

Investment Performance Review
Period Ending December 31, 2018

Delray Beach Firefighters' Retirement System



As we start 2019, we first want to say “Thank you” for giving AndCo the opportunity to serve you. On behalf of our entire organization, we are extremely grateful for our client partnerships and we will continue working hard to maintain your trust and confidence. Our mission statement reads – “To represent the sole interest of our clients by redefining independence”. We’re happy to report we remain steadfast in this core belief and continue to build an organization and service model that is singularly focused and independent. This helps ensure all recommendations are truly in the best interest of our valued clients. We believe this approach will drive value for our client partnerships long into the future.

AndCo also remains committed to delivering high quality, customized services. As we start 2019, we are 89 employees strong advising approximately \$90 billion in client assets - both record highs for AndCo. In 2018 we hired 7 new team members including one consultant, two research professionals, one additional compliance officer, one technology administrator and two team members within our client solutions group. All hires were made to better service our clients.

2019 will represent another year of reinvestment in the organization to better serve our clients and make AndCo stronger. For example, we have already hired a new Senior Research Analyst bringing our dedicated research team to 15 professionals. As 2019 progresses, we are targeting additional hires in research, software development, content creation and our client solutions group. We will also be partnering with an external firm this year to conduct an in-depth client assessment to help ensure we are meeting the evolving needs of our clients and exceeding their service expectations. There will be more information regarding this survey from the firm and your consultant over the coming months.

Finally, we just completed our annual Firmwide retreat. This retreat was a great opportunity for our firm to spend time together with colleagues and get a clear understanding of where the company is going, and more importantly, why we’re headed in that direction. Since the inception of AndCo, the idea has been to make the firm a multigenerational organization owned and managed by its employees. As a result, since 2015, along with the strategic elements of our annual retreat, we also started the process of announcing new partners of the firm to foster this succession plan and today we have 8 partners controlling 100% of the company.

The evolution of our firm would not be possible without great partners like you. Our name reminds us who we work for every day: “Our Client” &Co. You will always be first in our service approach. As we continue to discuss updates with our firm, please know every decision is made by asking “How does this benefit our clients?” If it doesn’t benefit you, we don’t do it, it’s that simple. We know our clients are facing many challenges and we want to be there to help get you through all environments. We are honored and humbled you have chosen AndCo as your partner. We don’t take that relationship for granted and will continue to work tirelessly to exceed your expectations.

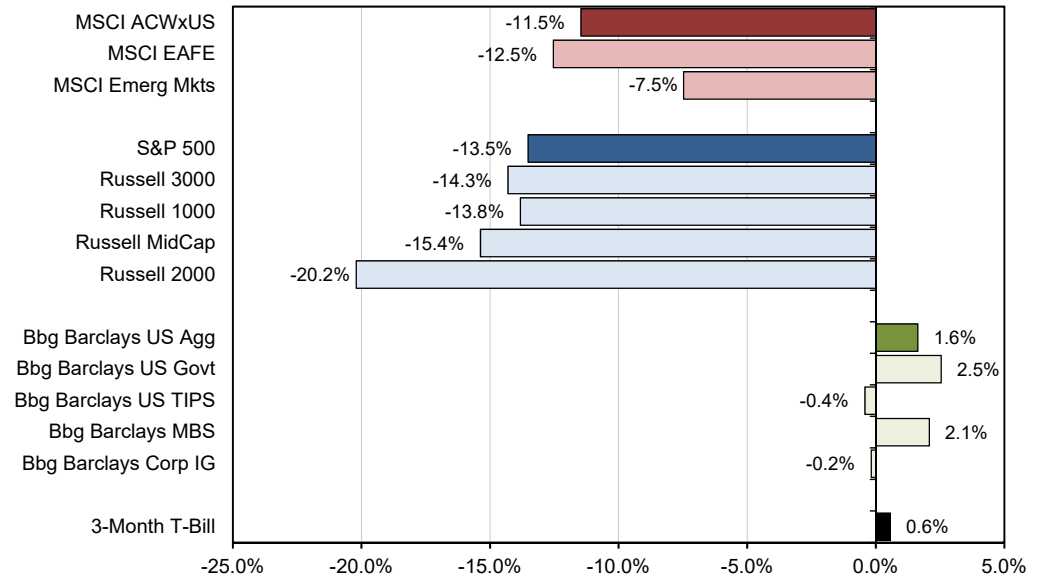
On behalf of AndCo, thank you for your valued partnership and the opportunity to serve you.



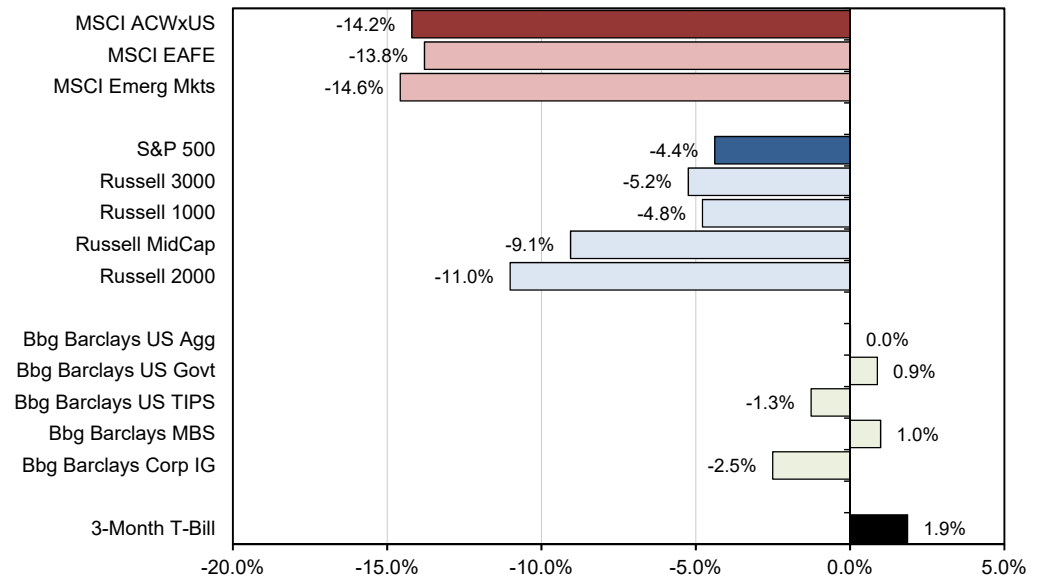
Mike Welker, CFA®
President/CEO

- Markets were volatile to end the 2018 calendar year. Both international and domestic equity markets had considerable losses during the 4th quarter while fixed income returns were muted, but outperformed relative to equities. Within equities, domestic stocks trailed international markets, reversing the 2018 trend of US market strength. Trade tensions between the US and China, midterm elections in US Congress, the effects of ongoing monetary policy tightening by the Federal Reserve (Fed), federal debt ceiling negotiations and the subsequent partial government shutdown outweighed generally positive corporate earnings and macroeconomic data reported during the quarter. The large cap S&P 500 Index returned -13.5% during the quarter while the small cap Russell 2000 Index fell by over 20% for the period. The drop in equity prices over the last three months was enough to take the returns for major US equity indices into negative territory for the 2018 calendar year. Returns over the 1-year period were -4.4% and -11.0% for the S&P 500 and Russell 2000 respectively.
- Similar to US equities, international equity index returns finished the quarter in negative territory with the MSCI ACWI ex US Index returning -11.5%. International markets faced headwinds from softening global macroeconomic data, tightening global monetary policy, uncertainty around Brexit negotiations, turmoil surrounding global trade relations, falling commodity prices and continued US Dollar (USD) strength. The developed market MSCI EAFE Index fell -12.5% during the 4th quarter, ending the year down -13.8%. Emerging markets performed well by comparison, only losing -7.5% during the quarter. Despite the 4th quarter outperformance, returns for emerging market equities trailed developed markets over the 1-year period with the MSCI Emerging Markets Index returning -14.6% versus a -13.8% return for the MSCI EAFE Index.
- Fixed income securities outperformed equities through both the 4th quarter and calendar year 2018 with the broad market Bloomberg Barclays Aggregate Index returning 1.6% and 0.0% respectively. Interest rates on the US Treasury Yield Curve continued their 2018 flattening trend as short-term rates increased to near-term highs while long-term rates fell during the quarter. Some of the increase in short-term rates can be attributed to the late December Fed interest rate hike. This marked the fourth Fed interest rate increase of 2018. This movement in rates did lead to some short-term rates being higher than those of longer dated maturities. More conservative fixed income sectors such as Treasuries and mortgage backed securities outperformed during the quarter and for the year as investors moved toward the relative safety these securities provide while widening credit spreads acted as a headwind to corporate issues.

Quarter Performance

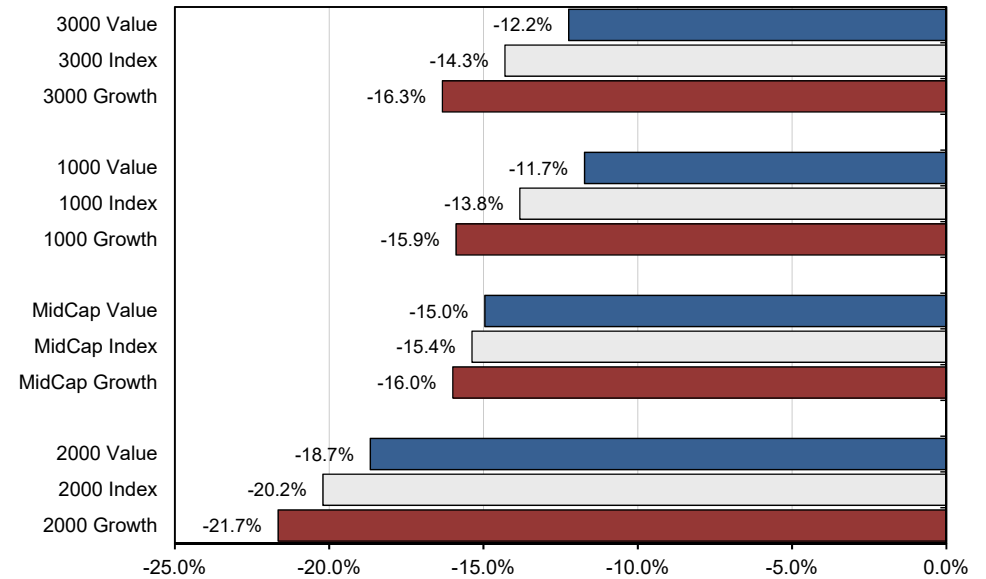


1-Year Performance

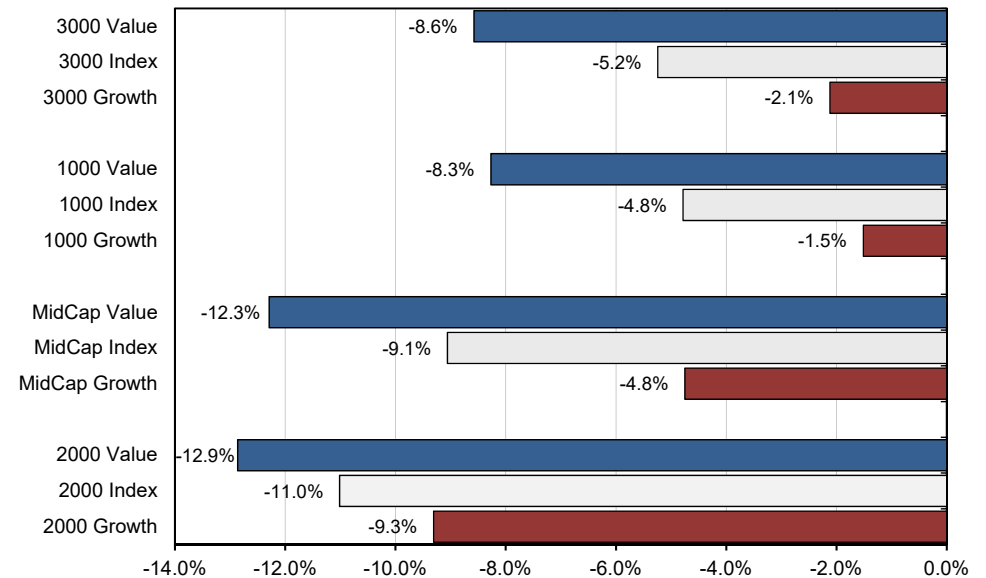


- US equity index returns were strongly negative across the style and capitalization spectrum during the 4th quarter of 2018. Despite these negative results, there was positive data in GDP, unemployment, wage growth, retail sales, and corporate earnings during the period. These positive economic factors were offset by softening data in housing, consumer confidence and manufacturing, tightening monetary policy, negative guidance for future corporate earnings and signs of slowing global growth which all contributed to the heavy selling in equities. Investors also considered the effects of ongoing trade negotiations, especially between the US and China, and the results of the US congressional midterm elections which likely reduced the chances of any major policy changes or new fiscal stimulus measures. The effects of partisan politics was particularly evident at the end of the quarter as budget negotiations between Democrats and Republicans collapsed over disagreement around the inclusion of funds for a border wall with Mexico, leading to a partial government shutdown to end the year.
- During the quarter, large cap stocks outperformed mid and small cap equities across growth, value and core indices. The large cap Russell 1000 Index fell -13.8% during the 4th quarter versus a -20.2% drop for the Russell 2000 Index. Part of the reason for weakness in small cap names is the steady increase in interest rates that occurred over 2018 as small cap companies typically maintain a higher percentage of debt than their large cap peers. Small cap names are also typically more volatile than larger companies and they have historically underperformed during market downturns. Similar to the most recent quarter, large cap stocks outperformed relative to small caps through calendar year 2018. The Russell 1000 returned -4.8% for the 1-year periods compared to a -11.0% return for the Russell 2000.
- Value indices outperformed growth indices across the market cap spectrum during the 4th quarter, reversing a year-to-date trend of growth stock outperformance. The large cap Russell 1000 Value Index was the best performing style index for the period, returning -11.7% for the quarter, while the Russell 2000 Growth Index was the worst performer, returning -21.7%. Value benchmarks tend to outperform in down markets as they benefit from their relative safety and higher dividend yields. Despite the short-term underperformance, growth benchmarks continue to outperform over the 1-year period, however, many of the sector exposures that drove growth stock outperformance during the first three quarters of the year, such as technology and consumer discretionary, were relative detractors during the 4th quarter.

