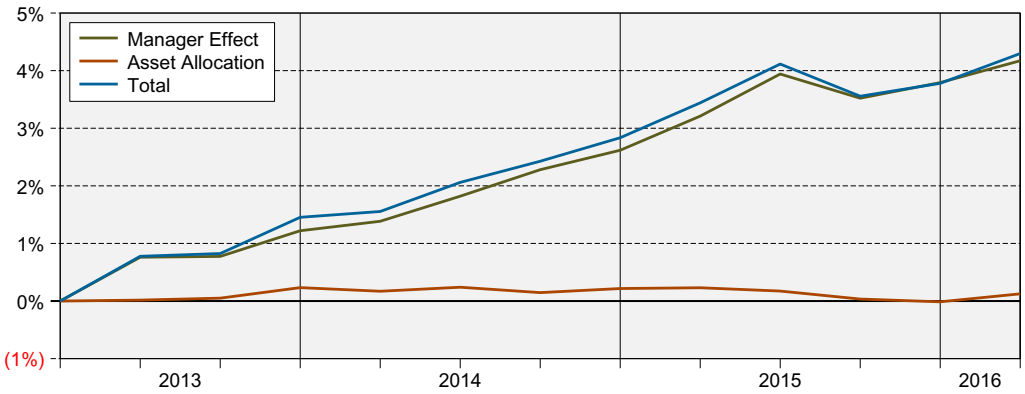
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Three Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Three Year Annualized Relative Attribution Effects

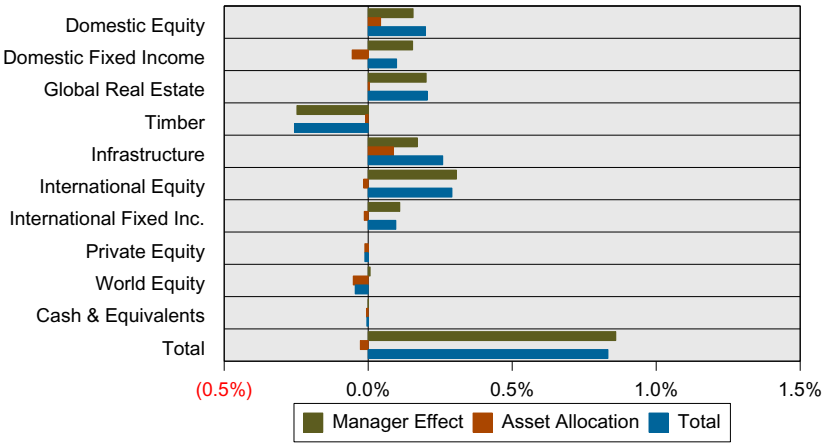
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	23%	21%	11.95%	10.50%	0.31%	0.04%	0.35%
Domestic Fixed Income	19%	18%	3.37%	2.35%	0.20%	(0.01%)	0.19%
Global Real Estate	10%	10%	15.24%	11.91%	0.29%	(0.01%)	0.28%
Timber	4%	5%	4.64%	7.71%	(0.14%)	(0.04%)	(0.18%)
Infrastructure	4%	5%	4.29%	0.42%	0.15%	0.05%	0.20%
International Equity	14%	14%	3.12%	0.82%	0.34%	(0.04%)	0.30%
International Fixed Inc.	5%	5%	0.02%	(0.32%)	0.02%	0.00%	0.02%
Private Equity	4%	5%	(1.69%)	(1.69%)	0.00%	0.05%	0.05%
World Equity	16%	16%	7.22%	6.82%	0.06%	(0.00%)	0.06%
Cash & Equivalents	1%	1%	0.10%	0.07%	0.00%	0.00%	0.00%
Total			**6.71% =**	**5.44% +**	**1.24% +**	**0.04%**	**1.27%**

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

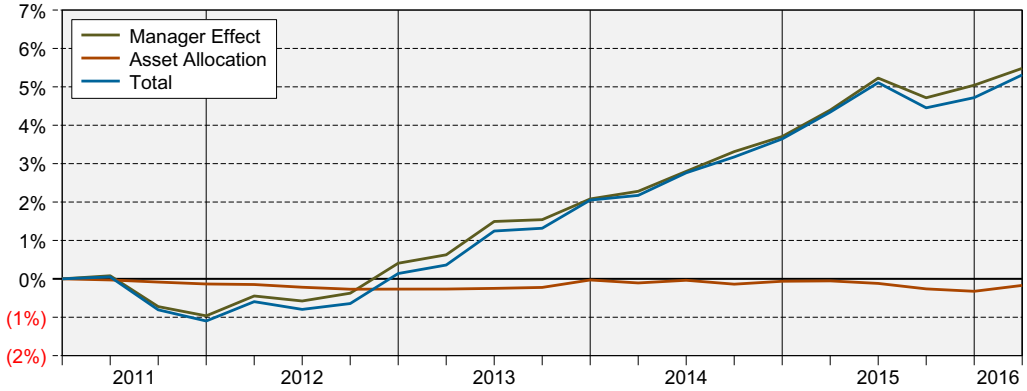
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Five Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Five Year Annualized Relative Attribution Effects

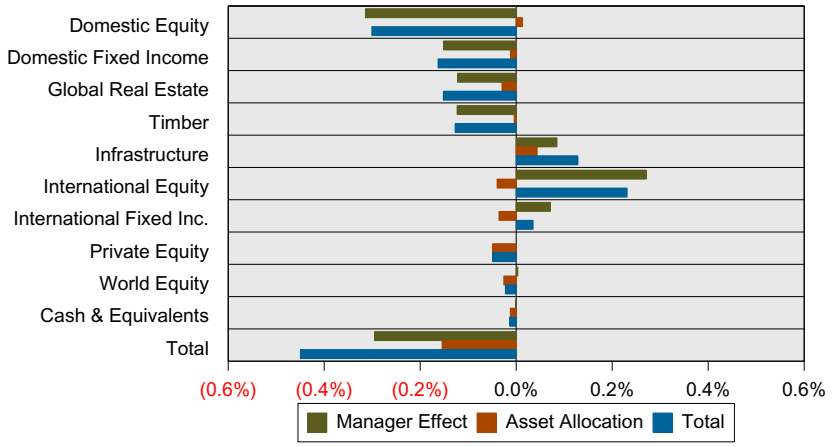
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	26%	25%	11.43%	10.55%	0.16%	0.04%	0.20%
Domestic Fixed Income	19%	19%	5.33%	4.20%	0.15%	(0.06%)	0.10%
Global Real Estate	9%	9%	14.31%	11.93%	0.20%	0.00%	0.21%
Timber	4%	4%	-	-	(0.25%)	(0.01%)	(0.26%)
Infrastructure	3%	4%	-	-	0.17%	0.09%	0.26%
International Equity	16%	16%	2.83%	0.89%	0.31%	(0.02%)	0.29%
International Fixed Inc.	5%	5%	2.41%	0.39%	0.11%	(0.01%)	0.10%
Private Equity	5%	5%	0.94%	0.94%	0.00%	(0.01%)	(0.01%)
World Equity	11%	12%	-	-	0.01%	(0.05%)	(0.05%)
Cash & Equivalents	1%	1%	0.11%	0.08%	0.00%	(0.01%)	(0.00%)
Total			**6.70%** =	**5.87%** +	**0.86%** +	**(0.03%)**	**0.83%**

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

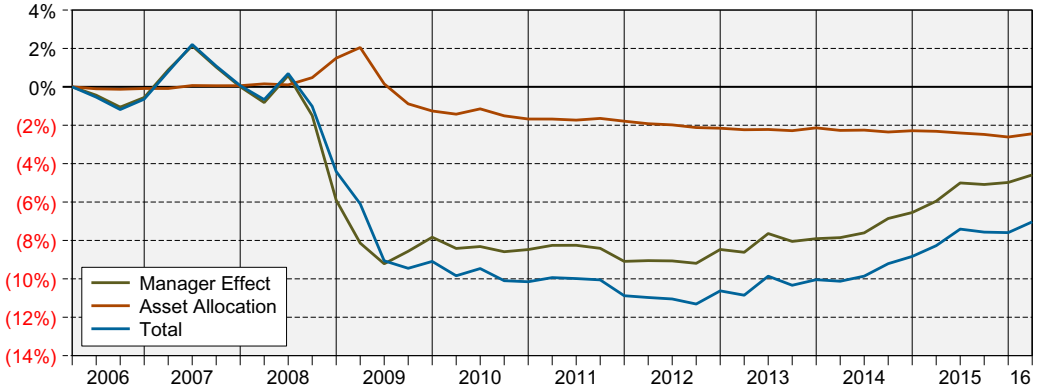
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Ten Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Ten Year Annualized Relative Attribution Effects

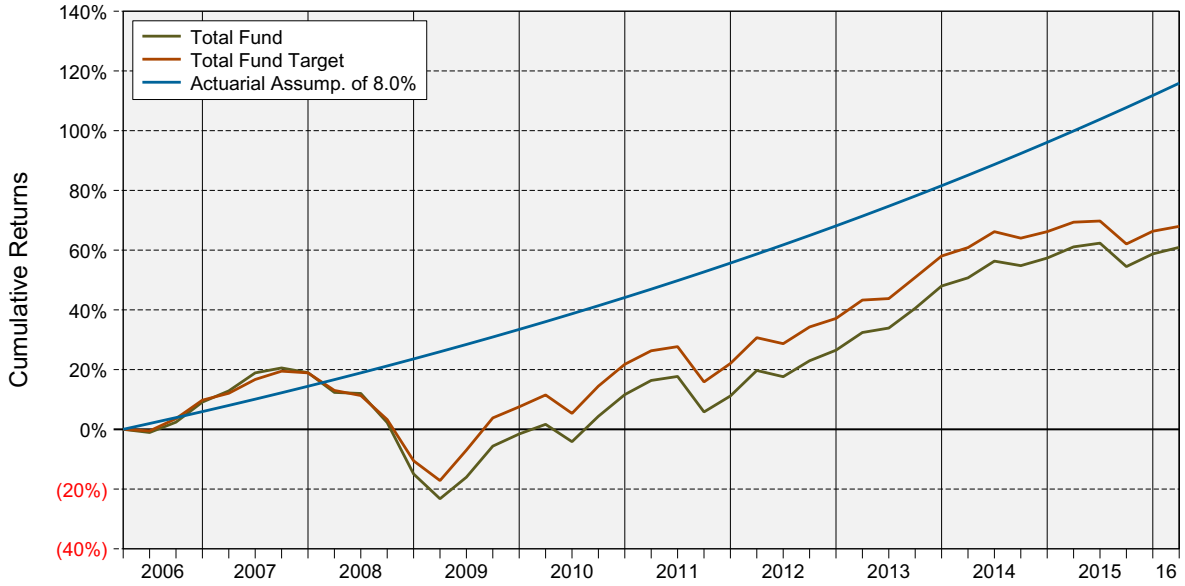
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	32%	32%	5.80%	6.64%	(0.31%)	0.01%	(0.30%)
Domestic Fixed Income	23%	22%	5.59%	5.61%	(0.15%)	(0.01%)	(0.16%)
Global Real Estate	9%	8%	6.16%	7.61%	(0.12%)	(0.03%)	(0.15%)
Timber	2%	2%	-	-	(0.12%)	(0.00%)	(0.13%)
Infrastructure	2%	2%	-	-	0.08%	0.04%	0.13%
International Equity	17%	17%	3.63%	2.06%	0.27%	(0.04%)	0.23%
International Fixed Inc.	5%	5%	5.40%	4.11%	0.07%	(0.04%)	0.04%
Private Equity	4%	5%	1.33%	1.33%	0.00%	(0.05%)	(0.05%)
World Equity	6%	6%	-	-	0.00%	(0.03%)	(0.02%)
Cash & Equivalents	1%	1%	0.92%	1.15%	(0.00%)	(0.01%)	(0.01%)
Total			**4.87% =**	**5.32% +**	**(0.30%) +**	**(0.15%)**	**(0.45%)**

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

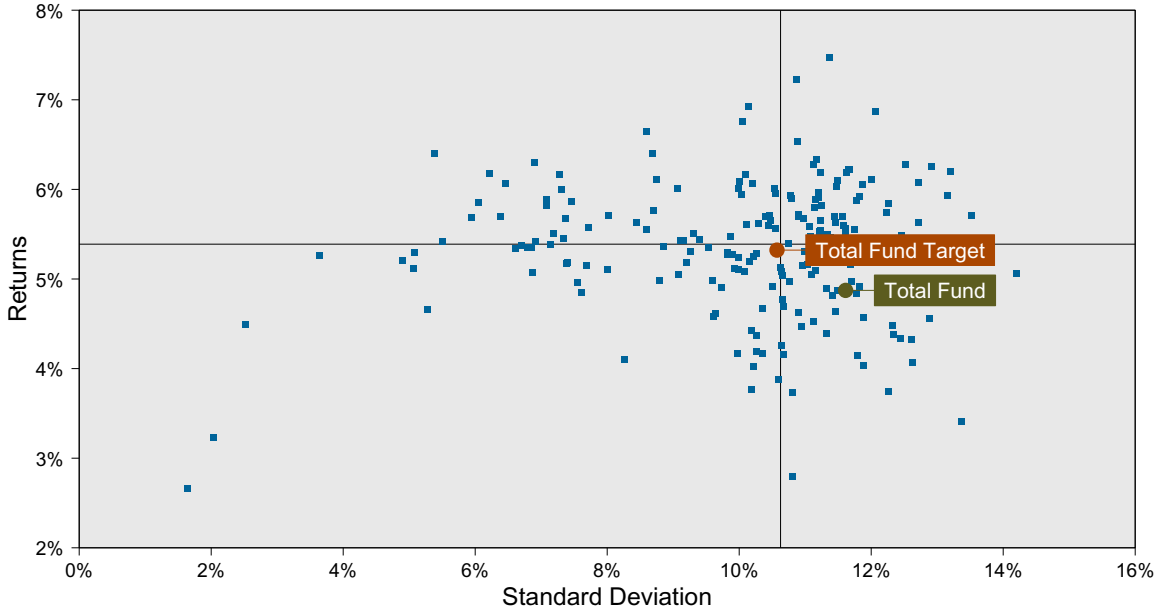
Cumulative Performance Relative to Target

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the Public Fund Sponsor Database.

Cumulative Returns Actual vs Target



Ten Year Annualized Risk vs Return



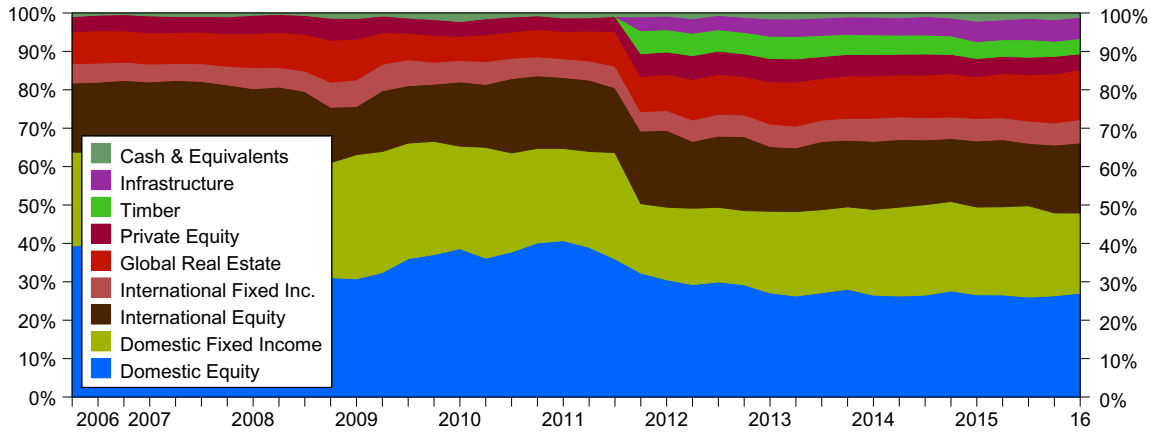
Squares represent membership of the Public Fund Sponsor Database

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

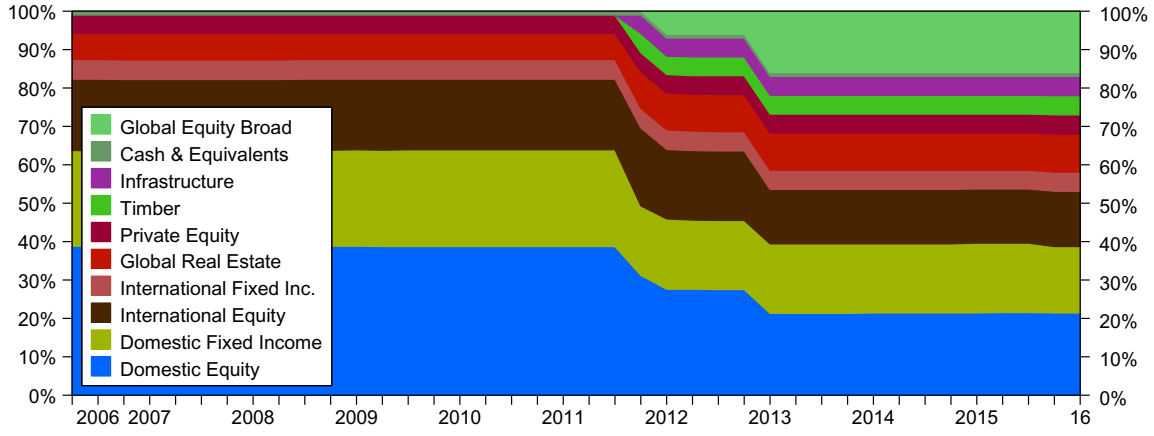
Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the Public Fund Sponsor Database.

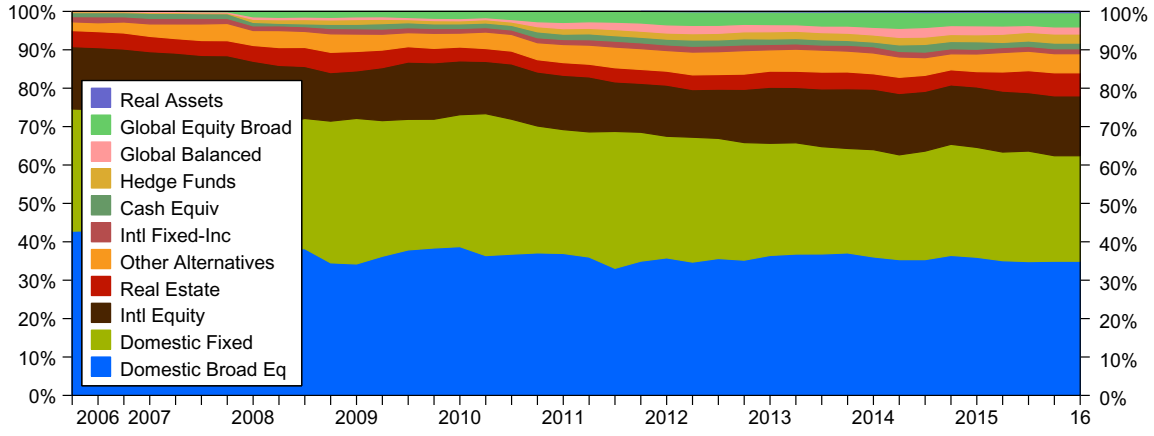
Actual Historical Asset Allocation



Target Historical Asset Allocation



Average Public Fund Sponsor Database Historical Asset Allocation

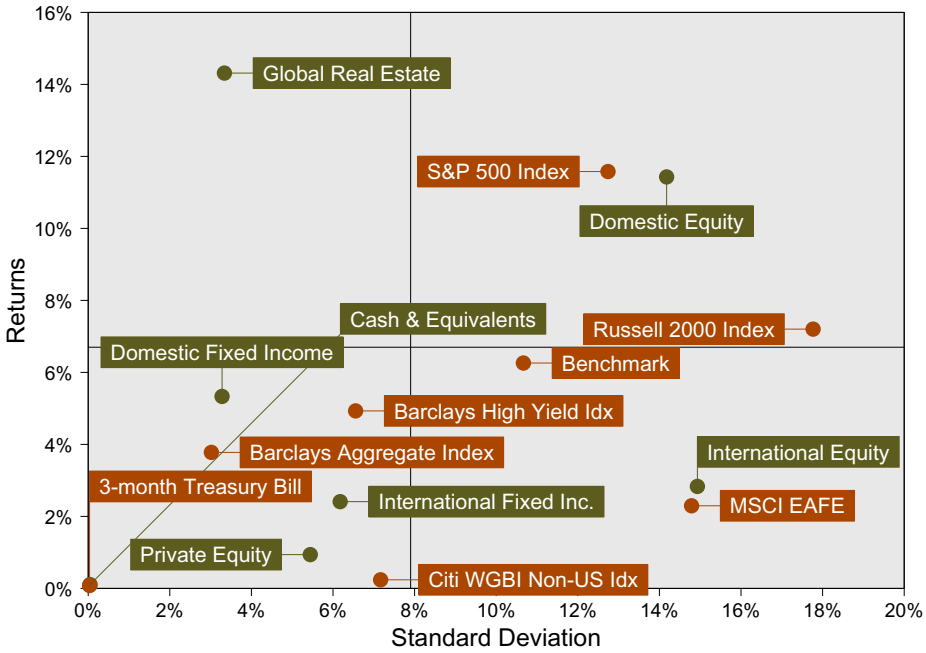


* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

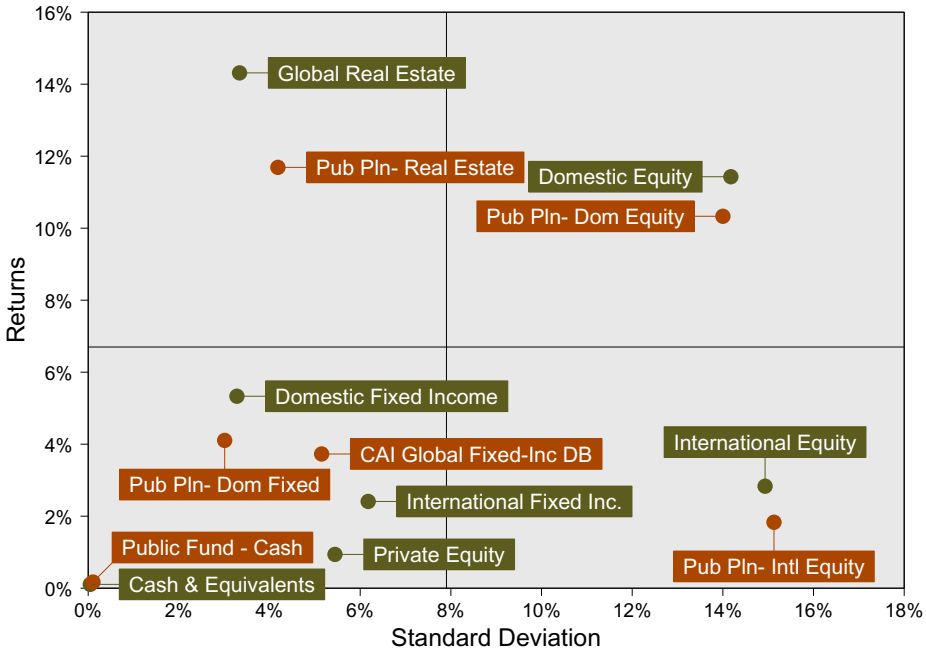
Asset Class Risk and Return

The charts below show the five year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

Five Year Annualized Risk vs Return
Asset Classes vs Benchmark Indices



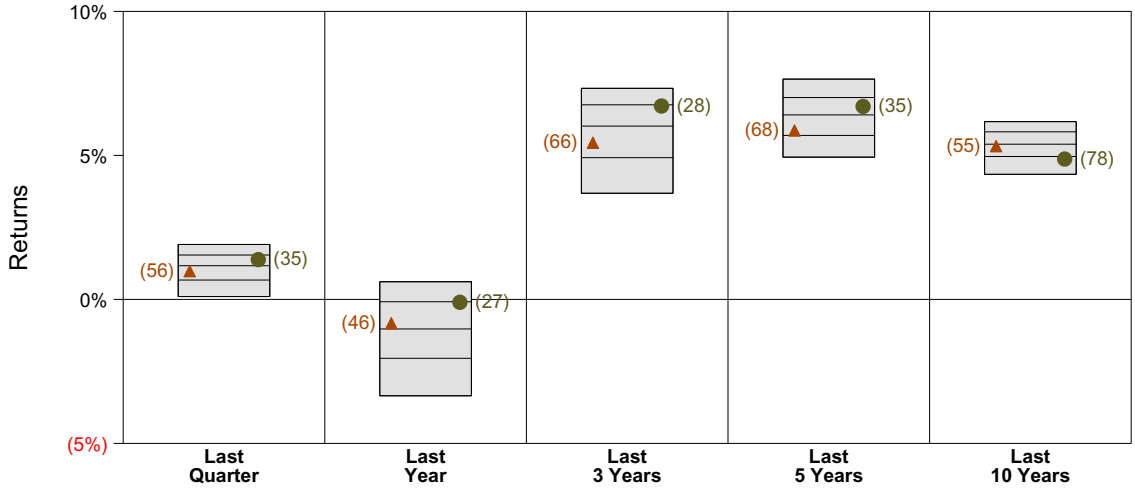
Five Year Annualized Risk vs Return
Asset Classes vs Asset Class Median



Total Fund Ranking

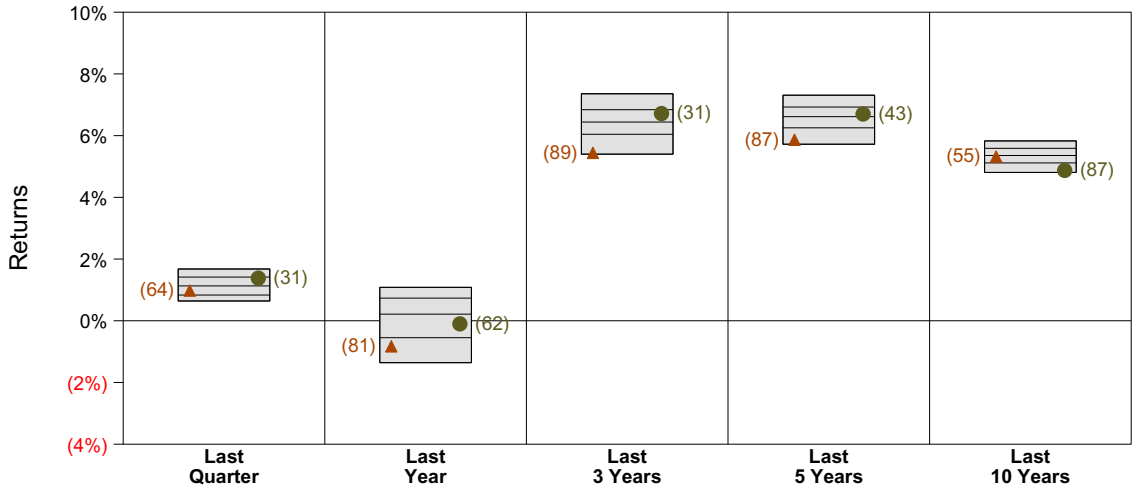
The first two charts show the ranking of the Total Fund's performance relative to that of the Public Fund Sponsor Database for periods ended March 31, 2016. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund.

Public Fund Sponsor Database



	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
10th Percentile	1.91	0.61	7.33	7.65	6.17
25th Percentile	1.54	(0.08)	6.76	7.01	5.82
Median	1.17	(1.03)	6.02	6.41	5.39
75th Percentile	0.67	(2.05)	4.92	5.69	4.96
90th Percentile	0.10	(3.35)	3.69	4.94	4.34
Total Fund ●	1.38	(0.10)	6.71	6.70	4.87
Policy Target ▲	0.98	(0.83)	5.44	5.87	5.32

Asset Allocation Adjusted Ranking



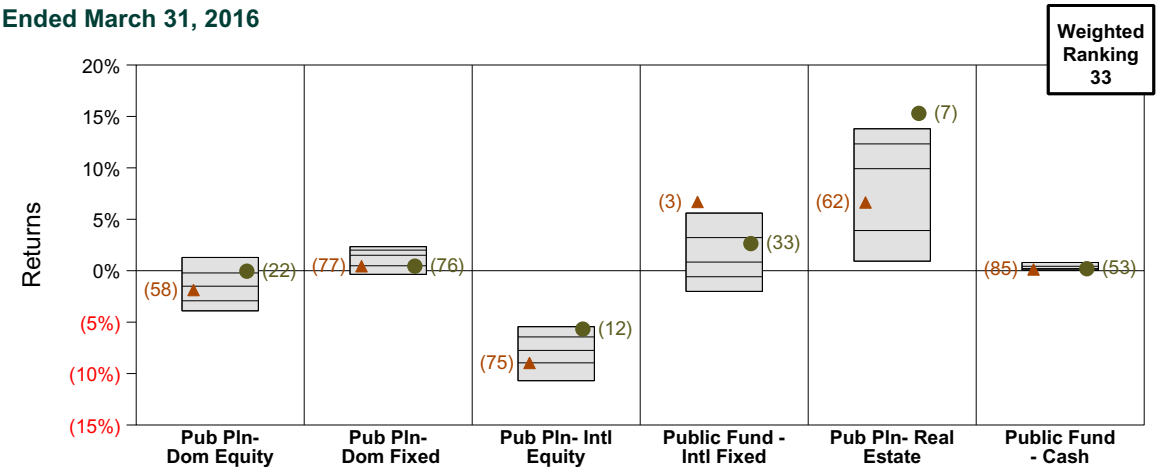
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
10th Percentile	1.68	1.08	7.36	7.31	5.83
25th Percentile	1.42	0.73	6.84	6.93	5.59
Median	1.13	0.21	6.44	6.62	5.36
75th Percentile	0.83	(0.55)	6.04	6.25	5.12
90th Percentile	0.64	(1.36)	5.40	5.72	4.81
Total Fund ●	1.38	(0.10)	6.71	6.70	4.87
Policy Target ▲	0.98	(0.83)	5.44	5.87	5.32

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

Asset Class Rankings

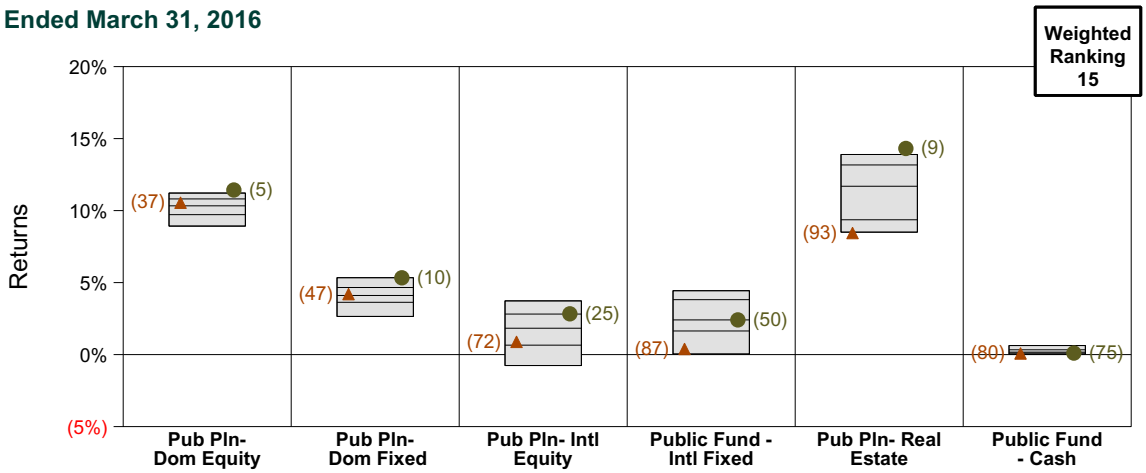
The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper right corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

Total Asset Class Performance
One Year Ended March 31, 2016



	Pub Pln- Dom Equity	Pub Pln- Dom Fixed	Pub Pln- Intl Equity	Public Fund - Intl Fixed	Pub Pln- Real Estate	Public Fund - Cash
10th Percentile	1.29	2.34	(5.44)	5.60	13.80	0.80
25th Percentile	(0.22)	2.00	(6.44)	3.22	12.33	0.43
Median	(1.51)	1.50	(7.75)	0.84	9.92	0.21
75th Percentile	(2.92)	0.48	(8.96)	(0.59)	3.91	0.17
90th Percentile	(3.90)	(0.35)	(10.69)	(2.01)	0.93	0.06
Asset Class Composite ●	(0.05)	0.44	(5.68)	2.64	15.30	0.19
Composite Benchmark ▲	(1.88)	0.43	(8.96)	6.69	6.63	0.12

Total Asset Class Performance
Five Years Ended March 31, 2016



	Pub Pln- Dom Equity	Pub Pln- Dom Fixed	Pub Pln- Intl Equity	Public Fund - Intl Fixed	Pub Pln- Real Estate	Public Fund - Cash
10th Percentile	11.22	5.34	3.73	4.44	13.90	0.63
25th Percentile	10.81	4.66	2.82	3.81	13.17	0.33
Median	10.33	4.11	1.83	2.41	11.69	0.17
75th Percentile	9.72	3.63	0.66	1.64	9.36	0.11
90th Percentile	8.92	2.65	(0.76)	0.04	8.50	0.03
Asset Class Composite ●	11.43	5.33	2.83	2.41	14.31	0.11
Composite Benchmark ▲	10.55	4.20	0.89	0.39	8.44	0.08

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

Investment Manager Asset Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of March 31, 2016, with the distribution as of December 31, 2015. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

Asset Distribution Across Investment Managers

	March 31, 2016				December 31, 2015	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
GLOBAL EQUITY	**$2,687,481,139**	**57.72%**	**$76,845,804**	**$5,746,892**	**$2,604,888,443**	**56.82%**
Domestic Equity	**$1,053,890,769**	**22.63%**	**$23,779,475**	**$15,897,882**	**$1,014,213,411**	**22.12%**
Large Cap Domestic Equity	**$816,411,405**	**17.53%**	**$7,779,475**	**$16,993,759**	**$791,638,170**	**17.27%**
L.A. Capital	309,966,684	6.66%	(164,825)	6,604,690	303,526,819	6.62%
LACM Enhanced Index	186,257,069	4.00%	(55,699)	4,248,677	182,064,091	3.97%
Northern Trust AM Enh S&P 500	142,175,451	3.05%	8,000,000	3,099,846	131,075,605	2.86%
Parametric Clifton Enh S&P 500	178,012,201	3.82%	0	3,040,546	174,971,655	3.82%
Small Cap Domestic Equity	**$237,479,364**	**5.10%**	**$16,000,000**	**$(1,095,877)**	**$222,575,241**	**4.85%**
Parametric Clifton Enh Small Cap	128,568,464	2.76%	16,000,000	858,599	111,709,864	2.44%
Small Cap Transition Account	108,910,901	2.34%	0	(1,954,476)	110,865,377	2.42%
International Equity	**$711,252,733**	**15.28%**	**$32,133,944**	**$(1,078,903)**	**$680,197,692**	**14.84%**
Developed Int'l Equity	**$538,098,821**	**11.56%**	**$21,133,944**	**$(8,000,172)**	**$524,965,050**	**11.45%**
Capital Group	123,552,063	2.65%	(132,456)	(1,629,188)	125,313,707	2.73%
DFA Int'l Small Cap	74,268,888	1.60%	0	(606,203)	74,875,091	1.63%
Northern Trust AM World Ex US	248,208,296	5.33%	21,459,911	(2,888,130)	229,636,515	5.01%
Wellington Management Co.	92,069,575	1.98%	(193,511)	(2,876,651)	95,139,737	2.08%
Emerging Markets Equity	**$173,153,912**	**3.72%**	**$11,000,000**	**$6,921,269**	**$155,232,643**	**3.39%**
Axiom	128,666,451	2.76%	8,250,000	4,529,716	115,886,735	2.53%
DFA	44,487,461	0.96%	2,750,000	2,391,553	39,345,908	0.86%
World Equity	**$759,327,813**	**16.31%**	**$26,370,373**	**$(2,026,124)**	**$734,983,564**	**16.03%**
EPOCH Investment Partners	339,370,267	7.29%	18,973,774	(5,802,730)	326,199,223	7.12%
LSV Asset Management	419,957,546	9.02%	7,396,599	3,776,606	408,784,341	8.92%

Investment Manager Asset Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of March 31, 2016, with the distribution as of December 31, 2015. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

Asset Distribution Across Investment Managers

	March 31, 2016				December 31, 2015	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
Private Equity	**$163,009,824**	**3.50%**	**$(5,437,988)**	**$(7,045,963)**	**$175,493,775**	**3.83%**
Adams Street Direct Co-Invest Fd	8,321,246	0.18%	(597,069)	(70,485)	8,988,800	0.20%
Adams Street Direct Fund 2010	1,477,177	0.03%	0	41,588	1,435,589	0.03%
Adams Street 1998 Partnership	125,676	0.00%	0	1,947	123,729	0.00%
Adams Street 1999 Partnership	332,283	0.01%	(245,537)	9,433	568,387	0.01%
Adams Street 2000 Partnership	1,455,563	0.03%	0	56,248	1,399,315	0.03%
Adams Street 2001 Partnership	1,627,635	0.03%	(327,238)	122,675	1,832,198	0.04%
Adams Street 2002 Partnership	703,782	0.02%	(193,975)	41,066	856,691	0.02%
Adams Street 2003 Partnership	372,794	0.01%	(80,203)	15,837	437,160	0.01%
Adams Street 2010 Partnership	5,543,614	0.12%	0	29,039	5,514,575	0.12%
Adams Street 2008 Fund	7,630,132	0.16%	0	238,958	7,391,174	0.16%
Adams Street 1999 Non-US	396,505	0.01%	0	(10,595)	407,100	0.01%
Adams Street 2000 Non-US	722,423	0.02%	0	(1,523)	723,946	0.02%
Adams Street 2001 Non-US	179,589	0.00%	(157,177)	(9,841)	346,607	0.01%
Adams Street 2002 Non-US	1,015,145	0.02%	(211,985)	114,590	1,112,540	0.02%
Adams Street 2003 Non-US	857,962	0.02%	0	79,543	778,419	0.02%
Adams Street 2004 Non-US	424,944	0.01%	(112,959)	9,708	528,195	0.01%
Adams Street 2010 Non-US	2,625,692	0.06%	0	66,096	2,559,596	0.06%
Adams Street 2010 Non-US Emg	1,302,728	0.03%	0	53,080	1,249,648	0.03%
Adams Street 2015 Global Fd	1,595,368	0.03%	570,000	215,368	810,000	0.02%
Adams Street BVCF IV Fund	3,776,726	0.08%	0	8,654	3,768,072	0.08%
Hearthstone Advisors MSII	1	0.00%	0	0	1	0.00%
Hearthstone Advisors MSIII	18,126	0.00%	0	(130,012)	148,138	0.00%
CorsAir III	13,539,166	0.29%	51,364	(208,138)	13,695,940	0.30%
ND Investors	12,604,490	0.27%	55,000	1,473,508	11,075,982	0.24%
CorsAir IV	20,529,107	0.44%	(2,222,573)	(843,733)	23,595,413	0.51%
Capital International V	7,391,459	0.16%	(1,323,215)	(407,413)	9,122,087	0.20%
Capital International VI	15,520,198	0.33%	129,303	(495,496)	15,886,391	0.35%
EIG Energy Fund XIV	6,334,976	0.14%	(1,487,019)	(6,253,846)	14,075,841	0.31%
Lewis & Clark, LP	2,724,490	0.06%	0	0	2,724,490	0.06%
Lewis & Clark II	9,435,908	0.20%	0	0	9,435,908	0.21%
Quantum Energy Partners	7,002,399	0.15%	315,296	0	6,687,103	0.15%
Quantum Resources	1	0.00%	0	0	1	0.00%
Matlin Patterson I	13,401	0.00%	0	1,280	12,121	0.00%
Matlin Patterson II	1,744,082	0.04%	0	129,660	1,614,422	0.04%
Matlin Patterson III	25,665,036	0.55%	400,000	(1,323,160)	26,588,196	0.58%

Investment Manager Asset Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of March 31, 2016, with the distribution as of December 31, 2015. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

Asset Distribution Across Investment Managers

	March 31, 2016				December 31, 2015	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
GLOBAL FIXED INCOME	**$1,051,945,373**	**22.59%**	**$(33,954,858)**	**$33,887,441**	**$1,052,012,790**	**22.95%**
Domestic Fixed Income	**$813,405,274**	**17.47%**	**$(33,755,225)**	**$15,400,646**	**$831,759,853**	**18.14%**
Inv. Grade Fixed Income	**$568,230,561**	**12.20%**	**$(33,343,786)**	**$9,718,617**	**$591,855,730**	**12.91%**
Declaration Total Return	84,863,258	1.82%	(30,422)	167,365	84,726,314	1.85%
J. P. Morgan MBS	112,199,186	2.41%	(13,064,698)	2,392,451	122,871,434	2.68%
PIMCO DiSCO II	89,612,490	1.92%	0	99,384	89,513,106	1.95%
PIMCO MBS	165,914,206	3.56%	(151,026)	2,894,137	163,171,095	3.56%
PIMCO Unconstrained	60,712,217	1.30%	(10,090,937)	(700,120)	71,503,274	1.56%
SSgA Long US Treas Index	54,929,204	1.18%	(10,006,704)	4,865,399	60,070,508	1.31%
Below Inv. Grade Fixed Income	**$245,174,713**	**5.27%**	**$(411,439)**	**$5,682,029**	**$239,904,123**	**5.23%**
Goldman Sachs 2006 Offshore	1,176,294	0.03%	(172,641)	84	1,348,851	0.03%
Goldman Sachs Offshore V	2,721,258	0.06%	0	(88,246)	2,809,504	0.06%
Loomis Sayles	195,154,558	4.19%	(238,798)	4,354,949	191,038,407	4.17%
PIMCO Bravo II Fund	46,122,603	0.99%	0	1,415,242	44,707,361	0.98%
Internationall Fixed Income	**$238,540,099**	**5.12%**	**$(199,633)**	**$18,486,795**	**$220,252,936**	**4.80%**
Brandywine	131,973,448	2.83%	(117,381)	10,312,059	121,778,769	2.66%
UBS Global Asset Mgmt.	106,566,651	2.29%	(82,252)	8,174,736	98,474,167	2.15%
GLOBAL REAL ASSETS	**$873,397,515**	**18.76%**	**$(10,433,452)**	**$24,065,605**	**$859,765,362**	**18.75%**
Global Real Estate	**$502,277,707**	**10.79%**	**$(7,657,069)**	**$16,857,339**	**$493,077,437**	**10.76%**
Invesco Core Real Estate	215,818,471	4.64%	(188,130)	3,135,529	212,871,072	4.64%
Invesco Fund II	8,981,947	0.19%	0	(149,170)	9,131,117	0.20%
Invesco Fund III	27,132,712	0.58%	(1,850,000)	2,193,260	26,789,452	0.58%
Invesco Asia RE Feeder	1,106,290	0.02%	(6,509,000)	341,229	7,274,061	0.16%
Invesco Asia RE Fund III	8,308,710	0.18%	0	(213,790)	8,522,500	0.19%
Invesco Value Added Fd IV	19,509,360	0.42%	906,293	1,491,826	17,111,241	0.37%
JP Morgan	182,262,721	3.91%	0	3,867,623	178,395,097	3.89%
JP Morgan Alternative Fd	313,904	0.01%	0	10,202	303,703	0.01%
JP Morgan China Property Fd	9,698,327	0.21%	(3,804)	(106,687)	9,808,819	0.21%
JP Morgan Greater European Opp Fd	29,145,265	0.63%	(12,429)	6,287,318	22,870,375	0.50%
Timber	**$156,097,708**	**3.35%**	**$(1,000,000)**	**$6,148,248**	**$150,949,460**	**3.29%**
TIR Teredo	35,636,364	0.77%	(1,000,000)	4,052,126	32,584,238	0.71%
TIR Springbank	120,461,344	2.59%	0	2,096,122	118,365,222	2.58%
Infrastructure	**$215,022,099**	**4.62%**	**$(1,776,383)**	**$1,060,017**	**$215,738,465**	**4.71%**
JP Morgan Asian Infrastructure	28,668,764	0.62%	112,597	(497,423)	29,053,590	0.63%
JP Morgan IIF	140,059,358	3.01%	(377,199)	472,758	139,963,800	3.05%
Grosvenor Cust. Infrastructure	40,481,892	0.87%	424,201	1,242,372	38,815,319	0.85%
Grosvenor Cust. Infrastructure II	5,812,085	0.12%	(1,935,981)	(157,690)	7,905,756	0.17%
CASH & CASH EQUIVALENTS	**$43,251,022**	**0.93%**	**$(24,708,732)**	**$44,803**	**$67,914,951**	**1.48%**
Cash Account	43,251,022	0.93%	(24,708,732)	44,803	67,914,951	1.48%
Securities Lending Income	**$0**	**0.00%**	**$(136,243)**	**$136,243**	**-**	**-**
Total Fund	**$4,656,075,049**	**100.0%**	**$7,612,519**	**$63,880,984**	**$4,584,581,545**	**100.0%**