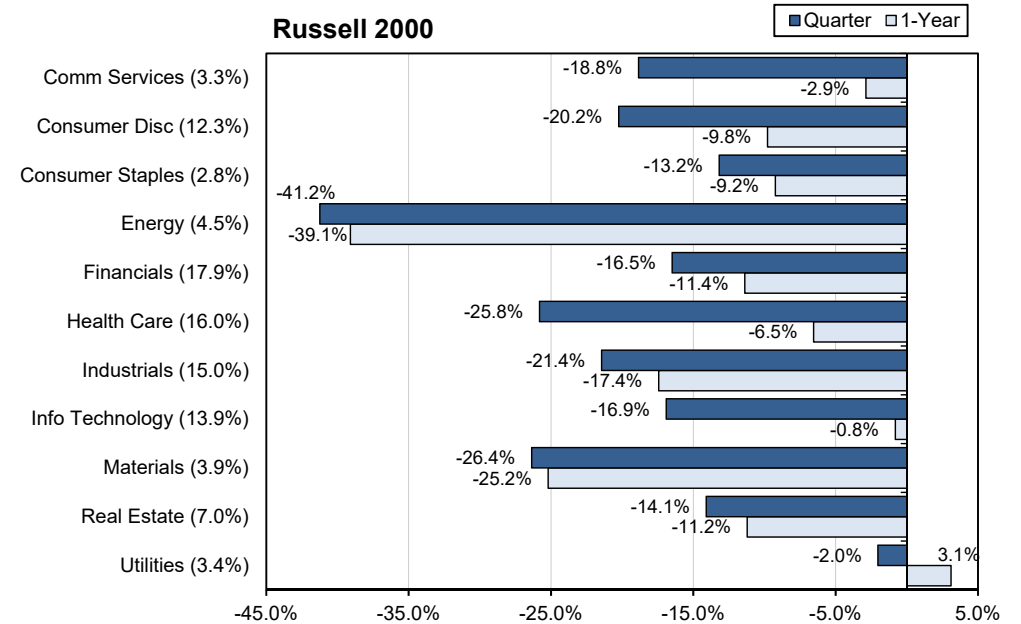
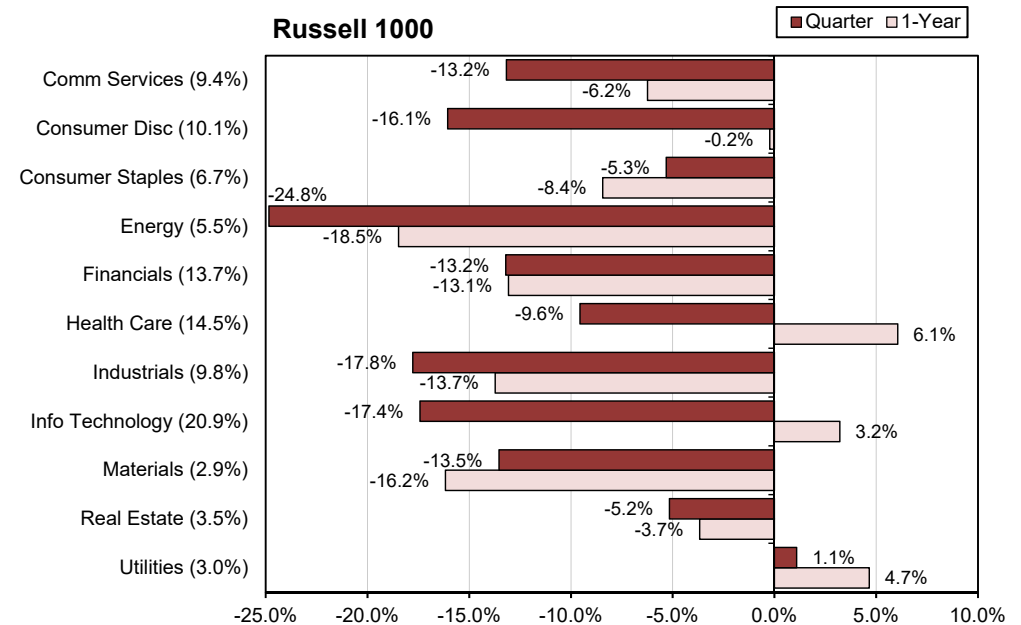
Quarter Performance - Russell Style Series



1-Year Performance - Russell Style Series



- Both S&P Dow Jones Indices and MSCI made changes to the Global Industry Classification Standard (GICS) sector configurations of their indices, creating a new GICS sector classification called Communication Services which replaced the Telecommunications sector on September 28, 2018. The Communication Services sector is comprised of companies in the Telecommunications sector, as well as certain companies formerly classified as Consumer Discretionary and Information Technology. As a result, the sector, went from a weighting of about 2% of the Russell 1000 Index to almost 10% post reclassification. Notable names now classified under Communication Services include Netflix, Alphabet, Facebook and Disney. This is just the second change to the GICS classifications since 1999.
- Sector performance was broadly negative across large cap sectors for the 4th quarter. All sectors within the Russell 1000 Index with the exception of the utilities sector posted negative returns for the period with seven sectors outpacing the return on the index. Cyclical sectors such as energy, industrials and technology were the worst performers through the quarter returning -24.8%, -17.8% and -17.4% respectively. Energy companies were hurt by a steep decline in oil prices during the quarter while technology and industrial companies fell on negative guidance for future earnings. More defensive, higher dividend paying sectors such as utilities, REITs and consumer staples were the strongest performing sectors with returns of 1.1%, -5.2% and -5.3% respectively. Only three sectors (health care, utilities, technology) posted positive results over the 1-year period with the remaining sectors losing ground during the calendar year.
- Quarterly results for small cap sectors were generally lower relative to their large capitalization counterparts. All eleven sectors had negative returns during the period with six of eleven economic sectors outpacing the Russell 2000 Index return for the quarter. Energy, materials and healthcare posted the worst returns for the period returning -41.2%, -26.4% and -25.8% respectively. Similar to large caps, defensive sectors performed well with utilities, consumer staples and real estate detracting the least returning -2.0%, -13.2% and -14.1% respectively. Over the trailing 1-year period, only utilities posted a gain returning 3.1%. Energy stocks were the worst performers in 2018, falling a considerable -41.2%.
- Using S&P 500 sector valuations as a proxy for the market, forward P/E ratios for three of the eleven GICS sectors were higher than their long-term averages at quarter-end. Using these historical P/E measures, the utilities, consumer discretionary and real estate sectors appear the most extended. In contrast the financials, technology and energy sectors were trading at a discount to their long-term average P/E ratios.



Source: Morningstar Direct

As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



The Market Environment
Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000
As of December 31, 2018

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Microsoft Corp	3.27%	-11.2%	20.3%	Information Technology
Apple Inc	3.24%	-29.9%	-5.4%	Information Technology
Amazon.com Inc	2.59%	-25.0%	28.4%	Consumer Discretionary
Berkshire Hathaway Inc B	1.68%	-4.6%	3.0%	Financials
Johnson & Johnson	1.47%	-6.0%	-5.1%	Health Care
JPMorgan Chase & Co	1.39%	-12.9%	-6.6%	Financials
Alphabet Inc Class C	1.34%	-13.2%	-1.0%	Communication Services
Alphabet Inc A	1.32%	-13.4%	-0.8%	Communication Services
Facebook Inc A	1.32%	-20.3%	-25.7%	Communication Services
Exxon Mobil Corp	1.23%	-19.0%	-15.1%	Energy

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Tesaro Inc	0.01%	90.3%	-10.4%	Health Care
Red Hat Inc	0.13%	28.9%	46.2%	Information Technology
Virtu Financial Inc A	0.00%	27.1%	45.9%	Financials
Tesla Inc	0.19%	25.7%	6.9%	Consumer Discretionary
SCANA Corp	0.03%	23.2%	23.1%	Utilities
Tribune Media Co A	0.02%	18.9%	9.7%	Communication Services
MarketAxess Holdings Inc	0.03%	18.6%	5.6%	Financials
ARRIS International PLC	0.02%	17.6%	19.0%	Information Technology
United States Cellular Corp	0.00%	16.1%	38.1%	Communication Services
Newmont Mining Corp	0.08%	15.2%	-6.2%	Materials

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Weatherford International PLC	0.00%	-79.4%	-86.6%	Energy
Nabors Industries Ltd	0.00%	-66.8%	-69.3%	Energy
Extraction Oil & Gas Inc	0.00%	-62.0%	-70.0%	Energy
Adient PLC	0.01%	-61.4%	-80.4%	Consumer Discretionary
Whiting Petroleum Corp	0.01%	-57.2%	-14.3%	Energy
Kosmos Energy Ltd	0.00%	-56.5%	-40.6%	Energy
Chesapeake Energy Corp	0.01%	-53.2%	-47.0%	Energy
Conduent Inc	0.01%	-52.8%	-34.2%	Information Technology
NVIDIA Corp	0.33%	-52.4%	-30.8%	Information Technology
SM Energy Co	0.01%	-50.8%	-29.6%	Energy

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Integrated Device Technology Inc	0.35%	3.0%	62.9%	Information Technology
Etsy Inc	0.32%	-7.4%	132.6%	Consumer Discretionary
Five Below Inc	0.31%	-21.3%	54.3%	Consumer Discretionary
Haemonetics Corp	0.29%	-12.7%	72.3%	Health Care
Ciena Corp	0.27%	8.5%	62.0%	Information Technology
Planet Fitness Inc A	0.26%	-0.8%	54.8%	Consumer Discretionary
Idacorp Inc	0.26%	-5.6%	4.6%	Utilities
HubSpot Inc	0.26%	-16.7%	42.2%	Information Technology
LivaNova PLC	0.25%	-26.2%	14.5%	Health Care
Cree Inc	0.24%	13.0%	15.2%	Information Technology

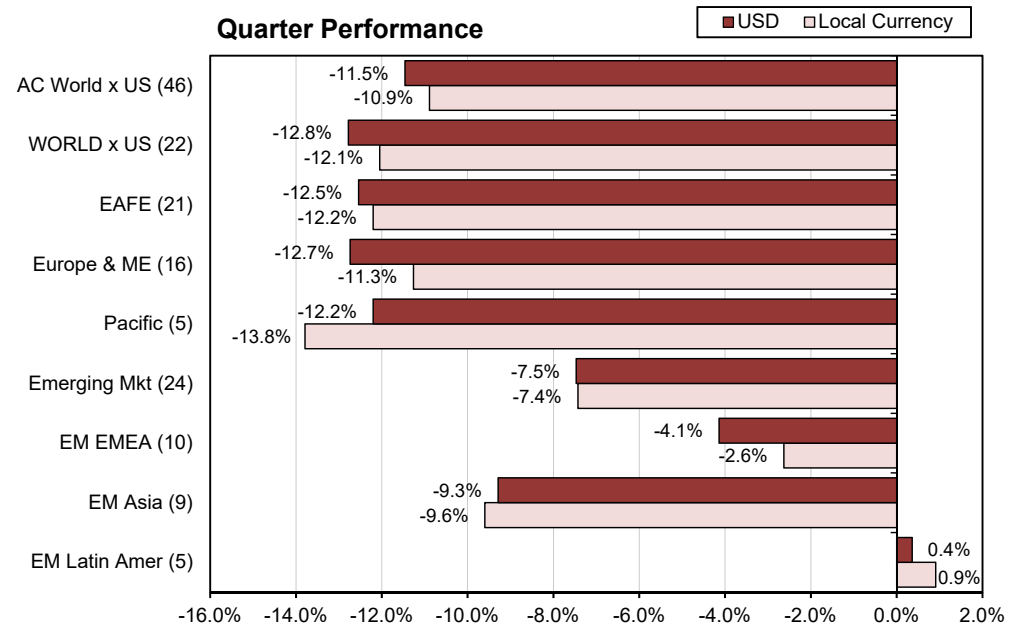
Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Electro Scientific Industries Inc	0.05%	71.7%	39.8%	Information Technology
Fluent Inc	0.01%	67.4%	3.4%	Communication Services
Mitek Systems Inc	0.02%	53.3%	20.8%	Information Technology
Arsanis Inc	0.00%	43.2%	-81.8%	Health Care
Inovalon Holdings Inc	0.05%	41.1%	-5.5%	Health Care
K12 Inc	0.05%	40.1%	55.9%	Consumer Discretionary
Investment Technology Group Inc	0.05%	39.9%	59.0%	Financials
Eidos Therapeutics Inc	0.01%	37.9%	N/A	Health Care
Belmond Ltd Class A	0.13%	37.2%	104.3%	Consumer Discretionary
Pacific Biosciences of California Inc	0.06%	36.8%	180.3%	Health Care

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Synergy Pharmaceuticals Inc	0.00%	-93.3%	-94.9%	Health Care
Sanchez Energy Corp	0.00%	-88.3%	-94.9%	Energy
Sienna Biopharmaceuticals Inc	0.00%	-84.3%	-87.2%	Health Care
Cloud Peak Energy Inc	0.00%	-84.1%	-91.8%	Energy
Selecta Biosciences Inc	0.00%	-82.9%	-72.9%	Health Care
Clearside Biomedical Inc	0.00%	-82.6%	-84.7%	Health Care
Key Energy Services Inc	0.00%	-81.9%	-82.4%	Energy
AAC Holdings Inc	0.00%	-81.7%	-84.4%	Health Care
PHI Inc Non-Voting Shares	0.00%	-80.2%	-84.0%	Energy
Bristow Group Inc	0.00%	-80.0%	-82.0%	Energy

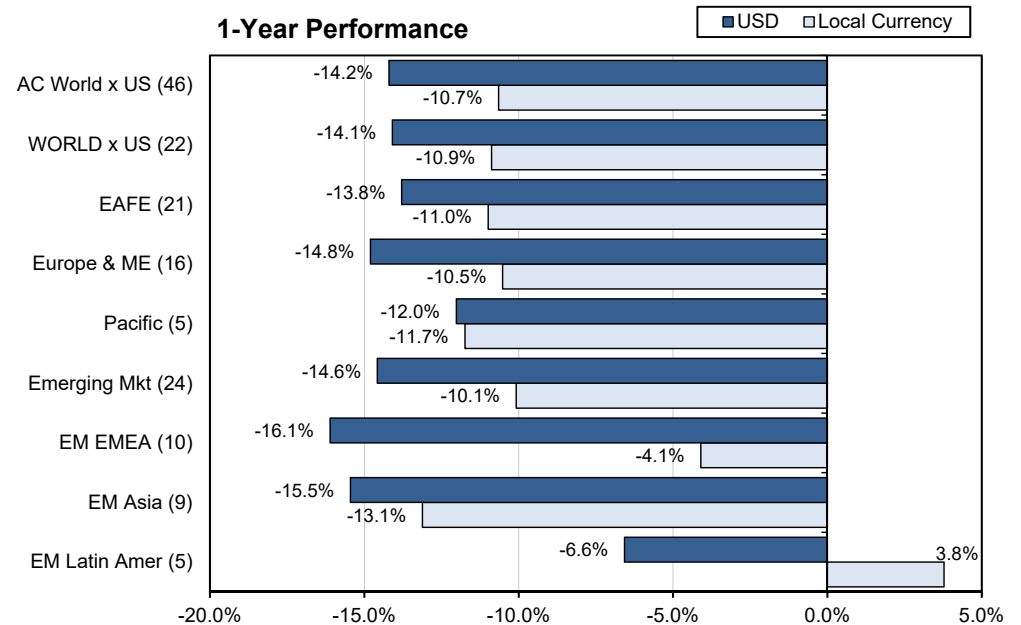


- Broad international equity returns were negative for the quarter in both local currency and USD terms. Geopolitical concerns, weakening economic data and the tightening of global monetary policy drove most of the negative performance. The USD also continued to strengthen against most currencies for the period which provided a headwind for USD based investors. The MSCI ACWI ex US Index fell -10.9% in local currency terms and -11.5% in USD terms during the 4th quarter. Returns for international indices were also broadly negative over the 1-year period in both local currency and USD terms with the MSCI ACWI ex US returning -10.7% and -14.2% respectively.
- Fourth quarter results for developed market international indices were negative in both local currency and USD terms with the MSCI EAFE Index returning -12.2% and -12.5% respectively. Returns were dampened for US investors as the USD continued to appreciate against most currencies, pushing returns lower. Global economic reporting during the quarter fueled concerns that global growth was beginning to slow. Japanese economic data faced headwinds from several natural disasters and data out of Europe was generally disappointing. Investors also weighed the effects of several significant political events in Europe including riots in France, ongoing budget negotiations between Italy and the EU and uncertainty around Brexit. Concerns over a “no deal” Brexit grew during the quarter as the draft withdrawal agreement presented by UK Prime Minister Theresa May was poorly received leading to a wave of cabinet resignations, a delay in the parliamentary vote and a “no confidence” vote which she ultimately won. The MSCI EAFE Index returned -11.0% and -13.8% for the last twelve months in local currency and USD terms respectively.
- Emerging markets outperformed relative to developed markets for the 4th quarter, but still declined in both local currency and USD terms with the MSCI Emerging Markets Index returning -7.4% and -7.5% respectively. Returns in emerging markets were hurt by the continued uncertainty surrounding trade relations between the US and China as both countries agreed to a 90-day hold on any new tariffs to allow for continued negotiations. Chinese economic data also appeared to be slowing during the quarter prompting the announcement of additional monetary and fiscal stimulus. The election of President Andres Manuel Lopez Obrador hurt returns in Mexico as investors feared the potential ramifications of his nationalist campaign promises. In contrast, Brazil was one of the few bright spots during the quarter as market participants looked favorably on the election of President Jair Bolsonaro in anticipation of market friendly economic reforms, including reforms associated with the country's bloated state pension system which has weighed heavily on the country's debt load. One year returns for the MSCI Emerging Market Index were -10.1% in local currency terms and -14.6% in USD terms.

Quarter Performance



1-Year Performance



The Market Environment
US Dollar International Index Attribution & Country Detail
As of December 31, 2018

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.6%	-7.7%	-12.1%
Consumer Discretionary	11.2%	-14.2%	-16.1%
Consumer Staples	11.6%	-8.4%	-10.8%
Energy	5.9%	-17.5%	-7.2%
Financials	19.5%	-13.7%	-20.1%
Health Care	11.2%	-10.3%	-4.3%
Industrials	14.3%	-14.6%	-15.7%
Information Technology	6.0%	-16.7%	-15.6%
Materials	7.4%	-15.2%	-17.5%
Real Estate	3.7%	-5.4%	-9.9%
Utilities	3.8%	-0.1%	1.1%
Total	100.0%	-12.5%	-13.8%

MSCI - ACWIxUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.6%	-5.5%	-11.9%
Consumer Discretionary	10.6%	-14.1%	-20.2%
Consumer Staples	9.9%	-7.4%	-11.2%
Energy	7.3%	-16.3%	-8.1%
Financials	22.2%	-10.7%	-16.8%
Health Care	8.4%	-11.2%	-6.2%
Industrials	11.7%	-13.7%	-15.1%
Information Technology	8.0%	-14.6%	-17.6%
Materials	7.7%	-13.4%	-15.9%
Real Estate	3.4%	-3.8%	-11.6%
Utilities	3.4%	0.5%	-0.9%
Total	100.0%	-11.5%	-14.2%

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	14.1%	-3.7%	-14.9%
Consumer Discretionary	10.4%	-13.5%	-32.5%
Consumer Staples	6.7%	-4.6%	-13.7%
Energy	8.0%	-10.6%	4.7%
Financials	24.8%	-0.9%	-8.7%
Health Care	2.8%	-16.2%	-20.9%
Industrials	5.5%	-3.8%	-12.6%
Information Technology	14.2%	-12.7%	-19.3%
Materials	7.7%	-10.8%	-11.6%
Real Estate	3.0%	1.4%	-17.2%
Utilities	2.7%	3.6%	-3.8%
Total	100.0%	-7.5%	-14.6%

Country	MSCI-EAFE Weight	MSCI-ACWIxUS Weight	Quarter Return	1-Year Return
Japan	24.6%	16.6%	-14.2%	-12.9%
United Kingdom	16.9%	11.4%	-11.8%	-14.2%
France	11.1%	7.5%	-15.1%	-12.8%
Germany	8.8%	6.0%	-15.5%	-22.2%
Switzerland	8.7%	5.8%	-8.9%	-9.1%
Australia	6.9%	4.7%	-10.0%	-12.0%
Hong Kong	3.9%	2.6%	-4.5%	-7.8%
Netherlands	3.4%	2.3%	-11.0%	-13.1%
Spain	3.1%	2.1%	-8.7%	-16.2%
Sweden	2.7%	1.8%	-14.2%	-13.7%
Italy	2.3%	1.5%	-11.8%	-17.8%
Denmark	1.8%	1.2%	-9.8%	-15.4%
Singapore	1.4%	0.9%	-6.7%	-9.4%
Finland	1.0%	0.7%	-14.7%	-3.4%
Belgium	1.0%	0.6%	-18.5%	-26.9%
Norway	0.7%	0.5%	-18.1%	-8.6%
Ireland	0.5%	0.4%	-17.7%	-25.3%
Israel	0.5%	0.4%	-14.4%	-5.5%
Austria	0.2%	0.2%	-20.7%	-27.4%
New Zealand	0.2%	0.2%	-6.6%	-4.0%
Portugal	0.2%	0.1%	-14.3%	-11.1%
Total EAFE Countries	100.0%	67.5%	-12.5%	-13.8%
Canada		6.5%	-15.3%	-17.2%
Total Developed Countries		74.0%	-12.8%	-14.1%
China		7.9%	-10.7%	-18.9%
Korea		3.6%	-13.1%	-20.9%
Taiwan		3.0%	-13.7%	-8.9%
India		2.4%	2.5%	-7.3%
Brazil		2.0%	13.4%	-0.5%
South Africa		1.6%	-3.8%	-24.8%
Russia		1.0%	-9.0%	-0.7%
Mexico		0.7%	-18.8%	-15.5%
Malaysia		0.6%	-5.8%	-6.0%
Thailand		0.6%	-10.2%	-5.5%
Indonesia		0.6%	9.7%	-9.2%
Poland		0.3%	-3.0%	-12.9%
Philippines		0.3%	5.3%	-16.5%
Qatar		0.3%	8.4%	29.8%
Chile		0.3%	-8.7%	-19.7%
United Arab Emirates		0.2%	-5.5%	-7.7%
Turkey		0.2%	4.8%	-41.4%
Colombia		0.1%	-19.0%	-11.5%
Peru		0.1%	-2.9%	1.6%
Hungary		0.1%	5.9%	-6.1%
Greece		0.1%	-16.0%	-36.8%
Czech Republic		0.0%	-8.7%	-4.5%
Egypt		0.0%	-9.4%	-14.0%
Pakistan		0.0%	-22.4%	-34.8%
Total Emerging Countries		26.0%	-7.5%	-14.6%
Total ACWIxUS Countries		100.0%	-11.5%	-14.2%

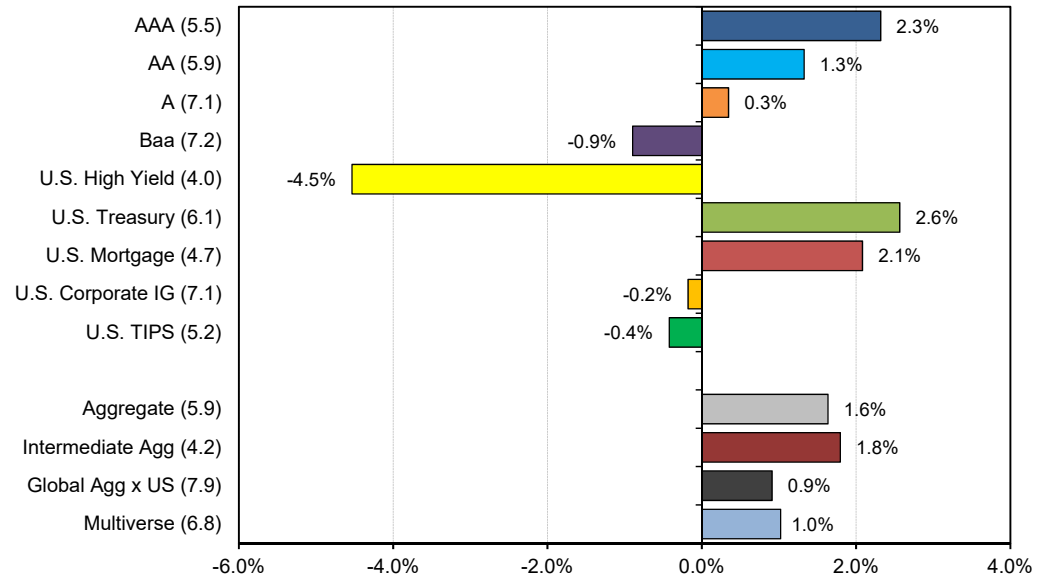
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)

As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.

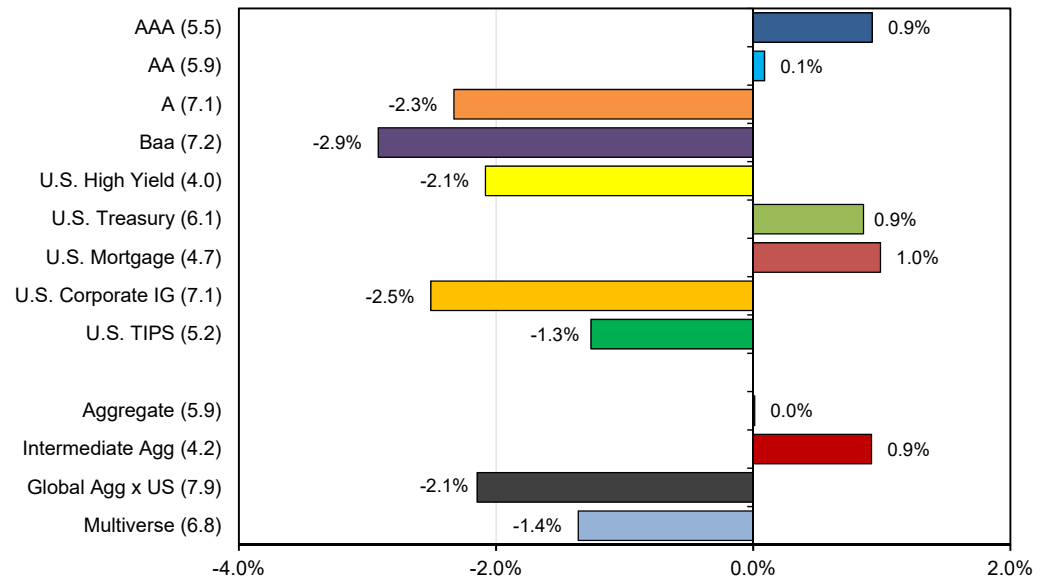


- Broad fixed income benchmarks had mixed results during the 4th quarter. Interest rates rose across short-term maturities, but fell on those on the middle and long end of the US Treasury Yield Curve. The Federal Open Market Committee (FOMC), decided to increase short-term interest rates by 25 basis points at their December meeting citing the strength of the US economy which caused an increase in short-term interest rates, but equity market volatility led market participants toward less volatile assets, pushing rates lower on maturities greater than 1-year. This was the fourth rate hike of 2018. The current Fed Funds Rate target range sits at 2.25%-2.50%. This caused continued flattening in the yield curve with some moderate inversion, which happens when short-term maturities have greater yields than long-term securities, in the middle of curve. The difference in yields between the 2-year and 10-year Treasury now sits at just 0.21%. Historically, an inverted yield curve has signaled a greater probability of a recession. The Fed is also continuing the reduction of the size of its balance sheet by slowing its pace of reinvestment as the securities it holds mature. However, the Fed did lower its guidance for future rate increases in 2019 following a reduction in expectations for GDP and inflation. The Fed is now projecting just two additional interest rate increases in 2019. The Bloomberg Barclays US Aggregate Index was positive during the quarter, posting a 1.6% return, but was flat, returning 0.0% over the 1-year period.
- Within investment grade credit, higher quality issues outperformed lower quality issues as investors preferred more conservative securities. On an absolute basis, without negating the duration differences in the sub-indices, AAA rated credit was the best performing investment grade credit quality segment returning 2.3% for the quarter, while Baa was the worst performing, falling -0.9%. High yield debt trailed investment grade credit as spreads widened the most for these issues, returning -4.5%. Returns are mixed for the investment grade quality segments when viewed over the 1-year period with higher quality issues outperforming lower quality securities. High yield performed well relative to lower quality investment grade debt due to the relatively strong returns experienced during the first three quarters of 2018.
- During the 4th quarter, the more defensive Treasury and mortgage backed sectors of the Bloomberg Barclays US Aggregate Index's three broad sectors were the best performers returning 2.6% and 2.1% respectively. Investment grade corporate credit underperformed, returning -0.2%, as credit spreads widened considerably during the period. This trend carried through to the 1-year period as both Treasuries and mortgage backed securities outperformed both investment grade and high yield corporate debt. Calendar year 2018 performance for the Treasury, mortgage backed and investment grade corporate issues was 0.9%, 1.0% and -2.5% respectively. US TIPS returned -0.4% and -1.3% for the 4th quarter and 1-year period.