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Global Equity					
Gross	0.00%	(3.69%)	7.31%	-	-
Net	(0.05%)	(3.99%)	6.93%	-	-
Wtd Avg Global Equity Benchmark	(0.50%)	(4.66%)	6.03%	-	-
Domestic Equity					
Gross	1.35%	(0.05%)	11.95%	11.43%	5.80%
Net	1.33%	(0.18%)	11.71%	11.16%	5.48%
Wtd Avg Domestic Equity Benchmark	0.56%	(1.88%)	10.50%	10.55%	6.64%
Large Cap Equity					
Gross	2.07%	2.89%	13.34%	12.34%	5.53%
Net	2.04%	2.77%	13.15%	12.14%	5.28%
Large Cap Benchmark (1)	1.17%	0.50%	11.52%	11.55%	7.00%
L.A. Capital - Gross	2.18%	4.52%	14.86%	12.69%	8.71%
L.A. Capital - Net	2.12%	4.31%	14.63%	12.45%	8.50%
Russell 1000 Growth Index	0.74%	2.52%	13.61%	12.38%	8.28%
LACM Enhanced Index - Goss	2.34%	2.90%	13.16%	12.09%	7.79%
LACM Enhanced Index - Net	2.30%	2.78%	13.02%	11.95%	7.63%
Russell 1000 Index	1.17%	0.50%	11.52%	11.35%	7.06%
Northern Tr AM Enh S&P500 - Gross	1.82%	0.38%	12.11%	12.38%	7.15%
Northern Tr AM Enh S&P500 - Net	1.82%	0.38%	11.68%	12.02%	6.97%
S&P 500 Index	1.35%	1.78%	11.82%	11.58%	7.01%
Parametric Clifton Enh S&P500 - Gross	1.74%	2.05%	11.88%	11.76%	-
Parametric Clifton Enh S&P500 - Net	1.74%	2.05%	11.87%	11.70%	-
S&P 500 Index	1.35%	1.78%	11.82%	11.58%	7.01%
Small Cap Equity					
Gross	(1.20%)	(9.68%)	7.16%	8.36%	6.08%
Net	(1.20%)	(9.85%)	6.77%	7.89%	5.58%
Russell 2000 Index	(1.52%)	(9.76%)	6.84%	7.20%	5.26%
Parametric Clifton Enh SmCap - Gross	(1.05%)	(8.31%)	7.84%	8.49%	-
Parametric Clifton Enh SmCap - Net	(1.05%)	(8.65%)	7.38%	8.00%	-
Russell 2000 Index	(1.52%)	(9.76%)	6.84%	7.20%	5.26%

(1) S&P 500 Index through 12/31/2011 and Russell 1000 Index thereafter.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
International Equity					
Gross	(0.48%)	(5.68%)	3.12%	2.83%	3.63%
Net	(0.53%)	(5.86%)	2.83%	2.48%	3.23%
Wtd Avg Int'l Equity Benchmark	(1.10%)	(8.96%)	0.82%	0.89%	2.06%
Developed Intl Equity					
Gross	(1.76%)	(4.44%)	4.64%	3.62%	2.76%
Net	(1.83%)	(4.68%)	4.34%	3.29%	2.41%
Benchmark(1)	(3.01%)	(8.27%)	2.23%	2.29%	1.34%
Capital Group - Gross	(1.29%)	(7.79%)	2.82%	3.24%	1.74%
Capital Group - Net	(1.41%)	(8.17%)	2.37%	2.90%	1.50%
Benchmark(1)	(3.01%)	(8.27%)	2.23%	2.29%	1.34%
DFA Int'l Small Cap Value - Net	(0.81%)	(1.46%)	6.33%	4.40%	-
World ex US SC Value	1.18%	(1.39%)	4.36%	3.29%	3.51%
Northern Tr AM World ex US - Gross	(1.87%)	(8.15%)	-	-	-
Northern Tr AM World ex US - Net	(1.89%)	(8.19%)	-	-	-
MSCI World ex US	(1.95%)	(8.44%)	1.69%	1.62%	1.80%
Wellington Management - Gross	(3.01%)	8.79%	11.32%	9.71%	6.64%
Wellington Management - Net	(3.23%)	7.89%	10.40%	8.78%	5.74%
BMI, EPAC, <$2 B	0.08%	3.03%	6.29%	4.55%	3.25%
Emerging Markets Equity					
Gross	3.74%	(10.59%)	(2.89%)	(0.67%)	4.80%
Net	3.74%	(10.59%)	(3.15%)	(1.07%)	4.30%
Emerging Mkts - Net	5.71%	(12.03%)	(4.50%)	(4.13%)	3.02%
Axiom - Net	3.25%	(11.59%)	-	-	-
Emerging Mkts - Net	5.71%	(12.03%)	(4.50%)	(4.13%)	3.02%
DFA - Net	5.15%	(7.17%)	(1.61%)	(0.87%)	6.45%
Emerging Mkts - Net	5.71%	(12.03%)	(4.50%)	(4.13%)	3.02%
World Equity					
Gross	(0.57%)	(5.59%)	7.22%	-	-
Net	(0.66%)	(6.31%)	6.47%	-	-
MSCI World Index	(0.35%)	(3.45%)	6.82%	6.51%	4.27%
EPOCH Investment - Gross(2)	(2.30%)	(5.65%)	7.92%	-	-
EPOCH Investment - Net	(2.47%)	(6.25%)	7.19%	-	-
MSCI World Index	(0.35%)	(3.45%)	6.82%	6.51%	4.27%
LSV Asset Management - Gross(3)	0.79%	(5.58%)	7.24%	-	-
LSV Asset Management - Net	0.76%	(6.38%)	6.47%	-	-
MSCI ACWI Idx	0.38%	(3.81%)	6.10%	5.80%	4.63%

(1) MSCI EAFE through 12/31/1996; 50% Hedged EAFE through 3/31/2011 and MSCI EAFE again thereafter.
(2) EPOCH Investment was removed from the Domestic Equity Composite to the World Equity Composite as of 1/1/2012.
(3) LSV Asset Management was removed from the Domestic Equity and International Equity Composites to the World Equity Composite as of February 1, 2013.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Private Equity*					
Net	(4.05%)	(9.28%)	(1.72%)	0.82%	1.62%
Adams Street Direct Co-Invest Fd	(0.81%)	6.78%	18.87%	14.06%	-
Adams Street Direct Fund 2010	2.90%	17.92%	18.09%	15.48%	-
Adams Street 1998 Partnership	1.57%	3.85%	4.84%	1.47%	3.05%
Adams Street 1999 Partnership	2.92%	8.81%	3.06%	3.91%	4.70%
Adams Street 2000 Partnership	4.02%	1.19%	0.34%	3.23%	5.71%
Adams Street 2001 Partnership	8.15%	(3.36%)	6.94%	7.38%	6.45%
Adams Street 2002 Partnership	6.20%	0.73%	1.73%	4.78%	4.46%
Adams Street 2003 Partnership	4.44%	6.60%	15.76%	9.89%	9.20%
Adams Street 2010 Partnership	0.53%	9.15%	15.12%	13.41%	-
Adams Street 2008 Fund	3.23%	13.71%	13.44%	9.86%	-
Adams Street 1999 Non-US	(2.60%)	9.11%	1.37%	9.43%	10.46%
Adams Street 2000 Non-US	(0.21%)	(9.87%)	(2.15%)	(0.96%)	4.43%
Adams Street 2001 Non-US	(3.22%)	35.78%	28.59%	13.89%	6.18%
Adams Street 2002 Non-US	12.72%	23.19%	7.24%	7.44%	8.90%
Adams Street 2003 Non-US	10.22%	14.26%	9.79%	10.26%	14.23%
Adams Street 2004 Non-US	1.94%	(0.35%)	8.33%	5.63%	6.38%
Adams Street 2010 Non-US	2.58%	7.55%	6.91%	5.31%	-
Adams Street 2010 Non-US Emg	4.25%	16.78%	11.51%	(2.37%)	-
Adams Street 2015 Global Fd	24.57%	-	-	-	-
Adams Street BVCF IV Fund	0.23%	26.47%	24.46%	31.58%	30.66%
CorsAir III	(1.51%)	23.83%	7.02%	2.61%	-
ND Investors	13.24%	7.77%	5.35%	3.71%	-
CorsAir IV	(3.92%)	7.54%	15.47%	5.74%	-
Capital International V	(5.09%)	(31.57%)	(11.25%)	(5.38%)	-
Capital International VI	(3.10%)	(11.69%)	(18.01%)	-	-
EIG Energy Fund XIV	(44.65%)	(61.49%)	(30.60%)	(19.12%)	-
Lewis & Clark, LP	0.00%	(32.09%)	(16.16%)	(5.81%)	1.54%
Lewis & Clark II	0.00%	(14.35%)	(6.80%)	(7.39%)	-
Quantum Energy Partners	0.00%	(36.79%)	1.68%	9.64%	-
Matlin Patterson I	10.56%	10.56%	3.79%	648.58%	183.78%
Matlin Patterson II	8.03%	43.24%	1.59%	(31.54%)	(23.21%)
Matlin Patterson III	(4.96%)	0.19%	(2.60%)	20.67%	-

* Corsair III and North Dakota Investors were taken out from the Private Equity Composite on July 1, 2009. They were then added back into the Private Equity Composite on October 1, 2011. At this time Corsair IV, Capital Intl and EIG were also added to this composite.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Global Fixed Income					
Gross	3.31%	1.00%	2.73%	-	-
Net	3.23%	0.75%	2.50%	-	-
Wtd Avg Global FI Benchmark	4.28%	1.85%	1.81%	-	-
Domestic Fixed Income					
Gross	1.92%	0.44%	3.37%	5.33%	5.59%
Net	1.85%	0.23%	3.15%	5.12%	5.32%
Wtd Avg Domestic FI Benchmark	3.15%	0.43%	2.35%	4.20%	5.61%
Inv. Grade Fixed Income					
Gross	1.68%	1.61%	3.42%	4.93%	5.36%
Net	1.63%	1.47%	3.31%	4.78%	5.13%
Barclays Aggregate Index	3.03%	1.96%	2.50%	3.78%	4.90%
Declaration Total Return - Net	0.20%	0.64%	3.14%	-	-
Libor-3 Month	0.16%	0.40%	0.30%	0.34%	1.56%
J.P. Morgan MBS - Gross	1.99%	2.35%	-	-	-
J.P. Morgan MBS - Net	1.93%	2.13%	-	-	-
Barclays Mortgage	1.98%	2.43%	2.70%	3.24%	4.85%
PIMCO Unconstrained - Gross(1)	(0.57%)	(1.81%)	(0.53%)	-	-
PIMCO Unconstrained - Net	(0.71%)	(2.12%)	(0.75%)	-	-
Blended Benchmark(2)	0.16%	0.40%	0.37%	-	-
PIMCO DiSCO II - Net	0.11%	3.66%	6.29%	-	-
Barclays Aggregate Index	3.03%	1.96%	2.50%	3.78%	4.90%
PIMCO MBS - Gross	1.77%	2.44%	2.41%	-	-
PIMCO MBS - Net	1.68%	2.25%	2.23%	-	-
Barclays Mortgage	1.98%	2.43%	2.70%	3.24%	4.85%
SSgA Long US Treas Idx - Gross	8.15%	2.76%	-	-	-
SSgA Long US Treas Idx - Net	8.13%	2.72%	-	-	-
Barclays Long Treas	8.15%	2.77%	6.14%	9.67%	7.97%
Below Inv. Grade Fixed Income					
Gross	2.38%	(2.61%)	3.11%	6.14%	5.87%
Net	2.27%	(3.01%)	2.67%	5.77%	5.47%
Barclays HY Corp 2% Issue	3.35%	(3.66%)	1.86%	4.93%	7.03%
Goldman Sachs 2006 Offshore - Net	0.06%	10.79%	20.68%	13.77%	-
Goldman Sachs Offshore V - Net	(3.14%)	7.11%	11.10%	12.93%	-
PIMCO Bravo II Fund - Net	3.17%	10.22%	-	-	-
Barclays HY Corp 2% Issue	3.35%	(3.66%)	1.86%	4.93%	7.03%
Loomis Sayles - Gross	2.29%	(4.95%)	1.77%	4.96%	6.98%
Loomis Sayles - Net	2.15%	(5.42%)	1.27%	4.55%	6.62%
Barclays HY Corp 2% Issue	3.35%	(3.66%)	1.86%	4.93%	7.03%

(1) The product changed from Commingled Fund to Separate Account in March 2014.
(2) Libor-3 month through Feb. 28, 2014; Fund's performance through March 31, 2014; Libor-3 month thereafter.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
International Fixed Income					
Gross	8.40%	2.64%	0.02%	2.41%	5.40%
Net	8.30%	2.22%	(0.34%)	2.11%	5.16%
Wtd Avg Int'l FI Benchmark	8.26%	6.69%	(0.32%)	0.39%	4.11%
Brandywine - Gross	8.48%	0.05%	0.93%	4.76%	6.95%
Brandywine - Net	8.37%	(0.42%)	0.54%	4.47%	6.77%
Barclays Global Aggregate	5.90%	4.57%	0.87%	1.81%	4.35%
UBS Global Asset Mgmt. - Gross	8.31%	6.10%	(0.79%)	(0.01%)	3.62%
UBS Global Asset Mgmt. - Net	8.22%	5.74%	(1.10%)	(0.32%)	3.31%
Blended Benchmark(1)	8.26%	6.69%	(0.32%)	0.39%	4.11%
Global Real Assets					
Gross	2.78%	9.68%	10.02%	-	-
Net	2.67%	9.25%	9.59%	-	-
Wtd Avg Global Real Assets Benchmark	1.19%	6.63%	7.88%	-	-
Global Real Estate					
Gross	3.36%	15.30%	15.24%	14.31%	6.16%
Net	3.23%	14.77%	14.69%	13.50%	4.40%
NCREIF Total Index	2.21%	11.84%	11.91%	11.93%	7.61%
Invesco Core Real Estate - Gross	1.47%	12.71%	13.11%	12.79%	6.73%
Invesco Core Real Estate - Net	1.38%	12.33%	12.70%	12.36%	6.21%
Invesco Fund II - Net	(1.63%)	6.45%	13.46%	17.22%	-
Invesco Fund III - Net	8.19%	15.18%	20.82%	-	-
Invesco Asia RE Feeder - Net	4.68%	56.44%	23.54%	10.89%	-
Invesco Asia RE Fund III - Net	(2.51%)	-	-	-	-
Invesco Value Added Fd IV - Net	7.63%	-	-	-	-
JP Morgan - Gross	2.17%	14.41%	14.61%	14.70%	6.92%
JP Morgan - Net	1.93%	13.35%	13.47%	13.58%	5.85%
JP Morgan Alternative Fd - Net	3.36%	4.15%	(12.06%)	(0.33%)	(5.45%)
JP Morgan China Property Fd - Net	(1.09%)	5.99%	24.44%	14.44%	-
JPM Greater European Opp Fd - Net	27.49%	47.84%	27.75%	*******%)	-
NCREIF Total Index	2.21%	11.84%	11.91%	11.93%	7.61%
Timber					
Net	4.09%	6.65%	4.64%	-	-
TIR Teredo	12.75%	16.71%	14.02%	8.14%	11.11%
TIR Springbank	1.77%	3.71%	0.35%	(1.30%)	1.11%
NCREIF Timberland Index	(0.26%)	2.90%	7.71%	6.63%	6.65%
Infrastructure					
Gross	0.49%	0.55%	4.29%	-	-
Net	0.35%	(0.01%)	3.70%	-	-
JP Morgan Asian Infrastructure - Net	(1.71%)	(8.16%)	(1.03%)	2.09%	-
JP Morgan IIF - Gross	0.34%	1.05%	3.63%	6.09%	-
JP Morgan IIF - Net	0.12%	0.18%	2.71%	5.00%	-
Grosvenor Cust. Infrastructure - Net	3.17%	4.68%	10.36%	-	-
Grosvenor Cust. Infrastructure II - Net	(2.24%)	(0.84%)	-	-	-
CPI-W	0.61%	0.50%	0.42%	1.08%	1.75%
Cash & Cash Equivalents - Net	**0.10%**	**0.19%**	**0.10%**	**0.11%**	**0.92%**
Cash Account - Net	0.10%	0.19%	0.10%	0.11%	0.91%
3-month Treasury Bill	0.07%	0.12%	0.07%	0.08%	1.15%
Total Fund					
Gross	1.38%	(0.10%)	6.71%	6.70%	4.87%
Net	1.32%	(0.41%)	6.37%	6.27%	4.65%
Target*	0.98%	(0.83%)	5.44%	5.87%	5.32%

* Current Quarter Target = 16.5% Russell 1000 Index, 16.0% MSCI World, 12.3% Barclays Aggregate Index, 11.2% MSCI EAFE, 9.9% NCREIF Total Index, 5.0% CPI-W, 5.0% NDSIB PEN - Private Equity, 5.0% Barclays HY Corp 2% Issue, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.9% Russell 2000 Index, 3.2% MSCI EM and 1.0% 3-month Treasury Bill.

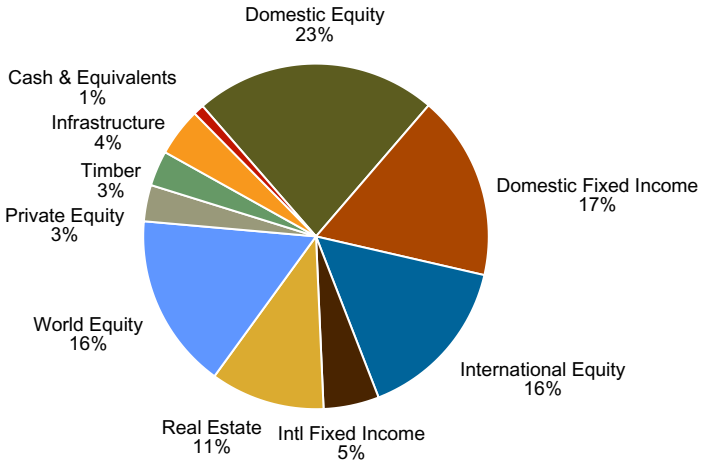
(1) Citigroup Non-US Govt through 12/31/2009 and the Barclays Global Aggregate Index ex US thereafter.

NDSIB - Public Employees
Retirement System

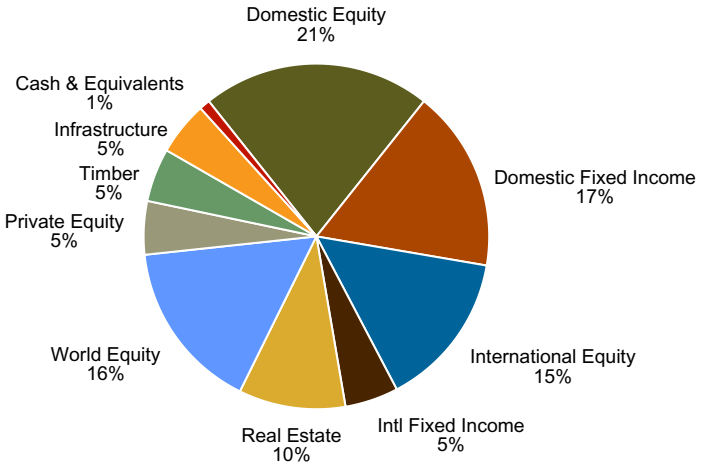
Actual vs Target Asset Allocation
As of March 31, 2016

The top left chart shows the Fund's asset allocation as of March 31, 2016. The top right chart shows the Fund's target asset allocation as outlined in the investment policy statement. The bottom chart ranks the fund's asset allocation and the target allocation versus the Public Fund Sponsor Database.

Actual Asset Allocation

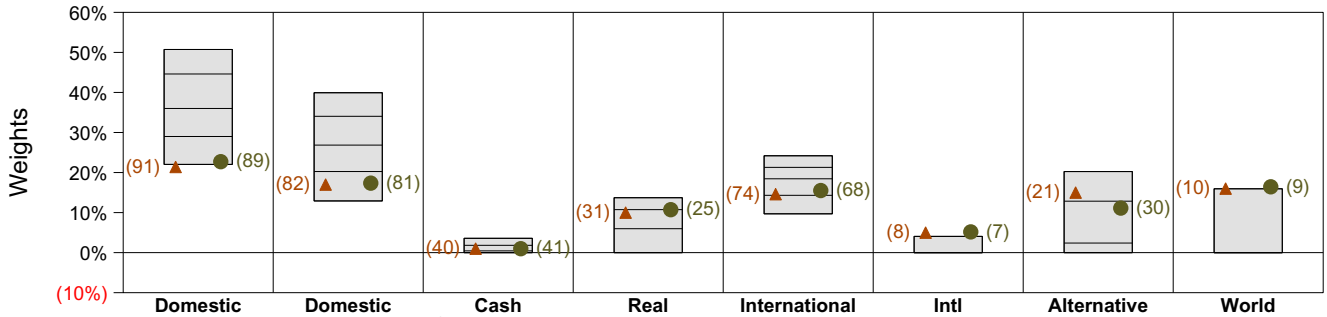


Target Asset Allocation



Asset Class	$000s Actual	Weight Actual	Target	Percent Difference	$000s Difference
Domestic Equity	549,965	22.7%	21.4%	1.3%	31,660
Domestic Fixed Income	420,156	17.3%	17.0%	0.3%	8,419
International Equity	375,521	15.5%	14.6%	0.9%	21,911
Intl Fixed Income	125,433	5.2%	5.0%	0.2%	4,334
Real Estate	259,649	10.7%	10.0%	0.7%	17,450
World Equity	398,052	16.4%	16.0%	0.4%	10,534
Private Equity	81,780	3.4%	5.0%	(1.6%)	(39,320)
Timber	78,848	3.3%	5.0%	(1.7%)	(42,251)
Infrastructure	108,778	4.5%	5.0%	(0.5%)	(12,322)
Cash & Equivalents	23,805	1.0%	1.0%	0.0%	(414)
Total	2,421,987	100.0%	100.0%		

Asset Class Weights vs Public Fund Sponsor Database



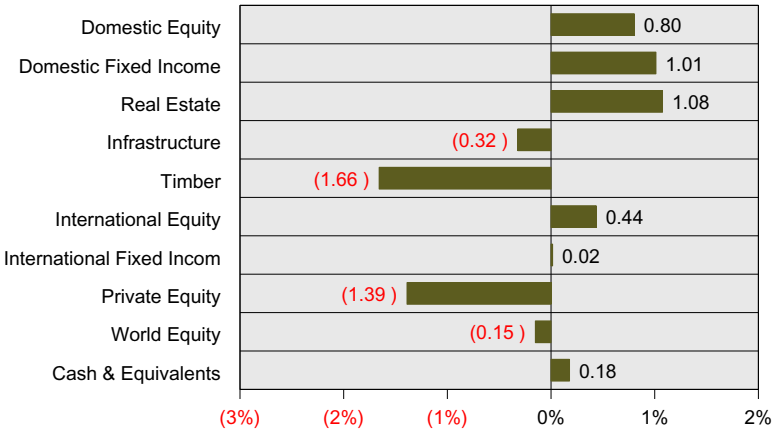
	Domestic Equity	Domestic Fixed Income	Cash & Equivalents	Real Estate	International Equity	Intl Fixed Income	Alternative	World Equity
10th Percentile	50.73	39.93	3.58	13.71	24.19	4.06	20.25	15.94
25th Percentile	44.61	34.04	1.83	10.74	21.29	0.00	12.84	0.00
Median	36.00	26.85	0.44	5.98	18.44	0.00	2.40	0.00
75th Percentile	29.00	20.25	0.00	0.00	14.31	0.00	0.00	0.00
90th Percentile	22.03	12.91	0.00	0.00	9.69	0.00	0.00	0.00
Fund ●	22.71	17.35	0.98	10.72	15.50	5.18	11.12	16.43
Target ▲	21.40	17.00	1.00	10.00	14.60	5.00	15.00	16.00
% Group Invested	97.44%	96.92%	70.26%	61.03%	89.74%	19.49%	44.62%	23.08%

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

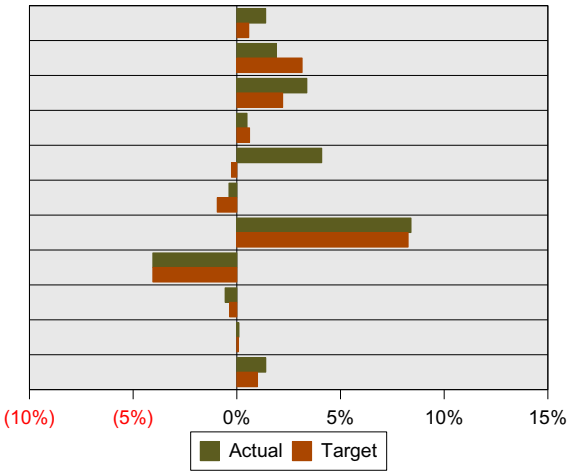
Quarterly Total Fund Relative Attribution - March 31, 2016

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

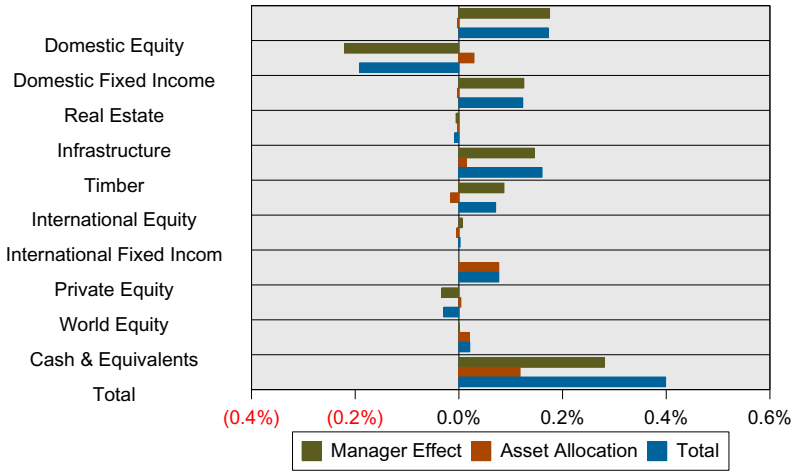
Asset Class Under or Overweighting



Actual vs Target Returns



Relative Attribution by Asset Class



Relative Attribution Effects for Quarter ended March 31, 2016

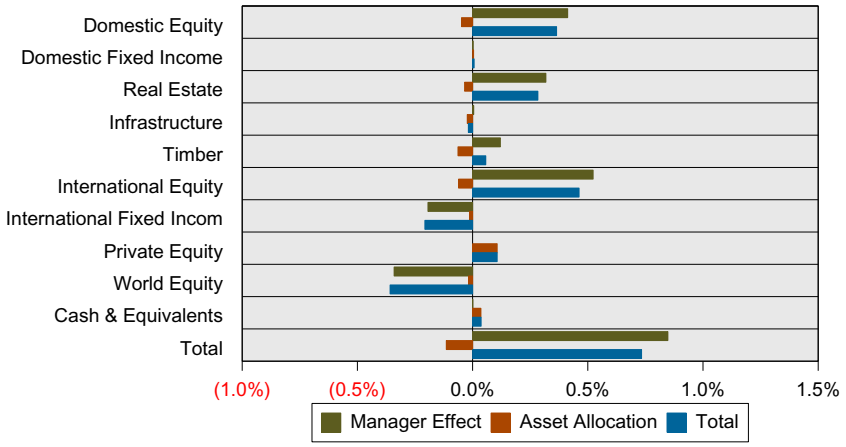
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	22%	21%	1.39%	0.58%	0.17%	(0.00%)	0.17%
Domestic Fixed Income	18%	17%	1.91%	3.15%	(0.22%)	0.03%	(0.19%)
Real Estate	11%	10%	3.38%	2.21%	0.13%	(0.00%)	0.12%
Infrastructure	5%	5%	0.49%	0.61%	(0.01%)	(0.00%)	(0.01%)
Timber	3%	5%	4.09%	(0.26%)	0.15%	0.01%	0.16%
International Equity	15%	15%	(0.38%)	(0.95%)	0.09%	(0.02%)	0.07%
International Fixed Incom	5%	5%	8.40%	8.26%	0.01%	(0.00%)	0.00%
Private Equity	4%	5%	(4.05%)	(4.05%)	0.00%	0.08%	0.08%
World Equity	16%	16%	(0.57%)	(0.35%)	(0.03%)	0.00%	(0.03%)
Cash & Equivalents	1%	1%	0.10%	0.07%	0.00%	0.02%	0.02%
Total			**1.40% =**	**1.00% +**	**0.28% +**	**0.12%**	**0.40%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

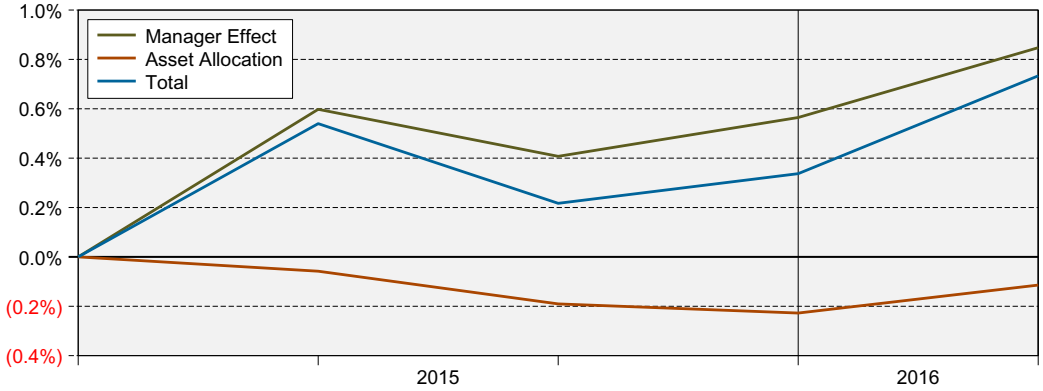
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

One Year Relative Attribution Effects



Cumulative Relative Attribution Effects



One Year Relative Attribution Effects

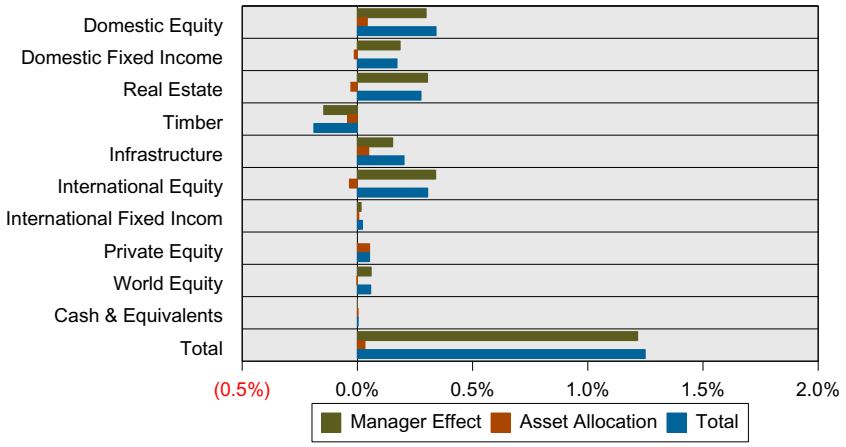
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	23%	21%	0.02%	(1.83%)	0.41%	(0.05%)	0.36%
Domestic Fixed Income	18%	17%	0.38%	0.33%	0.00%	0.00%	0.01%
Real Estate	10%	10%	15.41%	11.84%	0.32%	(0.03%)	0.28%
Infrastructure	5%	5%	0.55%	0.50%	0.00%	(0.02%)	(0.02%)
Timber	4%	5%	6.65%	2.90%	0.12%	(0.06%)	0.06%
International Equity	15%	15%	(5.74%)	(9.05%)	0.52%	(0.06%)	0.46%
International Fixed Incom	5%	5%	2.64%	6.69%	(0.19%)	(0.01%)	(0.21%)
Private Equity	4%	5%	(9.27%)	(9.27%)	0.00%	0.11%	0.11%
World Equity	16%	16%	(5.56%)	(3.45%)	(0.34%)	(0.02%)	(0.36%)
Cash & Equivalents	1%	1%	0.19%	0.12%	0.00%	0.04%	0.04%
Total			**(0.12%) =**	**(0.85%) +**	**0.85% +**	**(0.11%)**	**0.73%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

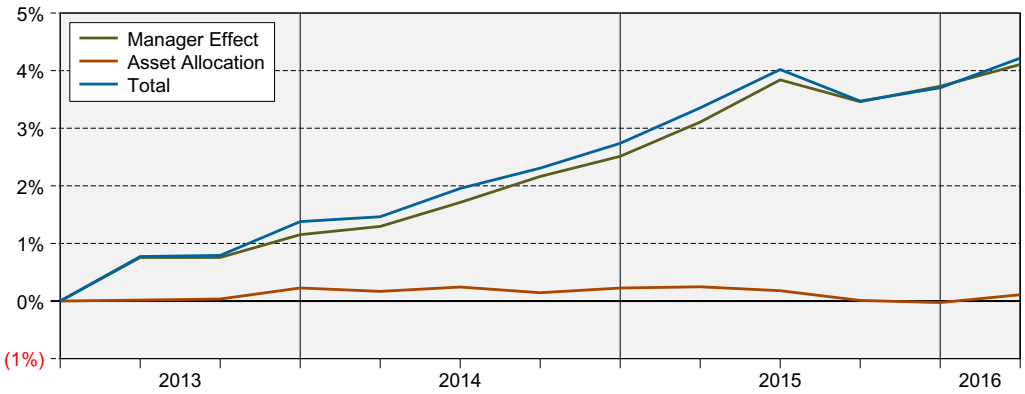
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Three Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Three Year Annualized Relative Attribution Effects

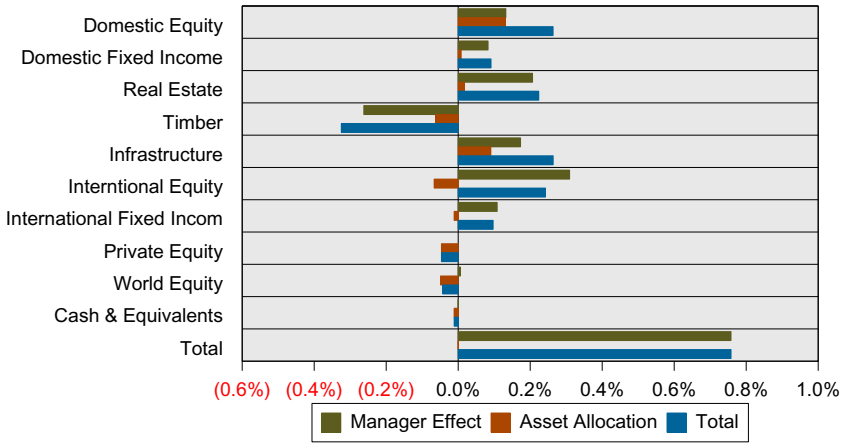
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	23%	21%	11.91%	10.52%	0.30%	0.04%	0.34%
Domestic Fixed Income	18%	17%	3.36%	2.34%	0.19%	(0.01%)	0.17%
Real Estate	10%	10%	15.30%	11.91%	0.30%	(0.03%)	0.28%
Timber	4%	5%	4.65%	7.71%	(0.15%)	(0.04%)	(0.19%)
Infrastructure	4%	5%	4.30%	0.42%	0.15%	0.05%	0.20%
International Equity	15%	15%	2.92%	0.67%	0.34%	(0.03%)	0.31%
International Fixed Incom	5%	5%	0.03%	(0.32%)	0.02%	0.01%	0.02%
Private Equity	4%	5%	(1.75%)	(1.75%)	0.00%	0.05%	0.05%
World Equity	16%	16%	7.21%	6.82%	0.06%	(0.00%)	0.06%
Cash & Equivalents	1%	1%	0.10%	0.07%	0.00%	0.00%	0.00%
Total			**6.70% =**	**5.45% +**	**1.22% +**	**0.03%**	**1.25%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

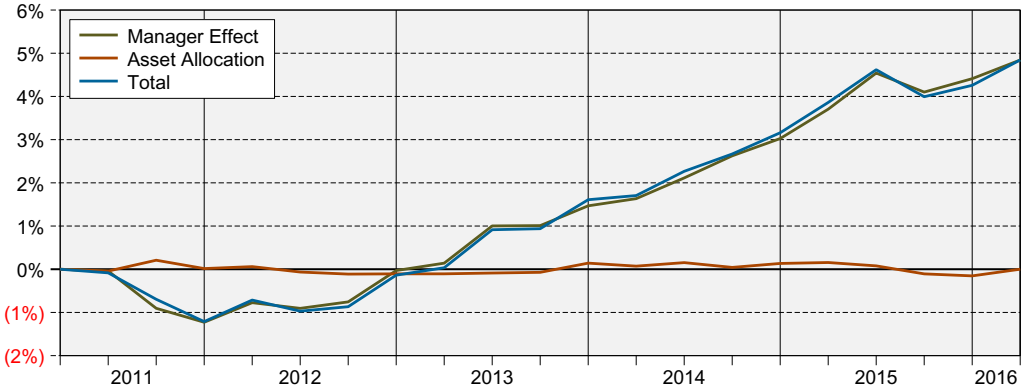
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Five Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Five Year Annualized Relative Attribution Effects

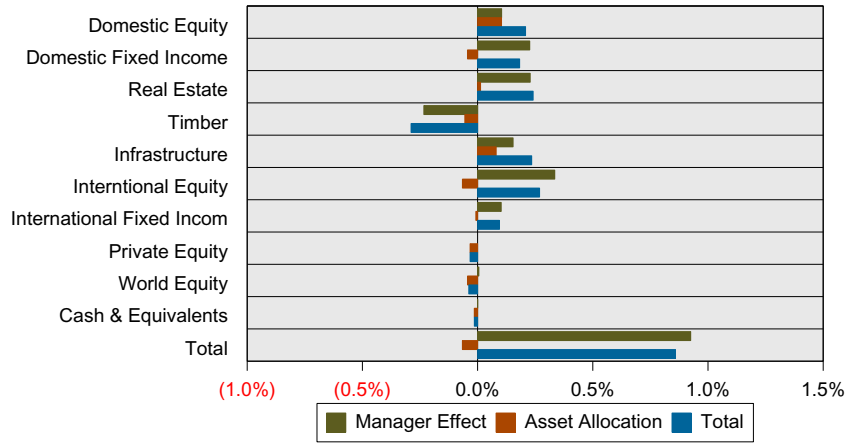
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	26%	25%	11.36%	10.55%	0.13%	0.13%	0.26%
Domestic Fixed Income	19%	18%	5.44%	4.44%	0.08%	0.01%	0.09%
Real Estate	9%	10%	14.35%	11.93%	0.21%	0.02%	0.22%
Timber	4%	5%	-	-	(0.26%)	(0.06%)	(0.32%)
Infrastructure	4%	5%	-	-	0.17%	0.09%	0.26%
Interntional Equity	16%	16%	2.71%	0.69%	0.31%	(0.07%)	0.24%
International Fixed Incom	5%	5%	2.41%	0.39%	0.11%	(0.01%)	0.10%
Private Equity	5%	5%	0.85%	0.85%	0.00%	(0.05%)	(0.05%)
World Equity	11%	12%	-	-	0.01%	(0.05%)	(0.04%)
Cash & Equivalents	1%	1%	0.09%	0.08%	0.00%	(0.01%)	(0.01%)
Total			**6.71% =**	**5.95% +**	**0.76% +**	**0.00%**	**0.76%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

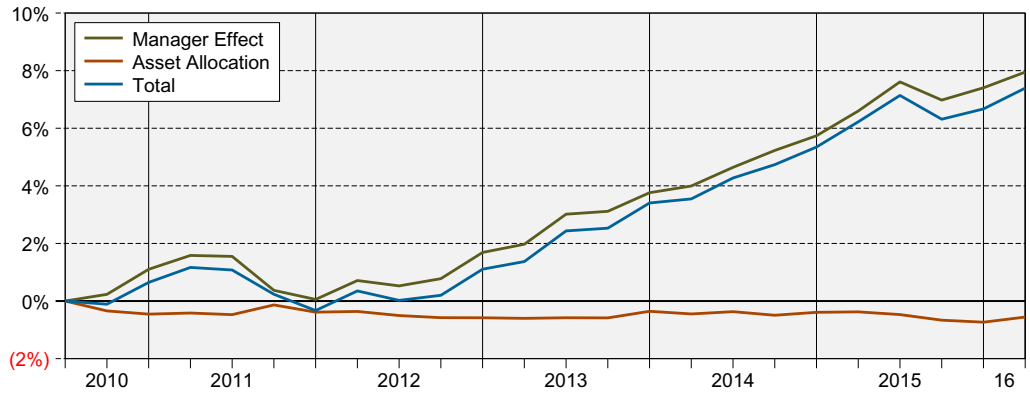
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Five and Three-Quarter Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Five and Three-Quarter Year Annualized Relative Attribution Effects

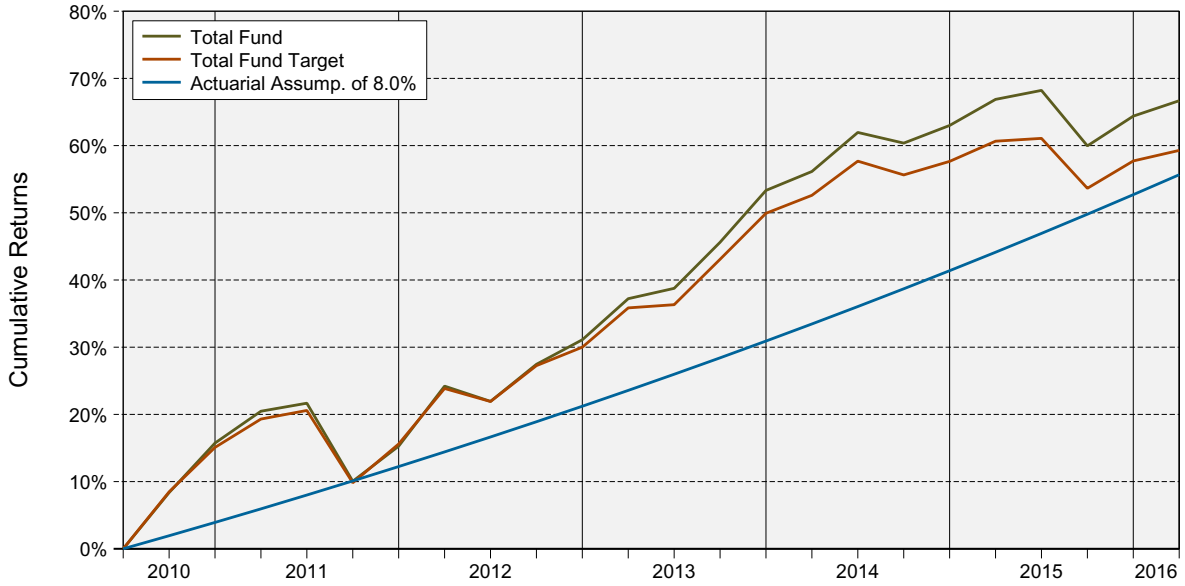
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	28%	27%	15.35%	14.64%	0.10%	0.10%	0.21%
Domestic Fixed Income	20%	20%	5.90%	4.51%	0.23%	(0.04%)	0.18%
Real Estate	9%	9%	15.59%	12.54%	0.23%	0.01%	0.24%
Timber	4%	4%	-	-	(0.23%)	(0.06%)	(0.29%)
Infrastructure	3%	4%	-	-	0.15%	0.08%	0.23%
Interntional Equity	16%	16%	6.70%	4.49%	0.33%	(0.07%)	0.27%
International Fixed Incom	5%	5%	4.16%	2.23%	0.10%	(0.01%)	0.09%
Private Equity	5%	5%	2.86%	2.86%	0.00%	(0.03%)	(0.03%)
World Equity	10%	10%	-	-	0.01%	(0.04%)	(0.04%)
Cash & Equivalents	1%	1%	0.11%	0.09%	0.00%	(0.01%)	(0.01%)
Total			**9.29%** =	**8.43%** +	**0.92%** +	**(0.07%)**	**0.86%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

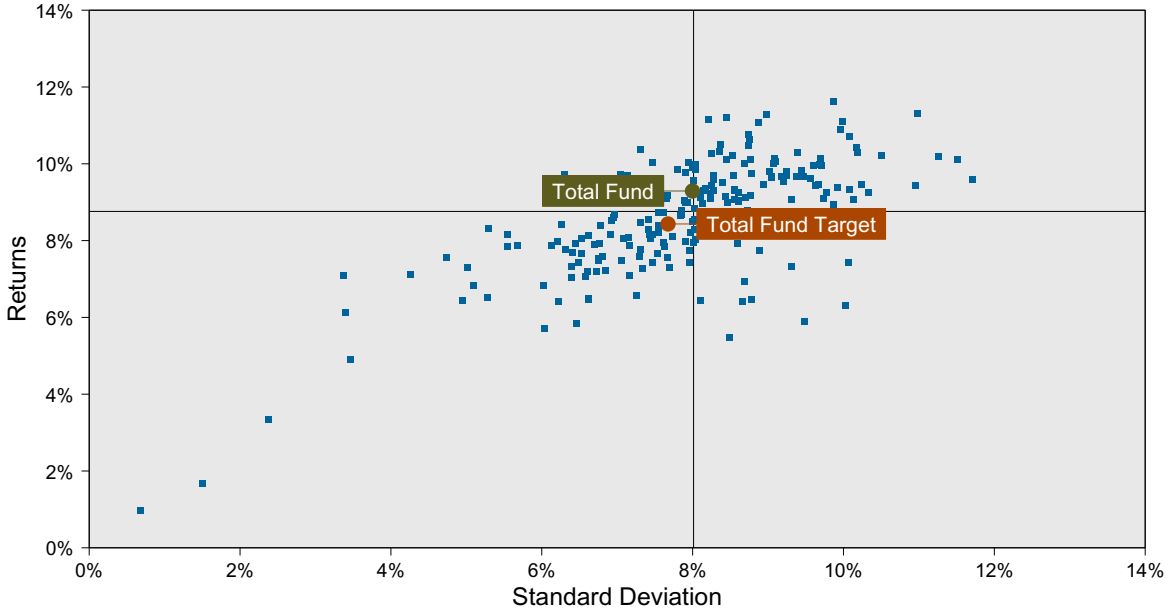
Cumulative Performance Relative to Target

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the Public Fund Sponsor Database.