Quarter Performance

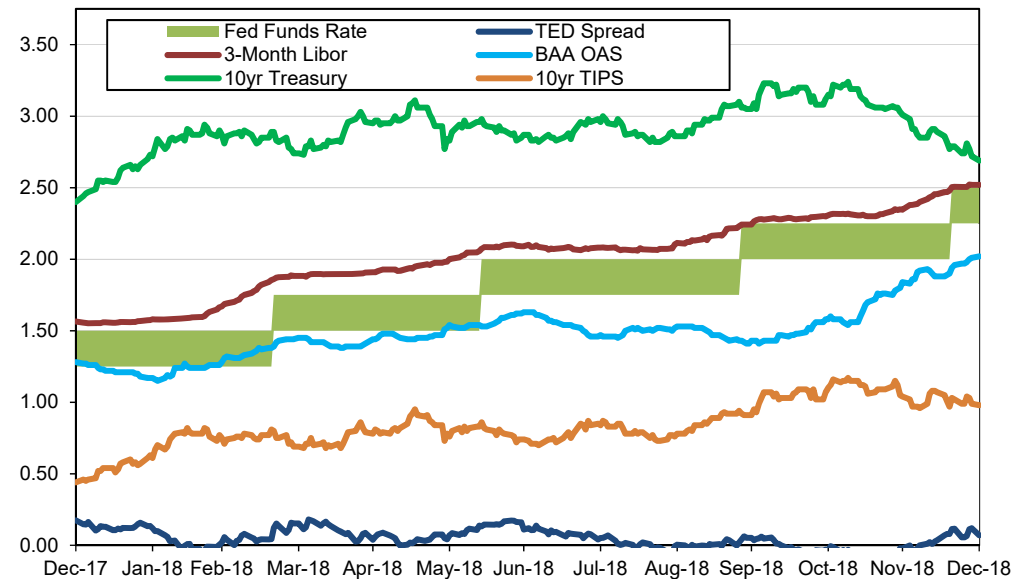


1-Year Performance

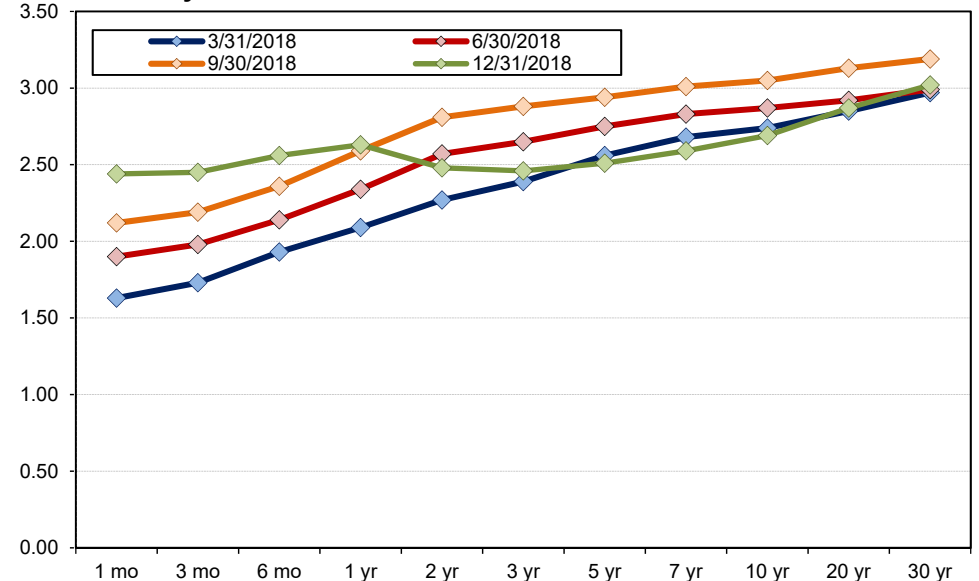


- Global fixed income indices continue to struggle relative to their domestic counterparts, underperforming during the 4th quarter. These indices have lower yields and the returns of these indices are also significantly influenced by fluctuations in their currency denomination relative to the USD. During the 4th quarter the USD strengthened against most other currencies, negatively impacting the returns on global bond indices. The return on global bonds, as represented by the Bloomberg Barclays Global Aggregate ex US Index, was 0.9% and -2.1% for the quarter and 1-year period respectively. As the global economy continues to recover, several international central banks have started to move toward less accommodative postures. Notably, the ECB, began to slow its monthly bond purchase program in September, reducing new purchases to 15 billion euro per month from 30 billion euro per month and ended the program entirely at year end. However, they have indicated a continuation of reinvestment in maturing securities and would likely not raise interest rates from current levels until summer 2019. The Bank of England and the Bank of Japan made no major policy changes during the quarter as they continue to review macroeconomic data within their respective countries.
- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the line graphs to the right. The '1-Year Trailing Market Rates' chart illustrates that the 10-year Treasury yield (green line) fell during the 4th quarter after rising steadily through most of the year as investors moved to safe haven assets during the period, ending the year at 2.69%. The blue line illustrates changes in the BAA OAS (Option Adjusted Spread). This measure quantifies the additional yield premium that investors require to purchase and hold non-Treasury issues. This line illustrates a relatively tight range in credit spreads throughout most of 2018, but highlights an abrupt increase during the 4th quarter as investors moved to higher quality assets. This increase is equivalent to an interest rate increase on corporate bonds, which produces an additional headwind for corporate bond index returns. These credit spreads have widened by about 59 basis points over the last 3-months. The green band across the graph illustrates the gradual increase in the Federal Funds Rate (four increases in the last twelve months) due to the continued tightening of US monetary policy.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. As mentioned, the yield curve continues to flatten as yields on shorter-term maturities have risen more than interest rates on the long end of the curve. The upward momentum of interest rates as well as a general flattening of the yield curve are clearly visible over the last twelve months with some minor inversion visible in the middle of the yield curve.

1-Year Trailing Market Rates



Treasury Yield Curve



**Delray Beach Fire Pension Plan
Compliance Checklist**

As of December 31, 2018

Total Fund Compliance:	Yes	No	N/A
	1. The Total Plan return equaled or exceeded the 7.25% actuarial earnings assumption over the trailing three and five year periods.		•
2. The Total Plan return equaled or exceeded the total plan benchmark over the trailing three and five year periods.		•	
3. The Total Plan return ranked within the top 40th percentile of its peer group over the trailing three and five year periods.		•	

* Based off gross of fees and public plan peer group.

Total Equity Compliance:	Yes	No	N/A
	1. Total equity returns meet or exceed the benchmark over the trailing three and five year periods.		•
2. Total equity returns ranked within the top 40th percentile of its peer group over the trailing three and five year periods.			•
3. The total equity allocation was less than 70% of the total plan assets at market.	•		
4. Total foreign equity was less than 25% of the total plan assets at market.	•		

Total Fixed Income Compliance:	Yes	No	N/A
	1. Total fixed income returns meet or exceed the benchmark over the trailing three and five year periods.	•	
2. Total fixed income returns ranked within the top 40th percentile of its peer group over the trailing three and five year periods.	•		
3. No more than 15% of the fixed income portfolio was rated below BBB/Baa.	•		

	Boston			Rhumbline R1000G			Polen LCG		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•			•			•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•			•			•
3. Less than four consecutive quarters of under performance relative to the benchmark.	•			•					•
4. Three and five-year down-market capture ratio less than the index.*			•			•			•
5. Manager reports compliance with PFIA.			•			•			•

	Lazard			VG Mid-Cap			H.L. Intl Equity		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*		•			•				•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*		•		•					•
3. Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•		
4. Three and five-year down-market capture ratio less than the index.*	•				•				•
5. Manager reports compliance with PFIA.	•					•			•

*3 years used when 5 years unavailable



**Delray Beach Fire Pension Plan
Compliance Checklist
As of December 31, 2018**

	GHA			Templeton Global			American Realty		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•	•				•	
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•	•				•	
3. Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•		
4. Three and five-year down-market capture ratio less than the index.*			•	•					•
5. Manager reports compliance with PFIA.	•					•			•

	WW Inc. Opportunity								
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*		•							
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*		•							
3. Less than four consecutive quarters of under performance relative to the benchmark.		•							
4. Three and five-year down-market capture ratio less than the index.*		•							
5. Manager reports compliance with PFIA.			•						

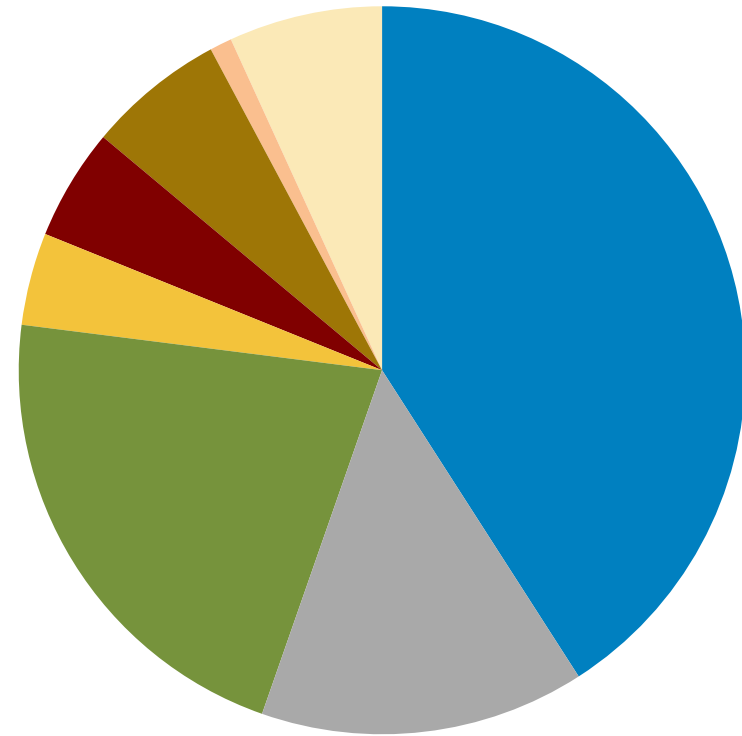
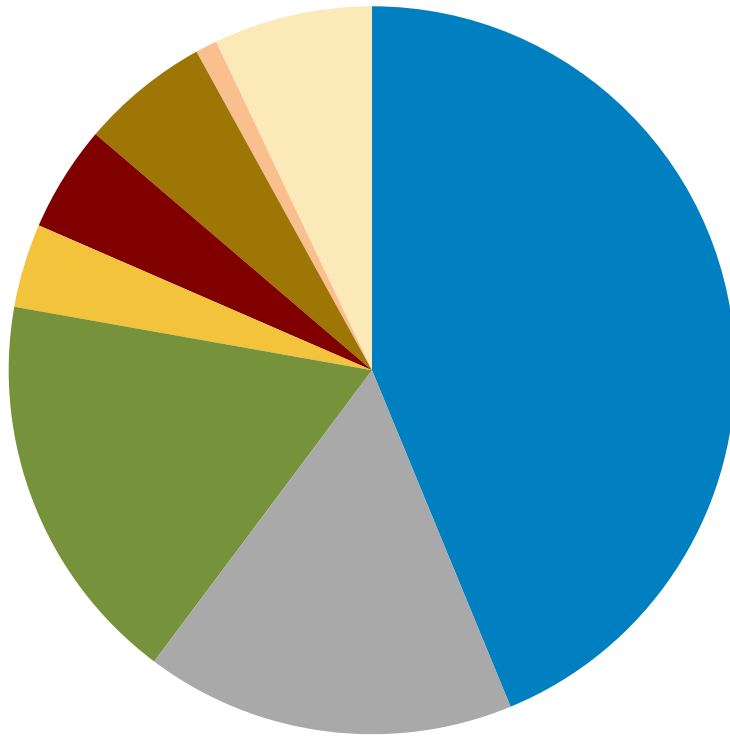
*3 years used when 5 years unavailable



Asset Allocation By Asset Class
Total Fund (Composite)
 As of December 31, 2018

September 30, 2018 : \$103,224,314

December 31, 2018 : \$99,876,598



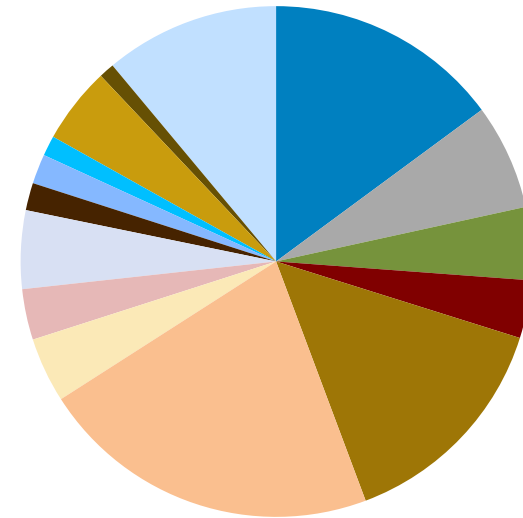
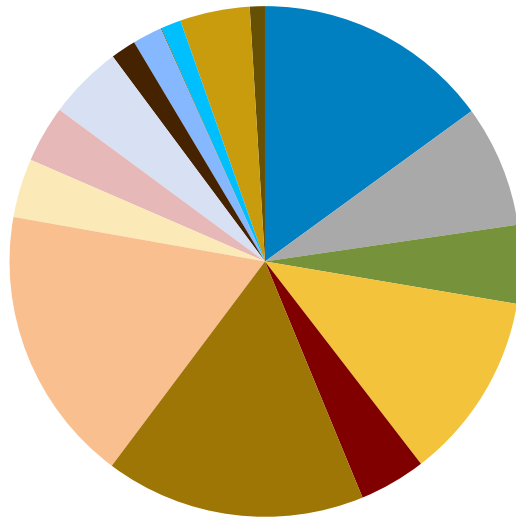
Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ US Equity	45,183,039	43.8	■ US Equity	40,853,789	40.9
■ International Equity	16,998,720	16.5	■ International Equity	14,441,308	14.5
■ US Fixed Income	18,122,723	17.6	■ US Fixed Income	21,608,083	21.6
■ Global Fixed Income	3,840,576	3.7	■ Global Fixed Income	4,107,510	4.1
■ US Private Real Estate	4,869,744	4.7	■ US Private Real Estate	4,950,415	5.0
■ US Real Return	5,924,279	5.7	■ US Real Return	6,108,061	6.1
■ Cash	991,673	1.0	■ Cash	978,923	1.0
■ US Private Equity	7,293,561	7.1	■ US Private Equity	6,828,509	6.8