Cumulative Returns Actual vs Target



Five and Three-Quarter Year Annualized Risk vs Return



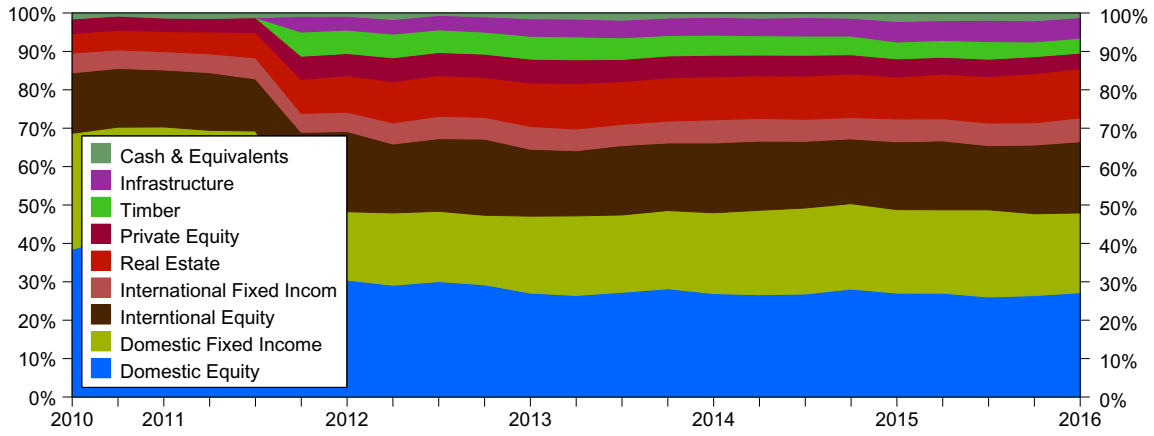
Squares represent membership of the Public Fund Sponsor Database

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

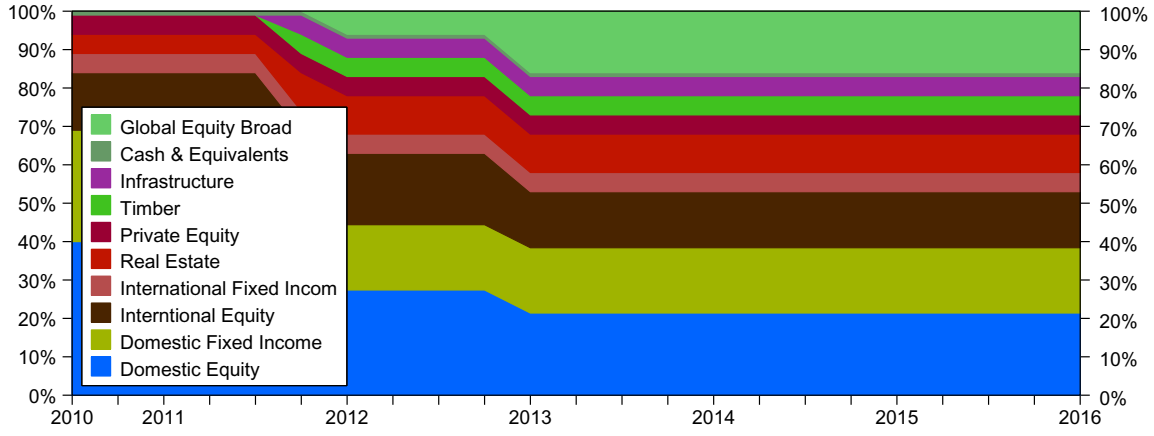
Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the Public Fund Sponsor Database.

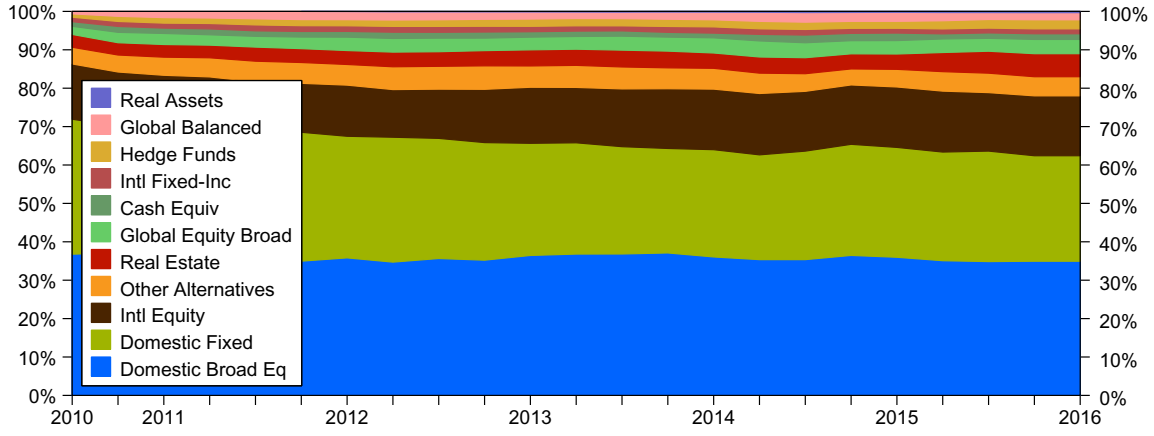
Actual Historical Asset Allocation



Target Historical Asset Allocation



Average Public Fund Sponsor Database Historical Asset Allocation

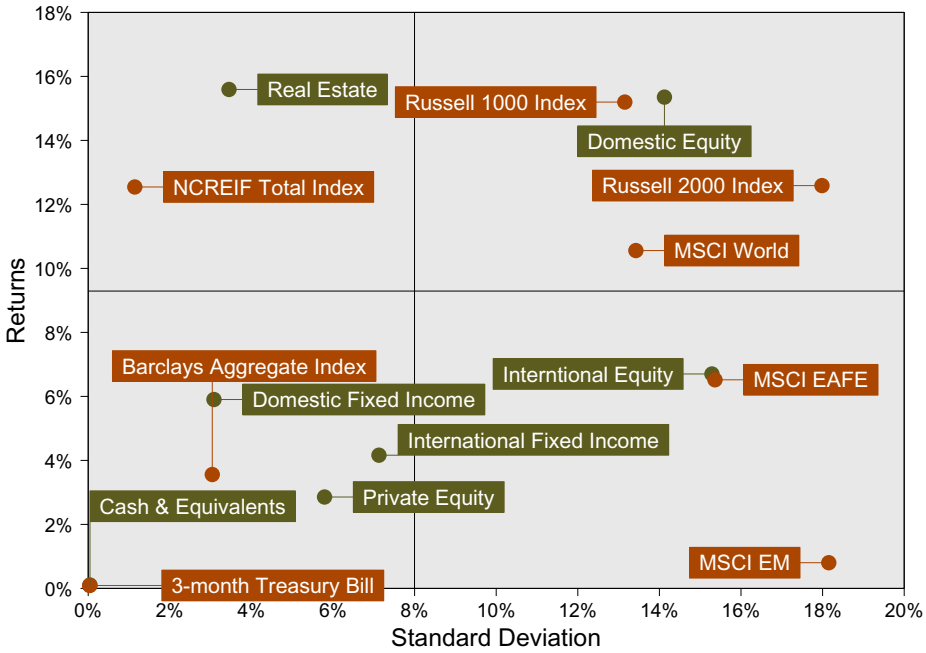


* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

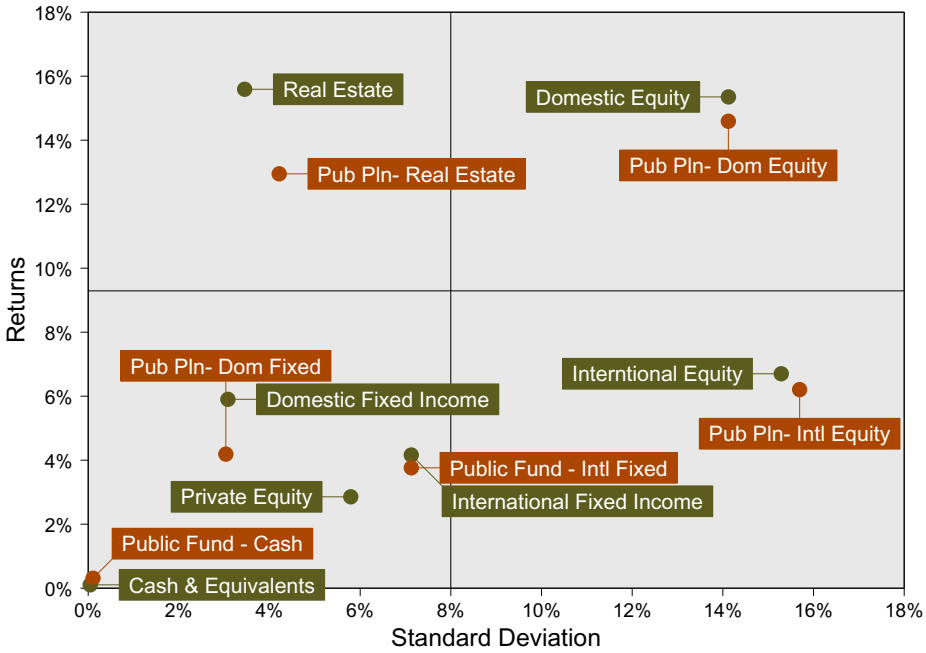
Asset Class Risk and Return

The charts below show the five and three-quarter year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

Five and Three-Quarter Year Annualized Risk vs Return
Asset Classes vs Benchmark Indices



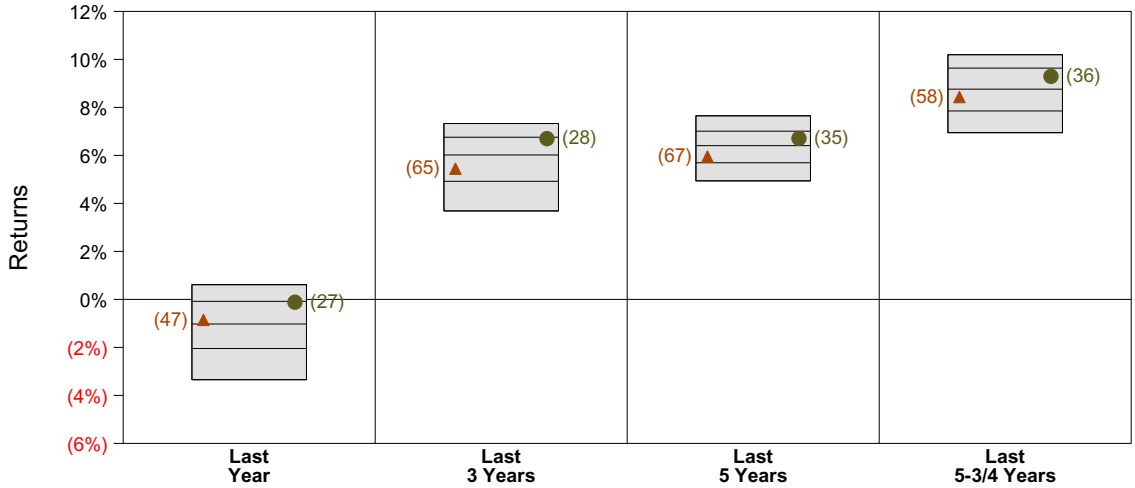
Five and Three-Quarter Year Annualized Risk vs Return
Asset Classes vs Asset Class Median



Total Fund Ranking

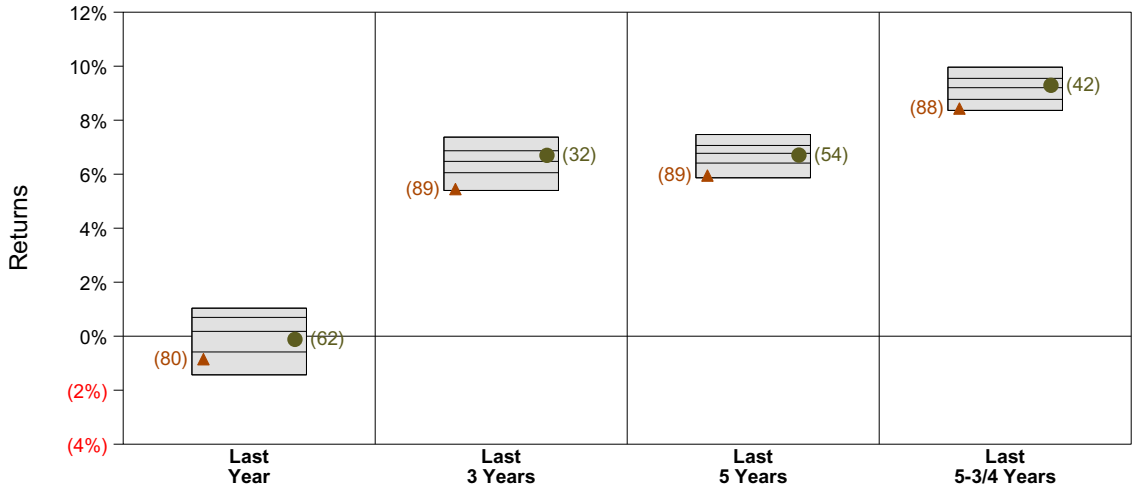
The first two charts show the ranking of the Total Fund's performance relative to that of the Public Fund Sponsor Database for periods ended March 31, 2016. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund.

Public Fund Sponsor Database



	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
10th Percentile	0.61	7.33	7.65	10.20
25th Percentile	(0.08)	6.76	7.01	9.64
Median	(1.03)	6.02	6.41	8.76
75th Percentile	(2.05)	4.92	5.69	7.85
90th Percentile	(3.35)	3.69	4.94	6.95
Total Fund ●	(0.12)	6.70	6.71	9.29
Policy Target ▲	(0.85)	5.45	5.95	8.43

Asset Allocation Adjusted Ranking



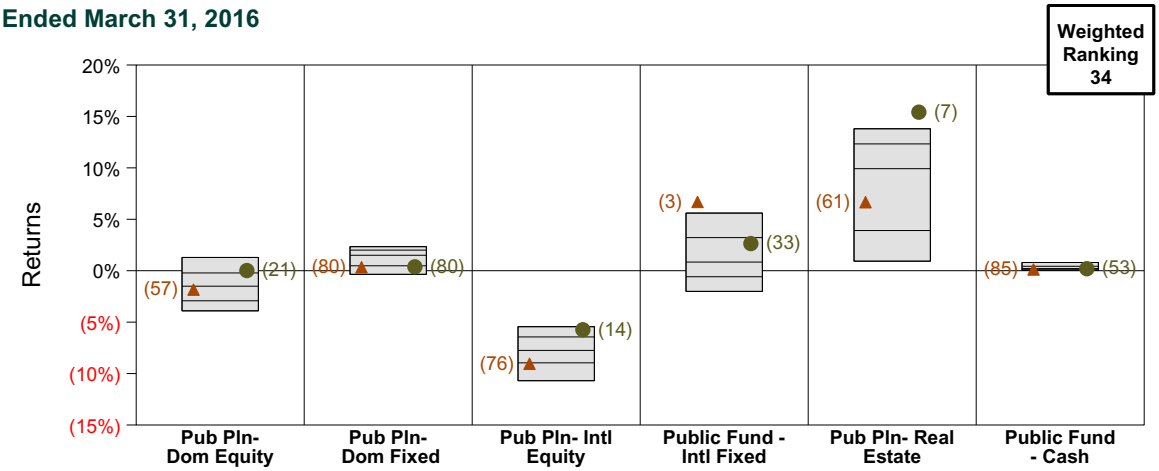
	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
10th Percentile	1.04	7.37	7.47	9.96
25th Percentile	0.70	6.87	7.06	9.55
Median	0.18	6.48	6.77	9.20
75th Percentile	(0.58)	6.06	6.41	8.77
90th Percentile	(1.43)	5.40	5.87	8.36
Total Fund ●	(0.12)	6.70	6.71	9.29
Policy Target ▲	(0.85)	5.45	5.95	8.43

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

Asset Class Rankings

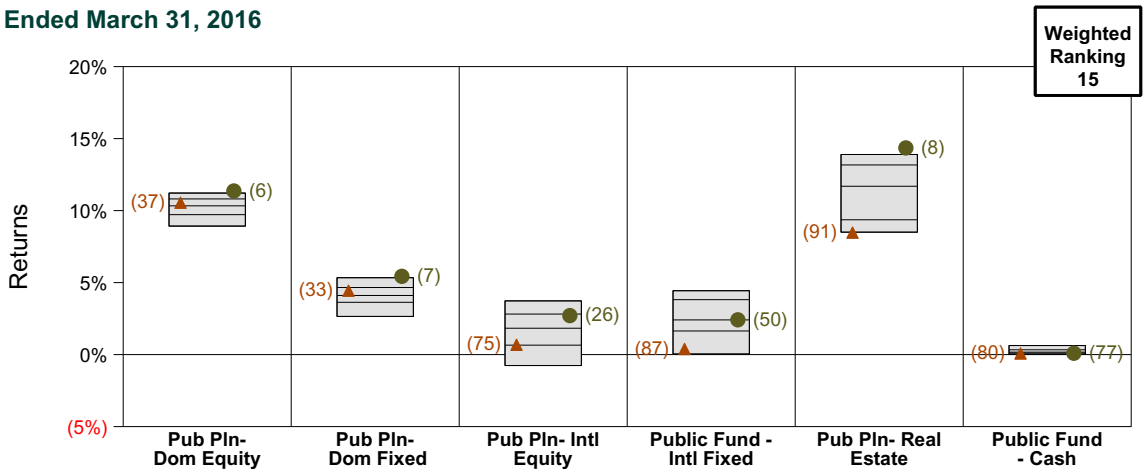
The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper right corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

Total Asset Class Performance
One Year Ended March 31, 2016



	Pub Pln- Dom Equity	Pub Pln- Dom Fixed	Pub Pln- Intl Equity	Public Fund - Intl Fixed	Pub Pln- Real Estate	Public Fund - Cash
10th Percentile	1.29	2.34	(5.44)	5.60	13.80	0.80
25th Percentile	(0.22)	2.00	(6.44)	3.22	12.33	0.43
Median	(1.51)	1.50	(7.75)	0.84	9.92	0.21
75th Percentile	(2.92)	0.48	(8.96)	(0.59)	3.91	0.17
90th Percentile	(3.90)	(0.35)	(10.69)	(2.01)	0.93	0.06
Asset Class Composite ●	0.02	0.38	(5.74)	2.64	15.41	0.19
Composite Benchmark ▲	(1.83)	0.33	(9.05)	6.69	6.66	0.12

Total Asset Class Performance
Five Years Ended March 31, 2016



	Pub Pln- Dom Equity	Pub Pln- Dom Fixed	Pub Pln- Intl Equity	Public Fund - Intl Fixed	Pub Pln- Real Estate	Public Fund - Cash
10th Percentile	11.22	5.34	3.73	4.44	13.90	0.63
25th Percentile	10.81	4.66	2.82	3.81	13.17	0.33
Median	10.33	4.11	1.83	2.41	11.69	0.17
75th Percentile	9.72	3.63	0.66	1.64	9.36	0.11
90th Percentile	8.92	2.65	(0.76)	0.04	8.50	0.03
Asset Class Composite ●	11.36	5.44	2.71	2.41	14.35	0.09
Composite Benchmark ▲	10.55	4.44	0.69	0.39	8.47	0.08

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

Asset Class Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of March 31, 2016, with the distribution as of December 31, 2015. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

Asset Class Allocation

	March 31, 2016				December 31, 2015	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
GLOBAL EQUITY	**$1,405,317,251**	**58.02%**	**$50,370,975**	**$3,747,731**	**$1,351,198,545**	**56.98%**
Domestic Equity	**$549,964,985**	**22.71%**	**$16,284,885**	**$8,419,112**	**$525,260,988**	**22.15%**
Large Cap	427,641,315	17.66%	5,909,885	8,919,958	412,811,472	17.41%
Small Cap	122,323,669	5.05%	10,375,000	(500,846)	112,449,516	4.74%
International Equity	**$375,521,049**	**15.50%**	**$19,810,449**	**$(238,476)**	**$355,949,076**	**15.01%**
Developed Intl Equity	279,150,385	11.53%	13,810,449	(4,084,571)	269,424,507	11.36%
Emerging Markets	96,370,664	3.98%	6,000,000	3,846,095	86,524,569	3.65%
World Equity	**$398,051,637**	**16.43%**	**$17,003,798**	**$(898,051)**	**$381,945,890**	**16.11%**
Private Equity	**$81,779,580**	**3.38%**	**$(2,728,157)**	**$(3,534,854)**	**$88,042,590**	**3.71%**
GLOBAL FIXED INCOME	**$545,589,781**	**22.53%**	**$(11,257,399)**	**$17,630,478**	**$539,216,703**	**22.74%**
Domestic Fixed Income	**$420,156,402**	**17.35%**	**$(11,928,428)**	**$7,916,929**	**$424,167,902**	**17.89%**
Inv. Grade Fixed Income	293,068,200	12.10%	(12,267,060)	4,962,548	300,372,713	12.67%
Below Inv. Grade Fixed Income	127,088,202	5.25%	338,632	2,954,381	123,795,189	5.22%
International Fixed Income	**$125,433,379**	**5.18%**	**$671,029**	**$9,713,549**	**$115,048,801**	**4.85%**
GLOBAL REAL ASSETS	**$447,274,664**	**18.47%**	**$(5,362,044)**	**$12,356,139**	**$440,280,569**	**18.57%**
Real Estate	259,649,063	10.72%	(3,958,270)	8,714,288	254,893,045	10.75%
Timber	78,847,973	3.26%	(505,119)	3,105,599	76,247,493	3.22%
Infrastructure	108,777,628	4.49%	(898,654)	536,252	109,140,031	4.60%
Cash & Equivalents	**$23,805,431**	**0.98%**	**$(16,943,626)**	**$25,562**	**$40,723,495**	**1.72%**
Securities Lending Income	**$0**	**0.00%**	**$(44,781)**	**$44,781**	**-**	**-**
Total Fund	**$2,421,987,127**	**100.0%**	**$16,763,125**	**$33,804,691**	**$2,371,419,311**	**100.0%**

PLEASE REFER TO PAGES 36-38 FOR INVESTMENT MANAGER LEVEL ASSET ALLOCATION.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
Global Equity					
Gross	0.05%	(3.68%)	7.21%	-	-
Net	0.00%	(3.98%)	6.86%	-	-
Wtd Avg Global Equity Benchmark	(0.48%)	(4.79%)	5.85%	-	-
Domestic Equity					
Gross	1.39%	0.02%	11.91%	11.36%	15.35%
Net	1.37%	(0.11%)	11.71%	11.13%	15.10%
Wtd Avg Domestci Equity Benchmark	0.58%	(1.83%)	10.52%	10.55%	14.64%
Large Cap Equity					
Gross	2.07%	2.87%	13.30%	12.32%	15.99%
Net	2.04%	2.76%	13.12%	12.09%	15.73%
Benchmark(1)	1.17%	0.50%	11.52%	11.55%	15.19%
Small Cap Equity					
Gross	(1.20%)	(9.67%)	7.01%	8.21%	13.10%
Net	(1.20%)	(9.85%)	6.77%	7.97%	12.86%
Russell 2000 Index	(1.52%)	(9.76%)	6.84%	7.20%	12.59%
International Equity					
Gross	(0.38%)	(5.74%)	2.92%	2.71%	6.70%
Net	(0.44%)	(5.93%)	2.68%	2.40%	6.37%
Wtd Avg Intl Equity Benchmark	(0.95%)	(9.05%)	0.67%	0.69%	4.49%
Developed Intl Equity					
Gross	(1.74%)	(4.41%)	4.59%	3.44%	7.68%
Net	(1.82%)	(4.66%)	4.32%	3.14%	7.35%
Benchmark(2)	(3.01%)	(8.27%)	2.23%	2.29%	5.53%
Emerging Markets					
Gross	3.75%	(10.60%)	(2.96%)	(0.70%)	3.15%
Net	3.75%	(10.60%)	(3.13%)	(1.01%)	2.81%
Benchmark(3)	5.71%	(12.03%)	(4.50%)	(4.11%)	0.85%
World Equity					
Gross	(0.57%)	(5.56%)	7.21%	-	-
Net	(0.65%)	(6.30%)	6.46%	-	-
MSCI World Index	(0.35%)	(3.45%)	6.82%	6.51%	10.56%
Private Equity					
Net	(4.05%)	(9.28%)	(1.78%)	0.78%	2.76%

(1) S&P 500 Index through 12/31/2011 and the Russell 1000 Index thereafter.
(2) 50% Hedged EAFE through 3/31/2011 and MSCI EAFE thereafter.
(3) MSCI Emerging Mkts Idx (Gross) through 6/30/2011 and MSCI Emerging Mkts Idx Net thereafter.

PLEASE REFER TO PAGES 39-43 FOR INVESTMENT MANAGER LEVEL RETURNS.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
Global Fixed Income					
Gross	3.32%	0.92%	2.70%	-	-
Net	3.25%	0.66%	2.45%	-	-
Wtd Avg Global Fixed Income Benchmark	4.29%	1.76%	1.76%	-	-
Domestic Fixed Income					
Gross	1.91%	0.38%	3.36%	5.44%	5.90%
Net	1.85%	0.16%	3.14%	5.20%	5.65%
Wtd Avg Domestic FI Benchmark	3.15%	0.33%	2.34%	4.44%	4.51%
Inv. Grade Fixed Income					
Gross	1.68%	1.62%	3.43%	4.92%	5.15%
Net	1.62%	1.49%	3.31%	4.77%	4.98%
Barclays Aggregate Index	3.03%	1.96%	2.50%	3.78%	3.56%
Below Inv. Grade Fixed Income					
Gross	2.38%	(2.61%)	3.11%	6.14%	8.02%
Net	2.27%	(3.01%)	2.67%	5.70%	7.58%
Barclays HY Corp 2% Issue	3.35%	(3.66%)	1.86%	4.93%	6.73%
International Fixed Income					
Gross	8.40%	2.64%	0.03%	2.41%	4.16%
Net	8.30%	2.22%	(0.33%)	2.05%	3.79%
Wtd Avg Intl Fixed Income Benchmark	8.26%	6.69%	(0.32%)	0.39%	2.23%
Global Real Assets					
Gross	2.80%	9.78%	10.08%	-	-
Net	2.69%	9.35%	9.65%	-	-
Wtd Avg Global Real Assets Benchmark	1.19%	6.68%	7.93%	-	-
Real Estate					
Gross	3.38%	15.41%	15.30%	14.35%	15.59%
Net	3.25%	14.88%	14.75%	13.80%	15.02%
NCREIF Total Index	2.21%	11.84%	11.91%	11.93%	12.54%
Timber					
Net	4.09%	6.65%	4.65%	-	-
NCREIF Timberland Index	(0.26%)	2.90%	7.71%	6.63%	5.71%
Infrastructure					
Gross	0.49%	0.55%	4.30%	-	-
Net	0.35%	(0.01%)	3.70%	-	-
CPI-W	0.61%	0.50%	0.42%	1.08%	1.44%
Cash & Equivalents - Net	**0.10%**	**0.19%**	**0.10%**	**0.09%**	**0.11%**
3-month Treasury Bill	0.07%	0.12%	0.07%	0.08%	0.09%
Total Fund					
Gross	1.40%	(0.12%)	6.70%	6.71%	9.29%
Net	1.33%	(0.43%)	6.36%	6.37%	8.94%
Target*	1.00%	(0.85%)	5.45%	5.95%	8.43%

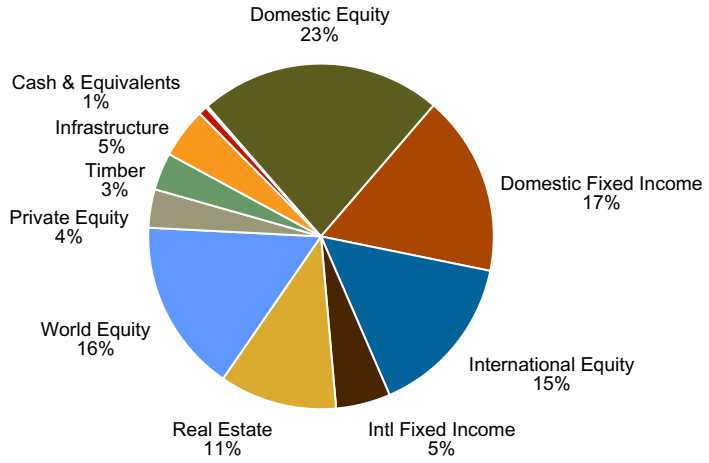
* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.1% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB PERS - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 3.5% MSCI EM and 1.0% 3-month Treasury Bill.

PLEASE REFER TO PAGES 39-43 FOR INVESTMENT MANAGER LEVEL RETURNS.

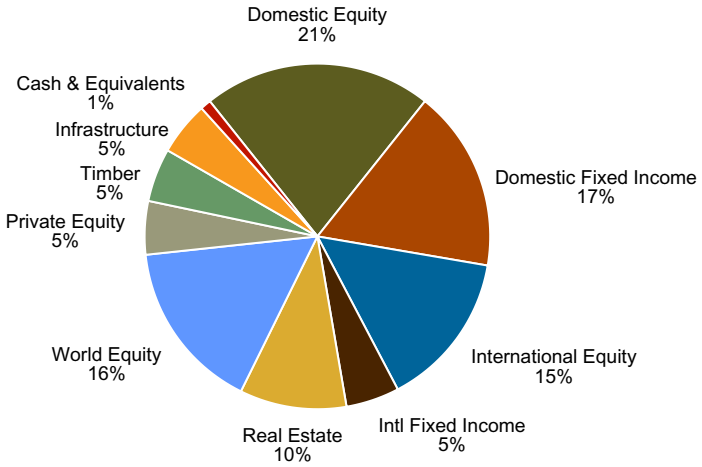
Actual vs Target Asset Allocation
As of March 31, 2016

The top left chart shows the Fund's asset allocation as of March 31, 2016. The top right chart shows the Fund's target asset allocation as outlined in the investment policy statement. The bottom chart ranks the fund's asset allocation and the target allocation versus the Public Fund Sponsor Database.

Actual Asset Allocation

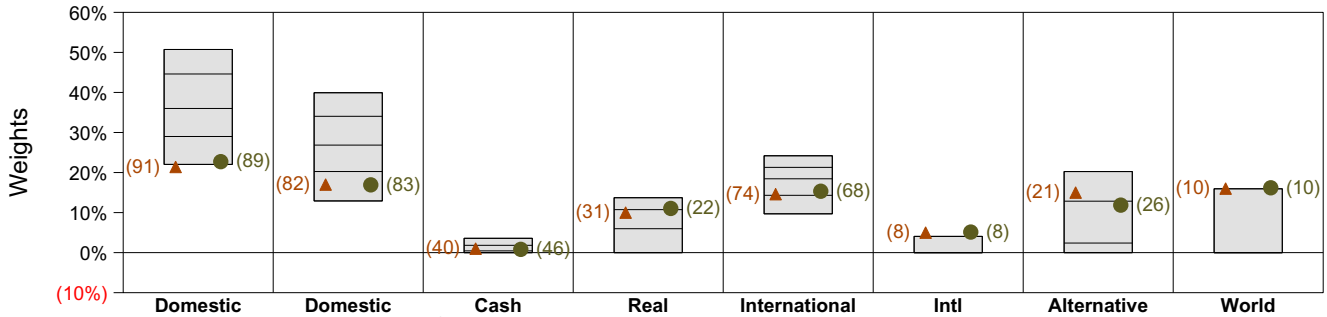


Target Asset Allocation



Asset Class	$000s Actual	Weight Actual	Target	Percent Difference	$000s Difference
Domestic Equity	467,358	22.7%	21.4%	1.3%	27,076
Domestic Fixed Income	348,194	16.9%	17.0%	(0.1%)	(1,564)
International Equity	315,365	15.3%	14.6%	0.7%	14,985
Intl Fixed Income	105,630	5.1%	5.0%	0.1%	2,760
Real Estate	227,060	11.0%	10.0%	1.0%	21,321
World Equity	333,046	16.2%	16.0%	0.2%	3,862
Private Equity	75,064	3.6%	5.0%	(1.4%)	(27,805)
Timber	71,518	3.5%	5.0%	(1.5%)	(31,352)
Infrastructure	97,394	4.7%	5.0%	(0.3%)	(5,476)
Cash & Equivalents	16,767	0.8%	1.0%	(0.2%)	(3,807)
Total	2,057,395	100.0%	100.0%		

Asset Class Weights vs Public Fund Sponsor Database



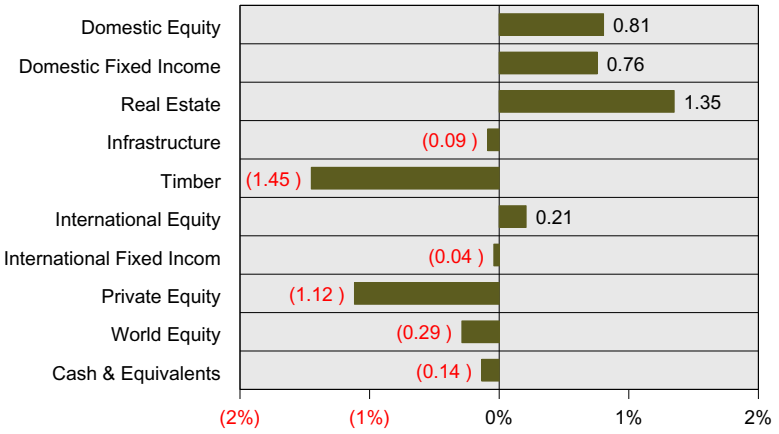
	Domestic Equity	Domestic Fixed Income	Cash & Equivalents	Real Estate	International Equity	Intl Fixed Income	Alternative	World Equity
10th Percentile	50.73	39.93	3.58	13.71	24.19	4.06	20.25	15.94
25th Percentile	44.61	34.04	1.83	10.74	21.29	0.00	12.84	0.00
Median	36.00	26.85	0.44	5.98	18.44	0.00	2.40	0.00
75th Percentile	29.00	20.25	0.00	0.00	14.31	0.00	0.00	0.00
90th Percentile	22.03	12.91	0.00	0.00	9.69	0.00	0.00	0.00
Fund ●	22.72	16.92	0.81	11.04	15.33	5.13	11.86	16.19
Target ▲	21.40	17.00	1.00	10.00	14.60	5.00	15.00	16.00
% Group Invested	97.44%	96.92%	70.26%	61.03%	89.74%	19.49%	44.62%	23.08%

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

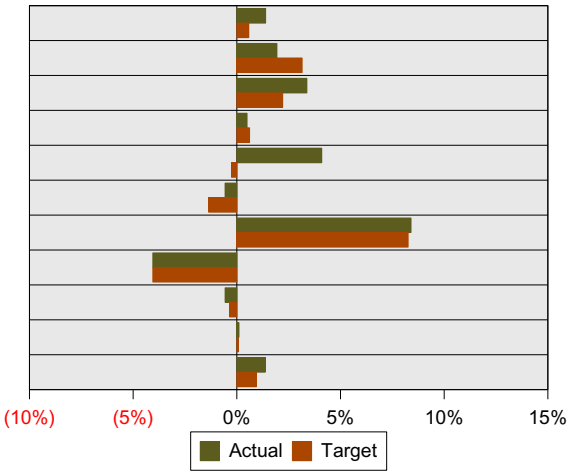
Quarterly Total Fund Relative Attribution - March 31, 2016

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

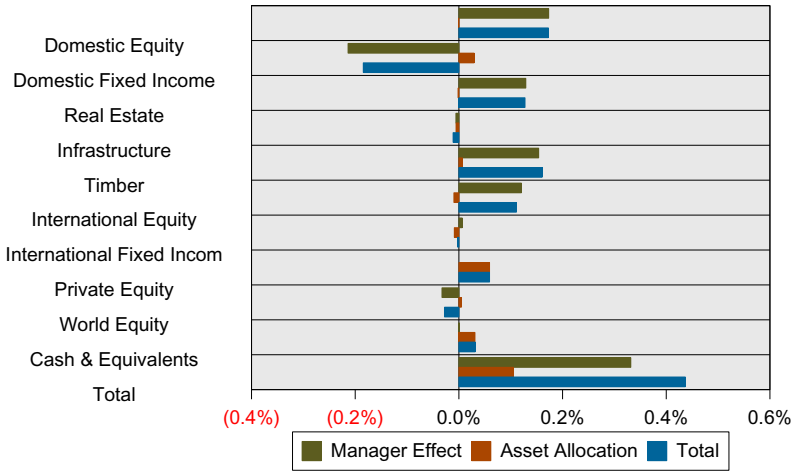
Asset Class Under or Overweighting



Actual vs Target Returns



Relative Attribution by Asset Class



Relative Attribution Effects for Quarter ended March 31, 2016

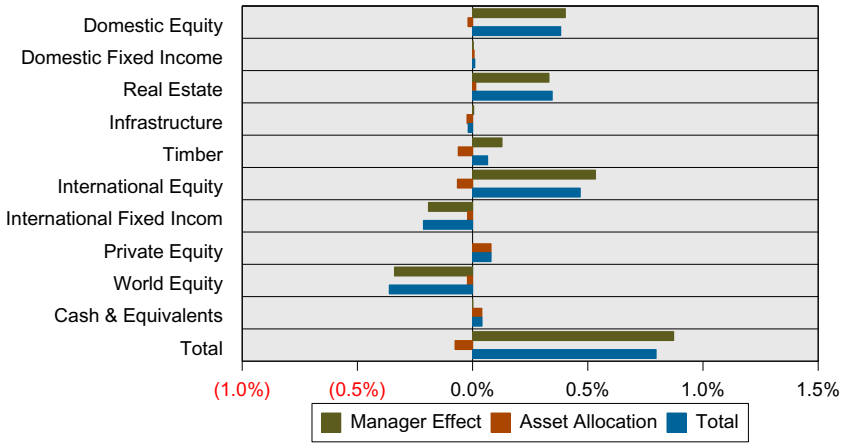
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	22%	21%	1.39%	0.58%	0.17%	(0.00%)	0.17%
Domestic Fixed Income	18%	17%	1.93%	3.15%	(0.21%)	0.03%	(0.18%)
Real Estate	11%	10%	3.38%	2.21%	0.13%	(0.00%)	0.13%
Infrastructure	5%	5%	0.49%	0.61%	(0.01%)	(0.01%)	(0.01%)
Timber	4%	5%	4.09%	(0.26%)	0.15%	0.01%	0.16%
International Equity	15%	15%	(0.57%)	(1.36%)	0.12%	(0.01%)	0.11%
International Fixed Incom	5%	5%	8.40%	8.26%	0.01%	(0.01%)	(0.00%)
Private Equity	4%	5%	(4.05%)	(4.05%)	0.00%	0.06%	0.06%
World Equity	16%	16%	(0.56%)	(0.35%)	(0.03%)	0.00%	(0.03%)
Cash & Equivalents	1%	1%	0.10%	0.07%	0.00%	0.03%	0.03%
Total			**1.37% =**	**0.93% +**	**0.33% +**	**0.11%**	**0.44%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

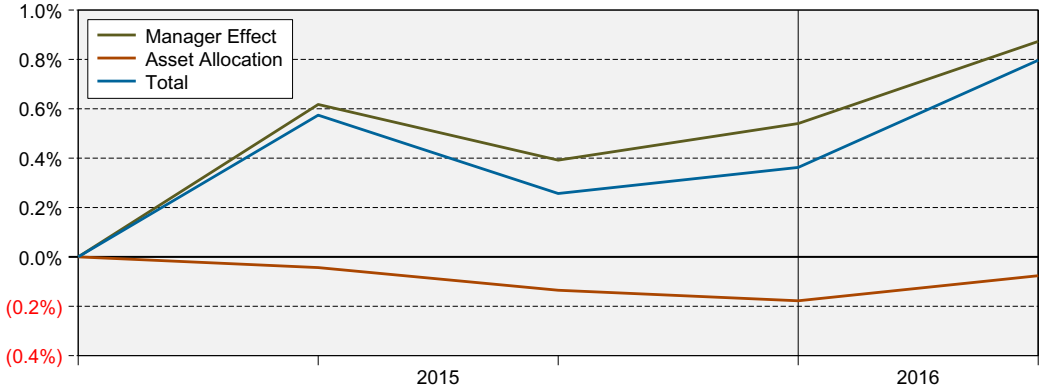
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

One Year Relative Attribution Effects



Cumulative Relative Attribution Effects



One Year Relative Attribution Effects

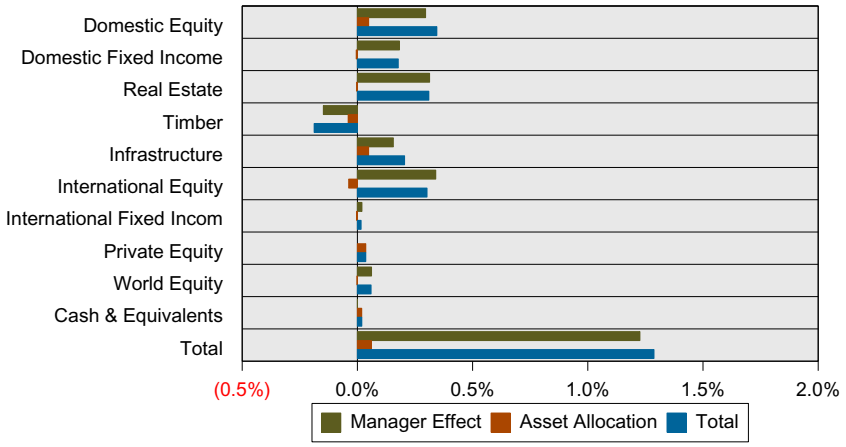
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	22%	21%	0.01%	(1.83%)	0.40%	(0.02%)	0.38%
Domestic Fixed Income	18%	17%	0.37%	0.33%	0.00%	0.01%	0.01%
Real Estate	11%	10%	15.42%	11.84%	0.33%	0.01%	0.35%
Infrastructure	5%	5%	0.55%	0.50%	0.01%	(0.02%)	(0.02%)
Timber	4%	5%	6.65%	2.90%	0.13%	(0.06%)	0.07%
International Equity	15%	15%	(5.51%)	(8.89%)	0.53%	(0.07%)	0.47%
International Fixed Incom	5%	5%	2.64%	6.69%	(0.19%)	(0.02%)	(0.21%)
Private Equity	4%	5%	(9.27%)	(9.27%)	0.00%	0.08%	0.08%
World Equity	16%	16%	(5.56%)	(3.45%)	(0.34%)	(0.02%)	(0.36%)
Cash & Equivalents	1%	1%	0.19%	0.12%	0.00%	0.04%	0.04%
Total			**(0.03%) =**	**(0.83%) +**	**0.87% +**	**(0.08%)**	**0.80%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

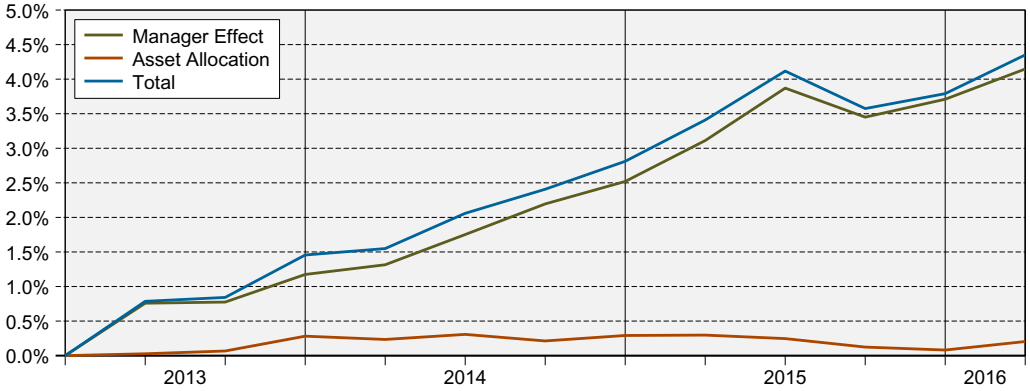
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Three Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Three Year Annualized Relative Attribution Effects

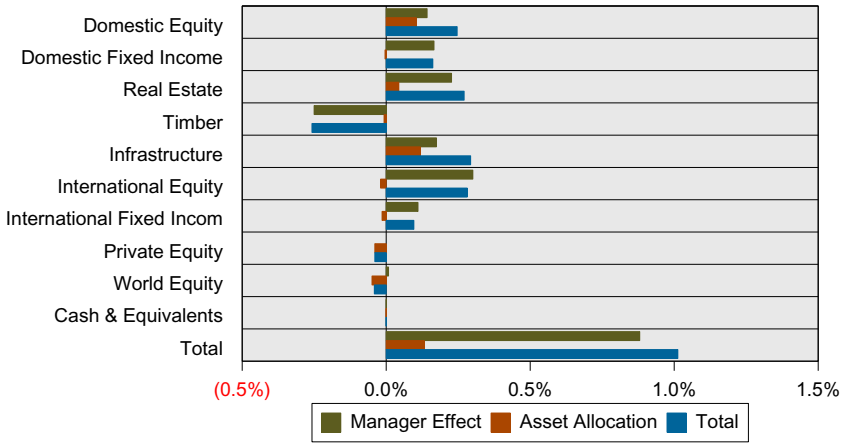
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	23%	21%	11.92%	10.52%	0.30%	0.05%	0.34%
Domestic Fixed Income	18%	17%	3.35%	2.34%	0.18%	(0.01%)	0.18%
Real Estate	10%	10%	15.30%	11.91%	0.31%	(0.00%)	0.31%
Timber	4%	5%	4.65%	7.71%	(0.15%)	(0.04%)	(0.19%)
Infrastructure	4%	5%	4.30%	0.42%	0.16%	0.05%	0.20%
International Equity	15%	15%	3.23%	0.99%	0.34%	(0.04%)	0.30%
International Fixed Incom	5%	5%	0.03%	(0.32%)	0.02%	(0.00%)	0.02%
Private Equity	5%	5%	(1.73%)	(1.73%)	0.00%	0.04%	0.04%
World Equity	16%	16%	7.21%	6.82%	0.06%	(0.00%)	0.06%
Cash & Equivalents	1%	1%	0.10%	0.07%	0.00%	0.02%	0.02%
Total			**6.78% =**	**5.50% +**	**1.23% +**	**0.06%**	**1.29%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

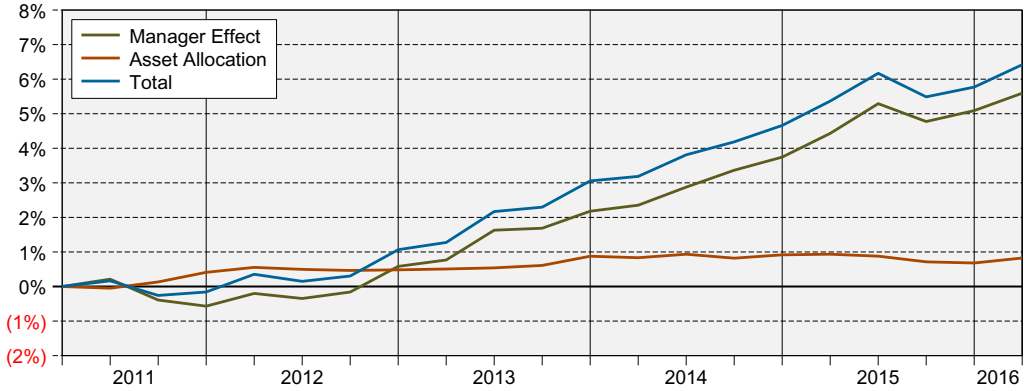
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Five Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Five Year Annualized Relative Attribution Effects

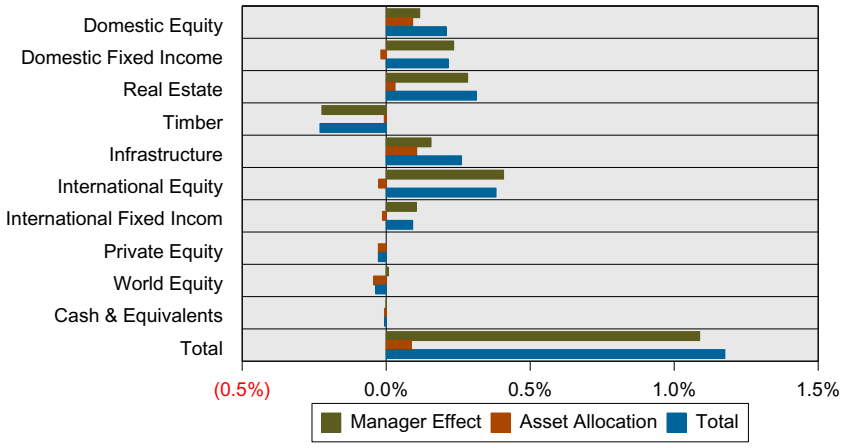
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	26%	25%	11.35%	10.52%	0.14%	0.10%	0.25%
Domestic Fixed Income	18%	17%	5.03%	3.99%	0.17%	(0.00%)	0.16%
Real Estate	10%	10%	14.35%	11.93%	0.23%	0.04%	0.27%
Timber	4%	5%	-	-	(0.25%)	(0.01%)	(0.26%)
Infrastructure	4%	5%	-	-	0.17%	0.12%	0.29%
International Equity	17%	17%	2.87%	1.08%	0.30%	(0.02%)	0.28%
International Fixed Incom	5%	5%	2.42%	0.39%	0.11%	(0.01%)	0.10%
Private Equity	5%	5%	0.86%	0.86%	0.00%	(0.04%)	(0.04%)
World Equity	11%	12%	-	-	0.01%	(0.05%)	(0.04%)
Cash & Equivalents	1%	1%	0.10%	0.08%	0.00%	(0.00%)	(0.00%)
Total			**6.61%** =	**5.60%** +	**0.88%** +	**0.13%**	**1.01%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

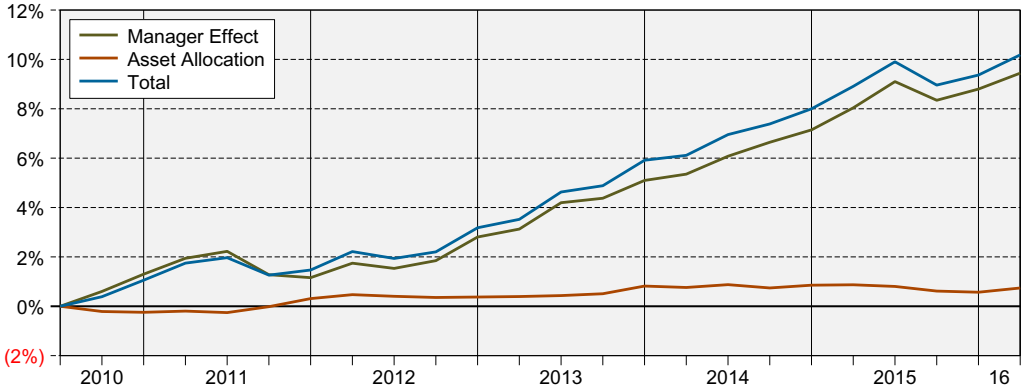
Cumulative Total Fund Relative Attribution - March 31, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

Five and Three-Quarter Year Annualized Relative Attribution Effects



Cumulative Relative Attribution Effects



Five and Three-Quarter Year Annualized Relative Attribution Effects

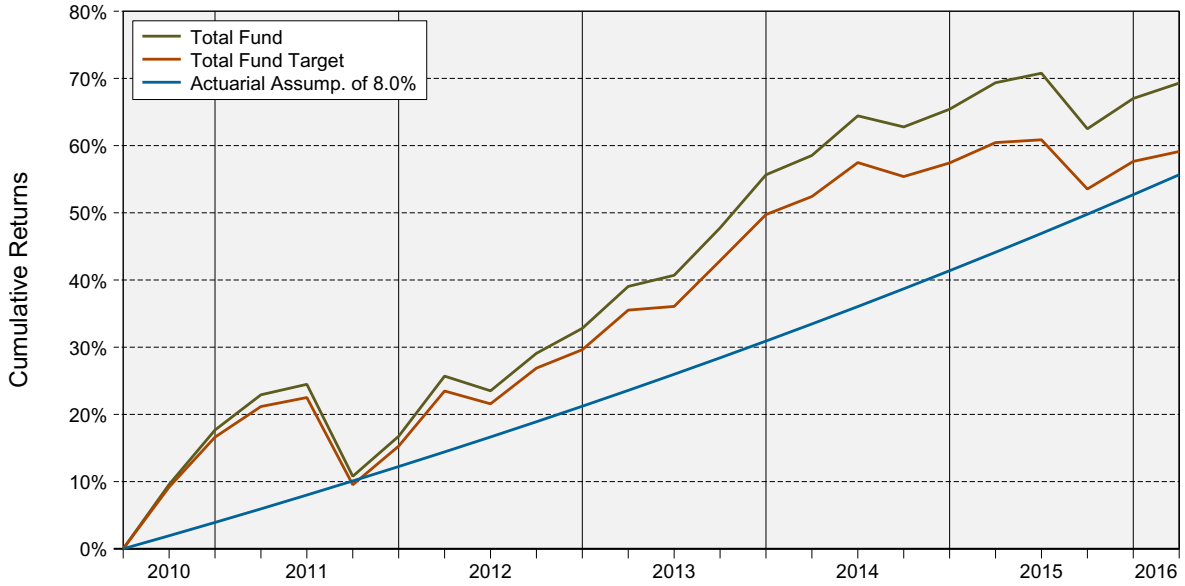
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	27%	27%	15.36%	14.63%	0.12%	0.09%	0.21%
Domestic Fixed Income	18%	17%	5.92%	4.54%	0.23%	(0.02%)	0.22%
Real Estate	10%	10%	15.59%	12.54%	0.28%	0.03%	0.31%
Timber	4%	4%	-	-	(0.22%)	(0.01%)	(0.23%)
Infrastructure	3%	4%	-	-	0.16%	0.11%	0.26%
International Equity	18%	17%	6.90%	4.71%	0.41%	(0.03%)	0.38%
International Fixed Incom	5%	5%	4.17%	2.23%	0.10%	(0.01%)	0.09%
Private Equity	5%	5%	2.88%	2.88%	0.00%	(0.03%)	(0.03%)
World Equity	10%	10%	-	-	0.01%	(0.04%)	(0.04%)
Cash & Equivalents	1%	1%	0.11%	0.09%	0.00%	(0.01%)	(0.01%)
Total			**9.59% =**	**8.41% +**	**1.09% +**	**0.09%**	**1.18%**

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

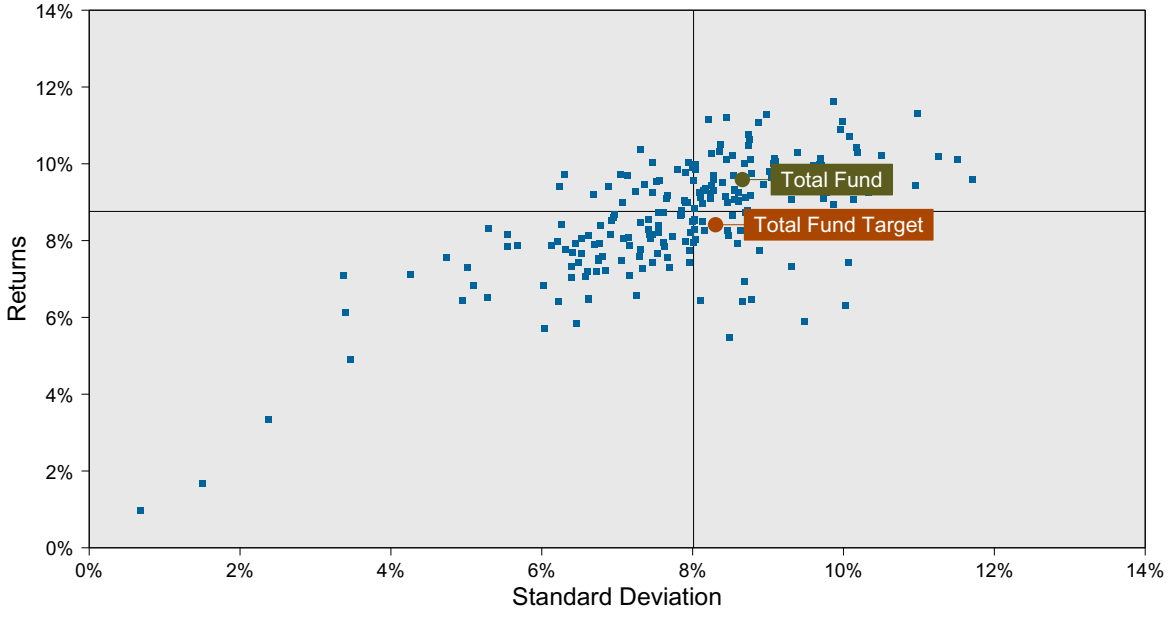
Cumulative Performance Relative to Target

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the Public Fund Sponsor Database.

Cumulative Returns Actual vs Target



Five and Three-Quarter Year Annualized Risk vs Return



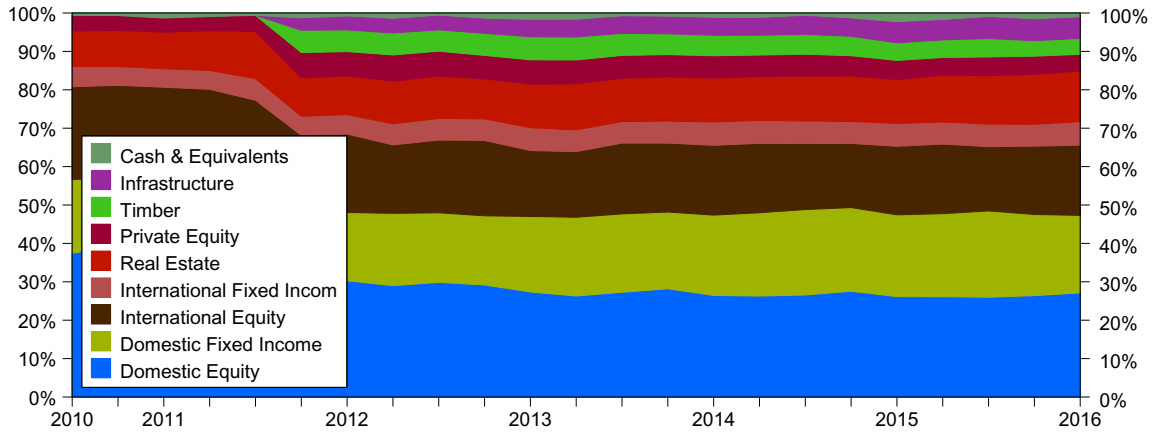
Squares represent membership of the Public Fund Sponsor Database

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

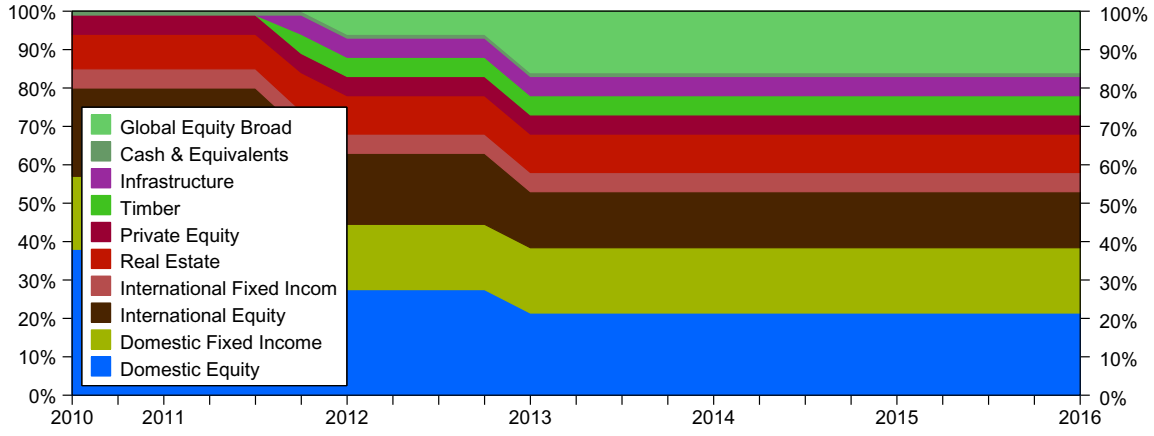
Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the Public Fund Sponsor Database.

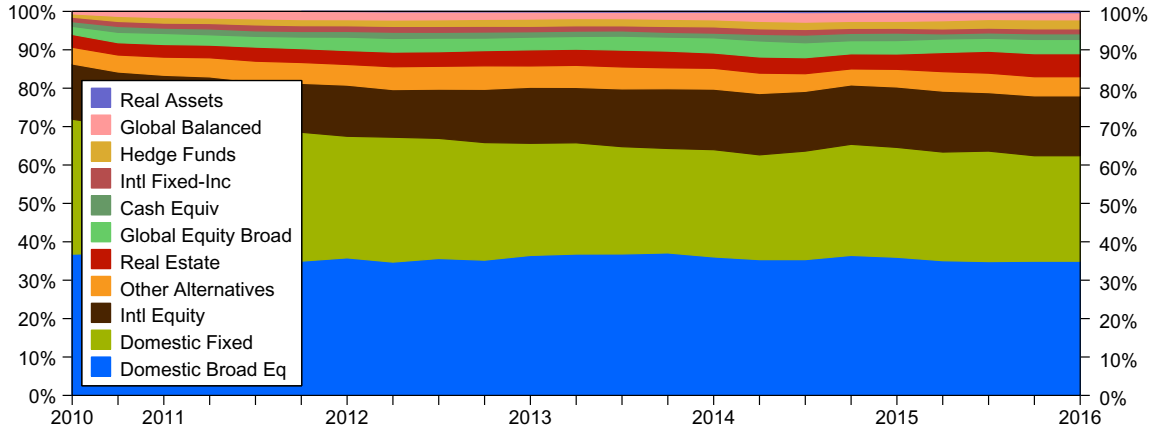
Actual Historical Asset Allocation



Target Historical Asset Allocation



Average Public Fund Sponsor Database Historical Asset Allocation

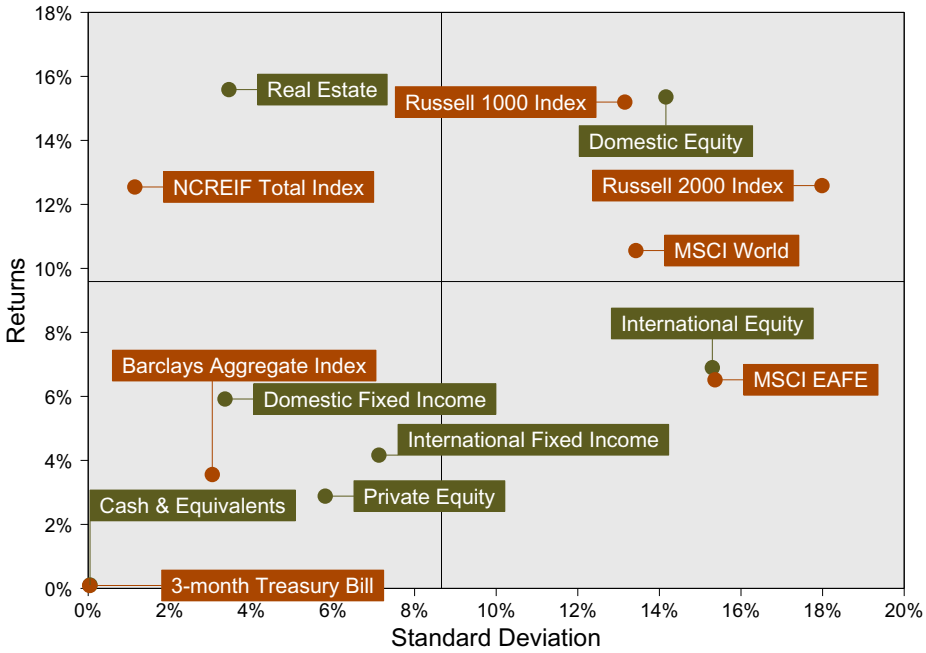


* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

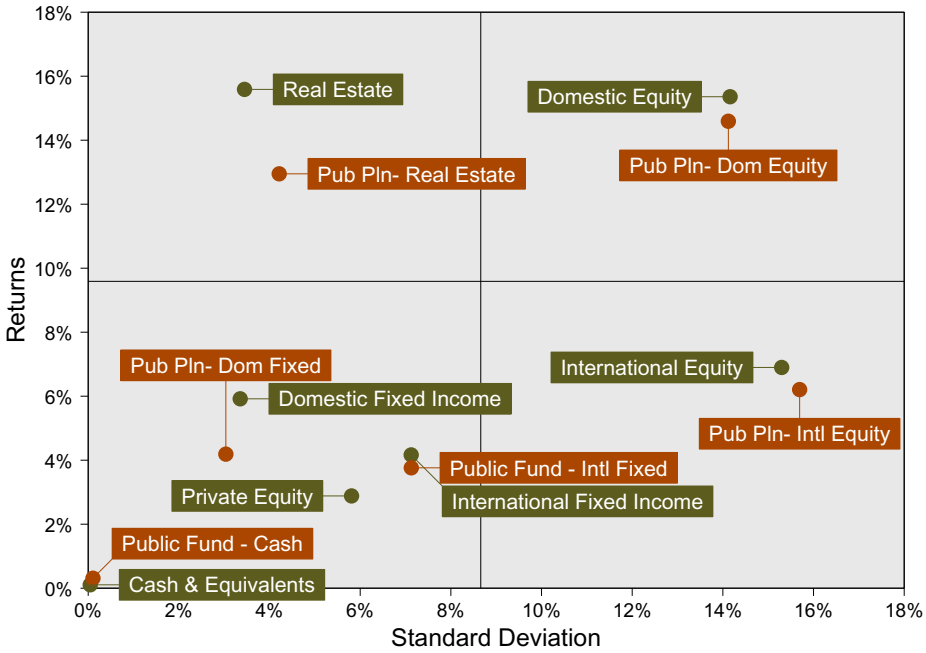
Asset Class Risk and Return

The charts below show the five and three-quarter year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

Five and Three-Quarter Year Annualized Risk vs Return
Asset Classes vs Benchmark Indices



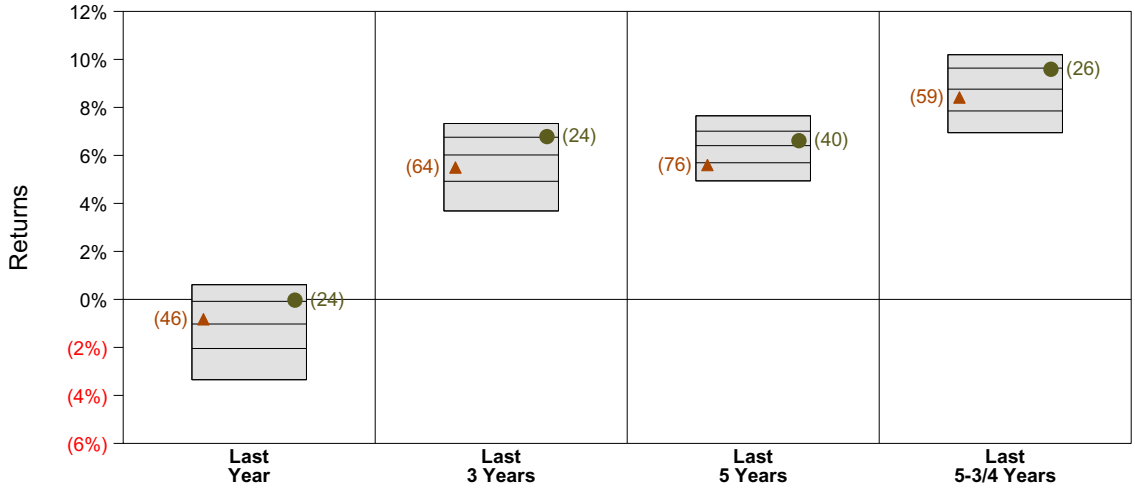
Five and Three-Quarter Year Annualized Risk vs Return
Asset Classes vs Asset Class Median



Total Fund Ranking

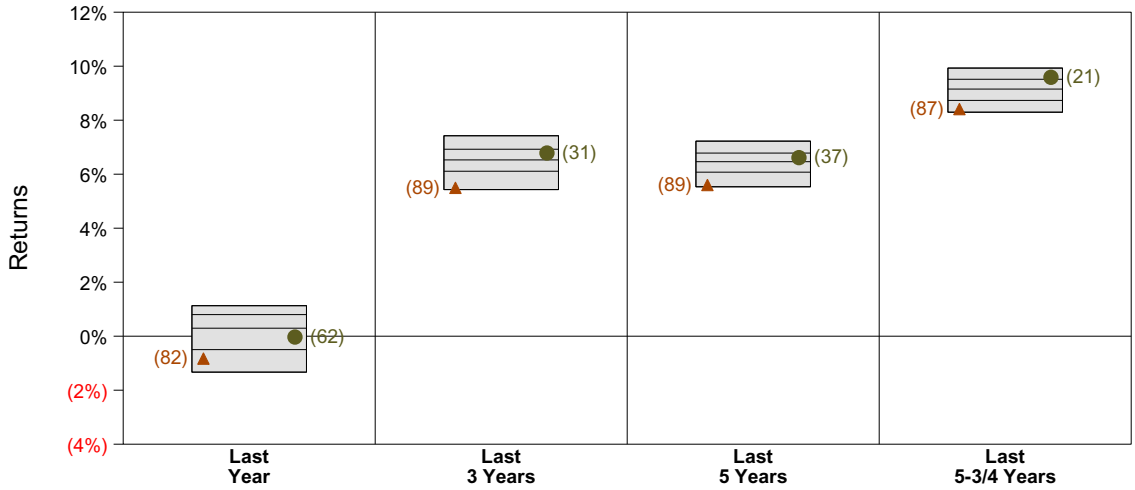
The first two charts show the ranking of the Total Fund's performance relative to that of the Public Fund Sponsor Database for periods ended March 31, 2016. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund.

Public Fund Sponsor Database



	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
10th Percentile	0.61	7.33	7.65	10.20
25th Percentile	(0.08)	6.76	7.01	9.64
Median	(1.03)	6.02	6.41	8.76
75th Percentile	(2.05)	4.92	5.69	7.85
90th Percentile	(3.35)	3.69	4.94	6.95
Total Fund ●	(0.03)	6.78	6.61	9.59
Policy Target ▲	(0.83)	5.50	5.60	8.41

Asset Allocation Adjusted Ranking



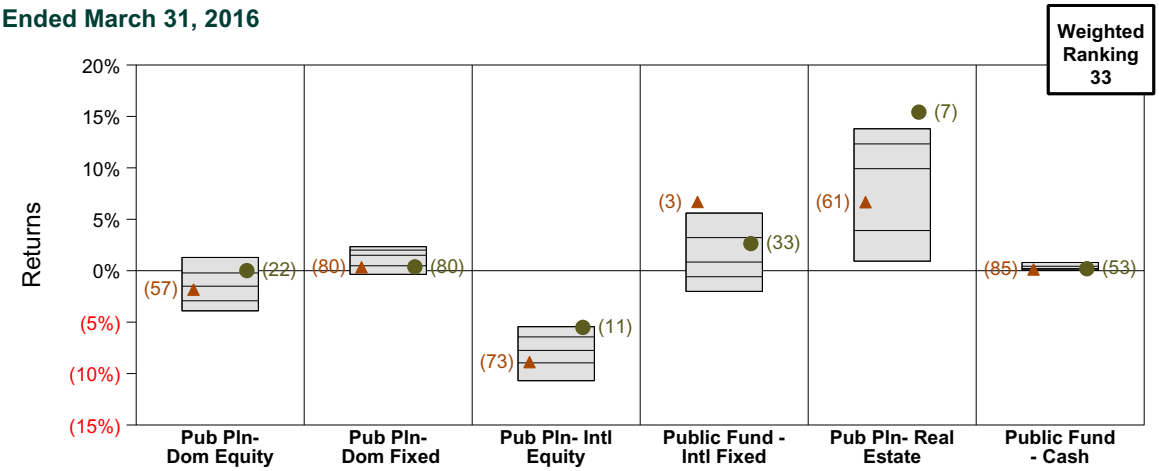
	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
10th Percentile	1.13	7.42	7.23	9.93
25th Percentile	0.80	6.92	6.78	9.52
Median	0.30	6.53	6.46	9.15
75th Percentile	(0.50)	6.11	6.07	8.73
90th Percentile	(1.33)	5.43	5.53	8.30
Total Fund ●	(0.03)	6.78	6.61	9.59
Policy Target ▲	(0.83)	5.50	5.60	8.41

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

Asset Class Rankings

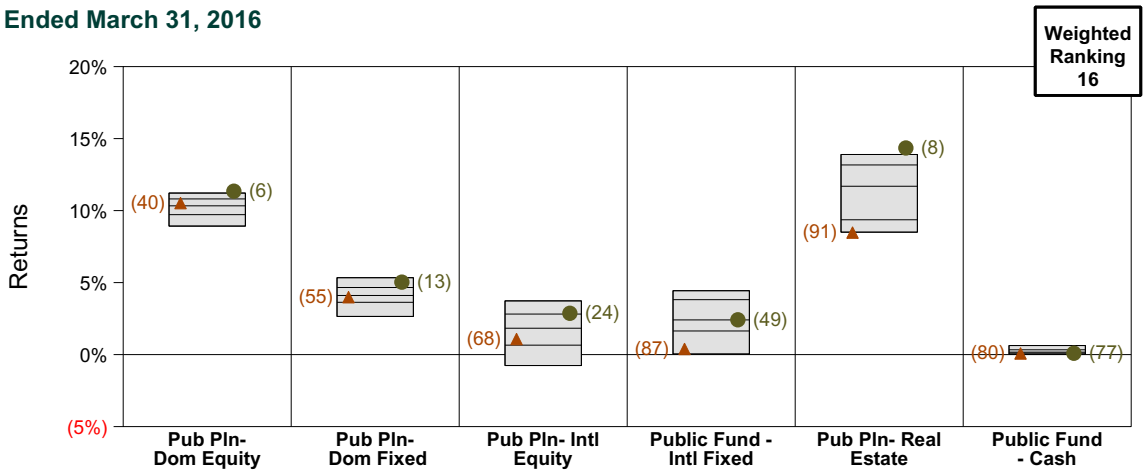
The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper right corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

Total Asset Class Performance
One Year Ended March 31, 2016



	Pub Pln- Dom Equity	Pub Pln- Dom Fixed	Pub Pln- Intl Equity	Public Fund - Intl Fixed	Pub Pln- Real Estate	Public Fund - Cash
10th Percentile	1.29	2.34	(5.44)	5.60	13.80	0.80
25th Percentile	(0.22)	2.00	(6.44)	3.22	12.33	0.43
Median	(1.51)	1.50	(7.75)	0.84	9.92	0.21
75th Percentile	(2.92)	0.48	(8.96)	(0.59)	3.91	0.17
90th Percentile	(3.90)	(0.35)	(10.69)	(2.01)	0.93	0.06
Asset Class Composite ●	0.01	0.37	(5.51)	2.64	15.42	0.19
Composite Benchmark ▲	(1.83)	0.33	(8.89)	6.69	6.66	0.12

Total Asset Class Performance
Five Years Ended March 31, 2016



	Pub Pln- Dom Equity	Pub Pln- Dom Fixed	Pub Pln- Intl Equity	Public Fund - Intl Fixed	Pub Pln- Real Estate	Public Fund - Cash
10th Percentile	11.22	5.34	3.73	4.44	13.90	0.63
25th Percentile	10.81	4.66	2.82	3.81	13.17	0.33
Median	10.33	4.11	1.83	2.41	11.69	0.17
75th Percentile	9.72	3.63	0.66	1.64	9.36	0.11
90th Percentile	8.92	2.65	(0.76)	0.04	8.50	0.03
Asset Class Composite ●	11.35	5.03	2.87	2.42	14.35	0.10
Composite Benchmark ▲	10.52	3.99	1.08	0.39	8.47	0.08

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

Asset Class Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of March 31, 2016, with the distribution as of December 31, 2015. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

Asset Class Allocation

	March 31, 2016				December 31, 2015	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
GLOBAL EQUITY	**$1,190,832,950**	**57.88%**	**$27,187,691**	**$1,883,765**	**$1,161,761,495**	**57.05%**
Domestic Equity	**$467,358,240**	**22.72%**	**$8,431,554**	**$7,039,350**	**$451,887,336**	**22.19%**
Large Cap	364,073,168	17.70%	2,831,554	7,549,478	353,692,136	17.37%
Small Cap	103,285,072	5.02%	5,600,000	(510,128)	98,195,200	4.82%
International Equity	**$315,364,760**	**15.33%**	**$11,707,945**	**$(890,067)**	**$304,546,882**	**14.96%**
Developed Intl Equity	245,195,128	11.92%	6,962,945	(3,703,581)	241,935,764	11.88%
Emerging Markets	70,169,632	3.41%	4,745,000	2,813,513	62,611,119	3.07%
World Equity	**$333,045,631**	**16.19%**	**$9,552,328**	**$(1,020,925)**	**$324,514,228**	**15.94%**
Private Equity	**$75,064,319**	**3.65%**	**$(2,504,136)**	**$(3,244,592)**	**$80,813,048**	**3.97%**
GLOBAL FIXED INCOME	**$453,823,202**	**22.06%**	**$(20,251,988)**	**$14,873,172**	**$459,202,019**	**22.55%**
Fixed Income Comp	**$348,193,572**	**16.92%**	**$(20,163,721)**	**$6,686,904**	**$361,670,389**	**17.76%**
Investment Grade Fixed	239,715,936	11.65%	(19,982,783)	4,172,869	255,525,850	12.55%
Below Inv. Grade Fixed Income	108,477,636	5.27%	(180,938)	2,514,034	106,144,539	5.21%
International Fixed Income	**$105,629,631**	**5.13%**	**$(88,267)**	**$8,186,268**	**$97,531,630**	**4.79%**
GLOBAL REAL ASSETS	**$395,971,612**	**19.25%**	**$(4,724,230)**	**$10,917,559**	**$389,778,283**	**19.14%**
Real Estate	227,060,113	11.04%	(3,461,462)	7,620,544	222,901,030	10.95%
Timber	71,517,775	3.48%	(458,160)	2,816,883	69,159,052	3.40%
Infrastructure	97,393,725	4.73%	(804,608)	480,132	97,718,201	4.80%
Cash & Equivalents	**$16,767,088**	**0.81%**	**$(8,768,628)**	**$17,041**	**$25,518,674**	**1.25%**
Securities Lending Income	**$0**	**0.00%**	**$(38,242)**	**$38,242**	**-**	**-**
Total Fund	**$2,057,394,852**	**100.0%**	**$(6,595,398)**	**$27,729,779**	**$2,036,260,471**	**100.0%**

PLEASE REFER TO PAGES 36-38 FOR INVESTMENT MANAGER LEVEL ASSET ALLOCATION.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
Global Equity					
Gross	(0.02%)	(3.66%)	7.25%	-	-
Net	(0.07%)	(3.97%)	6.91%	-	-
Wtd Avg Global Equity Benchmark	(0.59%)	(4.75%)	5.93%	-	-
Domestic Equity					
Gross	1.39%	0.01%	11.92%	11.35%	15.36%
Net	1.37%	(0.12%)	11.72%	11.11%	15.10%
Wtd Avg Domestic Equity Benchmark	0.58%	(1.83%)	10.52%	10.52%	14.63%
Large Cap Equity					
Gross	2.07%	2.87%	13.30%	12.30%	15.98%
Net	2.04%	2.76%	13.12%	12.07%	15.71%
Benchmark(1)	1.17%	0.50%	11.52%	11.55%	15.19%
Small Cap Equity					
Gross	(1.20%)	(9.67%)	7.01%	8.21%	13.13%
Net	(1.20%)	(9.85%)	6.77%	7.96%	12.89%
Russell 2000 Index	(1.52%)	(9.76%)	6.84%	7.20%	12.59%
International Equity					
Gross	(0.57%)	(5.51%)	3.23%	2.87%	6.90%
Net	(0.62%)	(5.71%)	2.98%	2.56%	6.57%
Wtd Avg Intl Equity Benchmark	(1.36%)	(8.89%)	0.99%	1.08%	4.71%
Developed Intl Equity					
Gross	(1.75%)	(4.42%)	4.59%	3.61%	7.73%
Net	(1.82%)	(4.67%)	4.32%	3.30%	7.41%
Benchmark(2)	(3.01%)	(8.27%)	2.23%	2.29%	5.53%
Emerging Markets					
Gross	3.74%	(10.59%)	(2.96%)	(0.74%)	3.12%
Net	3.74%	(10.59%)	(3.13%)	(1.06%)	2.77%
Benchmark(3)	5.71%	(12.03%)	(4.50%)	(4.11%)	0.85%
World Equity					
Gross	(0.56%)	(5.56%)	7.21%	-	-
Net	(0.65%)	(6.30%)	6.46%	-	-
MSCI World Index	(0.35%)	(3.45%)	6.82%	6.51%	10.56%
Private Equity					
Net	(4.05%)	(9.28%)	(1.76%)	0.79%	2.79%

(1) S&P 500 Index through 12/31/2011 and the Russell 1000 Index thereafter.
(2) 50% Hedged EAFE through 3/31/2011 and MSCI EAFE thereafter.
(3) MSCI Emerging Mkts Idx (Gross) through 6/30/2011 and MSCI Emerging Mkts Idx Net thereafter.

PLEASE REFER TO PAGES 39-43 FOR INVESTMENT MANAGER LEVEL RETURNS.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 5-3/4 Years
Global Fixed Income					
Gross	3.35%	0.92%	2.66%	-	-
Net	3.28%	0.66%	2.42%	-	-
Wtd Avg Global Fixed Inc. Benchmark	4.29%	1.76%	1.76%	-	-
Domestic Fixed Income					
Gross	1.93%	0.37%	3.35%	5.03%	5.92%
Net	1.87%	0.15%	3.14%	4.93%	5.79%
Wtd Avg Domestic FI Benchmark	3.15%	0.33%	2.34%	3.99%	4.54%
Inv. Grade Fixed Income					
Gross	1.68%	1.62%	3.42%	4.92%	5.16%
Net	1.62%	1.48%	3.31%	4.77%	4.98%
Barclays Aggregate Index	3.03%	1.96%	2.50%	3.78%	3.56%
Below Inv. Grade Fixed Income					
Gross	2.38%	(2.60%)	3.11%	6.13%	8.01%
Net	2.27%	(3.01%)	2.67%	5.69%	7.57%
Barclays HY Corp 2% Issue	3.35%	(3.66%)	1.86%	4.93%	6.73%
International Fixed Income					
Gross	8.40%	2.64%	0.03%	2.42%	4.17%
Net	8.30%	2.22%	(0.33%)	2.05%	3.80%
Wtd Avg Intl Fixed Income Benchmark	8.26%	6.69%	(0.32%)	0.39%	2.23%
Global Real Assets					
Gross	2.79%	9.79%	10.10%	-	-
Net	2.68%	9.35%	9.66%	-	-
Wtd Avg Global Real Assets Benchmark	1.19%	6.68%	7.93%	-	-
Real Estate					
Gross	3.38%	15.42%	15.30%	14.35%	15.59%
Net	3.25%	14.88%	14.75%	13.80%	15.01%
NCREIF Total Index	2.21%	11.84%	11.91%	11.93%	12.54%
Timber					
Net	4.09%	6.65%	4.65%	-	-
NCREIF Timberland Index	(0.26%)	2.90%	7.71%	6.63%	5.71%
Infrastructure					
Gross	0.49%	0.55%	4.30%	-	-
Net	0.35%	(0.01%)	3.70%	-	-
CPI-W	0.61%	0.50%	0.42%	1.08%	1.44%
Cash & Equivalents - Net	**0.10%**	**0.19%**	**0.10%**	**0.10%**	**0.11%**
3-month Treasury Bill	0.07%	0.12%	0.07%	0.08%	0.09%
Total Fund					
Gross	1.37%	(0.03%)	6.78%	6.61%	9.59%
Net	1.31%	(0.35%)	6.45%	6.27%	9.23%
Target*	0.93%	(0.83%)	5.50%	5.60%	8.41%

* Current Quarter Target = 16.6% Russell 1000 Index, 16.0% MSCI World, 12.0% Barclays Aggregate Index, 11.8% MSCI EAFE, 10.0% NCREIF Total Index, 5.0% CPI-W, 5.0% Barclays HY Corp 2% Issue, 5.0% NDSIB TFFR - Private Equity, 5.0% Barclays Global Agg ex-US, 5.0% NCREIF Timberland Index, 4.8% Russell 2000 Index, 2.8% MSCI EM and 1.0% 3-month Treasury Bill.

PLEASE REFER TO PAGES 39-43 FOR INVESTMENT MANAGER LEVEL RETURNS.

L.A. Capital
Period Ended March 31, 2016

Investment Philosophy

The LA Capital Structured portfolio is a large growth portfolio benchmarked to the Russell 1000 Growth Index. It is an active assignment meaning that it targets a 2% alpha and constrains its risk budget (tracking error) to 4% relative to the benchmark. LA Capital believes that investment results are driven by Investor Preferences and thus recognize that when preferences shift a different posture related to that factor is warranted.

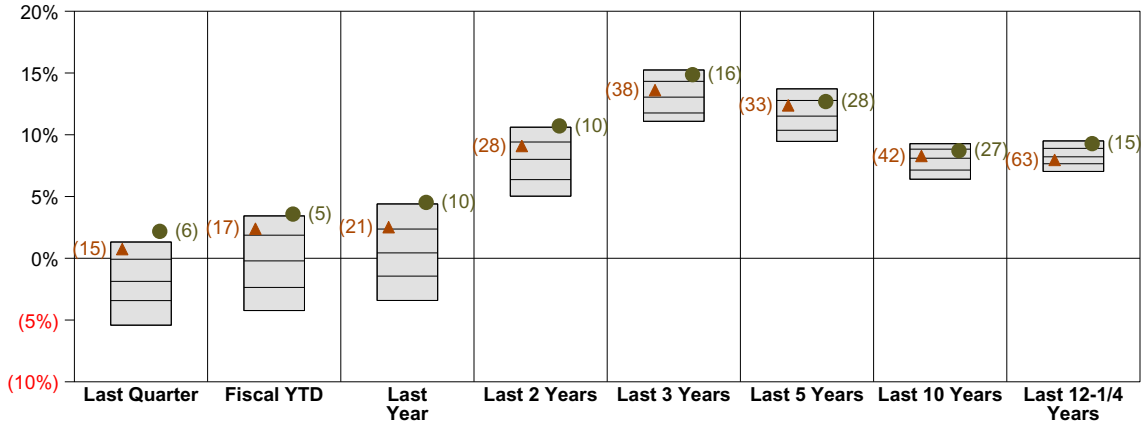
Quarterly Summary and Highlights

- L.A. Capital's portfolio posted a 2.18% return for the quarter placing it in the 6 percentile of the CAI Large Cap Growth Style group for the quarter and in the 10 percentile for the last year.
- L.A. Capital's portfolio outperformed the Russell 1000 Growth Index by 1.44% for the quarter and outperformed the Russell 1000 Growth Index for the year by 2.01%.

Quarterly Asset Growth

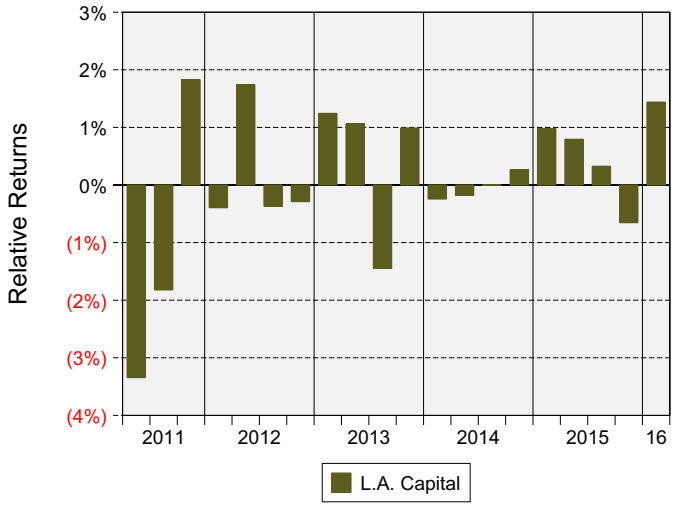
Beginning Market Value	$303,526,819
Net New Investment	$-164,825
Investment Gains/(Losses)	$6,604,690
Ending Market Value	$309,966,684

Performance vs CAI Large Cap Growth Style (Gross)

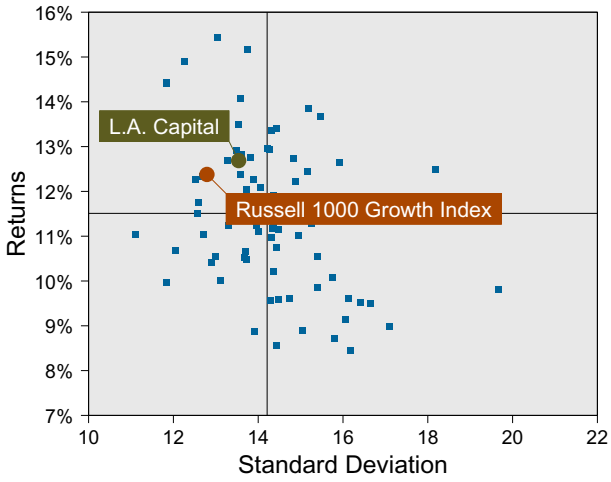


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 12-1/4 Years
10th Percentile	1.32	3.43	4.40	10.61	15.24	13.72	9.28	9.50
25th Percentile	(0.08)	1.87	2.37	9.41	14.32	12.78	8.83	8.90
Median	(1.87)	(0.21)	0.44	8.01	13.05	11.51	8.10	8.21
75th Percentile	(3.43)	(2.36)	(1.45)	6.37	11.76	10.36	7.14	7.65
90th Percentile	(5.42)	(4.23)	(3.42)	5.03	11.09	9.46	6.40	7.03
L.A. Capital ●	2.18	3.58	4.52	10.71	14.86	12.69	8.71	9.28
Russell 1000 Growth Index ▲	0.74	2.39	2.52	9.09	13.61	12.38	8.28	7.96

Relative Return vs Russell 1000 Growth Index



CAI Large Cap Growth Style (Gross) Annualized Five Year Risk vs Return



L.A. Capital Management Enhanced Index
Period Ended March 31, 2016

Investment Philosophy

The LA Capital Enhanced portfolio is a large core portfolio benchmarked to the Russell 1000 Index. Characterized as an enhanced index assignment, its objective is to track the benchmark with lower variability. The pension portfolio began in August of 2000 and the insurance portfolio was initiated in April of 2004. Since October of 2006 a small portion of each of the two core accounts was allocated into the Large Cap Alpha Fund with intent to add incremental alpha to the assignment given that the information ratio was expected to be higher.