**Asset Allocation By Manager
Total Fund (Composite)
As of December 31, 2018**

September 30, 2018 : \$103,224,314

December 31, 2018 : \$99,876,598



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Boston LCV	15,456,030	15.0	■ Boston LCV	14,856,634	14.9
■ Lazard SMid Cap Core	7,970,820	7.7	■ Lazard SMid Cap Core	6,686,454	6.7
■ Vanguard Mid-Cap Index (VIMAX)	5,120,018	5.0	■ Vanguard Mid-Cap Index (VIMAX)	4,601,620	4.6
■ Sawgrass Large Cap Growth	12,287,168	11.9	■ Sawgrass Large Cap Growth	2,039	0.0
■ Rhumblin R1000G	4,349,002	4.2	■ Rhumblin R1000G	3,658,713	3.7
■ Harding Loevner Intl Equity (HLMIX)	16,998,720	16.5	■ Harding Loevner Intl Equity (HLMIX)	14,441,308	14.5
■ Garcia Hamilton Fixed Income	18,122,723	17.6	■ Garcia Hamilton Fixed Income	21,608,083	21.6
■ Templeton Global Total Return (FTTRX)	3,840,576	3.7	■ Templeton Global Total Return (FTTRX)	4,107,510	4.1
■ Crescent Direct Lending Levered Fund	3,720,454	3.6	■ Crescent Direct Lending Levered Fund	3,217,091	3.2
■ American Core Realty	4,869,744	4.7	■ American Core Realty	4,950,415	5.0
■ Angelo Gordon Net Lease Realty Fund III, L.P.	1,647,718	1.6	■ Angelo Gordon Net Lease Realty Fund III, L.P.	1,731,828	1.7
■ Dune Real Estate Fund III	1,925,389	1.9	■ Dune Real Estate Fund III	1,879,590	1.9
■ Amsouth Timber Fund	57,182	0.1	■ Amsouth Timber Fund	-	0.0
■ Molpus Woodlands Timber	1,311,065	1.3	■ Molpus Woodlands Timber	1,275,611	1.3
■ Westwood Income Opportunity Fund (WHGIX)	4,556,031	4.4	■ Westwood Income Opportunity Fund (WHGIX)	4,832,450	4.8
■ Mutual Fund Cash	3,028	0.0	■ Mutual Fund Cash	3,097	0.0
■ R&D	988,645	1.0	■ R&D	975,826	1.0
■ Polen Capital LCG	-	0.0	■ Polen Capital LCG	11,048,329	11.1

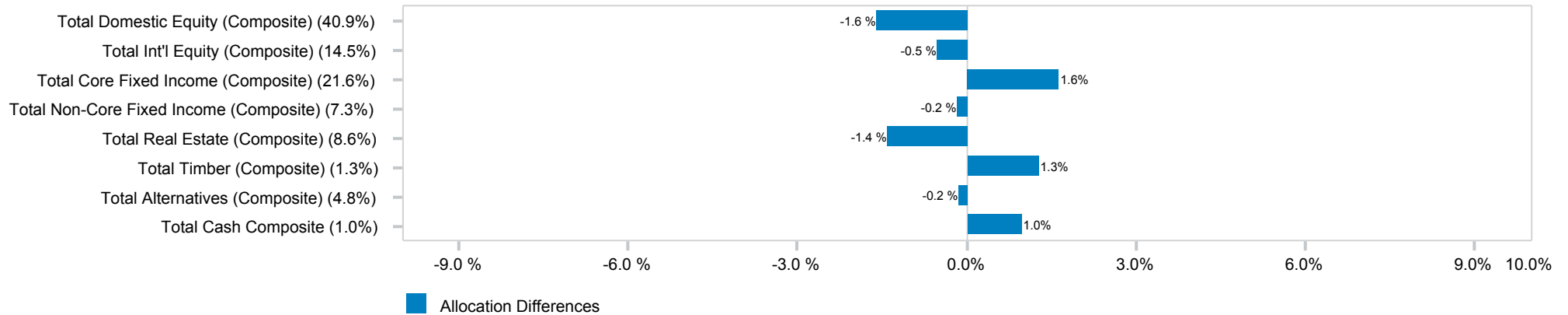


Asset Allocation Compliance
Delray Beach Firefighters' Retirement System Total Fund (Composite)

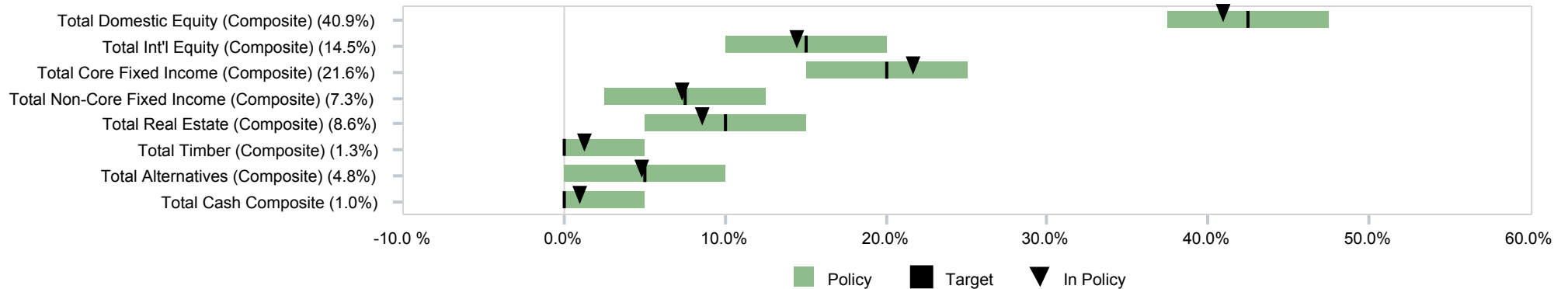
As of December 31, 2018

Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund (Composite)	99,876,598	100.00	100.00	0.00	-
Total Domestic Equity (Composite)	40,853,789	40.90	42.50	-1.60	1,593,765
Total Int'l Equity (Composite)	14,441,308	14.46	15.00	-0.54	540,181
Total Core Fixed Income (Composite)	21,608,083	21.63	20.00	1.63	-1,632,763
Total Non-Core Fixed Income (Composite)	7,324,601	7.33	7.50	-0.17	166,144
Total Real Estate (Composite)	8,561,833	8.57	10.00	-1.43	1,425,826
Total Timber (Composite)	1,275,611	1.28	0.00	1.28	-1,275,611
Total Alternatives (Composite)	4,832,450	4.84	5.00	-0.16	161,380
Total Cash Composite	978,923	0.98	0.00	0.98	-978,923



Executive Summary



Comparative Performance
Total Fund Trailing Returns
As of December 31, 2018

Comparative Performance																	
	QTR		YTD		FYTD		1 YR		2 YR		3 YR		5 YR		Inception	Inception Date	
Total Fund (Net)	-8.40	(64)	-3.89	(14)	-8.40	(64)	-3.89	(14)	4.41	(15)	5.18	(24)	4.44	(18)	4.61	(54)	10/01/2005
Total Fund Policy	-7.65	(51)	-3.52	(10)	-7.65	(51)	-3.52	(10)	5.38	(6)	6.36	(5)	5.55	(5)	5.67	(13)	
Difference	-0.75		-0.37		-0.75		-0.37		-0.97		-1.18		-1.11		-1.06		
IM Mixed-Asset Target Alloc Moderate (MF) Median	-7.59		-5.70		-7.59		-5.70		3.05		4.28		3.13		4.67		
Total Fund (Gross)	-8.32	(52)	-3.56	(38)	-8.32	(52)	-3.56	(38)	4.78	(56)	5.61	(55)	4.91	(42)	5.07	(88)	10/01/2005
Total Fund Policy	-7.65	(36)	-3.52	(37)	-7.65	(36)	-3.52	(37)	5.38	(35)	6.36	(27)	5.55	(17)	5.67	(64)	
Difference	-0.67		-0.04		-0.67		-0.04		-0.60		-0.75		-0.64		-0.60		
All Public Plans-Total Fund Median	-8.30		-4.24		-8.30		-4.24		4.90		5.74		4.76		5.93		
Total Equity	-14.26		-7.95		-14.26		-7.95		5.41		6.40		5.03		5.73		10/01/2005
Total Equity Policy	-13.67		-7.52		-13.67		-7.52		6.46		7.92		5.17		5.46		
Difference	-0.59		-0.43		-0.59		-0.43		-1.05		-1.52		-0.14		0.27		
Total Domestic Equity	-13.94	(35)	-5.51	(39)	-13.94	(35)	-5.51	(39)	5.28	(55)	7.38	(45)	6.37	(44)	6.65	(53)	10/01/2005
Total Domestic Equity Policy	-14.43	(44)	-5.29	(37)	-14.43	(44)	-5.29	(37)	7.05	(41)	9.01	(21)	7.69	(24)	7.69	(33)	
Difference	0.49		-0.22		0.49		-0.22		-1.77		-1.63		-1.32		-1.04		
IM U.S. All Cap Equity (SA+CF+MF) Median	-14.84		-6.91		-14.84		-6.91		5.87		7.06		5.94		6.75		
Total Int'l Equity	-15.04	(85)	-13.96	(43)	-15.04	(85)	-13.96	(43)	5.71	(21)	3.33	(46)	1.25	(56)	2.87	(17)	05/01/2007
Total Int'l Policy	-11.46	(20)	-14.20	(47)	-11.46	(20)	-14.20	(47)	4.47	(45)	4.48	(24)	0.68	(72)	0.17	(98)	
Difference	-3.58		0.24		-3.58		0.24		1.24		-1.15		0.57		2.70		
IM International Large Cap Core Equity (SA+CF) Median	-13.19		-14.63		-13.19		-14.63		4.09		3.11		1.32		1.81		
Total Fixed Income	1.28	(26)	2.09	(3)	1.28	(26)	2.09	(3)	3.03	(8)	3.93	(15)	3.79	(6)	5.00	(14)	10/01/2005
Total Fixed Policy	1.64	(9)	0.01	(26)	1.64	(9)	0.01	(26)	1.76	(52)	2.06	(70)	2.52	(52)	3.95	(66)	
Difference	-0.36		2.08		-0.36		2.08		1.27		1.87		1.27		1.05		
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	0.70		-0.64		0.70		-0.64		1.78		2.48		2.54		4.23		
Total Real Estate	1.11	(96)	8.58	(57)	1.11	(96)	8.58	(57)	9.36	(30)	9.13	(45)	11.16	(44)	4.38	(100)	07/01/2007
NCREIF ODCE	1.62	(76)	8.25	(66)	1.62	(76)	8.25	(66)	8.02	(57)	8.44	(52)	10.52	(63)	5.48	(71)	
Difference	-0.51		0.33		-0.51		0.33		1.34		0.69		0.64		-1.10		
IM U.S. Open End Private Real Estate (SA+CF) Median	1.80		8.71		1.80		8.71		8.39		8.66		10.82		5.78		
Total Timber	-0.21		-0.94		-0.21		-0.94		-4.73		-2.88		0.94		2.56		07/01/2007
NCREIF Timberland Index	0.97		3.44		0.97		3.44		3.53		3.22		4.98		5.31		
Difference	-1.18		-4.38		-1.18		-4.38		-8.26		-6.10		-4.04		-2.75		
Total Alternatives	-6.14		-4.70		-6.14		-4.70		2.84		4.09		3.70		0.52		08/01/2010
Alternatives Policy	-6.05		-1.90		-6.05		-1.90		5.00		5.78		5.33		3.40		
Difference	-0.09		-2.80		-0.09		-2.80		-2.16		-1.69		-1.63		-2.88		



**Comparative Performance
Total Fund Trailing Returns**

As of December 31, 2018

	QTR		YTD		FYTD		1 YR		2 YR		3 YR		5 YR		Inception		Inception Date
Total Domestic Equity (Composite)	-13.94		-5.51		-13.94		-5.51		5.28		7.38		6.37		6.65		10/01/2005
Boston LCV	-13.85	(56)	-8.69	(54)	-13.85	(56)	-8.69	(54)	N/A	N/A	N/A	N/A	N/A	N/A	-8.69	(54)	01/01/2018
Russell 1000 Value Index	-11.72	(29)	-8.27	(49)	-11.72	(29)	-8.27	(49)	2.11	(70)	6.95	(56)	5.95	(61)	-8.27	(49)	
Difference	-2.13		-0.42		-2.13		-0.42		N/A		N/A		N/A		-0.42		
IM U.S. Large Cap Value Equity (SA+CF) Median	-13.57		-8.39		-13.57		-8.39		3.60		7.27		6.23		-8.39		
Total Growth	-11.15 (4)		2.35 (18)		-11.15 (4)		2.35 (18)		11.07 (74)		8.98 (66)		8.20 (73)		5.02 (98)		07/01/2007
Russell 1000 Growth Index	-15.89	(55)	-1.51	(57)	-15.89	(55)	-1.51	(57)	13.24	(48)	11.15	(21)	10.40	(20)	8.81	(30)	
Difference	4.74		3.86		4.74		3.86		-2.17		-2.17		-2.20		-3.79		
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	-15.67		-0.87		-15.67		-0.87		13.12		9.73		9.23		8.26		
Rhumblin R1000G	-15.87	(61)	-1.51	(54)	-15.87	(61)	-1.51	(54)	N/A		N/A		N/A		-1.51	(54)	01/01/2018
Russell 1000 Growth Index	-15.89	(62)	-1.51	(54)	-15.89	(62)	-1.51	(54)	13.24	(41)	11.15	(29)	10.40	(31)	-1.51	(54)	
Difference	0.02		0.00		0.02		0.00		N/A		N/A		N/A		0.00		
IM U.S. Large Cap Growth Equity (SA+CF) Median	-15.14		-1.17		-15.14		-1.17		12.74		10.19		9.66		-1.17		
Polen Capital LCG	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		01/01/2019
Russell 1000 Growth Index	-15.89	(62)	-1.51	(54)	-15.89	(62)	-1.51	(54)	13.24	(41)	11.15	(29)	10.40	(31)	N/A		
Difference	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		
IM U.S. Large Cap Growth Equity (SA+CF) Median	-15.14		-1.17		-15.14		-1.17		12.74		10.19		9.66		N/A		
Lazard SMid Cap Core	-18.89	(67)	-12.14	(77)	-18.89	(67)	-12.14	(77)	0.50	(88)	5.86	(81)	5.64	(55)	10.90	(87)	02/01/2010
Russell 2500 Index	-18.49	(62)	-10.00	(55)	-18.49	(62)	-10.00	(55)	2.53	(66)	7.32	(62)	5.15	(86)	11.54	(78)	
Difference	-0.40		-2.14		-0.40		-2.14		-2.03		-1.46		0.49		-0.64		
IM U.S. SMID Cap Core Equity (SA+CF) Median	-18.23		-9.85		-18.23		-9.85		3.30		7.54		6.14		12.61		
Vanguard Mid-Cap Index (VIMAX)	-15.46	(43)	-9.23	(21)	-15.46	(43)	-9.23	(21)	4.04	(16)	6.38	(32)	N/A		4.14	(23)	07/01/2015
CRSP U.S. Mid Cap TR Index	-15.46	(43)	-9.22	(21)	-15.46	(43)	-9.22	(21)	4.06	(15)	6.40	(30)	6.24	(11)	4.17	(21)	
Difference	0.00		-0.01		0.00		-0.01		-0.02		-0.02		N/A		-0.03		
IM U.S. Mid Cap Core Equity (MF) Median	-16.00		-11.66		-16.00		-11.66		0.47		4.77		3.72		2.04		
Total Int'l Equity (Composite)	-15.04		-13.96		-15.04		-13.96		5.71		3.33		1.25		2.87		05/01/2007
Harding Loevner Intl Equity (HLMIX)	-15.04	(80)	-13.96	(29)	-15.04	(80)	-13.96	(29)	5.72	(34)	N/A		N/A		3.00	(47)	09/01/2016
MSCI AC World ex USA (Net)	-11.46	(44)	-14.20	(32)	-11.46	(44)	-14.20	(32)	4.47	(47)	4.48	(41)	0.68	(47)	3.80	(32)	
Difference	-3.58		0.24		-3.58		0.24		1.25		N/A		N/A		-0.80		
IM International Equity (MF) Median	-12.23		-16.01		-12.23		-16.01		4.13		3.52		0.50		2.82		