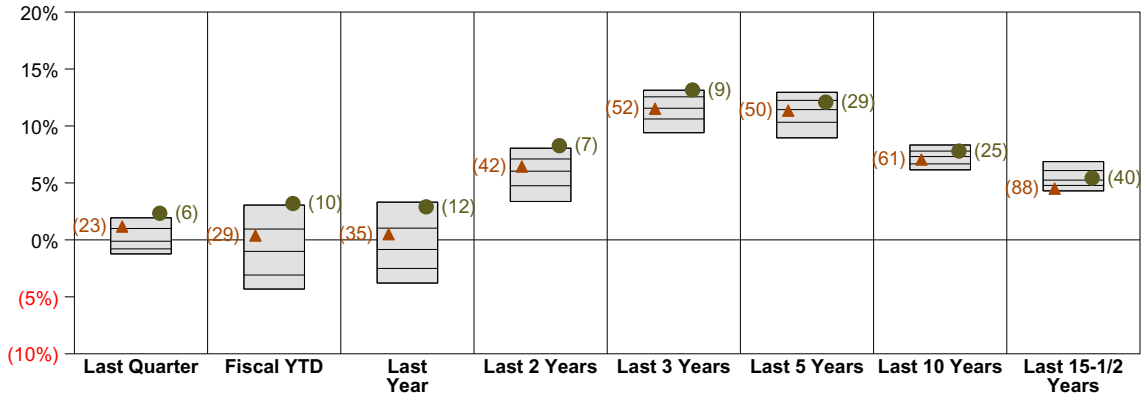
Quarterly Summary and Highlights

- LACM Enhanced Index's portfolio posted a 2.34% return for the quarter placing it in the 6 percentile of the CAI Large Cap Core Style group for the quarter and in the 12 percentile for the last year.
- LACM Enhanced Index's portfolio outperformed the Russell 1000 Index by 1.16% for the quarter and outperformed the Russell 1000 Index for the year by 2.40%.

Quarterly Asset Growth

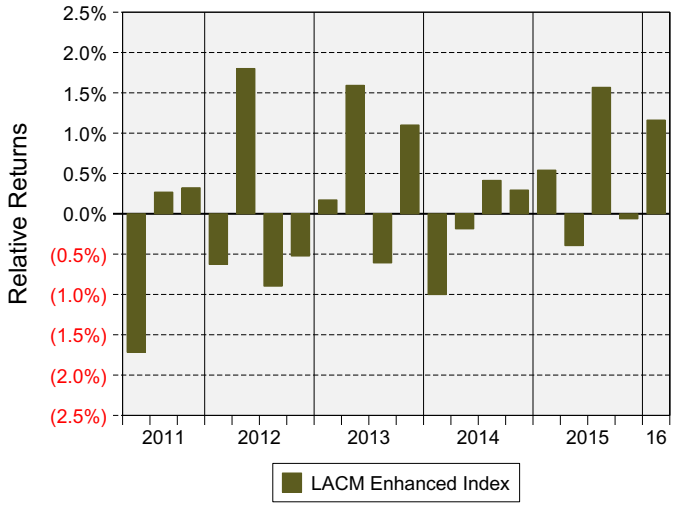
Beginning Market Value	$182,064,091
Net New Investment	$-55,699
Investment Gains/(Losses)	$4,248,677
Ending Market Value	$186,257,069

Performance vs CAI Large Cap Core Style (Gross)

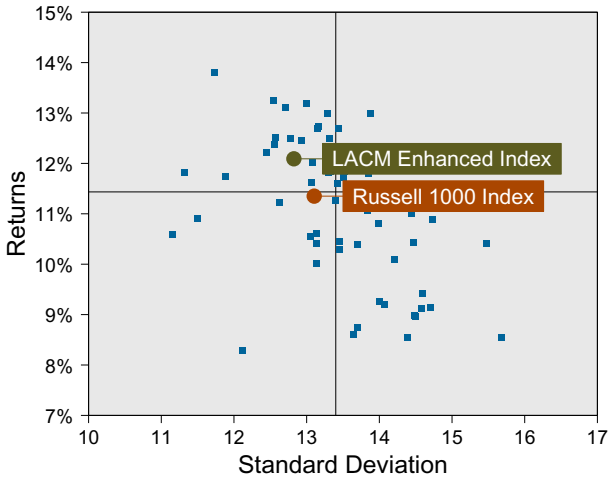


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 15-1/2 Years
10th Percentile	1.94	3.06	3.31	8.05	13.14	12.96	8.33	6.87
25th Percentile	1.00	0.95	1.03	7.10	12.56	12.25	7.79	6.08
Median	(0.12)	(1.01)	(0.84)	6.03	11.55	11.43	7.32	5.24
75th Percentile	(0.79)	(3.09)	(2.51)	4.75	10.61	10.32	6.67	4.78
90th Percentile	(1.23)	(4.32)	(3.79)	3.37	9.41	8.96	6.15	4.30
LACM Enhanced Index ●	2.34	3.19	2.90	8.27	13.16	12.09	7.79	5.43
Russell 1000 Index ▲	1.17	0.39	0.50	6.44	11.52	11.35	7.06	4.51

Relative Return vs Russell 1000 Index



CAI Large Cap Core Style (Gross) Annualized Five Year Risk vs Return



Northern Trust AM Enh S&P500
Period Ended March 31, 2016

Investment Philosophy

Northern Trust AM Enhanced S&P 500 employs a quantitative investment approach, focusing on the stock selection process as the principal source of value added. The account invests primarily in a broadly diversified portfolio of equity securities that include securities convertible into equity securities (including common stock), warrants, rights and units or shares in trusts, exchange traded funds and investment companies. The Investment Manager intends to use futures and options to manage market risk associated with the account's investments.

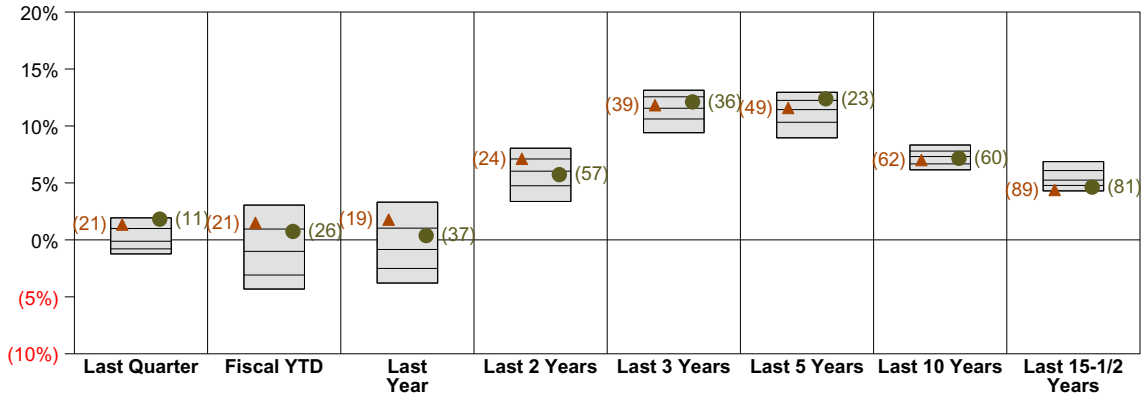
Quarterly Summary and Highlights

- Northern Trust AM Enh S&P500's portfolio posted a 1.82% return for the quarter placing it in the 11 percentile of the CAI Large Cap Core Style group for the quarter and in the 37 percentile for the last year.
- Northern Trust AM Enh S&P500's portfolio outperformed the S&P 500 Index by 0.48% for the quarter and underperformed the S&P 500 Index for the year by 1.41%.

Quarterly Asset Growth

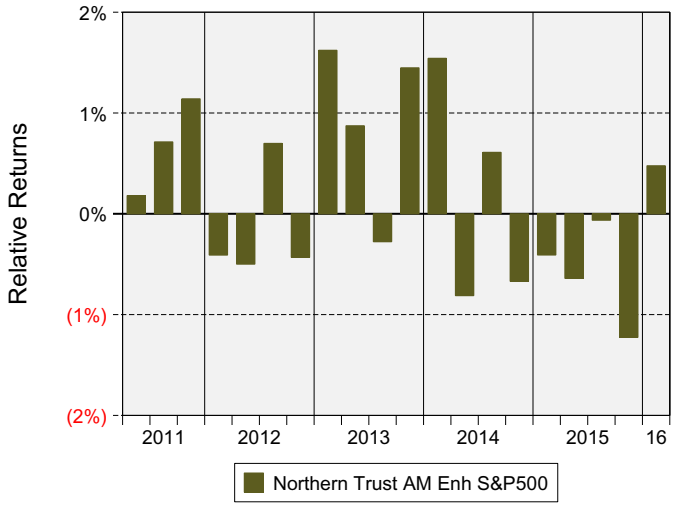
Beginning Market Value	$131,075,605
Net New Investment	$8,000,000
Investment Gains/(Losses)	$3,099,846
Ending Market Value	$142,175,451

Performance vs CAI Large Cap Core Style (Gross)

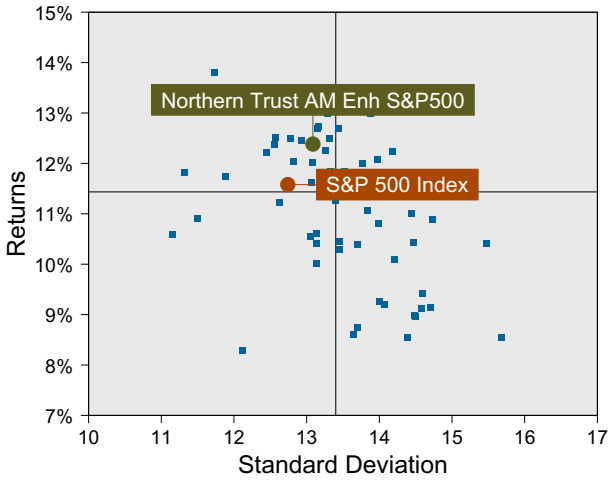


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 15-1/2 Years
10th Percentile	1.94	3.06	3.31	8.05	13.14	12.96	8.33	6.87
25th Percentile	1.00	0.95	1.03	7.10	12.56	12.25	7.79	6.08
Median	(0.12)	(1.01)	(0.84)	6.03	11.55	11.43	7.32	5.24
75th Percentile	(0.79)	(3.09)	(2.51)	4.75	10.61	10.32	6.67	4.78
90th Percentile	(1.23)	(4.32)	(3.79)	3.37	9.41	8.96	6.15	4.30
Northern Trust AM Enh S&P500 ●	1.82	0.74	0.38	5.73	12.11	12.38	7.15	4.63
S&P 500 Index ▲	1.35	1.50	1.78	7.12	11.82	11.58	7.01	4.38

Relative Return vs S&P 500 Index



CAI Large Cap Core Style (Gross) Annualized Five Year Risk vs Return



Parametric Clifton Enh S&P
Period Ended March 31, 2016

Investment Philosophy

Parametric Clifton utilizes equity futures to gain benchmark exposure in constructing the portfolio it believes provides the greatest likelihood of outperforming the index. In this construction the underlying cash portfolio is invested in a liquid, high quality short duration fixed income portfolio. Over market cycles excess return generated by the short duration portfolio, when added to the performance of futures is expected to allow the strategy to achieve 0.50% to 1.00% of gross excess annual performance.

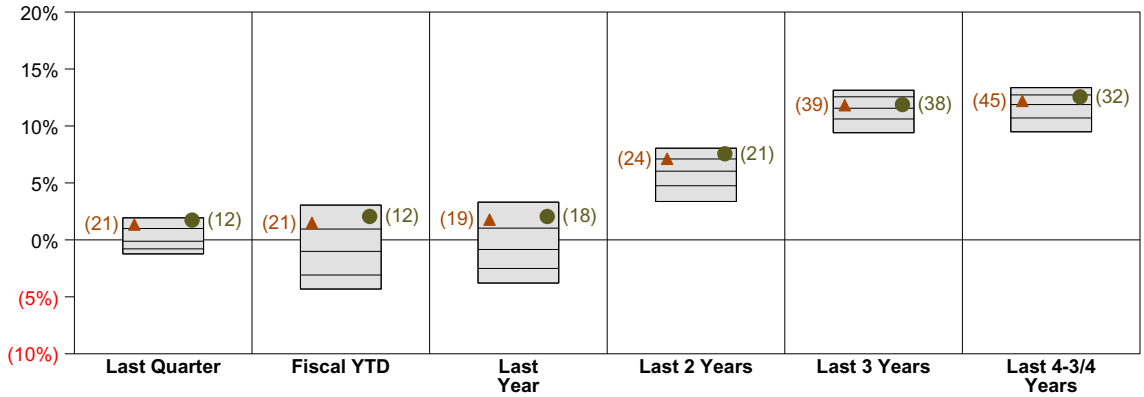
Quarterly Summary and Highlights

- Parametric Clifton Enh S&P's portfolio posted a 1.74% return for the quarter placing it in the 12 percentile of the CAI Large Cap Core Style group for the quarter and in the 18 percentile for the last year.
- Parametric Clifton Enh S&P's portfolio outperformed the S&P 500 Index by 0.39% for the quarter and outperformed the S&P 500 Index for the year by 0.27%.

Quarterly Asset Growth

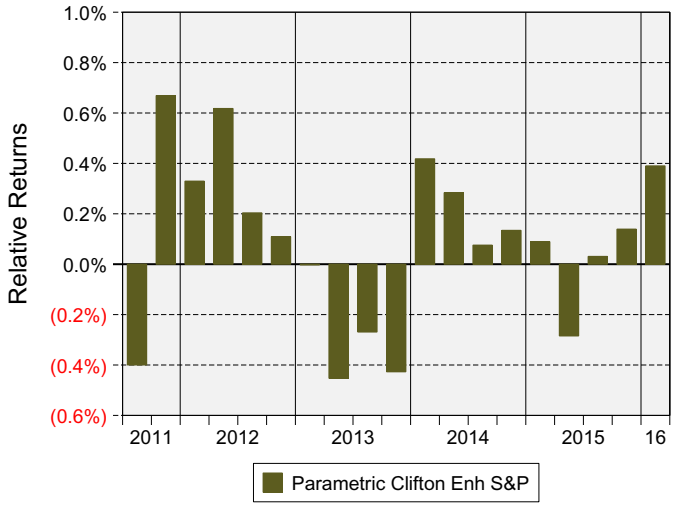
Beginning Market Value	$174,971,655
Net New Investment	$0
Investment Gains/(Losses)	$3,040,546
Ending Market Value	$178,012,201

Performance vs CAI Large Cap Core Style (Gross)

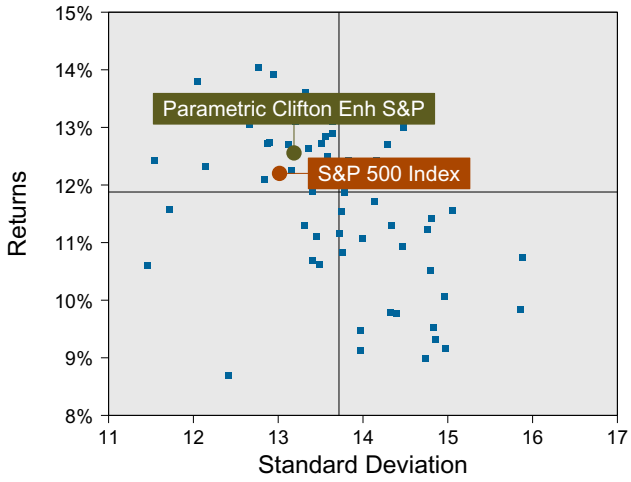


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 4-3/4 Years
10th Percentile	1.94	3.06	3.31	8.05	13.14	13.36
25th Percentile	1.00	0.95	1.03	7.10	12.56	12.72
Median	(0.12)	(1.01)	(0.84)	6.03	11.55	11.88
75th Percentile	(0.79)	(3.09)	(2.51)	4.75	10.61	10.70
90th Percentile	(1.23)	(4.32)	(3.79)	3.37	9.41	9.49
Parametric Clifton Enh S&P ●	1.74	2.06	2.05	7.56	11.88	12.56
S&P 500 Index ▲	1.35	1.50	1.78	7.12	11.82	12.20

Relative Return vs S&P 500 Index



CAI Large Cap Core Style (Gross) Annualized Four and Three-Quarter Year Risk vs Return



Parametric Clifton Enh SmCap
Period Ended March 31, 2016

Investment Philosophy

Parametric Clifton utilizes equity futures to gain benchmark exposure in constructing the portfolio it believes provides the greatest likelihood of outperforming the index. In this construction the underlying cash portfolio is invested in a liquid, high quality short duration fixed income portfolio. Over market cycles excess return generated by the short duration portfolio, when added to the performance of futures is expected to allow the strategy to achieve 0.50% to 1.00% of gross excess annual performance.

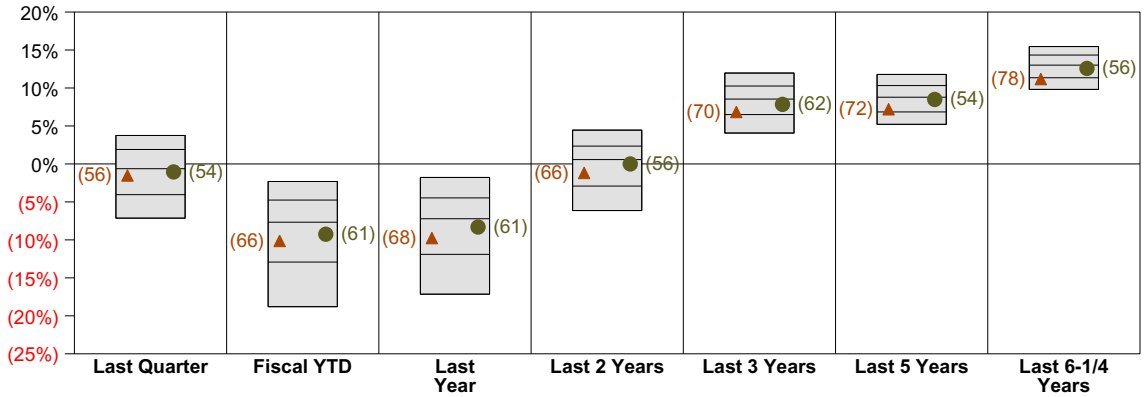
Quarterly Summary and Highlights

- Parametric Clifton Enh SmCap's portfolio posted a (1.05)% return for the quarter placing it in the 54 percentile of the CAI Small Capitalization Style group for the quarter and in the 61 percentile for the last year.
- Parametric Clifton Enh SmCap's portfolio outperformed the Russell 2000 Index by 0.46% for the quarter and outperformed the Russell 2000 Index for the year by 1.45%.

Quarterly Asset Growth

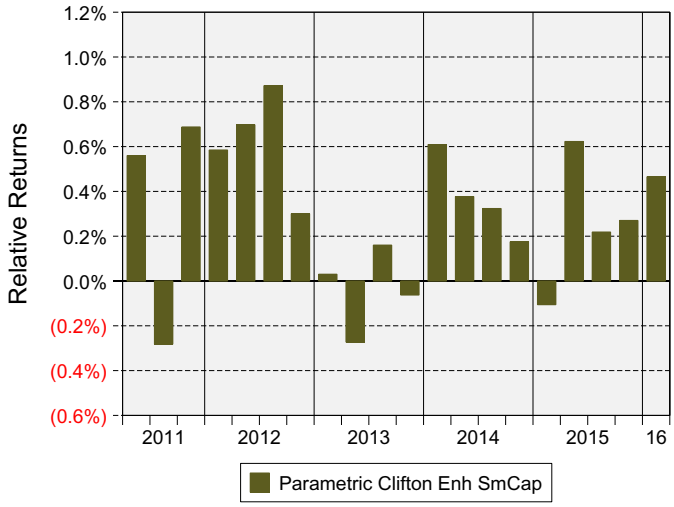
Beginning Market Value	$111,709,864
Net New Investment	$16,000,000
Investment Gains/(Losses)	$858,599
Ending Market Value	$128,568,464

Performance vs CAI Small Capitalization Style (Gross)

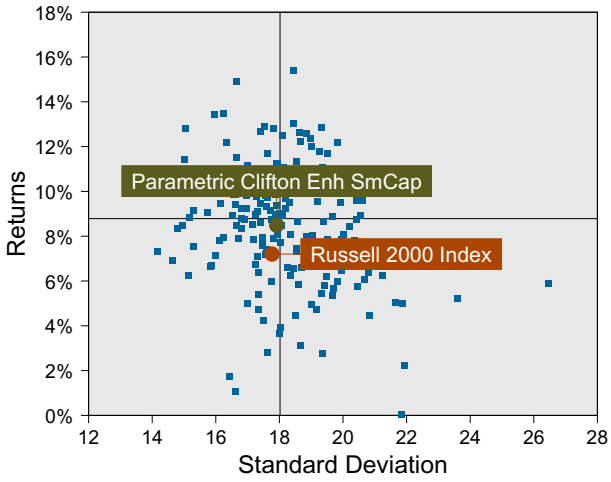


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 6-1/4 Years
10th Percentile	3.75	(2.31)	(1.78)	4.45	11.97	11.78	15.45
25th Percentile	1.90	(4.76)	(4.47)	2.35	10.26	10.32	14.34
Median	(0.63)	(7.67)	(7.22)	0.57	8.54	8.78	13.01
75th Percentile	(4.04)	(12.92)	(11.91)	(2.91)	6.50	6.85	11.35
90th Percentile	(7.14)	(18.80)	(17.15)	(6.14)	4.07	5.21	9.81
Parametric Clifton Enh SmCap ●	(1.05)	(9.25)	(8.31)	(0.00)	7.84	8.49	12.58
Russell 2000 Index ▲	(1.52)	(10.14)	(9.76)	(1.18)	6.84	7.20	11.17

Relative Return vs Russell 2000 Index



CAI Small Capitalization Style (Gross) Annualized Five Year Risk vs Return



International Equity

Capital Group
Period Ended March 31, 2016

Investment Philosophy

The Portfolio will invest primarily in equity or equity type securities of companies in developed countries excluding the U.S. These equity securities will be listed on a stock exchange or traded in another recognized market and include, but are not limited to, common and preferred stocks, securities convertible or exchangeable into common or preferred stock, warrants, rights and depository arrangements. ***MSCI EAFE through 12/31/1996, 50% Hedged EAFE through 03/31/2011 and MSCI EAFE again thereafter.**

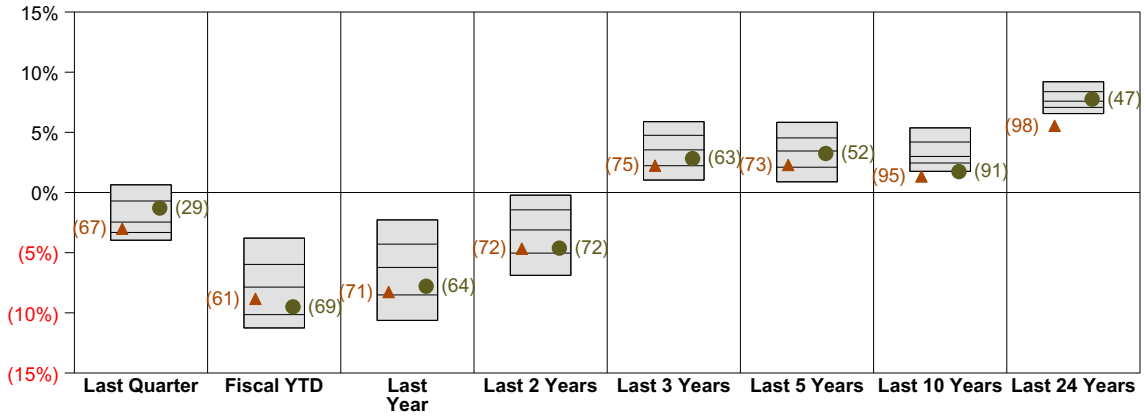
Quarterly Summary and Highlights

- Capital Group's portfolio posted a (1.29)% return for the quarter placing it in the 29 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 64 percentile for the last year.
- Capital Group's portfolio outperformed the Benchmark by 1.71% for the quarter and outperformed the Benchmark for the year by 0.48%.

Quarterly Asset Growth

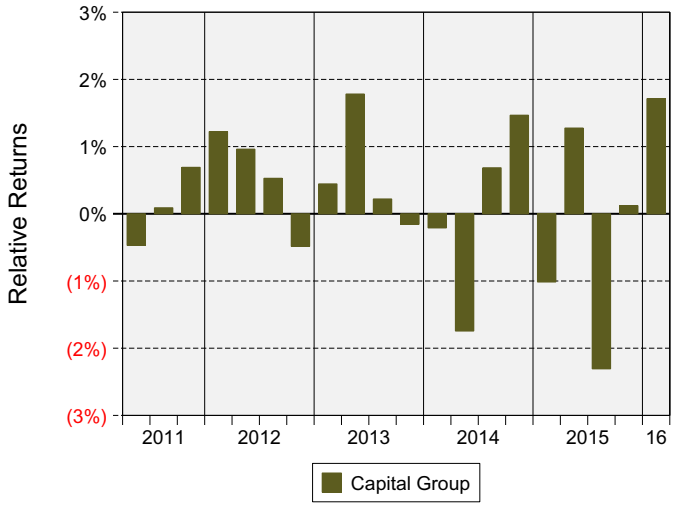
Beginning Market Value	$125,313,707
Net New Investment	$-132,456
Investment Gains/(Losses)	$-1,629,188
Ending Market Value	$123,552,063

Performance vs CAI Non-U.S. Equity Style (Gross)

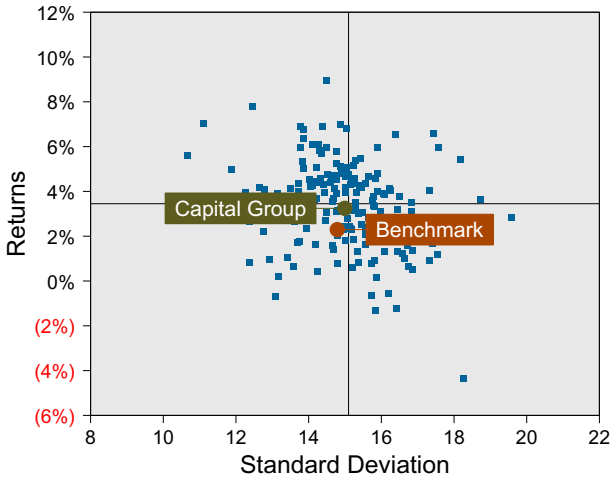


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 24 Years
10th Percentile	0.64	(3.79)	(2.27)	(0.22)	5.89	5.84	5.37	9.21
25th Percentile	(0.70)	(5.97)	(4.29)	(1.44)	4.75	4.54	4.20	8.38
Median	(2.46)	(7.86)	(6.23)	(3.11)	3.54	3.45	3.00	7.59
75th Percentile	(3.32)	(10.15)	(8.51)	(5.04)	2.23	2.10	2.45	7.08
90th Percentile	(3.97)	(11.26)	(10.63)	(6.88)	1.03	0.89	1.76	6.56
Capital Group ●	(1.29)	(9.50)	(7.79)	(4.62)	2.82	3.24	1.74	7.76
Benchmark ▲	(3.01)	(8.83)	(8.27)	(4.67)	2.23	2.29	1.34	5.55

Relative Return vs Benchmark



CAI Non-U.S. Equity Style (Gross) Annualized Five Year Risk vs Return



DFA International Small Cap Value Fund
Period Ended March 31, 2016

Investment Philosophy

The International Small Cap Value Portfolio invests in the stocks of small, non-US developed markets companies that Dimensional believes to be value stocks at the time of purchase. Specifically, it looks at companies that fall within the smallest 8-10% of each country's market capitalization, and who's shares have a high book value in relation to their market value (BtM). It does not invest in emerging markets.

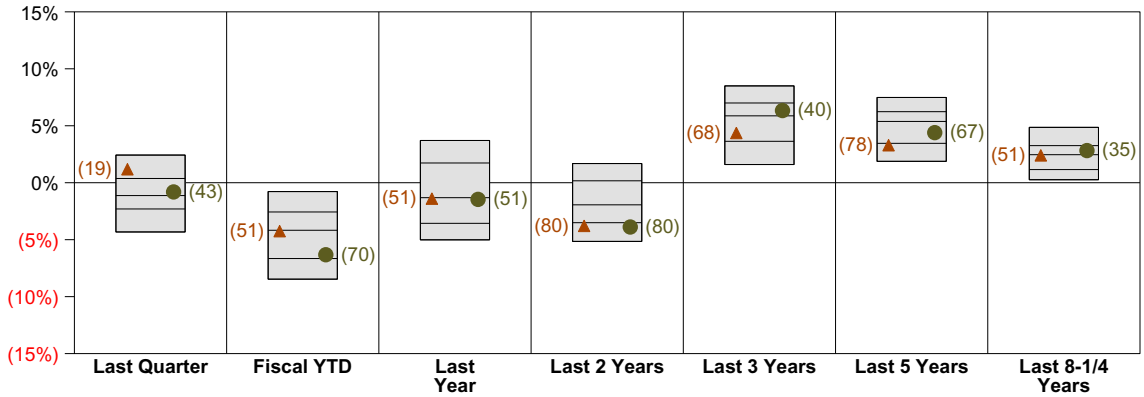
Quarterly Summary and Highlights

- DFA Intl Small Cap Value's portfolio posted a (0.81)% return for the quarter placing it in the 43 percentile of the Lipper: International Small Cap Obj group for the quarter and in the 51 percentile for the last year.
- DFA Intl Small Cap Value's portfolio underperformed the World ex US SC Value by 1.99% for the quarter and underperformed the World ex US SC Value for the year by 0.07%.

Quarterly Asset Growth

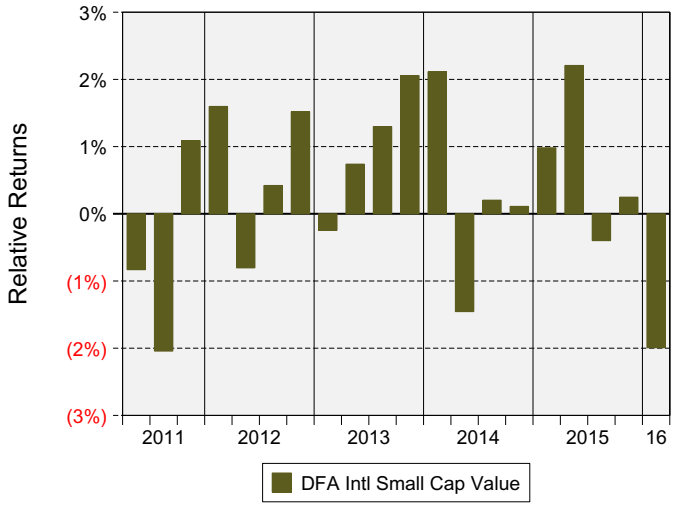
Beginning Market Value	$74,875,091
Net New Investment	$0
Investment Gains/(Losses)	$-606,203
Ending Market Value	$74,268,888

Performance vs Lipper: International Small Cap Obj (Net)

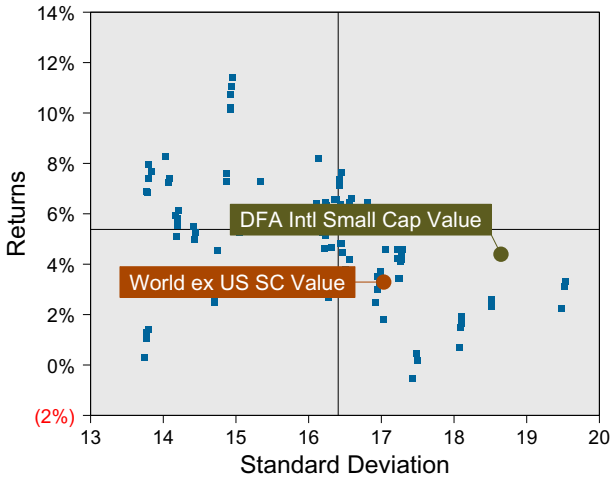


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 8-1/4 Years
10th Percentile	2.43	(0.78)	3.71	1.68	8.50	7.48	4.86
25th Percentile	0.37	(2.57)	1.73	0.17	7.00	6.24	3.26
Median	(1.13)	(4.17)	(1.31)	(1.94)	5.87	5.38	2.46
75th Percentile	(2.30)	(6.66)	(3.56)	(3.51)	3.63	3.46	1.16
90th Percentile	(4.32)	(8.47)	(5.01)	(5.15)	1.60	1.88	0.26
DFA Intl Small Cap Value ●	(0.81)	(6.32)	(1.46)	(3.89)	6.33	4.40	2.82
World ex US SC Value ▲	1.18	(4.25)	(1.39)	(3.79)	4.36	3.29	2.40

Relative Return vs World ex US SC Value



Lipper: International Small Cap Obj (Net) Annualized Five Year Risk vs Return



Northern Tr AM Wrld ex US
Period Ended March 31, 2016

Investment Philosophy

The Fund's objective is to provide investment results that approximate the overall performance of the MSCI World ex-US Equity Index.

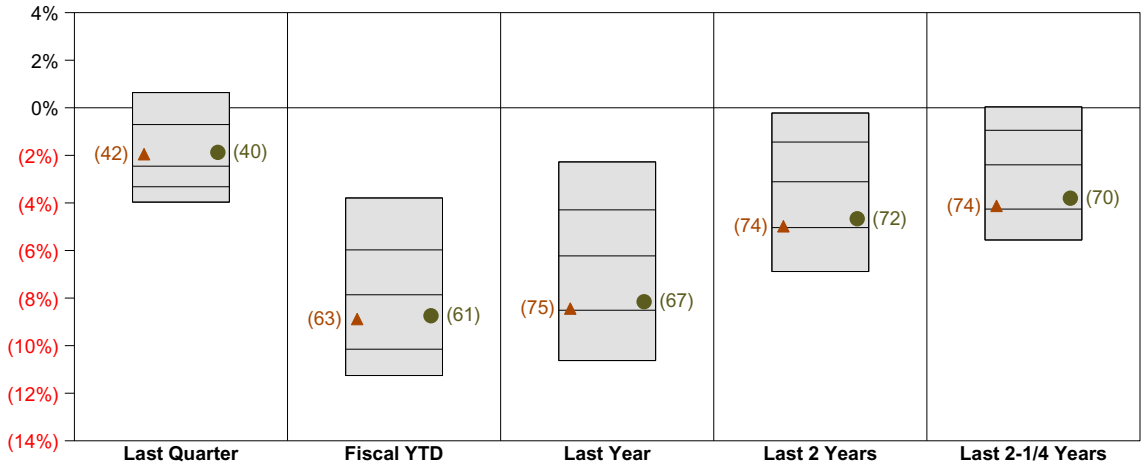
Quarterly Summary and Highlights

- Northern Tr AM Wrld ex US's portfolio posted a (1.87)% return for the quarter placing it in the 40 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 67 percentile for the last year.
- Northern Tr AM Wrld ex US's portfolio outperformed the MSCI World ex US by 0.08% for the quarter and outperformed the MSCI World ex US for the year by 0.29%.

Quarterly Asset Growth

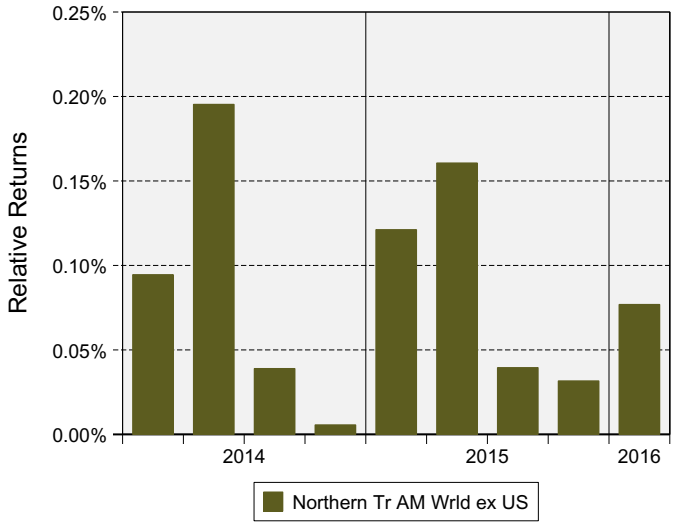
Beginning Market Value	$229,636,515
Net New Investment	$21,459,911
Investment Gains/(Losses)	$-2,888,130
Ending Market Value	$248,208,296

Performance vs CAI Non-U.S. Equity Style (Gross)

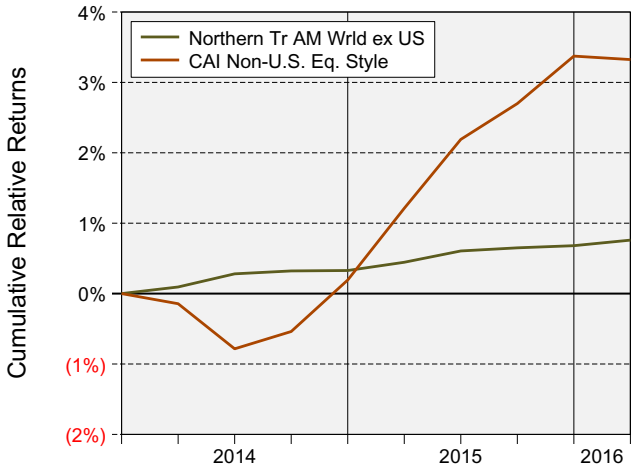


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 2-1/4 Years
10th Percentile	0.64	(3.79)	(2.27)	(0.22)	0.04
25th Percentile	(0.70)	(5.97)	(4.29)	(1.44)	(0.95)
Median	(2.46)	(7.86)	(6.23)	(3.11)	(2.40)
75th Percentile	(3.32)	(10.15)	(8.51)	(5.04)	(4.26)
90th Percentile	(3.97)	(11.26)	(10.63)	(6.88)	(5.56)
Northern Tr AM Wrld ex US ●	(1.87)	(8.74)	(8.15)	(4.66)	(3.80)
MSCI World ex US ▲	(1.95)	(8.88)	(8.44)	(4.98)	(4.12)

Relative Return vs MSCI World ex US



Cumulative Returns vs MSCI World ex US



Wellington Management
Period Ended March 31, 2016

Investment Philosophy

The International Small Cap Opportunities investment approach is bottom-up focused, and leverages the global research resources at Wellington Management. In implementing purchase decisions, consideration is given to the size, liquidity, and volatility of these prospects. Sell decisions are based on changing fundamentals or valuations, or on finding better opportunities elsewhere. The assets are not hedged.

Quarterly Summary and Highlights

- Wellington Management's portfolio posted a (3.01)% return for the quarter placing it in the 83 percentile of the CAI International Small Cap Style group for the quarter and in the 6 percentile for the last year.
- Wellington Management's portfolio underperformed the S&P BMI EPAC <$2 B by 3.09% for the quarter and outperformed the S&P BMI EPAC <$2 B for the year by 5.76%.

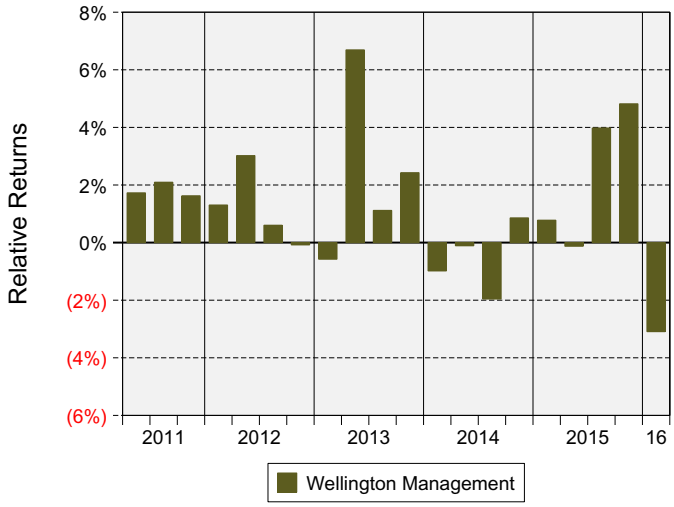
Quarterly Asset Growth

Beginning Market Value	$95,139,737
Net New Investment	$-193,511
Investment Gains/(Losses)	$-2,876,651
Ending Market Value	$92,069,575

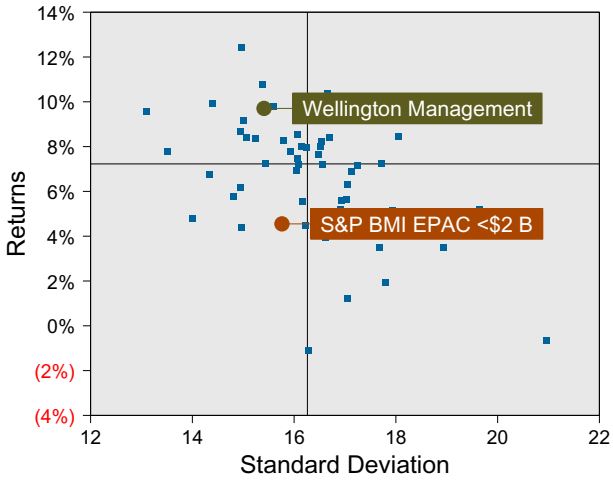
Performance vs CAI International Small Cap Style (Gross)

	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 14 Years
10th Percentile	1.36	1.41	6.77	3.68	11.75	9.86	7.82	13.27
25th Percentile	0.14	0.06	5.99	2.04	9.41	8.44	6.62	12.10
Median	(0.89)	(1.57)	2.36	0.81	7.94	7.23	5.28	11.19
75th Percentile	(2.19)	(3.98)	0.23	(0.81)	5.69	5.21	4.41	9.85
90th Percentile	(3.53)	(5.84)	(2.13)	(4.48)	3.53	3.48	1.47	8.16
Wellington Management ●	(3.01)	2.79	8.79	3.42	11.32	9.71	6.64	11.28
S&P BMI EPAC <$2 B ▲	0.08	(2.77)	3.03	0.94	6.29	4.55	3.25	9.49

Relative Return vs S&P BMI EPAC <$2 B



CAI International Small Cap Style (Gross) Annualized Five Year Risk vs Return



Axiom Emerging Markets
Period Ended March 31, 2016

Investment Philosophy

The Emerging Markets Equity strategy seeks to invest in emerging market securities issued by companies whose key business drivers are both improving and exceeding expectations, as determined by Axiom's stock selection techniques focused on fundamental company analysis. The strategy considers companies either (i) located in countries that are not included in the MSCI Developed Markets Index series or (ii) that derive a majority of their revenues or assets from a country or countries not included in the MSCI Developed Markets Index series, in each case at the time of investment. Although the Manager generally expects the strategy's investment portfolio to be geographically diverse, there are no prescribed limits on geographic distribution of the strategy's investments and the strategy has the authority to invest in securities traded in securities markets or any country in the world.

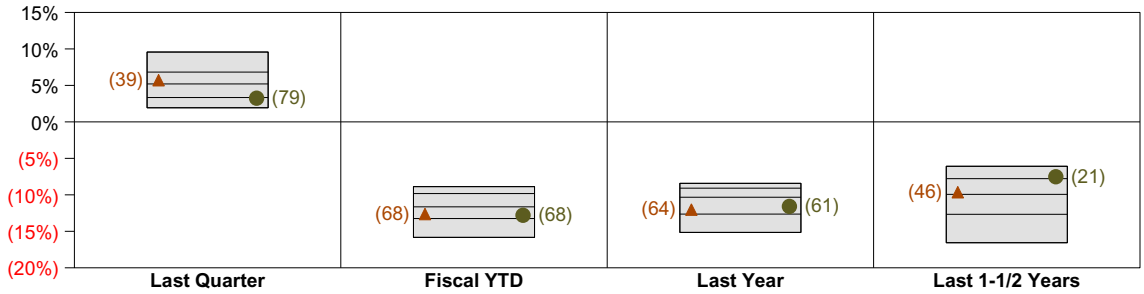
Quarterly Summary and Highlights

- Axiom Emerging Markets's portfolio posted a 3.25% return for the quarter placing it in the 79 percentile of the CAI MF - Emerging Markets Style group for the quarter and in the 61 percentile for the last year.
- Axiom Emerging Markets's portfolio underperformed the MSCI EM by 2.47% for the quarter and outperformed the MSCI EM for the year by 0.44%.

Quarterly Asset Growth

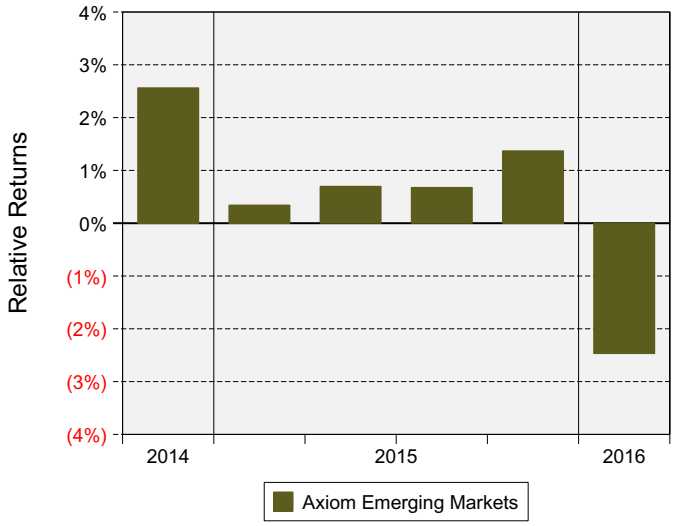
Beginning Market Value	$115,886,735
Net New Investment	$8,250,000
Investment Gains/(Losses)	$4,529,716
Ending Market Value	$128,666,451

Performance vs CAI MF - Emerging Markets Style (Net)

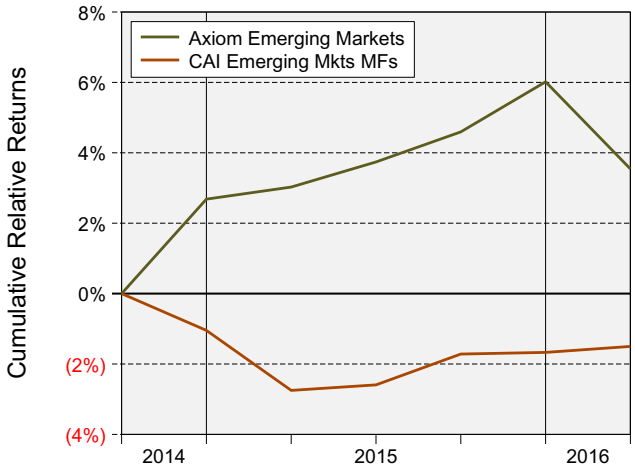


	Last Quarter	Fiscal YTD	Last Year	Last 1-1/2 Years
10th Percentile	9.57	(8.87)	(8.43)	(6.08)
25th Percentile	6.82	(9.82)	(9.08)	(7.78)
Median	5.20	(11.65)	(10.33)	(9.93)
75th Percentile	3.34	(13.25)	(12.64)	(12.67)
90th Percentile	1.93	(15.83)	(15.15)	(16.56)
Axiom Emerging Markets ●	3.25	(12.80)	(11.59)	(7.52)
MSCI EM ▲	5.71	(12.63)	(12.03)	(9.64)

Relative Return vs MSCI EM



Cumulative Returns vs MSCI EM



DFA Emerging Markets
Period Ended March 31, 2016

Investment Philosophy

The Emerging Markets Small Cap Portfolio invests in small cap emerging markets companies. Presently, this means investment in companies whose market capitalization is less than $2.3 billion at the time of purchase. Dimensional considers, among other things, information disseminated by the International Finance Corporation in determining and approving emerging market countries.

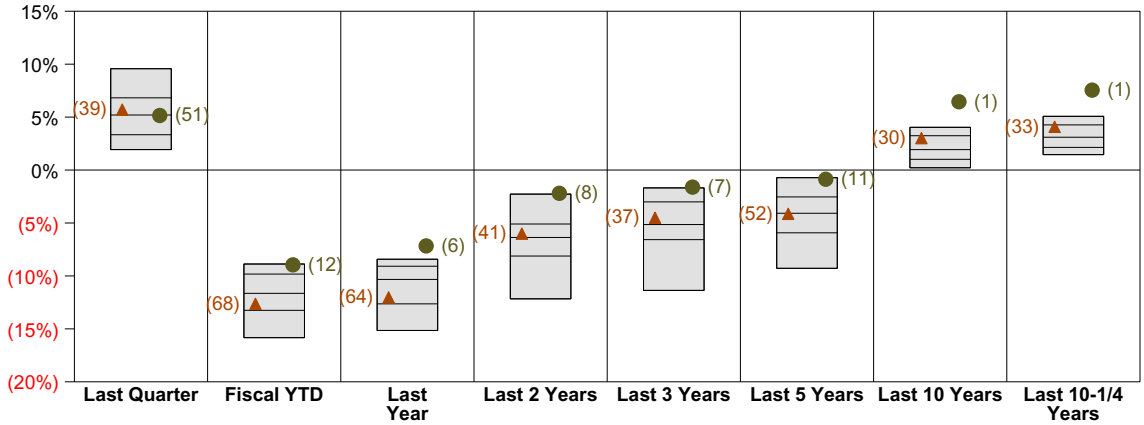
Quarterly Summary and Highlights

- DFA Emerging Markets's portfolio posted a 5.15% return for the quarter placing it in the 51 percentile of the CAI MF - Emerging Markets Style group for the quarter and in the 6 percentile for the last year.
- DFA Emerging Markets's portfolio underperformed the MSCI EM by 0.56% for the quarter and outperformed the MSCI EM for the year by 4.86%.

Quarterly Asset Growth

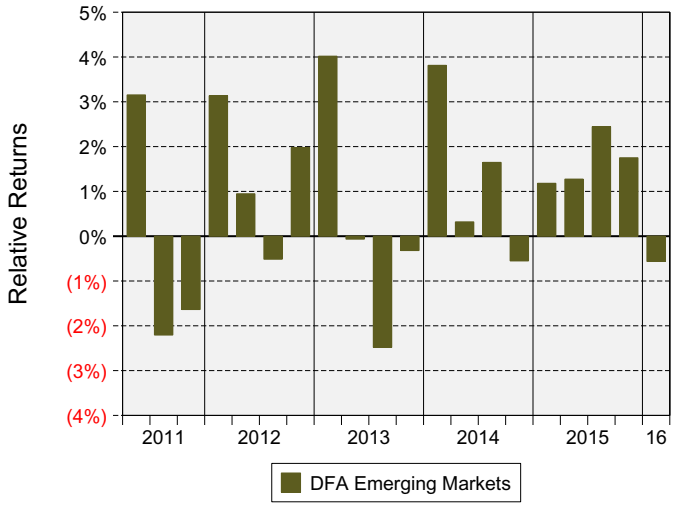
Beginning Market Value	$39,345,908
Net New Investment	$2,750,000
Investment Gains/(Losses)	$2,391,553
Ending Market Value	$44,487,461

Performance vs CAI MF - Emerging Markets Style (Net)

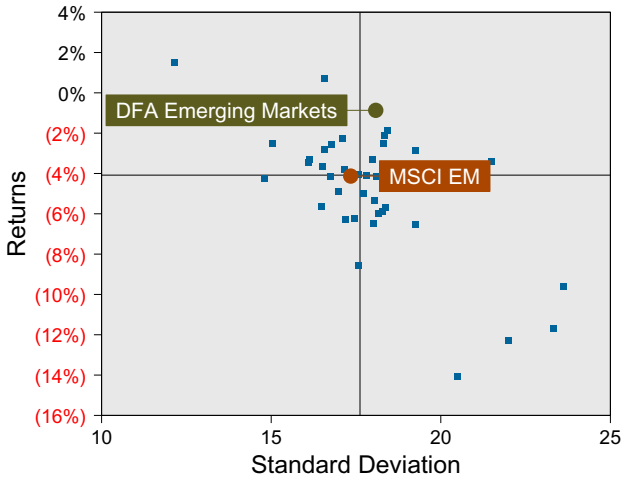


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 10-1/4 Years
10th Percentile	9.57	(8.87)	(8.43)	(2.27)	(1.68)	(0.72)	4.04	5.07
25th Percentile	6.82	(9.82)	(9.08)	(5.10)	(3.01)	(2.54)	3.24	4.26
Median	5.20	(11.65)	(10.33)	(6.37)	(5.15)	(4.08)	1.93	3.10
75th Percentile	3.34	(13.25)	(12.64)	(8.12)	(6.57)	(5.93)	1.01	2.14
90th Percentile	1.93	(15.83)	(15.15)	(12.16)	(11.37)	(9.28)	0.21	1.46
DFA Emerging Markets ●	5.15	(8.96)	(7.17)	(2.20)	(1.61)	(0.87)	6.45	7.55
MSCI EM ▲	5.71	(12.63)	(12.03)	(6.00)	(4.50)	(4.13)	3.02	4.09

Relative Return vs MSCI EM



CAI MF - Emerging Markets Style (Net) Annualized Five Year Risk vs Return



World Equity

EPOCH Investment
Period Ended March 31, 2016

Investment Philosophy

Epoch seeks to produce superior risk adjusted returns by building portfolios of businesses with outstanding risk/reward profiles without running a high degree of capital risk. They analyze businesses in the same manner private investors would in looking to purchase the entire company. The strategy only invests in businesses that are understood and where they have confidence in the financial statements. They seek businesses that generate "free cash flow" and securities that have unrecognized potential yet possess a combination of above average yield, above average free cash flow growth, and/or below average valuation. Global Choice is a "best ideas" portfolio at Epoch with every stock held in other strategies managed by the firm. **The EPOCH Blended Benchmark consists of the S&P 500 Index through 12/31/2011 and the MSCI World Index thereafter.**

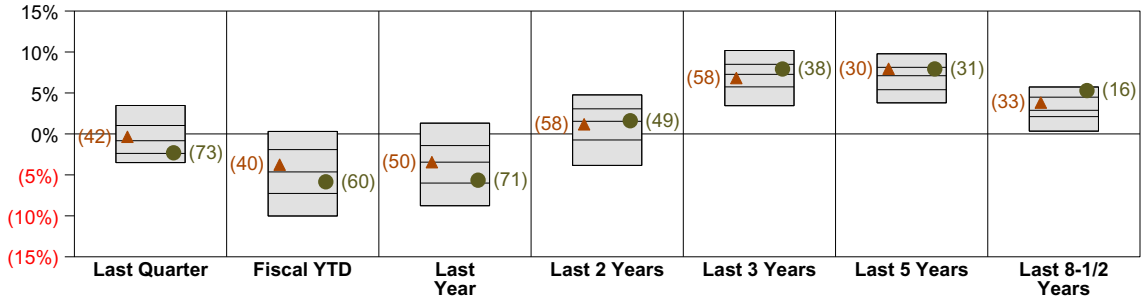
Quarterly Summary and Highlights

- EPOCH Investment's portfolio posted a (2.30)% return for the quarter placing it in the 73 percentile of the CAI Global Equity Broad Style group for the quarter and in the 71 percentile for the last year.
- EPOCH Investment's portfolio underperformed the EPOCH Blended Benchmark by 1.95% for the quarter and underperformed the EPOCH Blended Benchmark for the year by 2.20%.

Quarterly Asset Growth

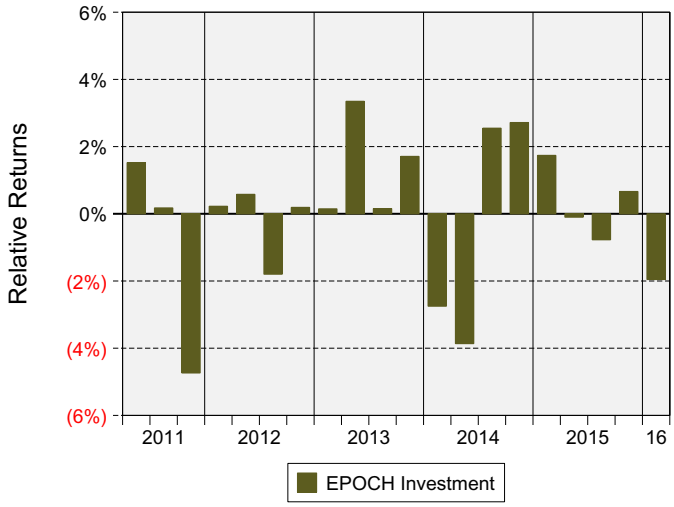
Beginning Market Value	$326,199,223
Net New Investment	$18,973,774
Investment Gains/(Losses)	$-5,802,730
Ending Market Value	$339,370,267

Performance vs CAI Global Equity Broad Style (Gross)

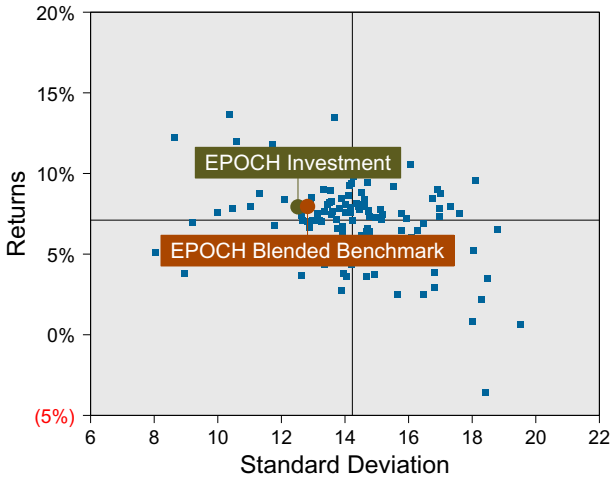


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 8-1/2 Years
10th Percentile	3.47	0.30	1.31	4.76	10.18	9.78	5.73
25th Percentile	1.03	(1.91)	(1.42)	3.06	8.49	8.13	4.48
Median	(0.83)	(4.64)	(3.45)	1.54	7.27	7.11	2.88
75th Percentile	(2.38)	(7.27)	(6.00)	(0.74)	5.74	5.40	2.11
90th Percentile	(3.50)	(10.02)	(8.77)	(3.84)	3.45	3.79	0.34
EPOCH Investment ●	(2.30)	(5.85)	(5.65)	1.61	7.92	7.93	5.29
EPOCH Blended Benchmark ▲	(0.35)	(3.75)	(3.45)	1.18	6.82	7.95	3.83

Relative Returns vs EPOCH Blended Benchmark



CAI Global Equity Broad Style (Gross) Annualized Five Year Risk vs Return



LSV Asset Management
Period Ended March 31, 2016

Investment Philosophy

The Global Value (ACWI) Equity strategy is managed using quantitative techniques to select individual securities in a risk-controlled, bottom-up approach. Value factors and security selection dominate sector/industry factors as explanators of performance.

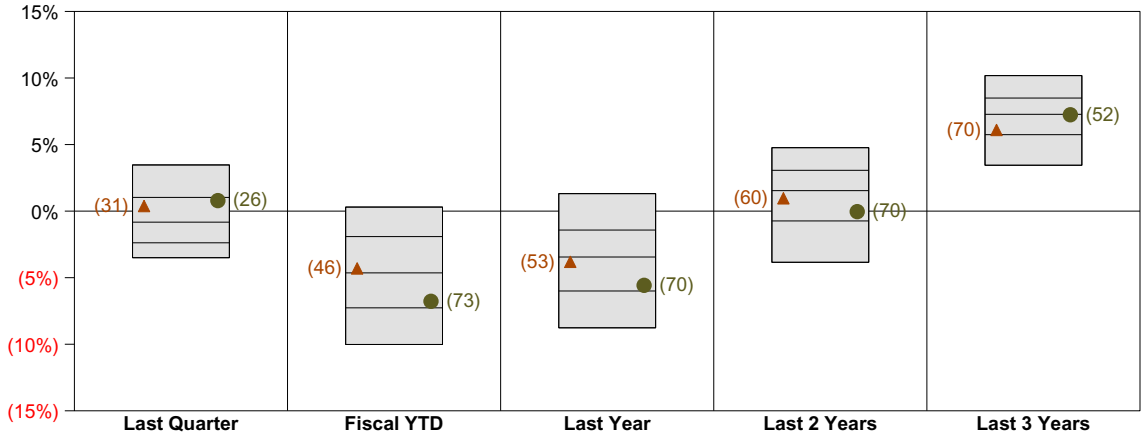
Quarterly Summary and Highlights

- LSV Asset Management's portfolio posted a 0.79% return for the quarter placing it in the 26 percentile of the CAI Global Equity Broad Style group for the quarter and in the 70 percentile for the last year.
- LSV Asset Management's portfolio outperformed the MSCI ACWI Gross by 0.40% for the quarter and underperformed the MSCI ACWI Gross for the year by 1.77%.

Quarterly Asset Growth

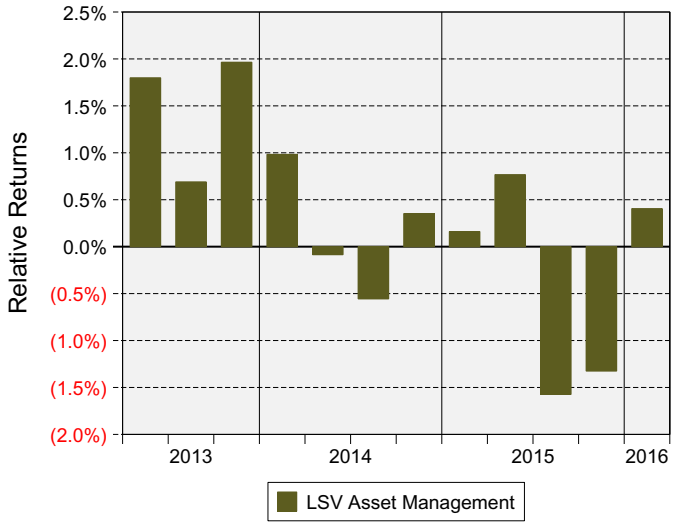
Beginning Market Value	$408,784,341
Net New Investment	$7,396,599
Investment Gains/(Losses)	$3,776,606
Ending Market Value	$419,957,546

Performance vs CAI Global Equity Broad Style (Gross)

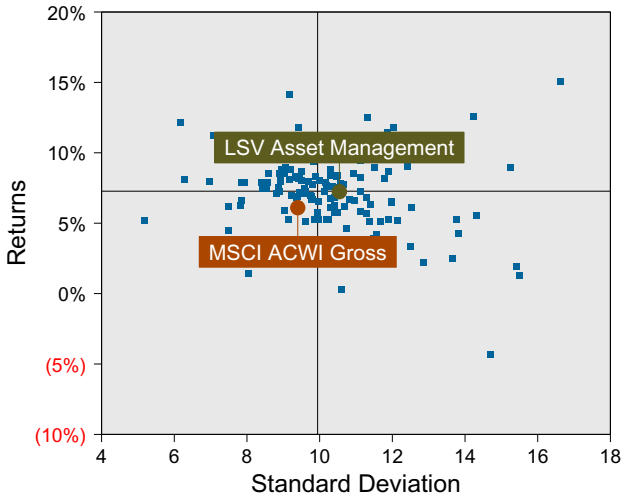


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years
10th Percentile	3.47	0.30	1.31	4.76	10.18
25th Percentile	1.03	(1.91)	(1.42)	3.06	8.49
Median	(0.83)	(4.64)	(3.45)	1.54	7.27
75th Percentile	(2.38)	(7.27)	(6.00)	(0.74)	5.74
90th Percentile	(3.50)	(10.02)	(8.77)	(3.84)	3.45
LSV Asset Management ●	0.79	(6.77)	(5.58)	(0.04)	7.24
MSCI ACWI Gross ▲	0.38	(4.30)	(3.81)	0.97	6.10

Relative Return vs MSCI ACWI Gross



CAI Global Equity Broad Style (Gross) Annualized Three Year Risk vs Return



Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 15-1/4 Years
Private Equity	**(4.05%)**	**(9.28%)**	**(1.72%)**	**0.82%**	**1.85%**
Adams Street Direct Co-Invest Fd	(0.81%)	6.78%	18.87%	14.06%	-
Adams Street Direct Fd 2010	2.90%	17.92%	18.09%	15.48%	-
Adams Street 1998 Partnership	1.57%	3.85%	4.84%	1.47%	1.81%
Adams Street 1999 Partnership	2.92%	8.81%	3.06%	3.91%	2.87%
Adams Street 2000 Partnership	4.02%	1.19%	0.34%	3.23%	3.52%
Adams Street 2001 Partnership	8.15%	(3.36%)	6.94%	7.38%	4.00%
Adams Street 2002 Partnership	6.20%	0.73%	1.73%	4.78%	-
Adams Street 2003 Partnership	4.44%	6.60%	15.76%	9.89%	-
Adams Street 2010 Partnership	0.53%	9.15%	15.12%	13.41%	-
Adams Street 2008 Fund	3.23%	13.71%	13.44%	9.86%	-
Adams Street 1999 Non-US	(2.60%)	9.11%	1.37%	9.43%	6.55%
Adams Street 2000 Non-US	(0.21%)	(9.87%)	(2.15%)	(0.96%)	2.70%
Adams Street 2001 Non-US	(3.22%)	35.78%	28.59%	13.89%	-
Adams Street 2002 Non-US	12.72%	23.19%	7.24%	7.44%	-
Adams Street 2003 Non-US	10.22%	14.26%	9.79%	10.26%	-
Adams Street 2004 Non-US	1.94%	(0.35%)	8.33%	5.63%	-
Adams Street 2010 Non-US	2.58%	7.55%	6.91%	5.31%	-
Adams Street 2010 NonUS Emg	4.25%	16.78%	11.51%	(2.37%)	-
Adams Street 2015 Global Fd	24.57%	-	-	-	-
Adams Street BVCF IV Fund	0.23%	26.47%	24.46%	31.58%	18.96%
CorsAir III	(1.51%)	23.83%	7.02%	2.61%	-
ND Investors	13.24%	7.77%	5.35%	3.71%	-
CorsAir IV	(3.92%)	7.54%	15.47%	5.74%	-
Capital International V	(5.09%)	(31.57%)	(11.25%)	(5.38%)	-
Capital International VI	(3.10%)	(11.69%)	(18.01%)	-	-
EIG Energy Fund XIV	(44.65%)	(61.49%)	(30.60%)	(19.12%)	-
Lewis & Clark	0.00%	(32.09%)	(16.16%)	(5.81%)	-
Lewis & Clark II	0.00%	(14.35%)	(6.80%)	(7.39%)	-
Quantum Energy Partners	0.00%	(36.79%)	1.68%	9.64%	-
Matlin Patterson I	10.56%	10.56%	3.79%	648.58%	-
Matlin Patterson II	8.03%	43.24%	1.59%	(31.54%)	-
Matlin Patterson III	(4.96%)	0.19%	(2.60%)	20.67%	-
Russell 1000 Index	1.17%	0.50%	11.52%	11.35%	5.24%
Russell 2000 Index	(1.52%)	(9.76%)	6.84%	7.20%	7.04%

Declaration Total Return
Period Ended March 31, 2016

Investment Philosophy

The Fund's portfolio holdings consist primarily of RMBS issued by private sector companies (Non-Agency RMBS) and government agencies (Agency MBS) and CMBS issued by private sector companies. Agency MBS includes securities issued by the Federal National Mortgage Association (Fannie Mae), the Federal Home Loan Mortgage Corporation (Freddie Mac) and the Government National Mortgage Association (Ginnie Mae). Portfolio holdings may range from short tenure senior classes to stressed issues or subordinated securities with substantial risk of non-payment and correspondingly higher yields. Smaller portfolio allocations may include consumer asset-backed securities (ABS), or other structured credit securities and corporate bonds. As a diversification strategy and a potential hedge to credit risk, the Fund may invest in securities which tend to benefit from slow mortgage prepayments and economic growth, such as interest only (IO) MBS.

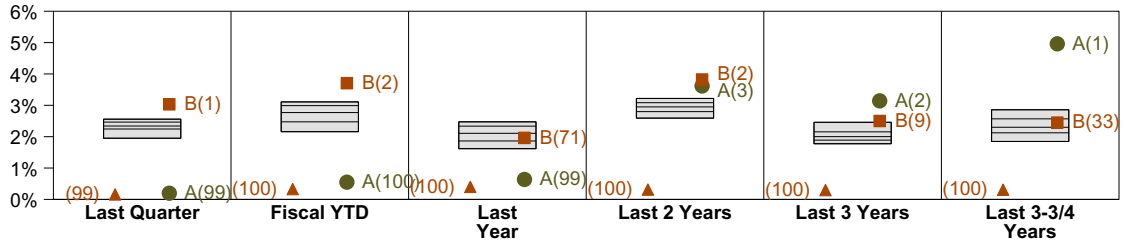
Quarterly Summary and Highlights

- Declaration Total Return's portfolio posted a 0.20% return for the quarter placing it in the 99 percentile of the CAI Intermediate Fixed-Inc Style group for the quarter and in the 99 percentile for the last year.
- Declaration Total Return's portfolio outperformed the Libor-3 Month by 0.04% for the quarter and outperformed the Libor-3 Month for the year by 0.23%.

Quarterly Asset Growth

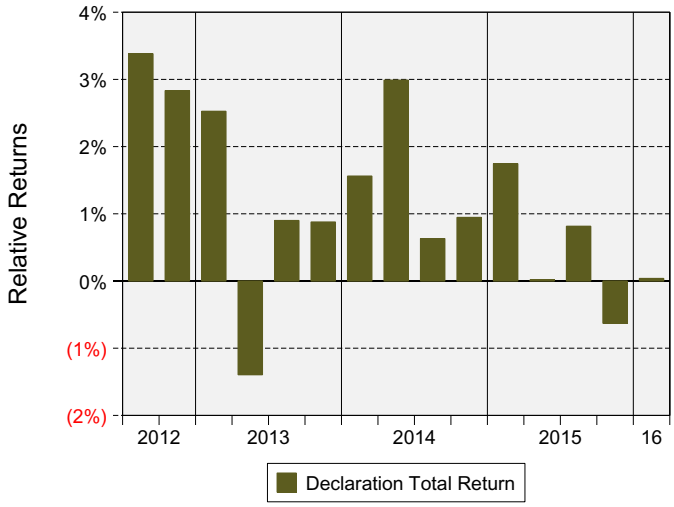
Beginning Market Value	$84,726,314
Net New Investment	$-30,422
Investment Gains/(Losses)	$167,365
Ending Market Value	$84,863,258

Performance vs CAI Intermediate Fixed-Inc Style (Gross)

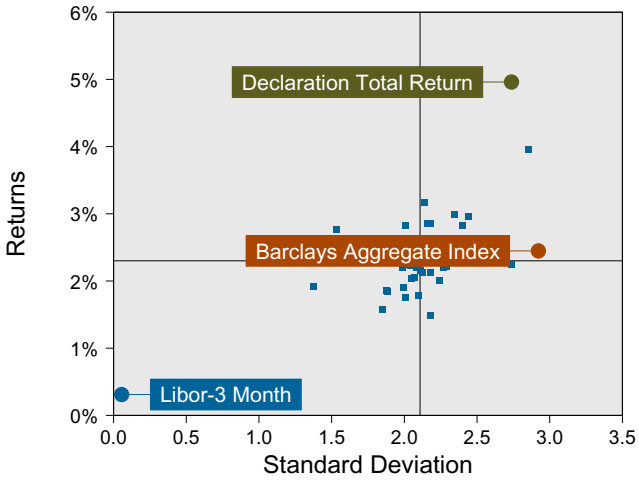


		Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 3-3/4 Years
10th Percentile		2.56	3.11	2.47	3.22	2.46	2.86
25th Percentile		2.46	2.99	2.34	3.08	2.15	2.57
Median		2.34	2.77	2.11	2.95	2.00	2.30
75th Percentile		2.24	2.47	1.86	2.80	1.89	2.12
90th Percentile		1.95	2.16	1.62	2.59	1.77	1.85
Declaration Total Return	● A	0.20	0.55	0.64	3.62	3.14	4.96
Barclays Aggregate Index	■ B	3.03	3.71	1.96	3.82	2.50	2.45
Libor-3 Month	▲	0.16	0.33	0.40	0.31	0.30	0.31

Relative Return vs Libor-3 Month



CAI Intermediate Fixed-Inc Style (Gross) Annualized Three and Three-Quarter Year Risk vs Return



J.P. Morgan MBS
Period Ended March 31, 2016

Investment Philosophy

JP Morgan seeks to outperform the benchmark over longer horizons regardless of the market environment.

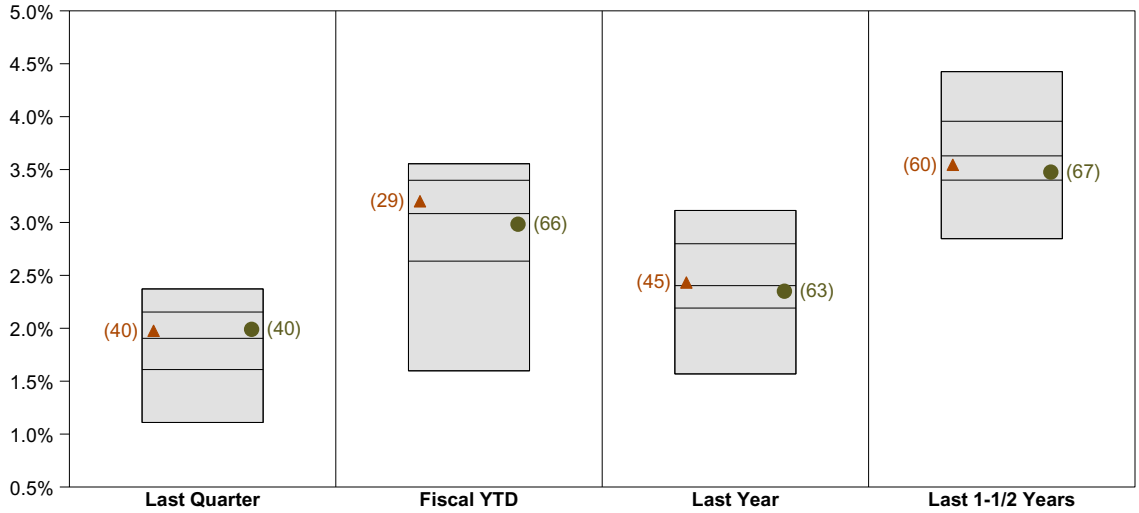
Quarterly Summary and Highlights

- J.P. Morgan MBS's portfolio posted a 1.99% return for the quarter placing it in the 40 percentile of the CAI Mtg-Backed FI Style group for the quarter and in the 63 percentile for the last year.
- J.P. Morgan MBS's portfolio outperformed the Barclays Mortgage by 0.01% for the quarter and underperformed the Barclays Mortgage for the year by 0.08%.

Quarterly Asset Growth

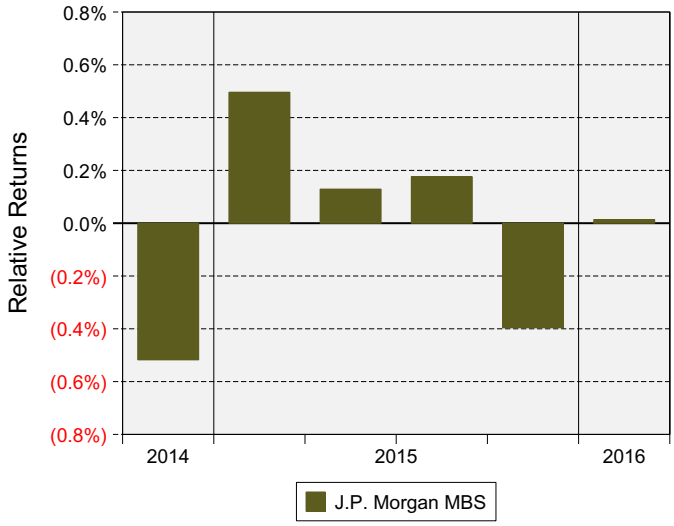
Beginning Market Value	$122,871,434
Net New Investment	$-13,064,698
Investment Gains/(Losses)	$2,392,451
Ending Market Value	$112,199,186

Performance vs CAI Mtg-Backed FI Style (Gross)

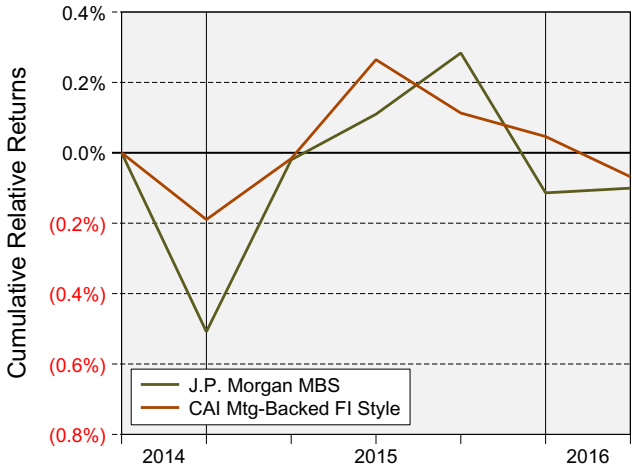


	Last Quarter	Fiscal YTD	Last Year	Last 1-1/2 Years
10th Percentile	2.37	3.55	3.11	4.43
25th Percentile	2.15	3.40	2.80	3.96
Median	1.90	3.08	2.40	3.63
75th Percentile	1.61	2.63	2.19	3.40
90th Percentile	1.11	1.60	1.57	2.85
J.P. Morgan MBS ●	1.99	2.98	2.35	3.48
Barclays Mortgage ▲	1.98	3.20	2.43	3.55

Relative Return vs Barclays Mortgage



Cumulative Returns vs Barclays Mortgage



PIMCO DiSCO II
Period Ended March 31, 2016

Investment Philosophy

The PIMCO Distressed Senior Credit Opportunities Fund is an opportunistic private-equity style Fund which seeks to provide investors enhanced returns principally through long-biased investments in undervalued senior and super senior structured credit securities that are expected to produce attractive levels of current income and that may also appreciate in value over the long term. The fund will look to capitalize on forced sales by liquidity constrained investors.

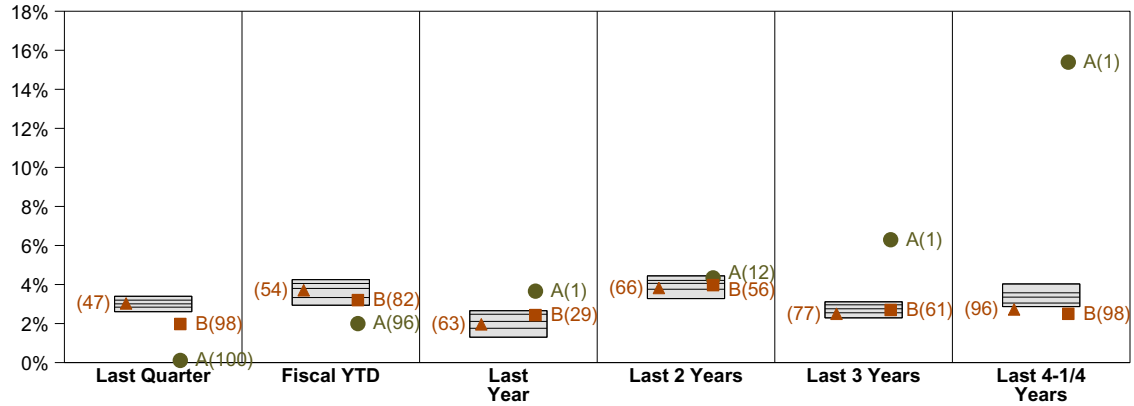
Quarterly Summary and Highlights

- PIMCO DiSCO II's portfolio posted a 0.11% return for the quarter placing it in the 100 percentile of the CAI Core Bond Fixed-Inc Style group for the quarter and in the 1 percentile for the last year.
- PIMCO DiSCO II's portfolio underperformed the Barclays Aggregate Index by 2.92% for the quarter and outperformed the Barclays Aggregate Index for the year by 1.70%.

Quarterly Asset Growth

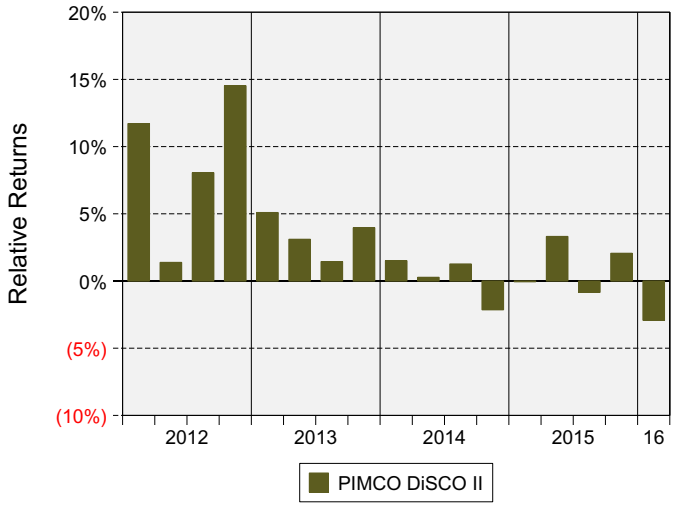
Beginning Market Value	$89,513,106
Net New Investment	$0
Investment Gains/(Losses)	$99,384
Ending Market Value	$89,612,490

Performance vs CAI Core Bond Fixed-Inc Style (Gross)

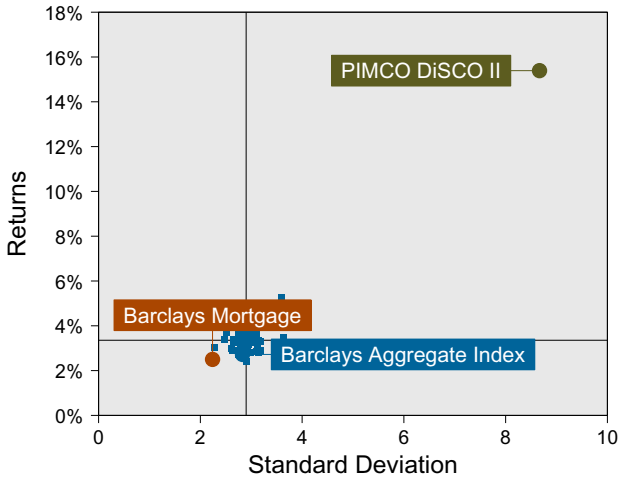


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 4-1/4 Years
10th Percentile	3.40	4.25	2.66	4.44	3.11	4.03
25th Percentile	3.20	4.05	2.48	4.21	2.96	3.58
Median	3.01	3.80	2.11	4.06	2.76	3.35
75th Percentile	2.84	3.33	1.76	3.76	2.55	3.05
90th Percentile	2.61	2.94	1.30	3.28	2.29	2.87
PIMCO DiSCO II ● A	0.11	2.00	3.66	4.34	6.29	15.39
Barclays Mortgage ■ B	1.98	3.20	2.43	3.97	2.70	2.50
Barclays Aggregate Index ▲	3.03	3.71	1.96	3.82	2.50	2.72

Relative Return vs Barclays Aggregate Index



CAI Core Bond Fixed-Inc Style (Gross) Annualized Four and One-Quarter Year Risk vs Return



PIMCO MBS
Period Ended March 31, 2016

Investment Philosophy

The PIMCO Mortgage-Backed Securities Strategy is an actively managed bond portfolio that invests in high quality, short to intermediate duration mortgage-backed securities. The fund invests primarily in securities that are highly rated, such as US Government guaranteed Ginnie Mae securities and Agency-guaranteed Fannie Mae and Freddie Mac mortgage-backed securities.

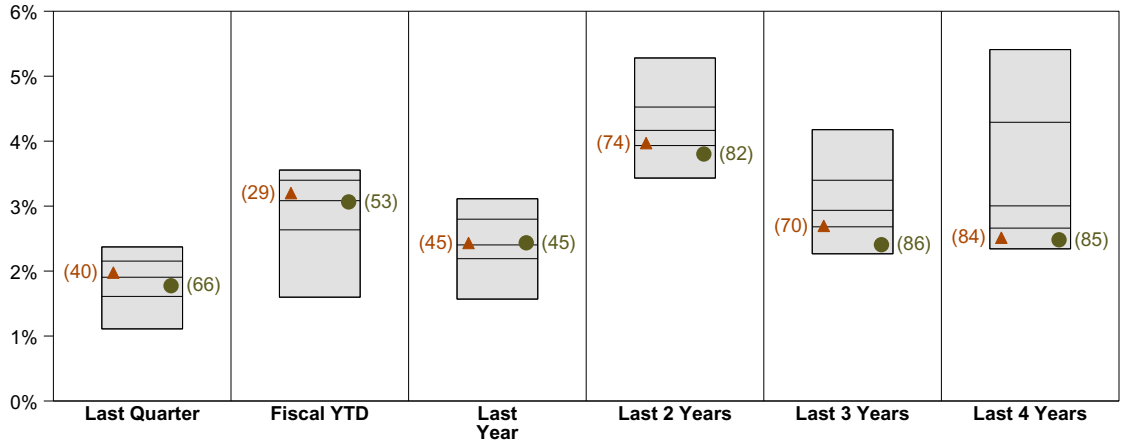
Quarterly Summary and Highlights

- PIMCO MBS's portfolio posted a 1.77% return for the quarter placing it in the 66 percentile of the CAI Mtg-Backed FI Style group for the quarter and in the 45 percentile for the last year.
- PIMCO MBS's portfolio underperformed the Barclays Mortgage by 0.20% for the quarter and outperformed the Barclays Mortgage for the year by 0.00%.

Quarterly Asset Growth

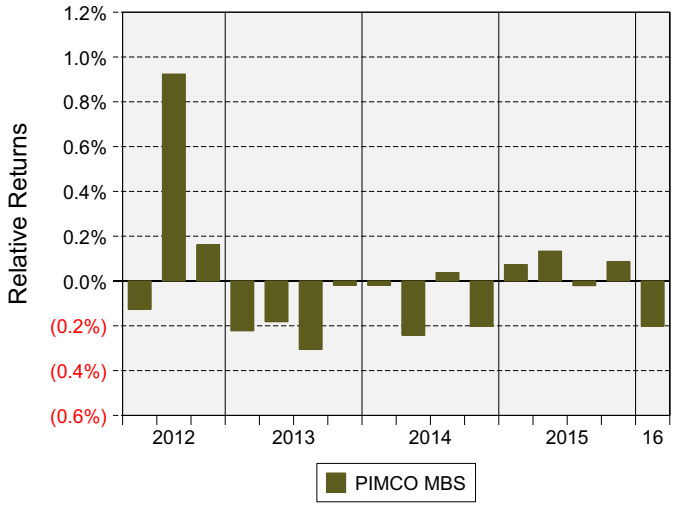
Beginning Market Value	$163,171,095
Net New Investment	$-151,026
Investment Gains/(Losses)	$2,894,137
Ending Market Value	$165,914,206

Performance vs CAI Mtg-Backed FI Style (Gross)

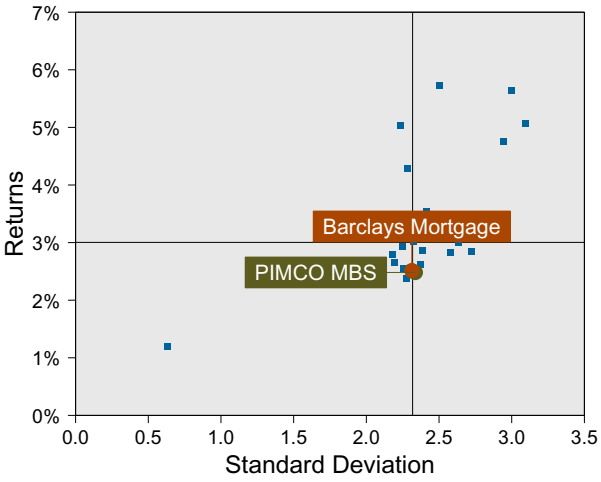


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 4 Years
10th Percentile	2.37	3.55	3.11	5.28	4.18	5.41
25th Percentile	2.15	3.40	2.80	4.52	3.40	4.29
Median	1.90	3.08	2.40	4.17	2.94	3.00
75th Percentile	1.61	2.63	2.19	3.93	2.68	2.66
90th Percentile	1.11	1.60	1.57	3.43	2.27	2.34
PIMCO MBS ●	1.77	3.06	2.44	3.80	2.41	2.48
Barclays Mortgage ▲	1.98	3.20	2.43	3.97	2.70	2.51

Relative Return vs Barclays Mortgage



CAI Mtg-Backed FI Style (Gross) Annualized Four Year Risk vs Return



PIMCO Unconstrained
Period Ended March 31, 2016

Investment Philosophy

The PIMCO Unconstrained Bond Strategy is an absolute return-oriented, investment grade quality fixed income strategy that leverages PIMCO's secular thinking, global themes, and integrated investment process without the constraints of a benchmark or significant sector/instrument limitations. The strategy focuses on long-term economic, social and political trends. Over shorter cyclical time frames, the unconstrained nature of the strategy allows PIMCO to take on more risk when tactical opportunities are identified, and it allows for reduction and diversification of risk at times when the outlook may be more challenging for traditional fixed income benchmarks. **The product changed from Commingled Fund to Separate Account in March 2014. *Libor-3 month through February 28, 2014; Fund's performance through March 31, 2014; Libor-3 month thereafter.**

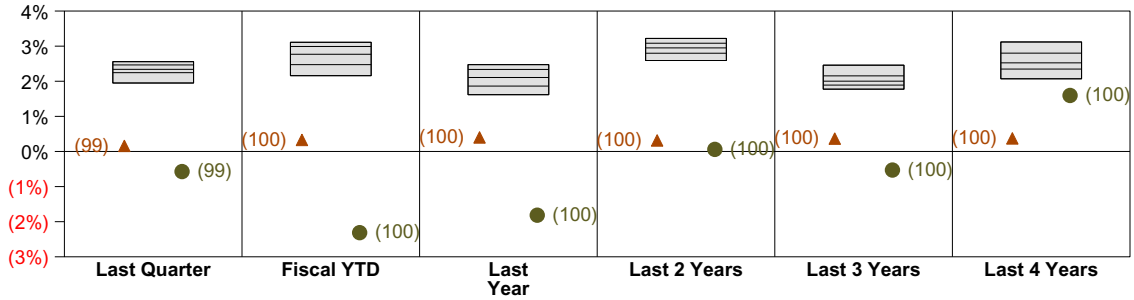
Quarterly Summary and Highlights

- PIMCO Unconstrained's portfolio posted a (0.57)% return for the quarter placing it in the 99 percentile of the CAI Intermediate Fixed-Inc Style group for the quarter and in the 100 percentile for the last year.
- PIMCO Unconstrained's portfolio underperformed the Blended Benchmark* by 0.73% for the quarter and underperformed the Blended Benchmark* for the year by 2.22%.