**Comparative Performance
Total Fund Trailing Returns**

As of December 31, 2018

	QTR	YTD	FYTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
Total Core Fixed Income	1.25	0.98	1.25	0.98	1.89	2.58	3.15	4.03	10/01/2005
Core Fixed Policy	1.64	0.01	1.64	0.01	1.76	2.06	2.52	3.89	
Difference	-0.39	0.97	-0.39	0.97	0.13	0.52	0.63	0.14	
Garcia Hamilton Fixed Income	1.25 (68)	0.97 (9)	1.25 (68)	0.97 (9)	N/A	N/A	N/A	0.97 (9)	01/01/2018
Blmbg. Barc. U.S. Aggregate Index	1.64 (24)	0.01 (62)	1.64 (24)	0.01 (62)	1.76 (86)	2.06 (85)	2.52 (84)	0.01 (62)	
Difference	-0.39	0.96	-0.39	0.96	N/A	N/A	N/A	0.96	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	1.40	0.07	1.40	0.07	2.04	2.48	2.86	0.07	
Total Non-Core Fixed Income	1.16	4.52	1.16	4.52	5.67	6.87	5.13	8.00	07/01/2010
Bloomberg Barclays Global Aggregate	1.20	-1.19	1.20	-1.19	3.01	2.70	1.08	2.16	
Difference	-0.04	5.71	-0.04	5.71	2.66	4.17	4.05	5.84	
Templeton Global Total Return (FTTRX)	2.26 (1)	2.08 (5)	2.26 (1)	2.08 (5)	2.65 (38)	4.65 (3)	1.94 (31)	3.33 (11)	07/01/2011
Blmbg. Barc. Global Multiverse	1.02 (23)	-1.36 (41)	1.02 (23)	-1.36 (41)	3.07 (22)	2.99 (37)	1.20 (53)	1.28 (65)	
Difference	1.24	3.44	1.24	3.44	-0.42	1.66	0.74	2.05	
IM Global Fixed Income (MF) Median	0.33	-1.76	0.33	-1.76	2.28	2.68	1.27	1.67	
Total Real Estate (Composite)	1.11	8.58	1.11	8.58	9.36	9.13	11.16	4.38	07/01/2007
American Core Realty	1.94 (35)	8.72 (50)	1.94 (35)	8.72 (50)	8.40 (50)	7.96 (74)	10.14 (69)	5.49 (69)	07/01/2007
NCREIF ODCE	1.62 (76)	8.25 (66)	1.62 (76)	8.25 (66)	8.02 (57)	8.44 (52)	10.52 (63)	5.48 (71)	
Difference	0.32	0.47	0.32	0.47	0.38	-0.48	-0.38	0.01	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.80	8.71	1.80	8.71	8.39	8.66	10.82	5.78	
Total Timber (Composite)	-0.21	-0.94	-0.21	-0.94	-4.73	-2.88	0.94	2.56	07/01/2007
Molpus Woodlands Timber	0.00	0.03	0.00	0.03	-1.30	-0.51	1.38	2.32	06/01/2008
NCREIF Timberland Index	0.97	3.44	0.97	3.44	3.53	3.22	4.98	4.01	
Difference	-0.97	-3.41	-0.97	-3.41	-4.83	-3.73	-3.60	-1.69	
Alternatives									
Westwood Income Opportunity Fund (WHGIX)	-6.31 (34)	-4.87 (26)	-6.31 (34)	-4.87 (26)	2.74 (37)	4.02 (44)	3.66 (24)	3.92 (24)	11/01/2013
Alternatives Policy	-6.05 (31)	-1.90 (7)	-6.05 (31)	-1.90 (7)	5.00 (9)	5.78 (12)	5.33 (7)	5.41 (7)	
Difference	-0.26	-2.97	-0.26	-2.97	-2.26	-1.76	-1.67	-1.49	
IM Flexible Portfolio (MF) Median	-7.65	-6.95	-7.65	-6.95	2.17	3.65	2.51	2.79	

^ Some products shown on IRR page.



As of December 31, 2018

Comparative Performance - IRR			
	QTR	Inception	Inception Date
Molpus Woodlands Timber	0.00	2.02	06/24/2008
Angelo Gordon Net Lease Realty Fund III, L.P.	0.00	6.55	03/10/2014
Dune Real Estate Fund III	0.00	13.26	11/06/2014
Crescent Direct Lending Levered Fund	0.00	7.54	10/09/2014



Comparative Performance
Total Fund Trailing Returns
As of December 31, 2018

Comparative Performance																		
	FYTD		Oct-2017 To Sep-2018		Oct-2016 To Sep-2017		Oct-2015 To Sep-2016		Oct-2014 To Sep-2015		Oct-2013 To Sep-2014		Oct-2012 To Sep-2013		Oct-2011 To Sep-2012		Oct-2010 To Sep-2011	
Total Fund (Net)	-8.40	(64)	8.29	(11)	11.09	(29)	8.82	(49)	-1.22	(27)	10.01	(27)	10.96	(41)	16.79	(50)	1.26	(19)
Total Fund Policy	-7.65	(51)	8.59	(10)	11.90	(17)	10.34	(20)	0.55	(5)	10.23	(24)	10.24	(51)	15.21	(75)	2.15	(12)
Difference	-0.75		-0.30		-0.81		-1.52		-1.77		-0.22		0.72		1.58		-0.89	
IM Mixed-Asset Target Alloc Moderate (MF) Median	-7.59		4.97		9.96		8.77		-2.40		8.33		10.26		16.77		-0.57	
Total Fund (Gross)	-8.32	(52)	8.66	(41)	11.49	(65)	9.41	(58)	-0.72	(55)	10.58	(42)	11.52	(70)	17.35	(60)	1.61	(22)
Total Fund Policy	-7.65	(36)	8.59	(43)	11.90	(56)	10.34	(27)	0.55	(27)	10.23	(51)	10.24	(82)	15.21	(86)	2.15	(15)
Difference	-0.67		0.07		-0.41		-0.93		-1.27		0.35		1.28		2.14		-0.54	
All Public Plans-Total Fund Median	-8.30		8.14		12.19		9.66		-0.45		10.24		12.51		17.94		0.29	
Total Equity	-14.26		13.13		16.40		11.59		-3.61		13.96		21.06		25.94		-0.85	
Total Equity Policy	-13.67		13.60		18.94		13.34		-6.20		11.73		19.62		22.72		-4.71	
Difference	-0.59		-0.47		-2.54		-1.75		2.59		2.23		1.44		3.22		3.86	
Total Domestic Equity	-13.94	(35)	16.10	(45)	14.99	(78)	12.80	(35)	-1.73	(53)	17.23	(34)	22.56	(56)	27.44	(46)	3.01	(16)
Total Domestic Equity Policy	-14.43	(44)	17.73	(32)	18.62	(45)	14.77	(18)	-1.18	(47)	17.67	(29)	22.03	(60)	29.64	(25)	0.48	(32)
Difference	0.49		-1.63		-3.63		-1.97		-0.55		-0.44		0.53		-2.20		2.53	
IM U.S. All Cap Equity (SA+CF+MF) Median	-14.84		14.98		18.15		11.47		-1.47		15.76		23.35		26.95		-1.65	
Total Int'l Equity	-15.04	(85)	5.85	(14)	18.68	(69)	7.98	(50)	-8.63	(65)	6.07	(51)	16.67	(89)	21.58	(5)	-10.95	(70)
Total Int'l Policy	-11.46	(20)	1.76	(60)	19.61	(59)	9.26	(33)	-12.16	(90)	4.77	(64)	16.48	(90)	14.49	(82)	-10.81	(69)
Difference	-3.58		4.09		-0.93		-1.28		3.53		1.30		0.19		7.09		-0.14	
IM International Large Cap Core Equity (SA+CF) Median	-13.19		2.52		20.20		7.86		-7.08		6.09		22.61		17.31		-9.40	
Total Fixed Income	1.28	(26)	0.99	(13)	3.93	(19)	5.81	(48)	2.09	(44)	6.00	(22)	2.81	(8)	11.79	(14)	3.12	(76)
Total Fixed Policy	1.64	(9)	-1.22	(64)	0.07	(84)	5.19	(68)	2.94	(17)	3.96	(74)	-2.35	(90)	5.75	(84)	5.96	(9)
Difference	-0.36		2.21		3.86		0.62		-0.85		2.04		5.16		6.04		-2.84	
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	0.70		-0.91		1.29		5.72		1.82		4.74		-0.98		7.75		4.40	
Total Real Estate	1.11	(96)	10.10	(27)	9.82	(31)	9.06	(97)	14.70	(62)	12.33	(69)	8.10	(100)	13.00	(49)	14.11	(90)
NCREIF ODCE	1.62	(76)	8.82	(59)	7.81	(60)	10.62	(69)	14.71	(62)	12.39	(68)	12.47	(67)	11.77	(66)	18.03	(44)
Difference	-0.51		1.28		2.01		-1.56		-0.01		-0.06		-4.37		1.23		-3.92	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.80		9.04		8.29		11.32		15.45		12.78		13.18		12.90		16.96	
Total Timber	-0.21		-9.38		0.28		6.48		6.70		9.49		4.51		-5.86		3.87	
NCREIF Timberland Index	0.97		4.00		3.28		3.28		9.26		10.38		9.68		2.25		0.26	
Difference	-1.18		-13.38		-3.00		3.20		-2.56		-0.89		-5.17		-8.11		3.61	
Total Alternatives	-6.14		4.94		8.16		9.11		-3.68		6.84		-9.88		-8.55		-0.85	
Alternatives Policy	-6.05		8.07		9.04		10.41		1.08		7.55		-3.91		-2.59		1.58	
Difference	-0.09		-3.13		-0.88		-1.30		-4.76		-0.71		-5.97		-5.96		-2.43	



**Comparative Performance
Total Fund Trailing Returns**

As of December 31, 2018

	FYTD	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Total Domestic Equity (Composite)	-13.94	16.10	14.99	12.80	-1.73	17.23	22.56	27.44	3.01
Macquarie (Delaware Value)	N/A	N/A	12.49 (89)	19.29 (10)	-3.67 (57)	21.59 (17)	24.74 (40)	29.80 (34)	6.36 (7)
Russell 1000 Value Index	-11.72 (29)	9.45 (77)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)
Difference	N/A	N/A	-2.63	3.10	0.75	2.70	2.44	-1.12	8.25
IM U.S. Large Cap Value Equity (SA+CF) Median	-13.57	11.80	17.91	13.17	-3.28	18.36	23.73	28.16	-0.97
Boston LCV	-13.85 (56)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index	-11.72 (29)	9.45 (77)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)
Difference	-2.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Value Equity (SA+CF) Median	-13.57	11.80	17.91	13.17	-3.28	18.36	23.73	28.16	-0.97
Total Growth	-11.15 (4)	22.19 (74)	14.70 (95)	7.63 (88)	4.20 (36)	18.19 (40)	18.74 (62)	29.37 (34)	8.43 (2)
Russell 1000 Growth Index	-15.89 (55)	26.30 (38)	21.94 (30)	13.76 (19)	3.17 (49)	19.15 (28)	19.27 (56)	29.19 (36)	3.78 (22)
Difference	4.74	-4.11	-7.24	-6.13	1.03	-0.96	-0.53	0.18	4.65
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	-15.67	24.92	20.25	11.15	3.08	17.23	19.75	27.43	0.78
Rhumblin R1000G	-15.87 (61)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	-15.89 (62)	26.30 (37)	21.94 (37)	13.76 (23)	3.17 (55)	19.15 (40)	19.27 (63)	29.19 (39)	3.78 (30)
Difference	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median	-15.14	24.42	20.81	11.64	3.60	18.18	20.25	27.65	1.38
Sawgrass Large Cap Growth	4.72 (1)	21.72 (66)	14.70 (92)	7.63 (87)	4.20 (40)	18.19 (50)	18.74 (69)	29.37 (38)	N/A
Russell 1000 Growth Index	-15.89 (62)	26.30 (37)	21.94 (37)	13.76 (23)	3.17 (55)	19.15 (40)	19.27 (63)	29.19 (39)	3.78 (30)
Difference	20.61	-4.58	-7.24	-6.13	1.03	-0.96	-0.53	0.18	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median	-15.14	24.42	20.81	11.64	3.60	18.18	20.25	27.65	1.38
Polen Capital LCG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	-15.89 (62)	26.30 (37)	21.94 (37)	13.76 (23)	3.17 (55)	19.15 (40)	19.27 (63)	29.19 (39)	3.78 (30)
Difference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median	-15.14	24.42	20.81	11.64	3.60	18.18	20.25	27.65	1.38
Lazard SMid Cap Core	-18.89 (67)	13.70 (69)	20.53 (23)	10.26 (88)	4.02 (40)	11.99 (36)	31.12 (33)	30.14 (51)	-9.00 (97)
Russell 2500 Index	-18.49 (62)	16.19 (57)	17.79 (71)	14.44 (35)	0.38 (74)	8.97 (72)	29.79 (58)	30.93 (41)	-2.22 (71)
Difference	-0.40	-2.49	2.74	-4.18	3.64	3.02	1.33	-0.79	-6.78
IM U.S. SMID Cap Core Equity (SA+CF) Median	-18.23	16.29	18.86	12.61	2.28	11.29	30.27	30.15	-0.86
Vanguard Mid-Cap Index (VIMAX)	-15.46 (43)	13.42 (27)	15.30 (48)	12.63 (41)	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Mid Cap TR Index	-15.46 (43)	13.44 (27)	15.33 (47)	12.68 (39)	1.76 (20)	15.94 (14)	28.08 (39)	26.23 (51)	-0.18 (20)
Difference	0.00	-0.02	-0.03	-0.05	N/A	N/A	N/A	N/A	N/A
IM U.S. Mid Cap Core Equity (MF) Median	-16.00	10.29	15.23	11.89	-1.44	12.51	27.42	26.27	-4.00
Total Int'l Equity (Composite)	-15.04	5.85	18.68	7.98	-8.63	6.07	16.67	21.58	-10.95