Quarterly Asset Growth

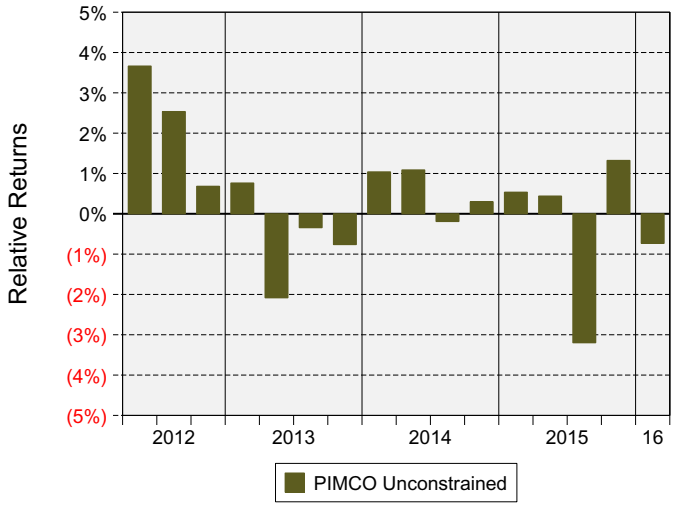
Beginning Market Value	$71,503,274
Net New Investment	$-10,090,937
Investment Gains/(Losses)	$-700,120
Ending Market Value	$60,712,217

Performance vs CAI Intermediate Fixed-Inc Style (Gross)

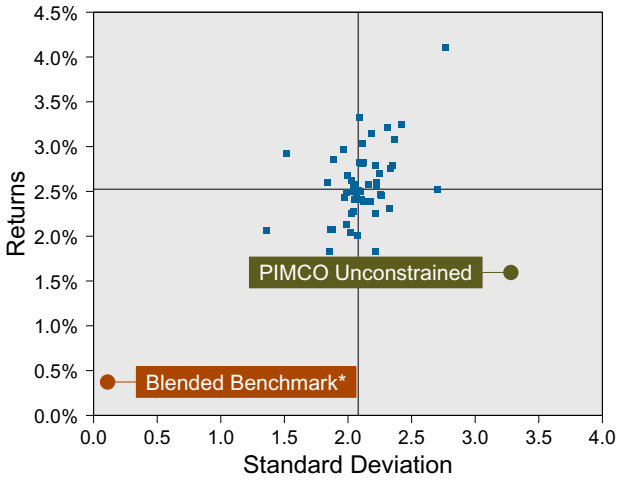


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 4 Years
10th Percentile	2.56	3.11	2.47	3.22	2.46	3.12
25th Percentile	2.46	2.99	2.34	3.08	2.15	2.80
Median	2.34	2.77	2.11	2.95	2.00	2.52
75th Percentile	2.24	2.47	1.86	2.80	1.89	2.35
90th Percentile	1.95	2.16	1.62	2.59	1.77	2.07
PIMCO Unconstrained ●	(0.57)	(2.31)	(1.81)	0.06	(0.53)	1.60
Blended Benchmark* ▲	0.16	0.33	0.40	0.31	0.37	0.37

Relative Return vs Blended Benchmark*



CAI Intermediate Fixed-Inc Style (Gross) Annualized Four Year Risk vs Return



SSgA Long US Treas Index
Period Ended March 31, 2016

Investment Philosophy

The Fund seeks an investment return that approximates as closely as practicable, before expenses, the performance of the Barclays Capital U.S. Long Treasury Bond Index over the long term.

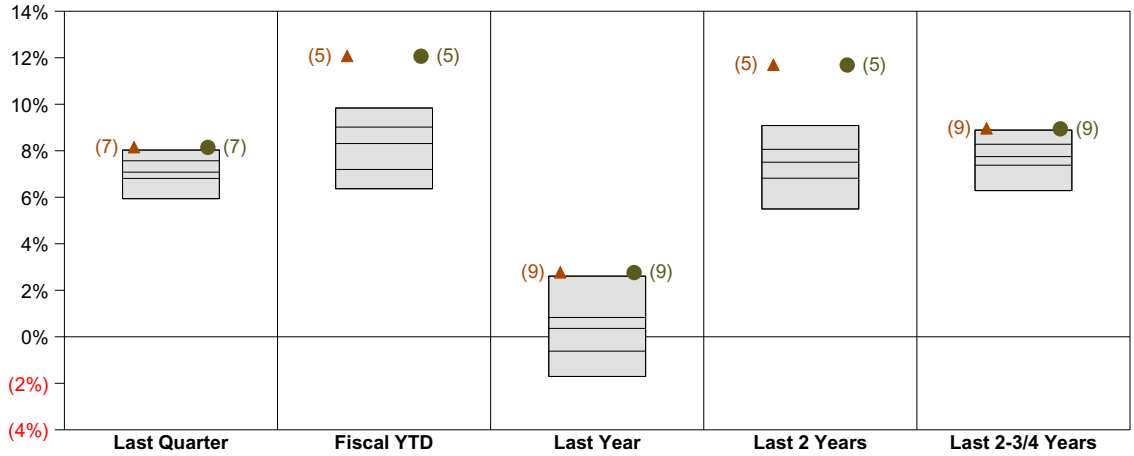
Quarterly Summary and Highlights

- SSgA Long US Treas Index's portfolio posted a 8.15% return for the quarter placing it in the 7 percentile of the CAI Extended Maturity Fixed-Inc Style group for the quarter and in the 9 percentile for the last year.
- SSgA Long US Treas Index's portfolio underperformed the Barclays Long Treas by 0.01% for the quarter and underperformed the Barclays Long Treas for the year by 0.01%.

Quarterly Asset Growth

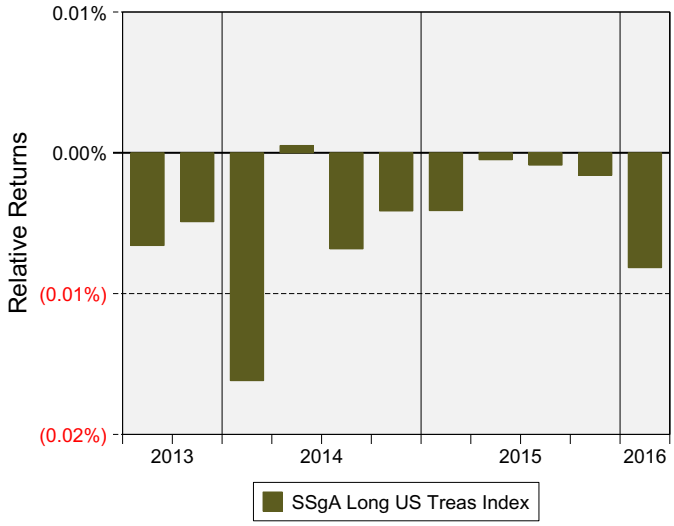
Beginning Market Value	$60,070,508
Net New Investment	$-10,006,704
Investment Gains/(Losses)	$4,865,399
Ending Market Value	$54,929,204

Performance vs CAI Extended Maturity Fixed-Inc Style (Gross)

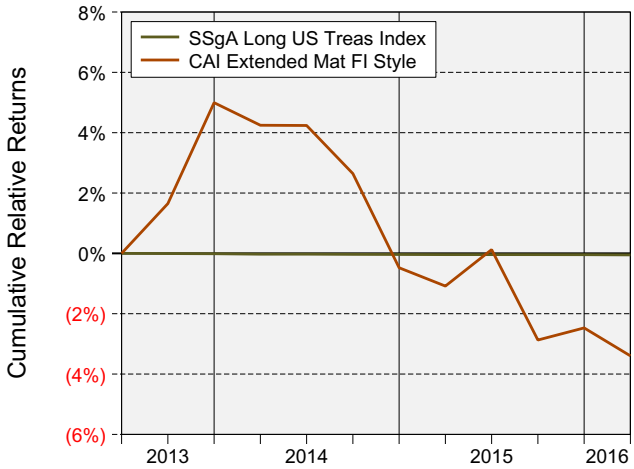


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 2-3/4 Years
10th Percentile	8.03	9.84	2.61	9.09	8.89
25th Percentile	7.57	9.02	0.83	8.06	8.28
Median	7.08	8.31	0.36	7.51	7.75
75th Percentile	6.81	7.20	(0.62)	6.82	7.38
90th Percentile	5.94	6.37	(1.71)	5.50	6.29
SSgA Long US Treas Index ●	8.15	12.07	2.76	11.69	8.94
Barclays Long Treas ▲	8.15	12.08	2.77	11.70	8.96

Relative Return vs Barclays Long Treas



Cumulative Returns vs Barclays Long Treas



Goldman Sachs 2006 Offshore
Period Ended March 31, 2016

Investment Philosophy

GS Mezzanine Partners seeks large-sized mezzanine investments comprised generally of fixed income securities and an associated equity component. They focus on providing "private high yield" capital for mid- to large-sized leveraged and management buyout transactions, recapitalizations, financings, re-financings, acquisitions and restructurings for private equity firms, private family companies and corporate issuers.

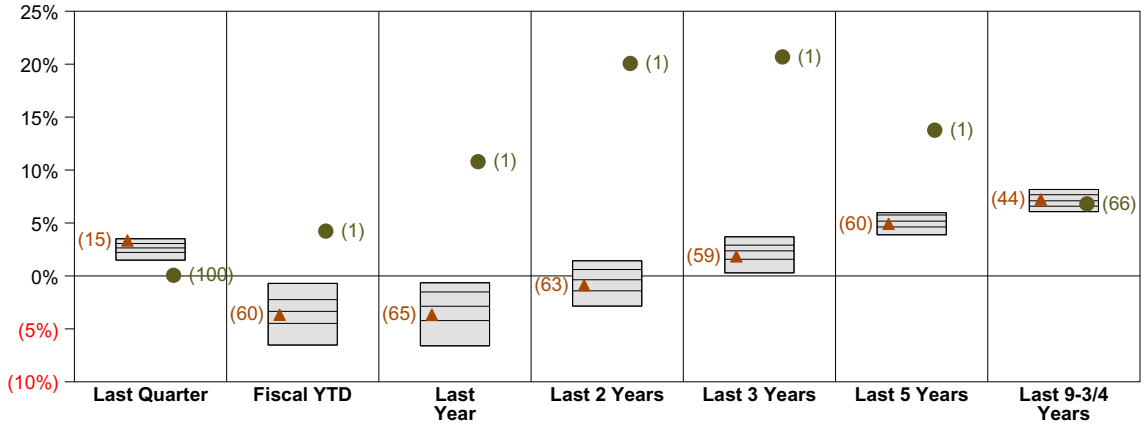
Quarterly Summary and Highlights

- Goldman Sachs's portfolio posted a 0.06% return for the quarter placing it in the 100 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 1 percentile for the last year.
- Goldman Sachs's portfolio underperformed the Barclays HY Corp 2% Issue by 3.29% for the quarter and outperformed the Barclays HY Corp 2% Issue for the year by 14.45%.

Quarterly Asset Growth

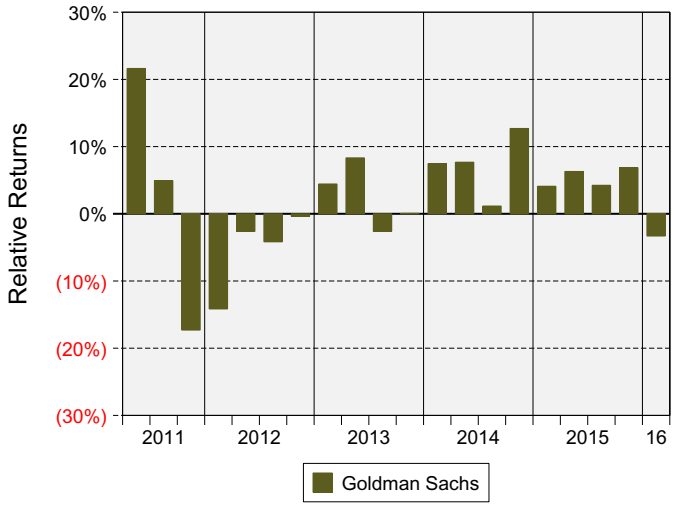
Beginning Market Value	$1,348,851
Net New Investment	$-172,641
Investment Gains/(Losses)	$84
Ending Market Value	$1,176,294

Performance vs CAI High Yield Fixed-Inc Style (Gross)

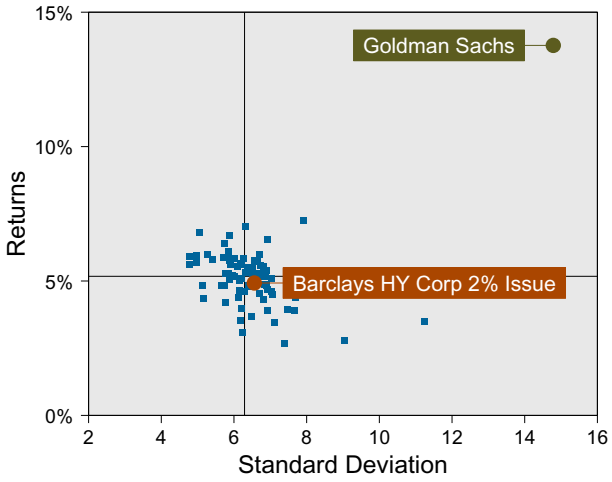


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 9-3/4 Years
10th Percentile	3.51	(0.70)	(0.65)	1.43	3.70	5.98	8.17
25th Percentile	3.06	(2.24)	(1.52)	0.61	2.91	5.76	7.67
Median	2.65	(3.35)	(2.87)	(0.36)	2.37	5.17	7.09
75th Percentile	2.22	(4.48)	(4.22)	(1.41)	1.57	4.63	6.59
90th Percentile	1.49	(6.53)	(6.60)	(2.85)	0.29	3.88	6.07
Goldman Sachs ●	0.06	4.23	10.79	20.07	20.68	13.77	6.80
Barclays HY Corp 2% Issue ▲	3.35	(3.66)	(3.66)	(0.87)	1.86	4.93	7.22

Relative Return vs Barclays HY Corp 2% Issue



CAI High Yield Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



Goldman Sachs Offshore Fund V
Period Ended March 31, 2016

Investment Philosophy

GS Mezzanine Partners seeks large-sized mezzanine investments comprised generally of fixed income securities and an associated equity component. They focus on providing "private high yield" capital for mid- to large-sized leveraged and management buyout transactions, recapitalizations, financings, re-financings, acquisitions and restructurings for private equity firms, private family companies and corporate issuers.

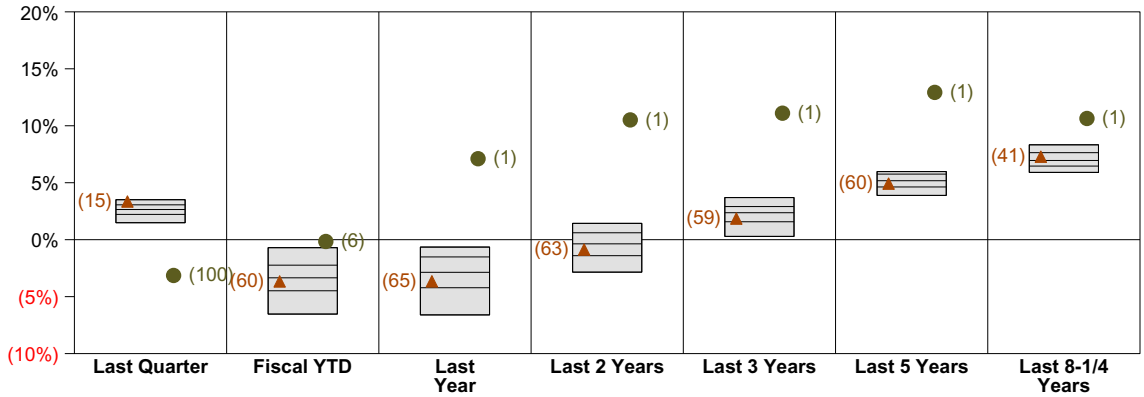
Quarterly Summary and Highlights

- Goldman Sachs Offshore V's portfolio posted a (3.14)% return for the quarter placing it in the 100 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 1 percentile for the last year.
- Goldman Sachs Offshore V's portfolio underperformed the Barclays HY Corp 2% Issue by 6.49% for the quarter and outperformed the Barclays HY Corp 2% Issue for the year by 10.76%.

Quarterly Asset Growth

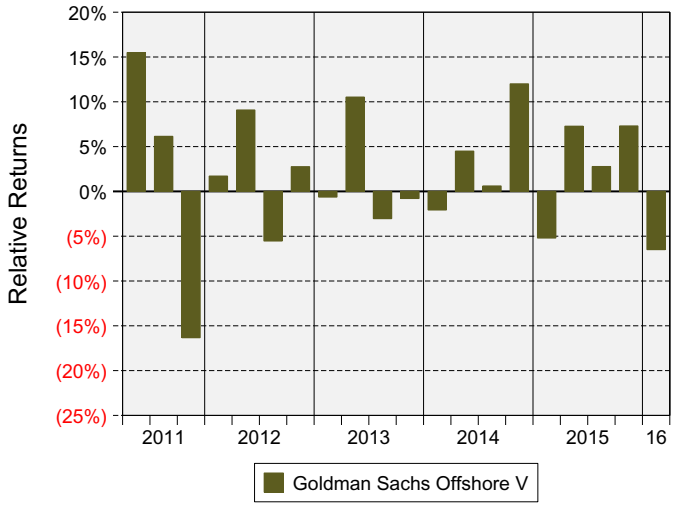
Beginning Market Value	$2,809,504
Net New Investment	$0
Investment Gains/(Losses)	$-88,246
Ending Market Value	$2,721,258

Performance vs CAI High Yield Fixed-Inc Style (Gross)

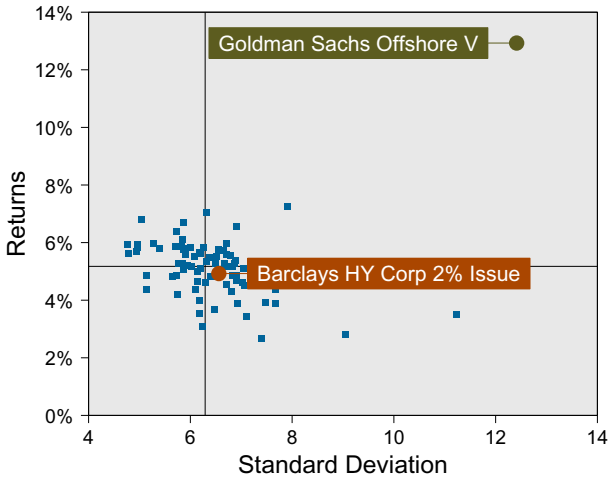


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 8-1/4 Years
10th Percentile	3.51	(0.70)	(0.65)	1.43	3.70	5.98	8.33
25th Percentile	3.06	(2.24)	(1.52)	0.61	2.91	5.76	7.64
Median	2.65	(3.35)	(2.87)	(0.36)	2.37	5.17	6.95
75th Percentile	2.22	(4.48)	(4.22)	(1.41)	1.57	4.63	6.46
90th Percentile	1.49	(6.53)	(6.60)	(2.85)	0.29	3.88	5.91
Goldman Sachs Offshore V ●	(3.14)	(0.16)	7.11	10.51	11.10	12.93	10.64
Barclays HY Corp 2% Issue ▲	3.35	(3.66)	(3.66)	(0.87)	1.86	4.93	7.29

Relative Return vs Barclays HY Corp 2% Issue



CAI High Yield Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



Loomis Sayles
Period Ended March 31, 2016

Investment Philosophy

The High Yield Full Discretion Strategy seeks to identify attractive sectors and specific investment opportunities primarily within the global fixed income market through a global economic and interest rate framework. Portfolio managers incorporate a long-term macroeconomic view along with a stringent bottom-up investment evaluation process that drives security selection and resulting sector allocations. Opportunistic investments in non-benchmark sectors including investment grade corporate, emerging market, and non-US dollar debt and convertible bonds help to manage overall portfolio risk and enhance total return potential.

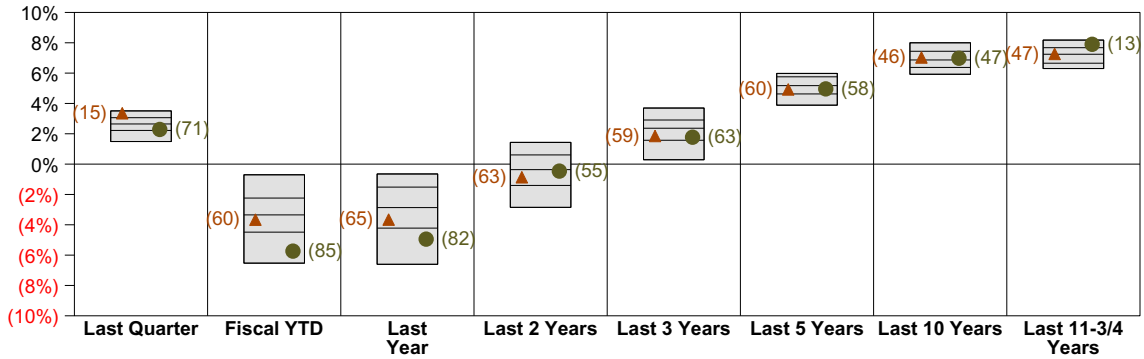
Quarterly Summary and Highlights

- Loomis Sayles's portfolio posted a 2.29% return for the quarter placing it in the 71 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 82 percentile for the last year.
- Loomis Sayles's portfolio underperformed the Barclays HY Corp 2% Issue by 1.07% for the quarter and underperformed the Barclays HY Corp 2% Issue for the year by 1.29%.

Quarterly Asset Growth

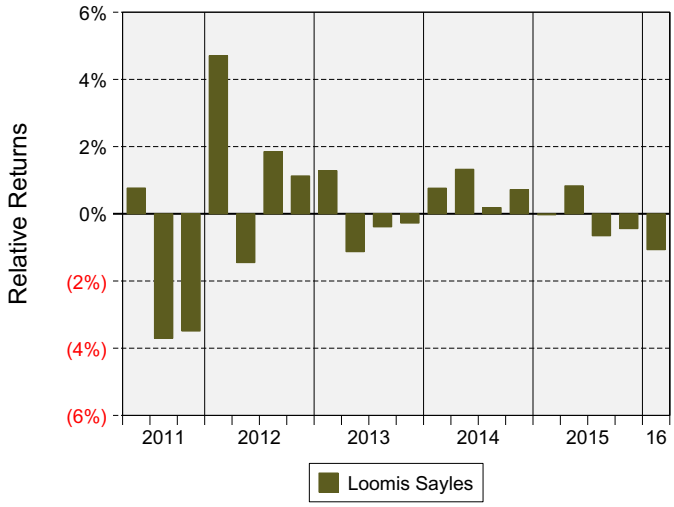
Beginning Market Value	$191,038,407
Net New Investment	$-238,798
Investment Gains/(Losses)	$4,354,949
Ending Market Value	$195,154,558

Performance vs CAI High Yield Fixed-Inc Style (Gross)

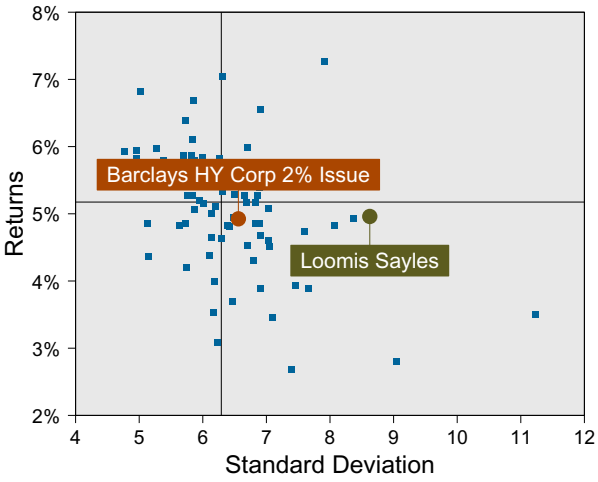


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 11-3/4 Years
10th Percentile	3.51	(0.70)	(0.65)	1.43	3.70	5.98	8.00	8.18
25th Percentile	3.06	(2.24)	(1.52)	0.61	2.91	5.76	7.44	7.68
Median	2.65	(3.35)	(2.87)	(0.36)	2.37	5.17	6.87	7.24
75th Percentile	2.22	(4.48)	(4.22)	(1.41)	1.57	4.63	6.38	6.65
90th Percentile	1.49	(6.53)	(6.60)	(2.85)	0.29	3.88	5.92	6.30
Loomis Sayles ●	2.29	(5.74)	(4.95)	(0.46)	1.77	4.96	6.98	7.90
Barclays HY Corp 2% Issue ▲	3.35	(3.66)	(3.66)	(0.87)	1.86	4.93	7.03	7.27

Relative Return vs Barclays HY Corp 2% Issue



CAI High Yield Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



PIMCO Bravo II Fund
Period Ended March 31, 2016

Investment Philosophy

The BRAVO II Fund is a private equity style fund targeting an annualized IRR of 15-20% and multiple of 1.8-2x, net of fees and carried interest with an initial 5-year term. The fund will seek to capitalize on non-economic asset sale decisions by global financial institutions. The fund will have the flexibility to acquire attractively discounted, less liquid loans, structured credit and other assets tied to residential or commercial real estate markets in the U.S. and Europe.

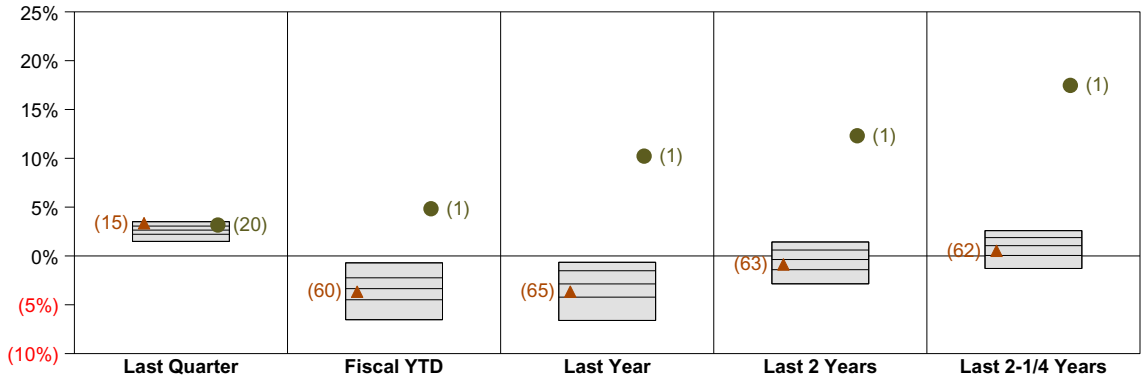
Quarterly Summary and Highlights

- PIMCO Bravo II Fund's portfolio posted a 3.17% return for the quarter placing it in the 20 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 1 percentile for the last year.
- PIMCO Bravo II Fund's portfolio underperformed the Barclays HY Corp 2% Issue by 0.19% for the quarter and outperformed the Barclays HY Corp 2% Issue for the year by 13.88%.

Quarterly Asset Growth

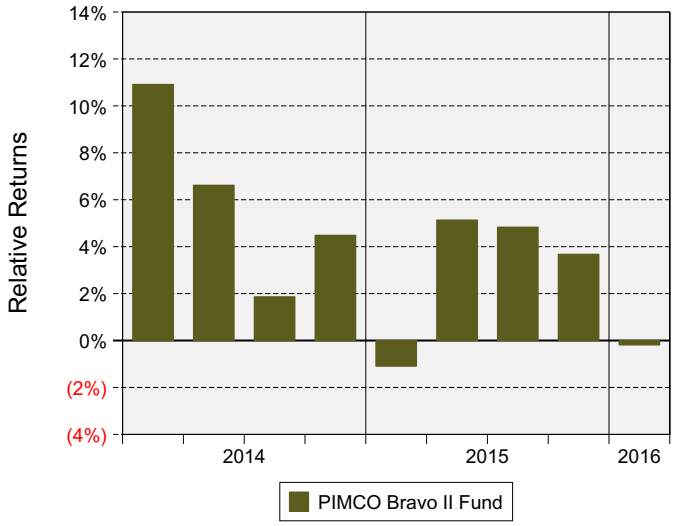
Beginning Market Value	$44,707,361
Net New Investment	$0
Investment Gains/(Losses)	$1,415,242
Ending Market Value	$46,122,603

Performance vs CAI High Yield Fixed-Inc Style (Gross)

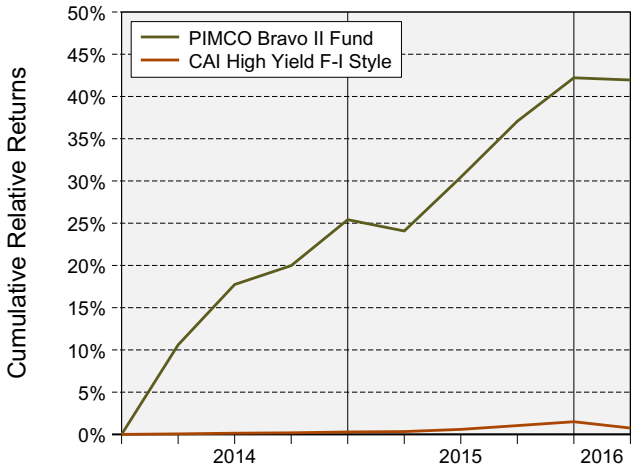


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 2-1/4 Years
10th Percentile	3.51	(0.70)	(0.65)	1.43	2.59
25th Percentile	3.06	(2.24)	(1.52)	0.61	1.88
Median	2.65	(3.35)	(2.87)	(0.36)	1.05
75th Percentile	2.22	(4.48)	(4.22)	(1.41)	0.05
90th Percentile	1.49	(6.53)	(6.60)	(2.85)	(1.28)
PIMCO Bravo II Fund ●	3.17	4.84	10.22	12.31	17.47
Barclays HY Corp 2% Issue ▲	3.35	(3.66)	(3.66)	(0.87)	0.53

Relative Return vs Barclays HY Corp 2% Issue



Cumulative Returns vs Barclays HY Corp 2% Issue



Brandywine Asset Management
Period Ended March 31, 2016

Investment Philosophy

Brandywine engages in a disciplined, active, value-driven, strategic approach. Their investment strategy concentrates on top-down analysis of macro-economic conditions in order to determine where the most attractive valuations exist. Specifically, they invest in bonds with the highest real yields globally. They manage currency to protect principal and increase returns, patiently rotated among countries and attempt to control risk by purchasing undervalued securities.

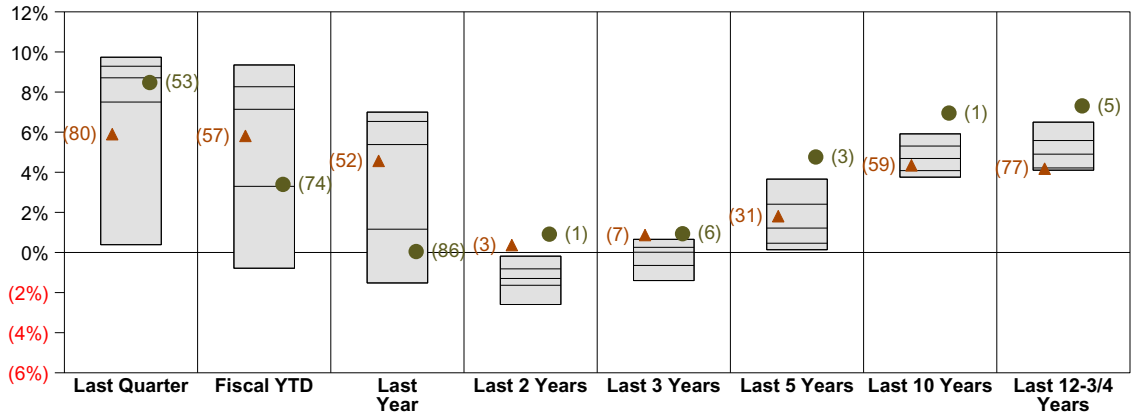
Quarterly Summary and Highlights

- Brandywine's portfolio posted a 8.48% return for the quarter placing it in the 53 percentile of the CAI Non-U.S. Fixed-Inc Style group for the quarter and in the 86 percentile for the last year.
- Brandywine's portfolio outperformed the Barclays Global Aggregate Index by 2.58% for the quarter and underperformed the Barclays Global Aggregate Index for the year by 4.52%.

Quarterly Asset Growth

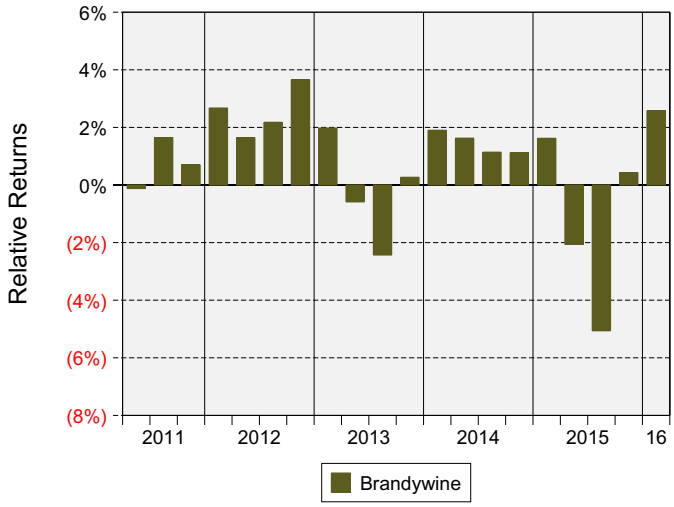
Beginning Market Value	$121,778,769
Net New Investment	$-117,381
Investment Gains/(Losses)	$10,312,059
Ending Market Value	$131,973,448

Performance vs CAI Non-U.S. Fixed-Inc Style (Gross)

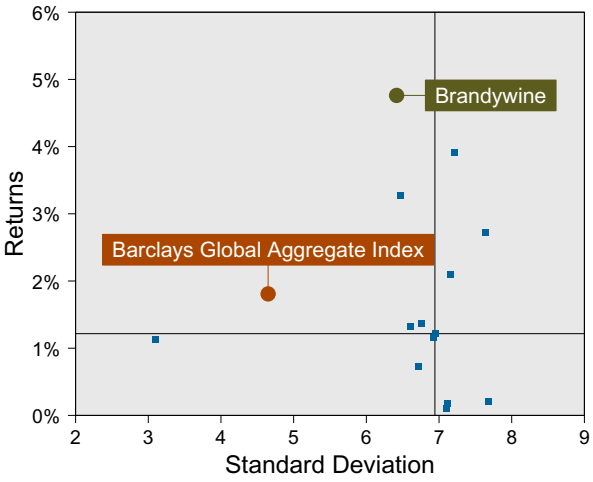


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 12-3/4 Years
10th Percentile	9.74	9.35	7.00	(0.18)	0.66	3.66	5.92	6.50
25th Percentile	9.29	8.26	6.53	(0.82)	0.26	2.41	5.31	5.58
Median	8.71	7.14	5.38	(1.30)	0.01	1.22	4.69	4.90
75th Percentile	7.50	3.30	1.16	(1.64)	(0.65)	0.46	4.08	4.22
90th Percentile	0.39	(0.79)	(1.52)	(2.59)	(1.40)	0.14	3.76	4.10
Brandywine ●	8.48	3.40	0.05	0.91	0.93	4.76	6.95	7.31
Barclays Global Aggregate Index ▲	5.90	5.81	4.57	0.37	0.87	1.81	4.35	4.18

Relative Returns vs Barclays Global Aggregate Index



CAI Non-U.S. Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



UBS Global Asset Management
Period Ended March 31, 2016

Investment Philosophy

UBS Global Asset Management's non-US fixed income portfolio's assets are invested in emerging markets debt on an opportunistic basis up to the stated maximum allocation of 5%. The account's non-US fixed income assets will be fully-invested at all times, but such assets may be invested in the UBS US Cash Management Prime Collective Fund for operational and risk management purposes. ***Citigroup Non-US Govt Index through 12/31/2009 and the Barclays Global Aggregate ex-US Index thereafter.**

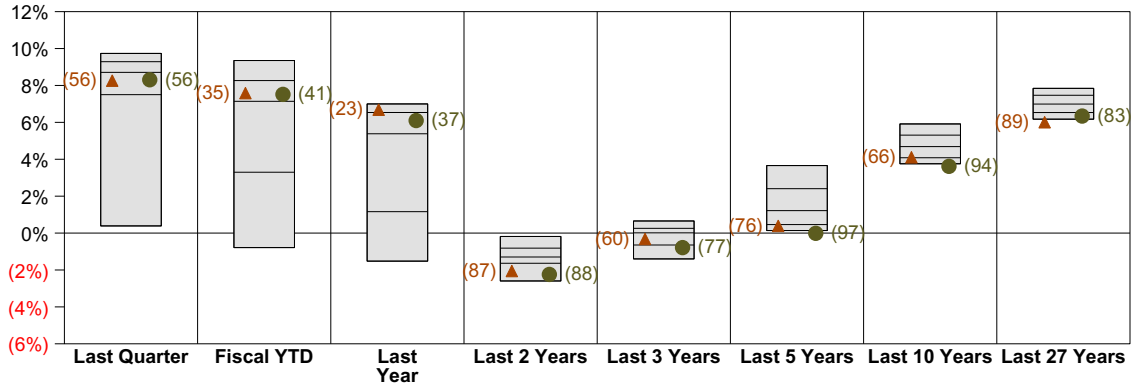
Quarterly Summary and Highlights

- UBS Global Asset Management's portfolio posted a 8.31% return for the quarter placing it in the 56 percentile of the CAI Non-U.S. Fixed-Inc Style group for the quarter and in the 37 percentile for the last year.
- UBS Global Asset Management's portfolio outperformed the Blended Benchmark* by 0.05% for the quarter and underperformed the Blended Benchmark* for the year by 0.59%.

Quarterly Asset Growth

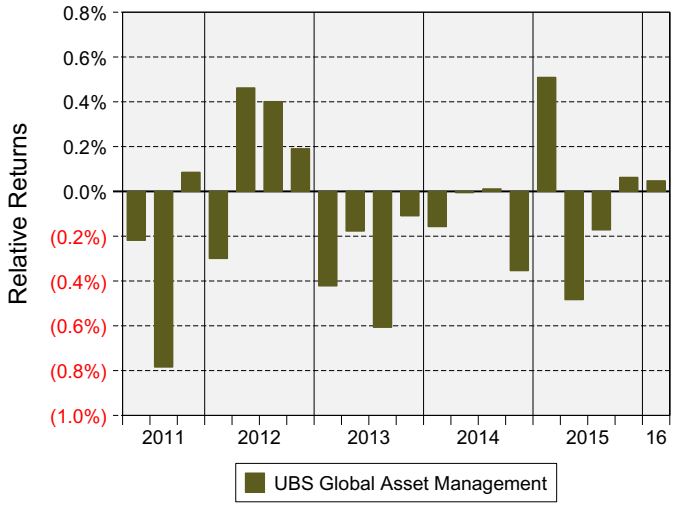
Beginning Market Value	$98,474,167
Net New Investment	$-82,252
Investment Gains/(Losses)	$8,174,736
Ending Market Value	$106,566,651

Performance vs CAI Non-U.S. Fixed-Inc Style (Gross)

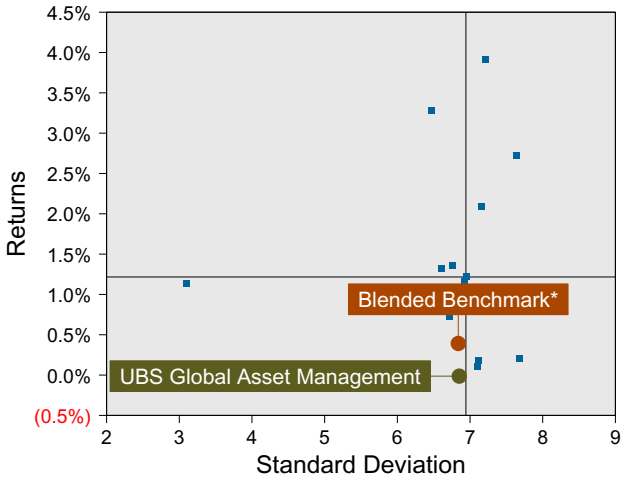


	Last Quarter	Fiscal YTD	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 10 Years	Last 27 Years
10th Percentile	9.74	9.35	7.00	(0.18)	0.66	3.66	5.92	7.84
25th Percentile	9.29	8.26	6.53	(0.82)	0.26	2.41	5.31	7.47
Median	8.71	7.14	5.38	(1.30)	0.01	1.22	4.69	6.99
75th Percentile	7.50	3.30	1.16	(1.64)	(0.65)	0.46	4.08	6.53
90th Percentile	0.39	(0.79)	(1.52)	(2.59)	(1.40)	0.14	3.76	6.17
UBS Global Asset Management ●	8.31	7.52	6.10	(2.24)	(0.79)	(0.01)	3.62	6.34
Blended Benchmark* ▲	8.26	7.58	6.69	(2.06)	(0.32)	0.39	4.11	6.01

Relative Return vs Blended Benchmark*



CAI Non-U.S. Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return

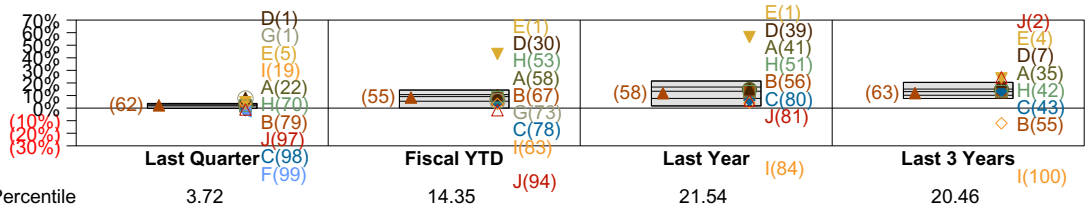


Real Estate

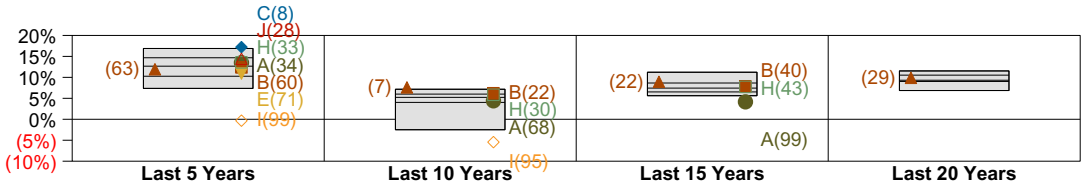
North Dakota State Investment Board Pension Funds
Performance vs Total Real Estate DB
Periods Ended March 31, 2016

Return Ranking

The chart below illustrates fund rankings over various periods versus the Total Real Estate DB. The bars represent the range of returns from the 10th percentile to the 90th percentile for each period for all funds in the Total Real Estate DB. The numbers to the right of the bar represent the percentile rankings of the funds being analyzed. The table below the chart details the rates of return plotted in the graph above.



		Last Quarter	Fiscal YTD	Last Year	Last 3 Years
10th Percentile		3.72	14.35	21.54	20.46
25th Percentile		3.18	10.74	16.75	15.15
Median		2.42	9.15	13.40	13.11
75th Percentile		1.74	5.47	7.69	10.23
90th Percentile		(0.11)	0.03	1.75	7.64
Total Real Estate	● A	3.23	8.16	14.77	14.69
Invesco Core Real Estate	■ B	1.38	6.82	12.33	12.70
Invesco Fund II	◆ C	(1.63)	4.75	6.45	13.46
Invesco Fund III	▲ D	8.19	10.47	15.18	20.82
Invesco Asia RE Feeder	▼ E	4.68	43.00	56.44	23.54
Invesco Asia RE Fund III	◀ F	(2.51)	-	-	-
Invesco Value Added Fd IV	○ G	7.63	5.57	-	-
JP Morgan Investment	□ H	1.93	8.72	13.35	13.47
JP Morgan Alternative Fd	◇ I	3.36	3.36	4.15	(12.06)
JP Morgan Greater China Fund	△ J	(1.09)	(1.66)	5.99	24.44
NCREIF Total Index	▲	2.21	8.44	11.84	11.91



		Last 5 Years	Last 10 Years	Last 15 Years	Last 20 Years
10th Percentile		16.89	7.16	11.22	11.53
25th Percentile		14.67	6.00	8.65	10.53
Median		12.66	5.23	7.44	9.31
75th Percentile		10.27	4.03	6.53	9.02
90th Percentile		7.36	(2.50)	5.62	6.86
Total Real Estate	● A	13.50	4.40	4.16	-
Invesco Core Real Estate	■ B	12.36	6.21	7.82	-
Invesco Fund II	◆ C	17.22	-	-	-
Invesco Fund III	▲ D	-	-	-	-
Invesco Asia RE Feeder	▼ E	10.89	-	-	-
Invesco Asia RE Fund III	◀ F	-	-	-	-
Invesco Value Added Fd IV	○ G	-	-	-	-
JP Morgan Investment	□ H	13.58	5.85	7.72	-
JP Morgan Alternative Fd	◇ I	(0.33)	(5.45)	-	-
JP Morgan Greater China Fund	△ J	14.44	-	-	-
NCREIF Total Index	▲	11.93	7.61	8.95	9.89

Timber

TIR Teredo
Period Ended March 31, 2016

Investment Philosophy

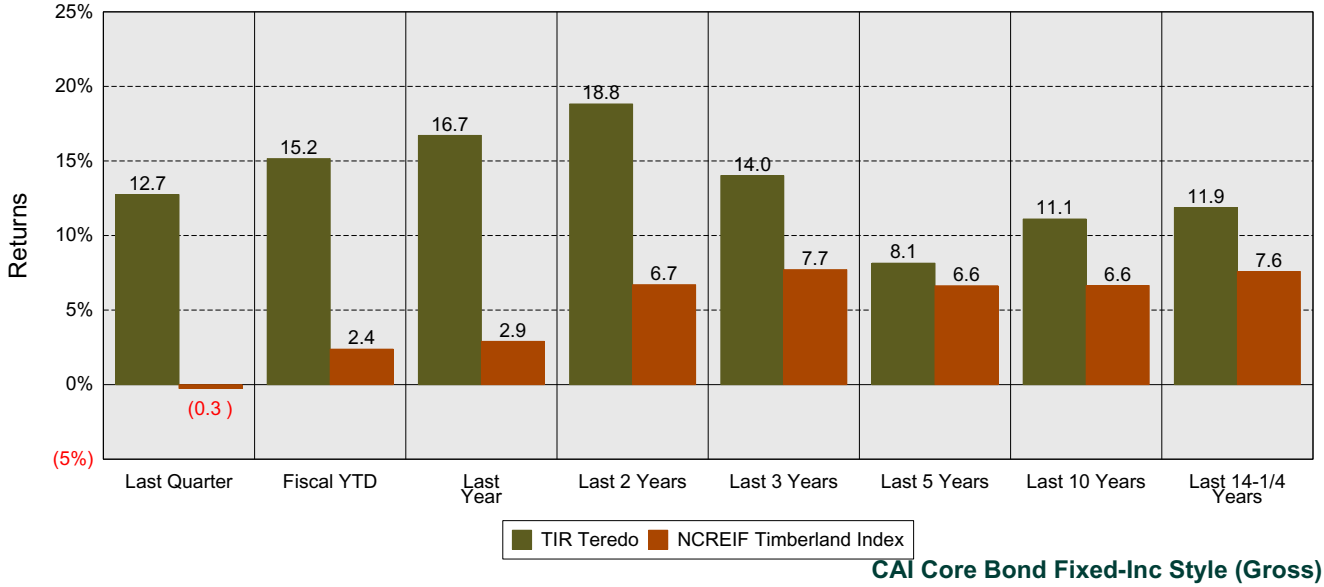
Teredo Timber LLC - The investment objective of Teredo is to provide competitive investment returns from increasing saw timber production through the 20 year term of the partnership. TIR's management strategy is to maximize saw timber volume by applying intensive forest management techniques which accelerate growth through the diameter class distribution. Periodic cash flows are produced from thinning and final harvests of the individual timber stands.

Quarterly Summary and Highlights

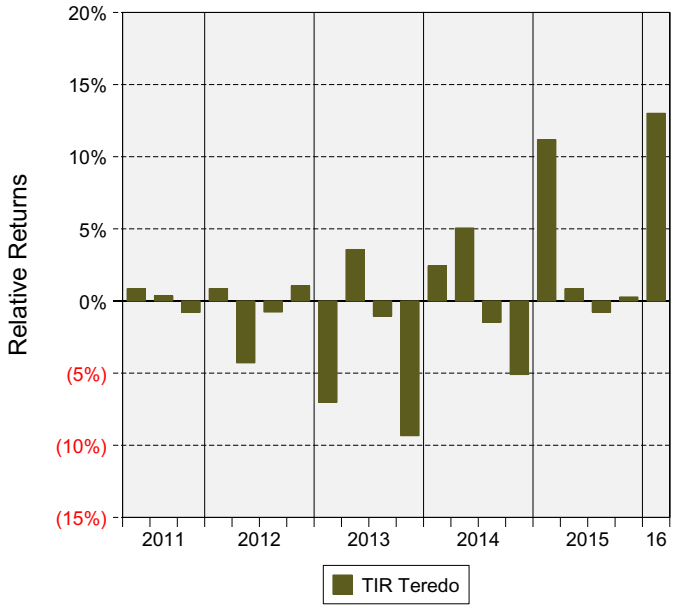
- TIR Teredo's portfolio posted a 12.75% return for the quarter placing it in the 1 percentile of the CAI Core Bond Fixed-Inc Style group for the quarter and in the 1 percentile for the last year.
- TIR Teredo's portfolio outperformed the NCREIF Timberland Index by 13.01% for the quarter and outperformed the NCREIF Timberland Index for the year by 13.81%.

Quarterly Asset Growth

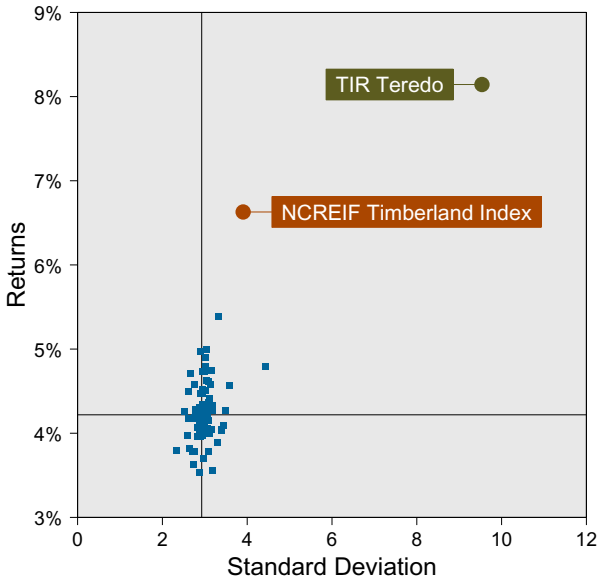
Beginning Market Value	$32,584,238
Net New Investment	$-1,000,000
Investment Gains/(Losses)	$4,052,126
Ending Market Value	$35,636,364



Relative Return vs NCREIF Timberland Index



CAI Core Bond Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



TIR Springbank
Period Ended March 31, 2016

Investment Philosophy

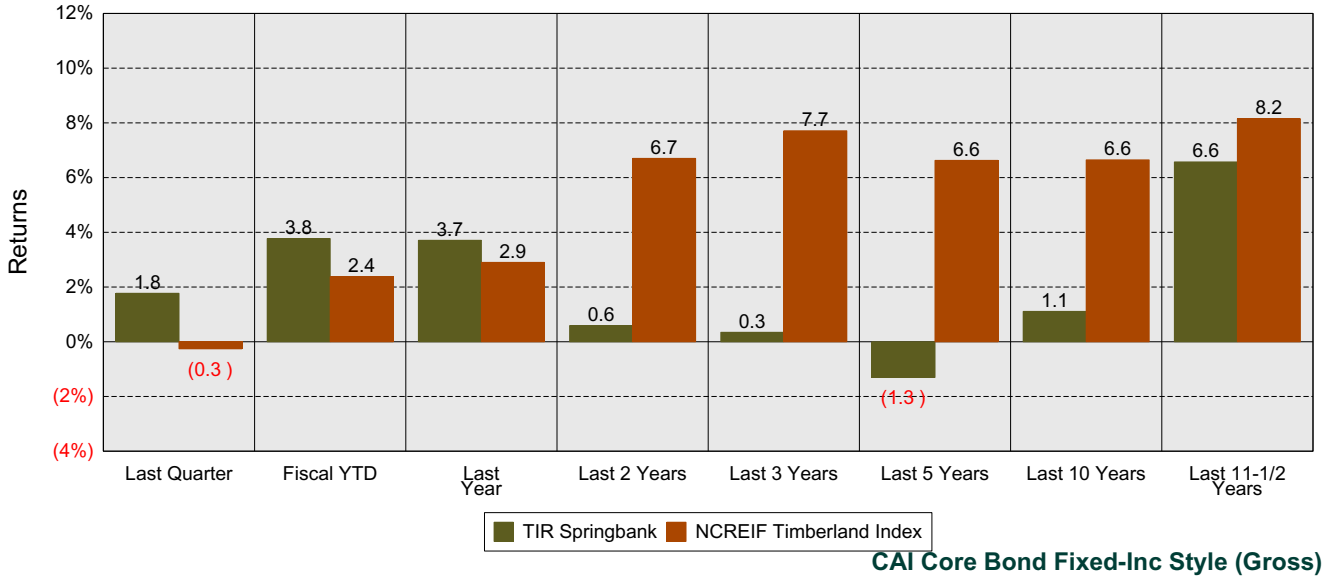
Springbank LLC - The investment objective of Springbank is to maximize long-term investment potential by means of the formation of a dedicated land management group, intensive timber management to increase timber production, the coordination of timber harvesting with land management activities and direct marketing and selective real estate partnerships.

Quarterly Summary and Highlights

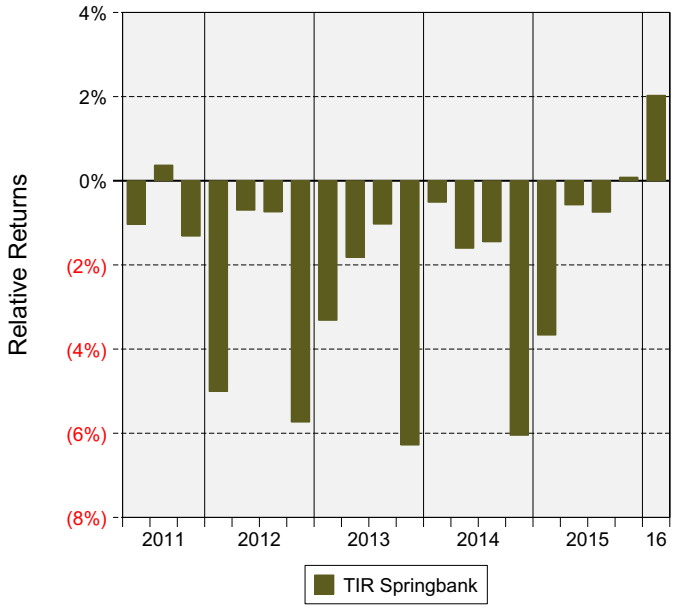
- TIR Springbank's portfolio posted a 1.77% return for the quarter placing it in the 98 percentile of the CAI Core Bond Fixed-Inc Style group for the quarter and in the 1 percentile for the last year.
- TIR Springbank's portfolio outperformed the NCREIF Timberland Index by 2.03% for the quarter and outperformed the NCREIF Timberland Index for the year by 0.81%.

Quarterly Asset Growth

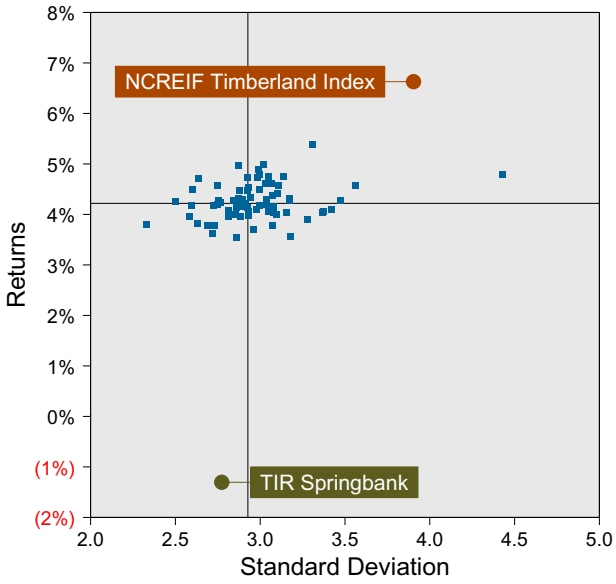
Beginning Market Value	$118,365,222
Net New Investment	$0
Investment Gains/(Losses)	$2,096,122
Ending Market Value	$120,461,344



Relative Return vs NCREIF Timberland Index



CAI Core Bond Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



Infrastructure

JP Morgan Asian Infrastructure
Period Ended March 31, 2016

Investment Philosophy

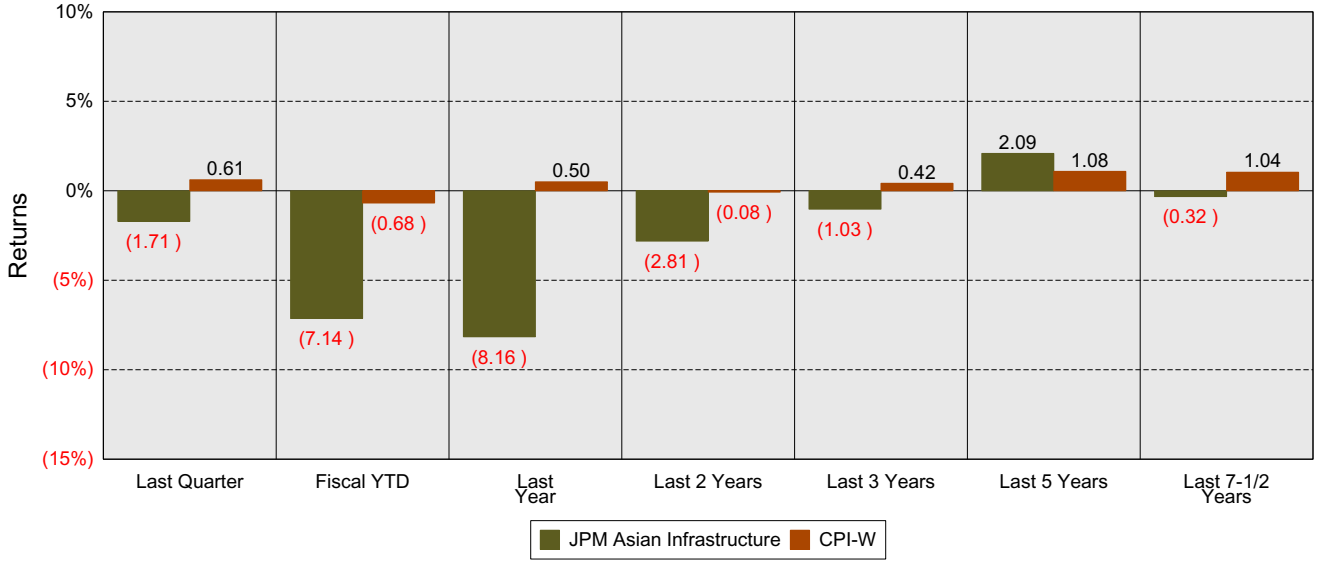
The JPMorgan Asian Infrastructure & Related Resources Opportunity ("AIRRO") Fund seeks to invest in infrastructure and related resources opportunities across the greater Asia Pacific region. The Fund seeks to invest in a broad range of assets, including: core infrastructure, power both from conventional and renewable sources, communications, water and waste-water, public works, urban development and other "social" infrastructure assets and related resources.

Quarterly Summary and Highlights

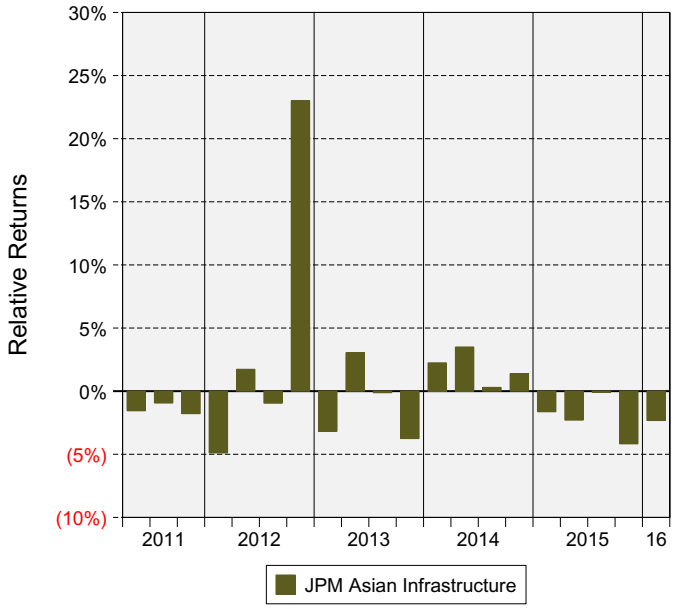
- JPM Asian Infrastructure's portfolio underperformed the CPI-W by 2.32% for the quarter and underperformed the CPI-W for the year by 8.66%.

Quarterly Asset Growth

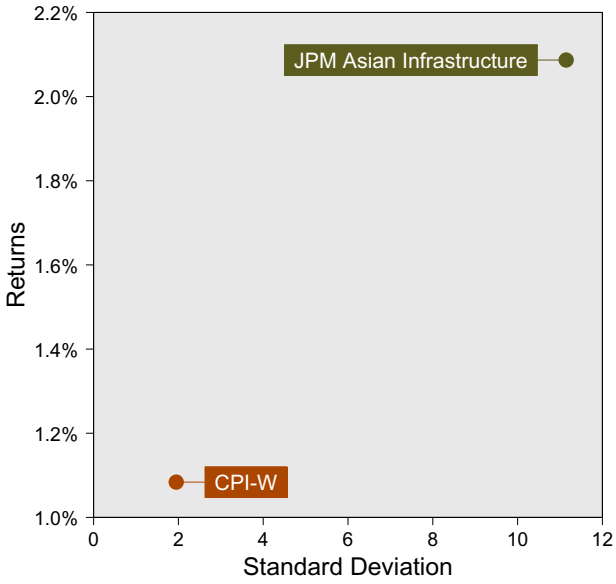
Beginning Market Value	$29,053,590
Net New Investment	$112,597
Investment Gains/(Losses)	$-497,423
Ending Market Value	$28,668,764



Relative Return vs CPI-W



Annualized Five Year Risk vs Return



JPM Infrastructure Fund
Period Ended March 31, 2016

Investment Philosophy

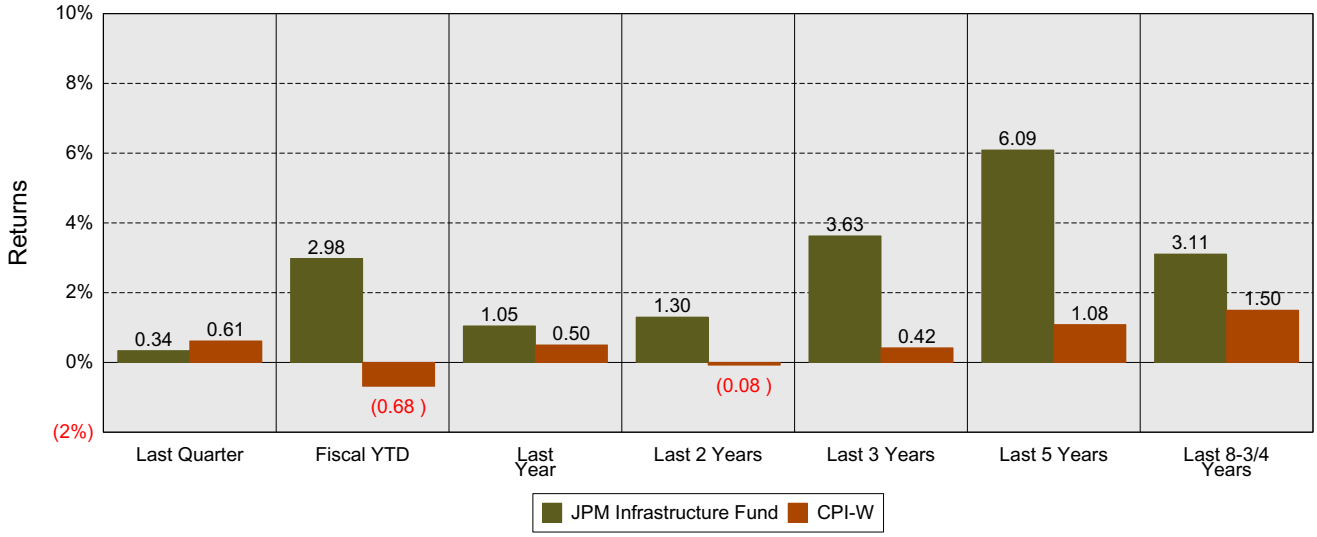
The only open-ended private commingled infrastructure fund in the U.S, the JPMorgan Infrastructure Investments Fund invests in stabilized assets in OECD countries with selected value-added opportunities, across infrastructure industry sub-sectors, including: toll roads, bridges and tunnels; oil and gas pipelines; electricity transmission and distribution facilities; contracted power generation assets; water distribution; waste-water collection and processing; railway lines and rapid rail links; and seaports and airports.

Quarterly Summary and Highlights

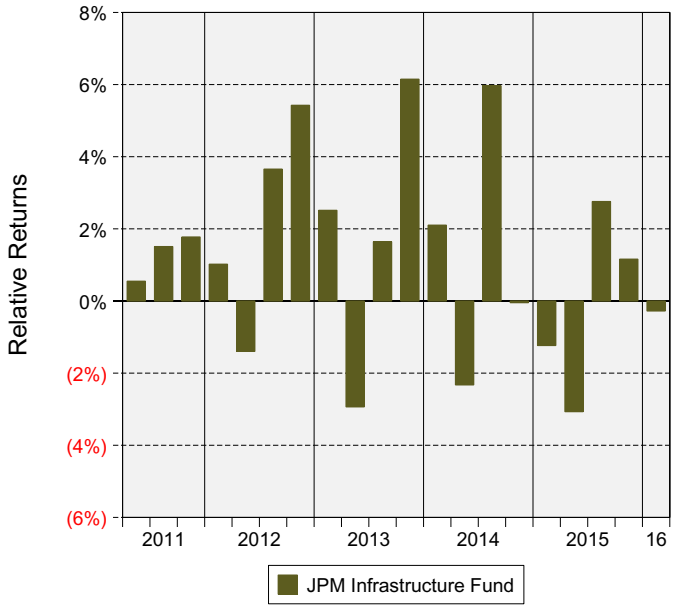
- JPM Infrastructure Fund's portfolio underperformed the CPI-W by 0.28% for the quarter and outperformed the CPI-W for the year by 0.55%.

Quarterly Asset Growth

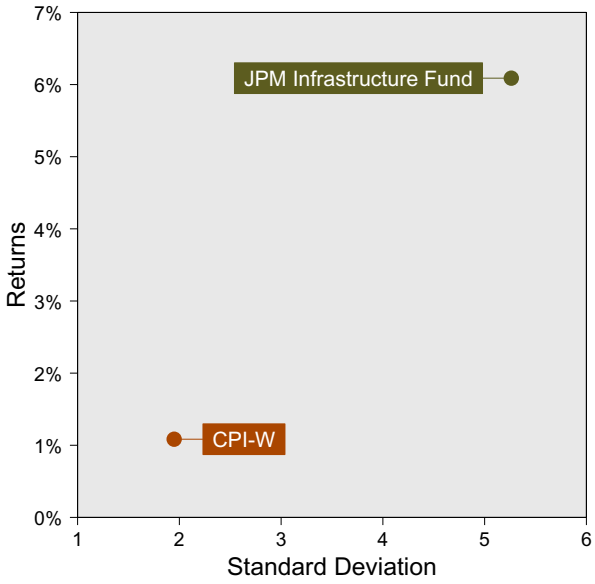
Beginning Market Value	$139,963,800
Net New Investment	$-377,199
Investment Gains/(Losses)	$472,758
Ending Market Value	$140,059,358



Relative Return vs CPI-W



Annualized Five Year Risk vs Return



Grosvenor Cust. Infrastructure
Period Ended March 31, 2016

Investment Philosophy

The Customized Infrastructure Strategies LP is a commingled fund focused on providing a comprehensive, diversified solution for investors looking to access the infrastructure asset class. The Fund seeks to generate stable, long-term yield and attractive risk-adjusted returns by investing in a diversified portfolio of primary core and core plus infrastructure funds (30%), co-investments (40%) and opportunistic secondary fund purchases (30%).

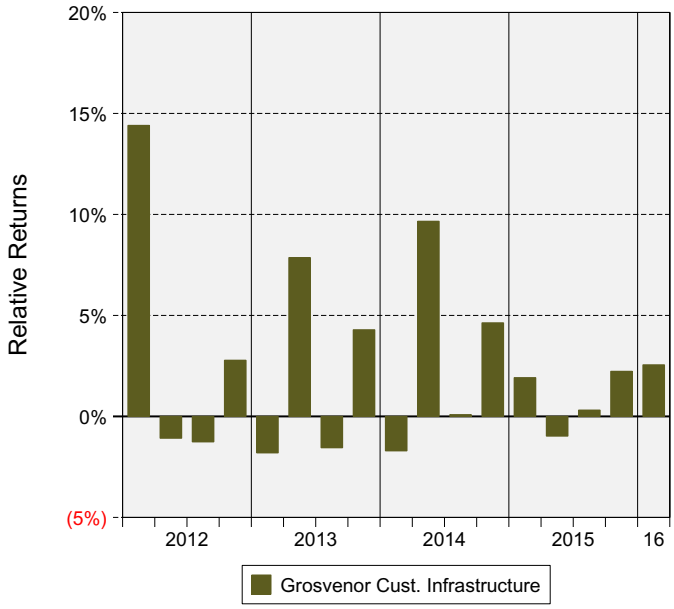
Quarterly Summary and Highlights

- Grosvenor Cust. Infrastructure's portfolio outperformed the CPI-W by 2.55% for the quarter and outperformed the CPI-W for the year by 4.18%.

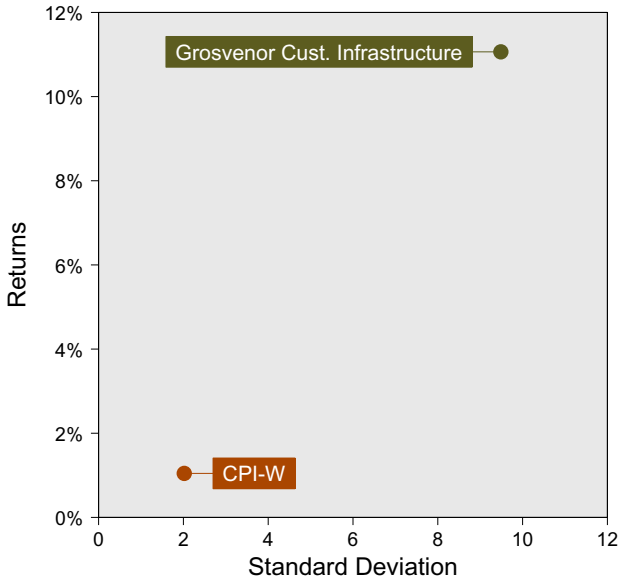
Quarterly Asset Growth

Beginning Market Value	$38,815,319
Net New Investment	$424,201
Investment Gains/(Losses)	$1,242,372
Ending Market Value	$40,481,892

Relative Return vs CPI-W



Annualized Four and One-Quarter Year Risk vs Return



Grosvenor Cust. Infrastructure II
Period Ended March 31, 2016

Investment Philosophy

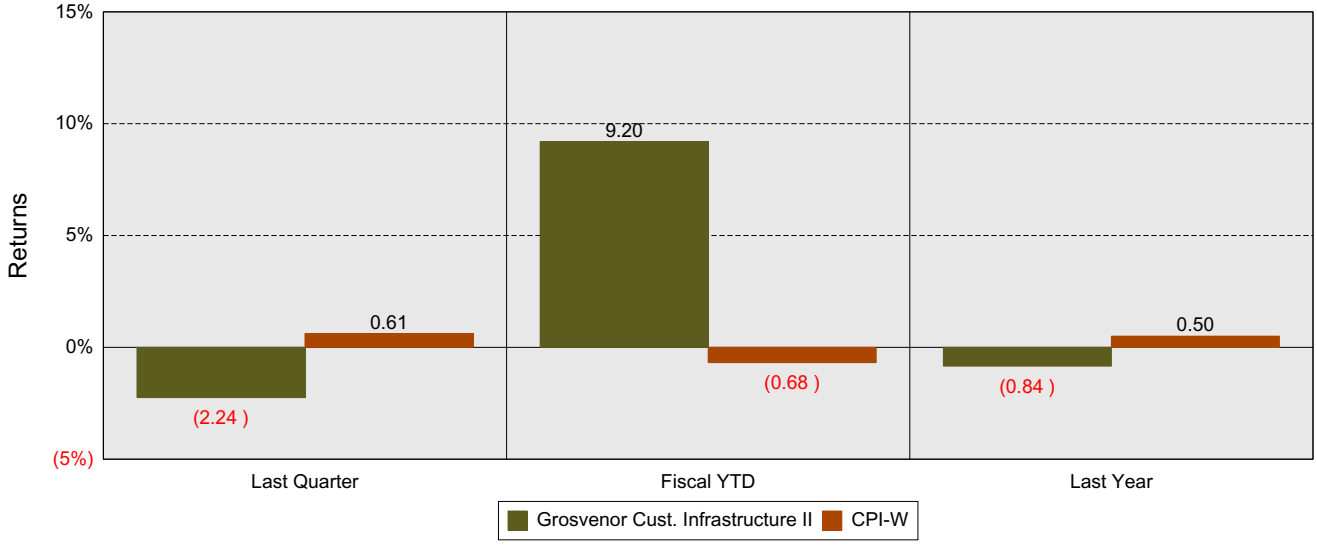
The Customized Infrastructure Strategies LP is a commingled fund focused on providing a comprehensive, diversified solution for investors looking to access the infrastructure asset class. The Fund seeks to generate stable, long-term yield and attractive risk-adjusted returns by investing in a diversified portfolio of primary core and core plus infrastructure funds (30%), co-investments (40%) and opportunistic secondary fund purchases (30%).

Quarterly Summary and Highlights

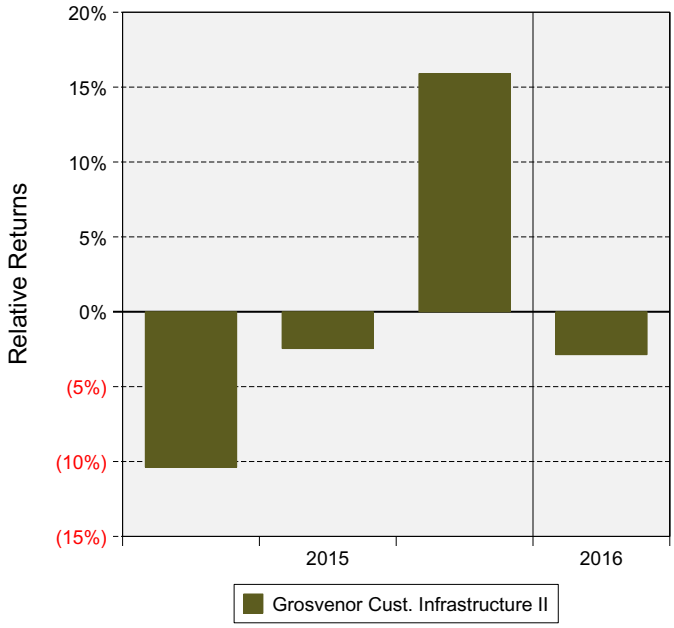
- Grosvenor Cust. Infrastructure II's portfolio underperformed the CPI-W by 2.86% for the quarter and underperformed the CPI-W for the year by 1.34%.

Quarterly Asset Growth

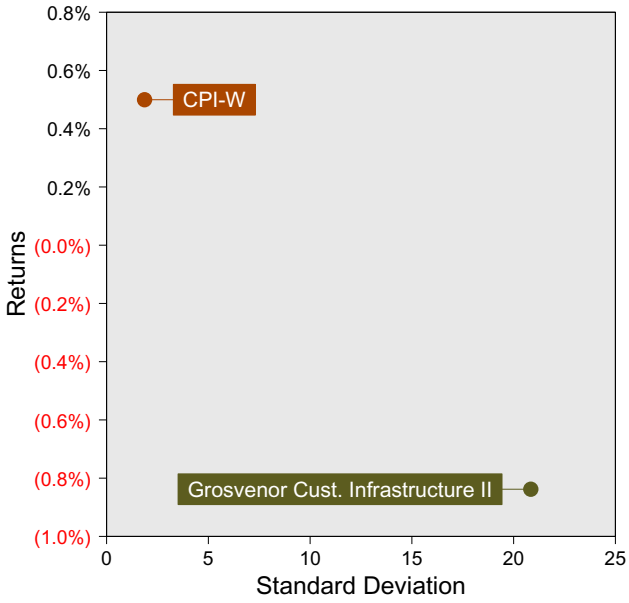
Beginning Market Value	$7,905,756
Net New Investment	$-1,935,981
Investment Gains/(Losses)	$-157,690
Ending Market Value	$5,812,085



Relative Return vs CPI-W



One Year Risk vs Return



Callan Research/Education

Callan

CALLAN
INVESTMENTS
INSTITUTE

1st Quarter 2016

Education

Research and Educational Programs

The Callan Investments Institute provides research that updates clients on the latest industry trends while helping them learn through carefully structured educational programs. Visit www.callan.com/research to see all of our publications, or for more information contact Anna West at 415.974.5060 / institute@callan.com.

Recent Research

2016 DC Survey & Key Findings Callan's 2016 DC Trends Survey highlights plan sponsors' key themes from 2015 and expectations for 2016; the Key Findings summarize the Survey.

Periodic Table & Periodic Table Collection Depicts annual investment returns for 10 major asset classes, ranked from best to worst. The Collection includes 10 additional variations.

Spotlight: Six Key Themes Callan reflects on some of the ongoing trends within institutional investing and considers how they may develop in the coming year.

Inside Callan's Database, 4th Quarter 2015 This report graphs performance and risk data from Callan's proprietary database alongside relevant market indices.

Capital Market Review, 4th Quarter 2015 Insights on the economy and recent performance in equities, fixed income, alternatives, real estate, and more.

Market Pulse Flipbook, 4th Quarter 2015 A quarterly reference guide covering investment and fund sponsor trends in the U.S. economy, the capital markets, and defined contribution.

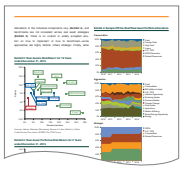
October Regional Workshop Summary We reviewed real assets and the implementation implications of building out a robust real assets allocation in portfolios.

Capital Market Projections This charticle summarizes key figures from Callan's 2016 capital market projections.

Global Equity Benchmark Review This annual report examines FTSE, MSCI, Russell, and S&P indices alongside Callan Active Manager Style Groups.

Hedge Fund Monitor, 4th Quarter 2015 Our cover story, "David versus Goliath: Sizing Up the Odds," compares the respective advantages and challenges of smaller and larger hedge funds.

The Renaissance of Stable Value In this paper, we seek to answer questions about stable value funds, and how they have evolved since the financial crisis.



Real Assets Reporter, Winter/Spring 2016 In this issue, we look at implementing diversified real asset portfolios, focusing on a process that helps evaluate financial and operational risks.

U.S. Equity Benchmark Review This annual report compares CRSP, Russell, and S&P index metrics alongside Callan Active Manager Style Groups.

DC Observer, 4th Quarter 2015 Cover story: In-Plan Annuities: The Stuff That Dreams Are Made Of?

The Costs of Closing: Nuclear Decommissioning Trusts In this video, Julia Moriarty discusses hedging costs, the impact of license extension, and more.

Private Markets Trends, Winter 2016 Gary Robertson summarizes the market environment, recent events, performance, and other issues involving private equity.

Events

Miss out on a Callan conference or workshop? Event summaries and speakers' presentations are available on our website: https://www.callan.com/education/CII/

Our next **Regional Workshop,** June 28 in Atlanta and June 29 in San Francisco, will consist of two separate one-hour presentations given by our specialists. This year, we look at the impact the Pension Protection Act has had on defined benefit and defined contribution retirement plans a decade after its enactment, and look ahead to the next 10 years.

Save the date for our fall **Regional Workshop**, October 25 in New York and October 26 in Chicago, and our **National Conference**, January 23–25, 2017, at the Palace Hotel in San Francisco.

For more information about events, please contact Barb Gerraty: 415.974.5060 / institute@callan.com

The Center for Investment Training Educational Sessions

The Center for Investment Training, better known as the "Callan College," provides a foundation of knowledge for industry professionals who are involved in the investment decision-making process. It was founded in 1994 to provide clients and non-clients alike with basic- to intermediate-level instruction. Our next session is:

Introduction to Investments

San Francisco, CA, July 19–20, 2016
Chicago, IL, October 18–19, 2016

This session familiarizes fund sponsor trustees, staff, and asset management advisors with basic investment theory, terminology, and practices. It lasts one-and-a-half days and is designed for individuals who have less than two years of experience with asset-management oversight and/or support responsibilities. Tuition for the Introductory "Callan College" session is $2,350 per person. Tuition includes instruction, all materials, breakfast and lunch on each day, and dinner on the first evening with the instructors.

Customized Sessions

The "Callan College" is equipped to customize a curriculum to meet the training and educational needs of a specific organization. These tailored sessions range from basic to advanced and can take place anywhere—even at your office.

Learn more at https://www.callan.com/education/college/ or contact Kathleen Cunnie: 415.274.3029 / cunnie@callan.com

Education: By the Numbers

500	Attendees (on average) of the Institute's annual National Conference	**50+**	Unique pieces of research the Institute generates each year
3,300	Total attendees of the "Callan College" since 1994	**1980**	Year the Callan Investments Institute was founded

"We think the best way to learn something is to teach it. Entrusting client education to our consultants and specialists ensures that they have a total command of their subject matter. This is one reason why education and research have been cornerstones of our firm for more than 40 years."

Ron Peyton, Chairman and CEO

Callan

Quarterly List as of March 31, 2016

List of Callan's Investment Manager Clients

Confidential – For Callan Client Use Only

Callan takes its fiduciary and disclosure responsibilities to clients very seriously. We recognize that there are numerous potential conflicts of interest encountered in the investment consulting industry and that it is our responsibility to manage those conflicts effectively and in the best interest of our clients. At Callan, we employ a robust process to identify, manage, monitor and disclose potential conflicts on an on-going basis.

The list below is an important component of our conflicts management and disclosure process. It identifies those investment managers that pay Callan fees for educational, consulting, software, database or reporting products and services. We update the list quarterly because we believe that our fund sponsor clients should know the investment managers that do business with Callan, particularly those investment manager clients that the fund sponsor clients may be using or considering using. Please refer to Callan's ADV Part 2A for a more detailed description of the services and products that Callan makes available to investment manager clients through our Institutional Consulting Group, Independent Adviser Group and Fund Sponsor Consulting Group. Due to the complex corporate and organizational ownership structures of many investment management firms, parent and affiliate firm relationships are not indicated on our list.

Fund sponsor clients may request a copy of the most currently available list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by particular fund manager clients. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance Department.

Manager Name
13D Management
1607 Capital Partners, LLC
Aberdeen Asset Management PLC
Acadian Asset Management LLC
AEGON USA Investment Management
Affiliated Managers Group, Inc.
AllianceBernstein
Allianz Global Investors
Allianz Life Insurance Company of North America
AlphaOne Investment Services
American Century Investment Management
Amundi Smith Breeden LLC
Analytic Investors
Angelo, Gordon & Co.
Apollo Global Management
AQR Capital Management
Ares Management LLC
Ariel Investments, LLC
Aristotle Capital Management, LLC
Artisan Holdings
Atlanta Capital Management Co., LLC
Aviva Investors Americas
AXA Investment Managers
Babson Capital Management
Baillie Gifford Overseas Limited
Baird Advisors
Bank of America
Baring Asset Management
Baron Capital Management, Inc.
Barrow, Hanley, Mewhinney & Strauss, LLC
BlackRock
BMO Asset Management, Corp.
BNP Paribas Investment Partners
BNY Mellon Asset Management
Boston Partners
Brandes Investment Partners, L.P.
Brandywine Global Investment Management, LLC

Manager Name
Brown Brothers Harriman & Company
Cambiar Investors, LLC
Capital Group
CastleArk Management, LLC
Causeway Capital Management
Charles Schwab Investment Management
Chartwell Investment Partners
ClearBridge Investments, LLC
Cohen & Steers Capital Management, Inc.
Columbia Management Investment Advisers, LLC
Columbus Circle Investors
Corbin Capital Partners, L.P.
Cornerstone Capital Management
Cramer Rosenthal McGlynn, LLC
Crawford Investment Counsel, Inc.
Credit Suisse Asset Management
Crestline Investors, Inc.
DE Shaw Investment Management, LLC
Delaware Investments
DePrince, Race & Zollo, Inc.
Deutsche Asset Management
Diamond Hill Investments
Duff & Phelps Investment Mgmt. Co.
Eagle Asset Management, Inc.
EARNEST Partners, LLC
Eaton Vance Management
Epoch Investment Partners, Inc.
Fayez Sarofim & Company
Federated Investors
Fidelity Institutional Asset Management
Fiera Capital Global Asset Management
First Eagle Investment Management, LLC
First Hawaiian Bank
Fisher Investments
Fort Washington Investment Advisors, Inc.
Franklin Templeton Institutional
Fred Alger Management, Inc.

Manager Name
Fuller & Thaler Asset Management, Inc.
GAM (USA) Inc.
GE Asset Management
GMO
Goldman Sachs Asset Management
Grand-Jean Capital Management
Guggenheim Investments
Guggenheim Real Estate LLC
GW&K Investment Management
Harbor Capital Group Trust
Hartford Funds
Hartford Investment Management Co.
Henderson Global Investors
Hotchkis & Wiley Capital Management, LLC
HSBC Global Asset Management
Income Research + Management, Inc.
Insight Investment Management Limited
Institutional Capital LLC
INTECH Investment Management, LLC
Invesco
Investec Asset Management
Janus Capital Management, LLC
Jensen Investment Management
J.P. Morgan Asset Management
KeyCorp
Lazard Asset Management
Legal & General Investment Management America
Lincoln National Corporation
LMCG Investments, LLC
Longview Partners
Loomis, Sayles & Company, L.P.
Lord Abbett & Company
Los Angeles Capital Management
LSV Asset Management
MacKay Shields LLC
Man Investments Inc.
Manulife Asset Management
Martin Currie Inc.
Mellon Capital Management
MFS Investment Management
MidFirst Bank
Mondrian Investment Partners Limited
Montag & Caldwell, LLC
Morgan Stanley Investment Management
Mountain Lake Investment Management LLC
MUFG Union Bank, N.A.
Neuberger Berman
Newton Capital Management
Nicholas Investment Partners
Nikko Asset Management Co., Ltd.
Northern Trust Asset Management
Nuveen Investments, Inc.
OFI Global Asset Management
Old Mutual Asset Management

Manager Name
Opus Capital Management Inc.
Pacific Investment Management Company
Parametric Portfolio Associates
Peregrine Capital Management, Inc.
PGIM
PineBridge Investments
Pinnacle Asset Management L.P.
Pioneer Investments
PNC Capital Advisors, LLC
Polen Capital Management
Principal Global Investors
Private Advisors, LLC
Putnam Investments, LLC
QMA (Quantitative Management Associates)
RBC Global Asset Management
Regions Financial Corporation
RidgeWorth Capital Management, Inc.
Rockefeller & Co., Inc.
Rothschild Asset Management, Inc.
Russell Investments
Santander Global Facilities
Schroder Investment Management North America Inc.
Scout Investments
SEI Investments
Seminole Advisory Services, LLC
Smith, Graham & Co. Investment Advisors, L.P.
Smith Group Asset Management
Standard Life Investments Limited
Standish
State Street Global Advisors
Stone Harbor Investment Partners, L.P.
Systematic Financial Management
T. Rowe Price Associates, Inc.
Taplin, Canida & Habacht
The Boston Company Asset Management, LLC
The Hartford
The London Company
The TCW Group, Inc.
Tri-Star Trust Bank
UBS Asset Management
Van Eck Global
Versus Capital Group
Victory Capital Management Inc.
Vontobel Asset Management, Inc.
Voya Investment Management (fka ING)
Waddell & Reed Asset Management Group
WCM Investment Management
WEDGE Capital Management
Wellington Management Company, LLP
Wells Capital Management
Western Asset Management Company
William Blair & Company