Comparative Performance
Total Fund Trailing Returns
As of December 31, 2018

	FYTD		Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Harding Loevner Intl Equity (HLMIX)	-15.04	(80)	5.85 (10)	18.65 (58)	N/A	N/A	N/A	N/A	N/A	N/A
MSCI AC World ex USA (Net)	-11.46	(44)	1.76 (34)	19.61 (48)	9.26 (51)	-12.16 (64)	4.77 (43)	16.48 (56)	14.49 (65)	-10.81 (38)
Difference	-3.58		4.09	-0.96	N/A	N/A	N/A	N/A	N/A	N/A
IM International Equity (MF) Median	-12.23		0.08	19.36	9.34	-8.75	4.27	17.81	16.20	-12.09



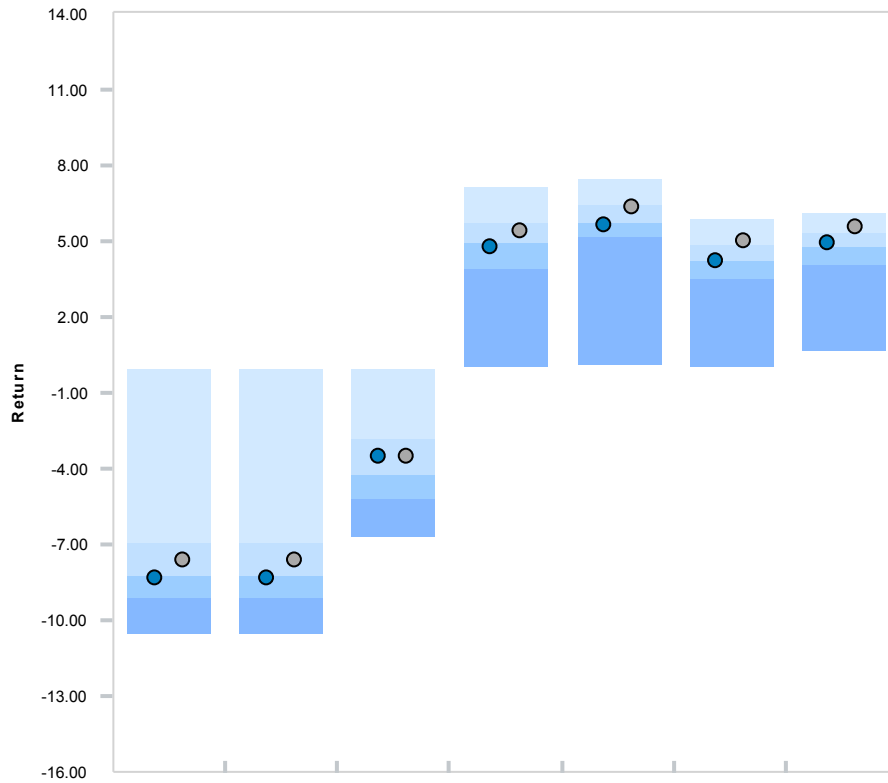
**Comparative Performance
Total Fund Trailing Returns**

As of December 31, 2018

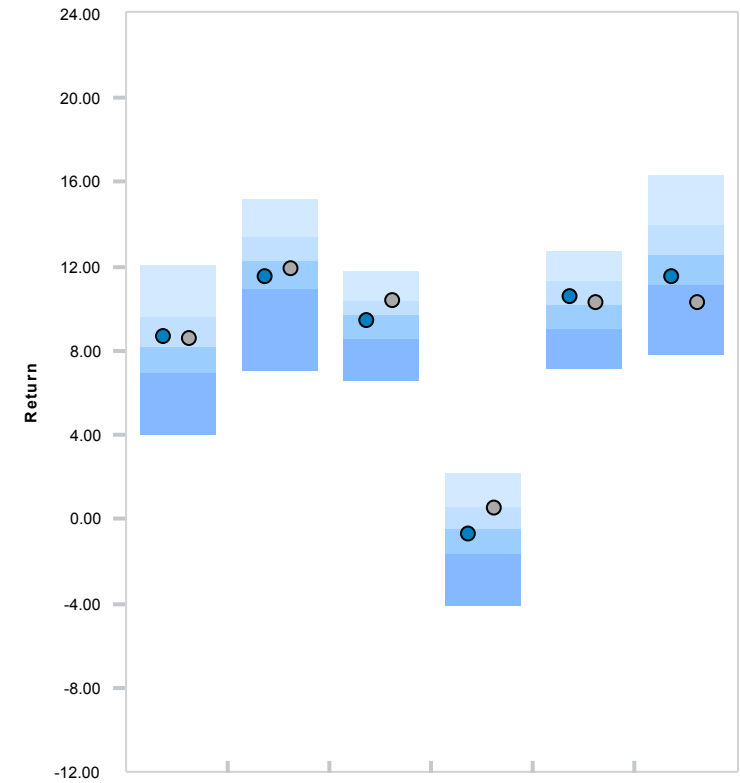
	FYTD	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Total Core Fixed Income	1.25	-0.67	0.82	5.78	3.88	4.40	-1.26	7.71	4.42
Core Fixed Policy	1.64	-1.22	0.07	5.19	2.94	3.96	-1.68	5.16	5.26
Difference	-0.39	0.55	0.75	0.59	0.94	0.44	0.42	2.55	-0.84
Garcia Hamilton Fixed Income	1.25 (68)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. Barc. U.S. Aggregate Index	1.64 (24)	-1.22 (89)	0.07 (87)	5.19 (80)	2.94 (60)	3.96 (81)	-1.68 (80)	5.16 (91)	5.26 (49)
Difference	-0.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	1.40	-0.73	0.62	5.67	3.02	4.52	-1.22	6.62	5.26
Mutual of America Core Fixed	N/A	N/A	0.82 (39)	5.78 (44)	3.88 (7)	4.43 (53)	-1.01 (39)	7.24 (38)	N/A
Blmbg. Barc. U.S. Aggregate Index	1.64 (24)	-1.22 (89)	0.07 (87)	5.19 (80)	2.94 (60)	3.96 (81)	-1.68 (80)	5.16 (91)	5.26 (49)
Difference	N/A	N/A	0.75	0.59	0.94	0.47	0.67	2.08	N/A
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	1.40	-0.73	0.62	5.67	3.02	4.52	-1.22	6.62	5.26
Total Non-Core Fixed Income	1.16	4.97	11.18	6.07	-2.56	9.33	11.74	24.76	-3.22
Bloomberg Barclays Global Aggregate	1.20	-1.31	-1.26	8.83	-3.26	1.19	-2.64	5.07	4.00
Difference	-0.04	6.28	12.44	-2.76	0.70	8.14	14.38	19.69	-7.22
Templeton Global Total Return (FTTRX)	2.26 (1)	-1.90 (66)	13.82 (1)	2.64 (94)	-8.23 (95)	5.71 (22)	5.29 (2)	15.90 (3)	N/A
Blmbg. Barc. Global Multiverse	1.02 (23)	-1.32 (52)	-0.56 (77)	9.23 (25)	-3.56 (42)	1.40 (79)	-2.22 (56)	5.57 (81)	3.85 (11)
Difference	1.24	-0.58	14.38	-6.59	-4.67	4.31	7.51	10.33	N/A
IM Global Fixed Income (MF) Median	0.33	-1.24	1.02	7.42	-3.85	3.37	-1.81	7.17	1.74
Total Real Estate (Composite)	1.11	10.10	9.82	9.06	14.70	12.33	8.10	13.00	14.11
American Core Realty	1.94 (35)	8.50 (66)	7.52 (67)	9.04 (97)	13.98 (69)	12.49 (64)	12.27 (70)	11.56 (68)	16.11 (65)
NCREIF ODCE	1.62 (76)	8.82 (59)	7.81 (60)	10.62 (69)	14.71 (62)	12.39 (68)	12.47 (67)	11.77 (66)	18.03 (44)
Difference	0.32	-0.32	-0.29	-1.58	-0.73	0.10	-0.20	-0.21	-1.92
IM U.S. Open End Private Real Estate (SA+CF) Median	1.80	9.04	8.29	11.32	15.45	12.78	13.18	12.90	16.96
Total Timber (Composite)	-0.21	-9.38	0.28	6.48	6.70	9.49	4.51	-5.86	3.87
Amsouth Timber Fund	-8.20	-15.26	-0.52	6.12	11.73	7.98	3.85	-1.33	2.00
NCREIF Timberland Index	0.97	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26
Difference	-9.17	-19.26	-3.80	2.84	2.47	-2.40	-5.83	-3.58	1.74
Molpus Woodlands Timber	0.00	-2.66	1.18	6.08	1.64	10.96	5.25	-10.32	5.68
NCREIF Timberland Index	0.97	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26
Difference	-0.97	-6.66	-2.10	2.80	-7.62	0.58	-4.43	-12.57	5.42
Alternatives									
Westwood Income Opportunity Fund (WHGIX)	-6.31 (34)	4.94 (36)	8.14 (60)	9.20 (40)	-3.83 (46)	N/A	N/A	N/A	N/A
Alternatives Policy	-6.05 (31)	8.07 (18)	9.04 (50)	10.41 (24)	1.08 (11)	7.55 (55)	-3.91 (95)	-2.59 (100)	1.58 (24)
Difference	-0.26	-3.13	-0.90	-1.21	-4.91	N/A	N/A	N/A	N/A
IM Flexible Portfolio (MF) Median	-7.65	3.38	9.02	8.55	-4.22	7.99	8.17	15.68	-0.87



Peer Group Analysis - All Public Plans-Total Fund



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Fund (Composite)	-8.32 (52)	-8.32 (52)	-3.56 (38)	4.78 (56)	5.61 (55)	4.23 (49)	4.91 (42)
● Total Fund Policy	-7.65 (36)	-7.65 (36)	-3.52 (37)	5.38 (35)	6.36 (27)	5.04 (20)	5.55 (17)
Median	-8.30	-8.30	-4.24	4.90	5.74	4.20	4.76



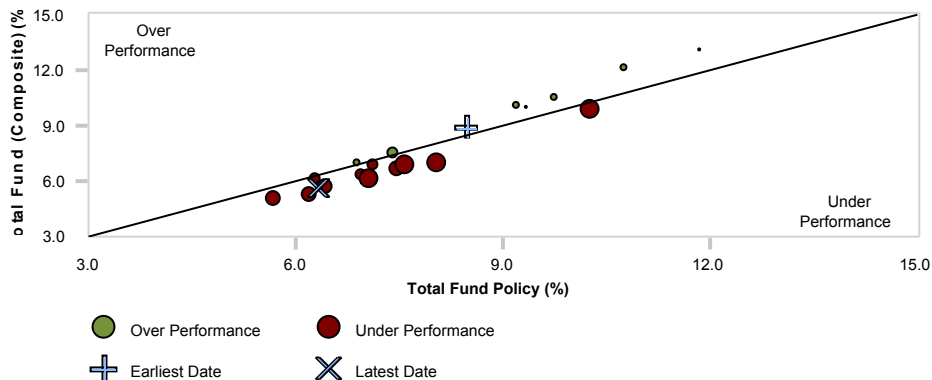
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Total Fund (Composite)	8.66 (41)	11.49 (65)	9.41 (58)	-0.72 (55)	10.58 (41)	11.52 (70)
● Total Fund Policy	8.59 (43)	11.90 (56)	10.34 (27)	0.55 (27)	10.23 (50)	10.24 (83)
Median	8.14	12.21	9.66	-0.45	10.21	12.51

Comparative Performance

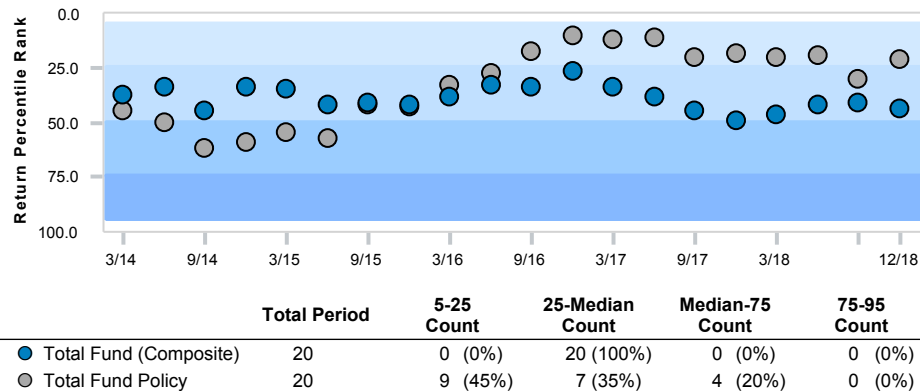
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Total Fund (Composite)	3.54 (32)	1.89 (27)	-0.29 (52)	3.29 (78)	3.21 (67)	2.43 (80)
Total Fund Policy	3.50 (33)	1.60 (42)	-0.65 (77)	3.94 (35)	3.39 (54)	2.81 (59)
All Public Plans-Total Fund Median	3.09	1.43	-0.27	3.71	3.43	2.93



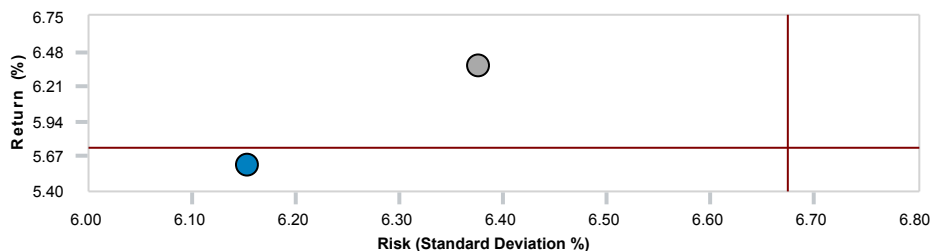
3 Yr Rolling Under/Over Performance - 5 Years



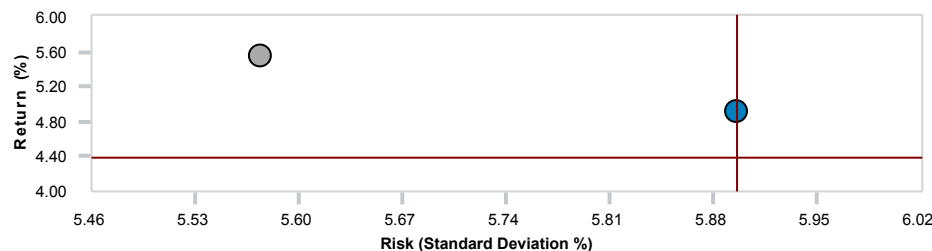
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

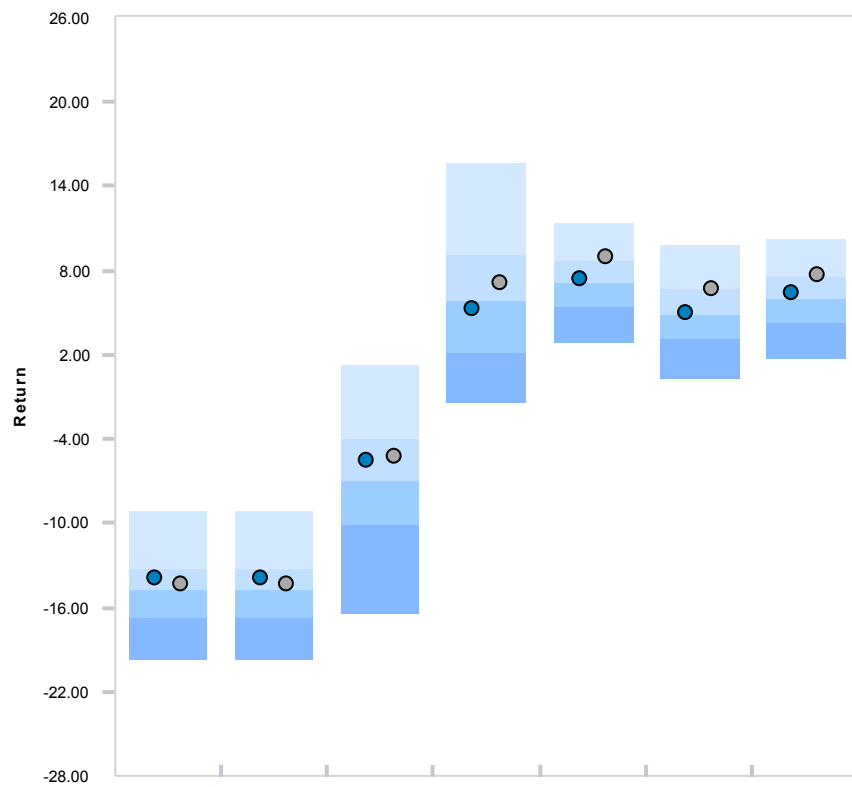
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	1.18	92.27	96.40	-0.40	-0.62	0.75	0.95	4.52
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.84	1.00	4.47

Historical Statistics - 5 Years

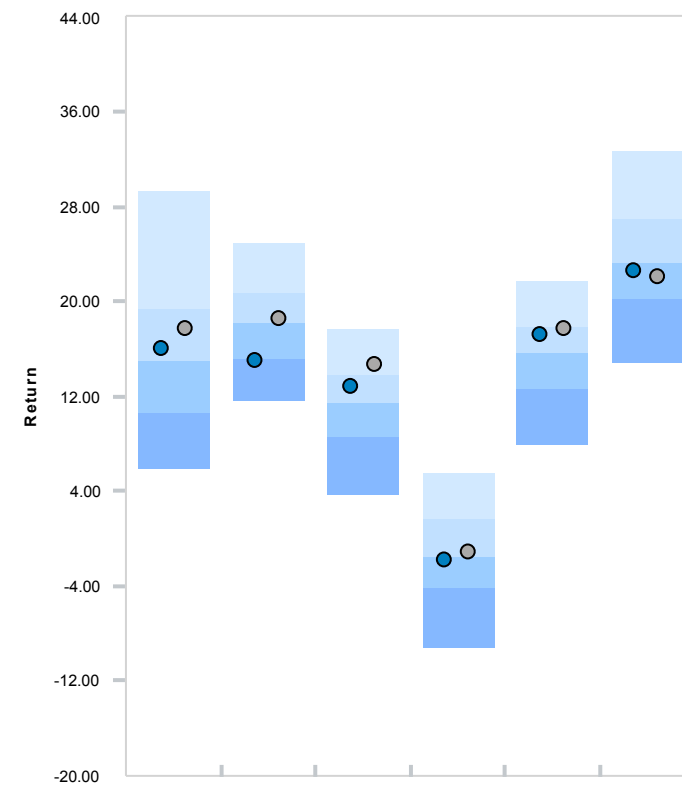
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	0.98	96.60	112.90	-0.84	-0.61	0.73	1.04	4.30
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.88	1.00	3.85



Peer Group Analysis - IM U.S. All Cap Equity (SA+CF+MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Domestic Equity	13.94 (35)	13.94 (35)	-5.51 (39)	5.28 (55)	7.38 (45)	5.01 (48)	6.37 (44)
● Total Domestic Equity Policy	14.43 (44)	14.43 (44)	-5.29 (37)	7.05 (41)	9.01 (21)	6.62 (26)	7.69 (24)
Median	14.84	14.84	-6.91	5.87	7.06	4.88	5.94



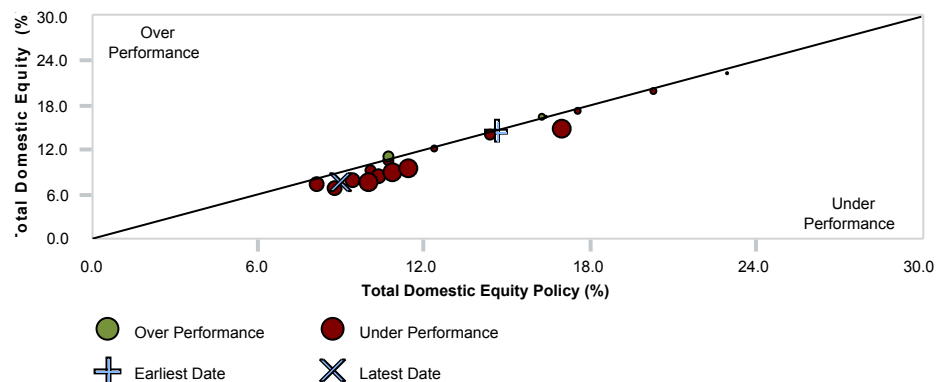
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Total Domestic Equity	16.10 (45)	14.99 (78)	12.80 (35)	-1.73 (53)	17.23 (34)	22.56 (56)
● Total Domestic Equity Policy	17.73 (32)	18.62 (45)	14.77 (18)	-1.18 (47)	17.67 (29)	22.03 (60)
Median	14.98	18.15	11.47	-1.47	15.76	23.35

Comparative Performance

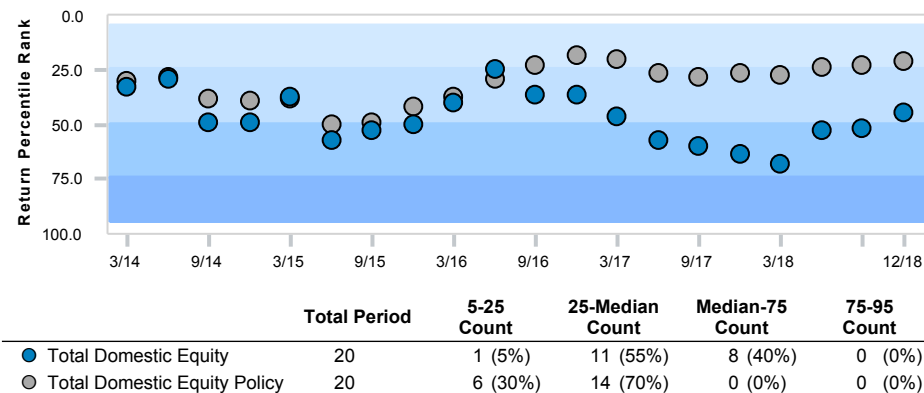
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Total Domestic Equity	6.44 (44)	4.44 (23)	-1.22 (66)	5.74 (56)	4.19 (55)	1.81 (75)
Total Domestic Equity Policy	7.06 (32)	4.11 (27)	-0.70 (56)	6.37 (40)	4.50 (47)	2.96 (52)
IM U.S. All Cap Equity (SA+CF+MF) Median	5.91	2.79	-0.51	5.99	4.35	3.00



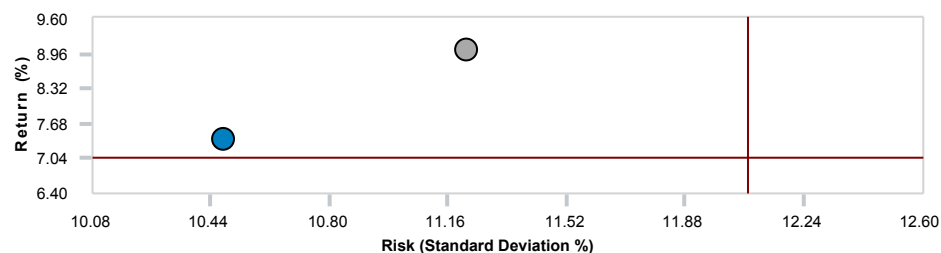
3 Yr Rolling Under/Over Performance - 5 Years



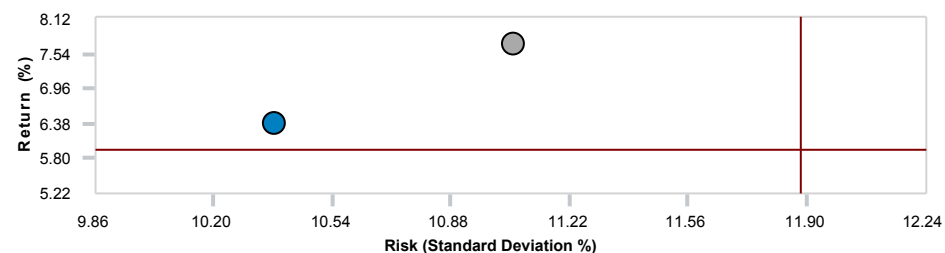
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

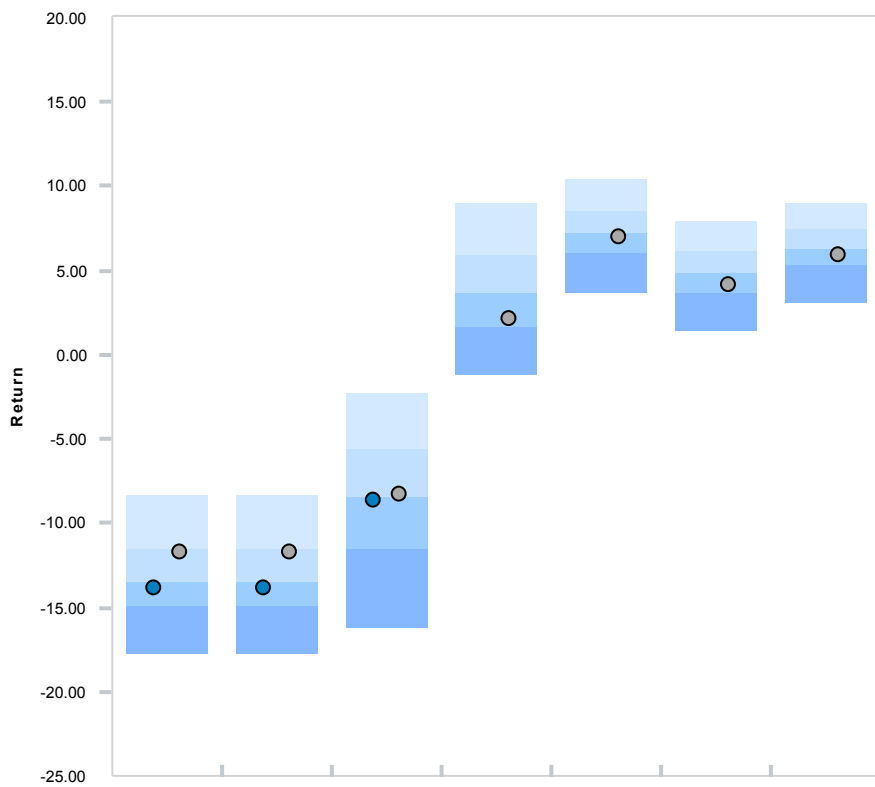
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Domestic Equity	2.16	87.65	92.02	-0.82	-0.74	0.64	0.92	7.79
Total Domestic Equity Policy	0.00	100.00	100.00	0.00	N/A	0.74	1.00	8.12

Historical Statistics - 5 Years

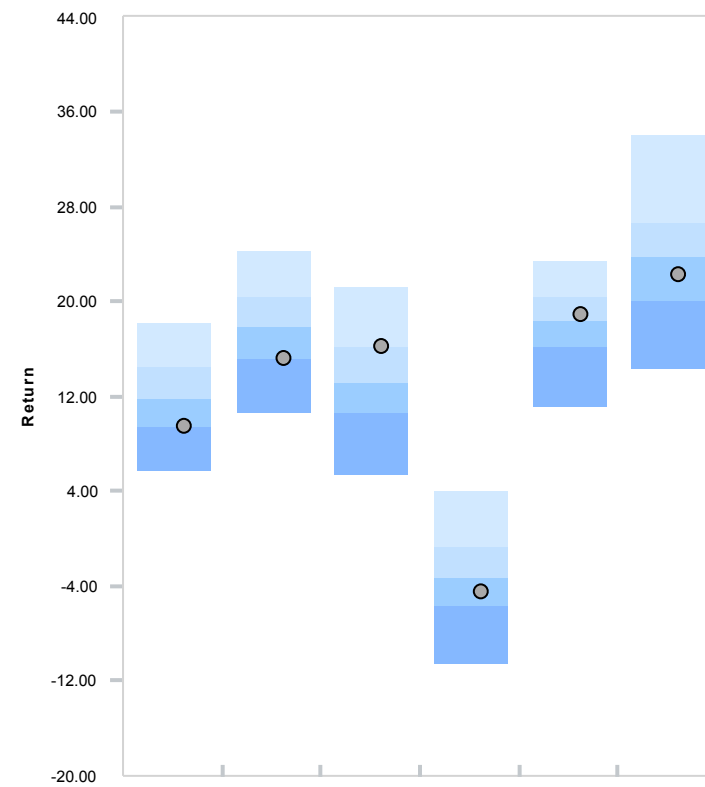
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Domestic Equity	2.06	89.49	93.80	-0.69	-0.64	0.59	0.92	7.22
Total Domestic Equity Policy	0.00	100.00	100.00	0.00	N/A	0.67	1.00	7.43



Peer Group Analysis - IM U.S. Large Cap Value Equity (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Boston LCV	-13.85 (56)	-13.85 (56)	-8.69 (54)	N/A	N/A	N/A	N/A
● Russell 1000 Value Index	-11.72 (29)	-11.72 (29)	-8.27 (49)	2.11 (70)	6.95 (56)	4.15 (65)	5.95 (61)
Median	-13.57	-13.57	-8.39	3.60	7.27	4.81	6.23



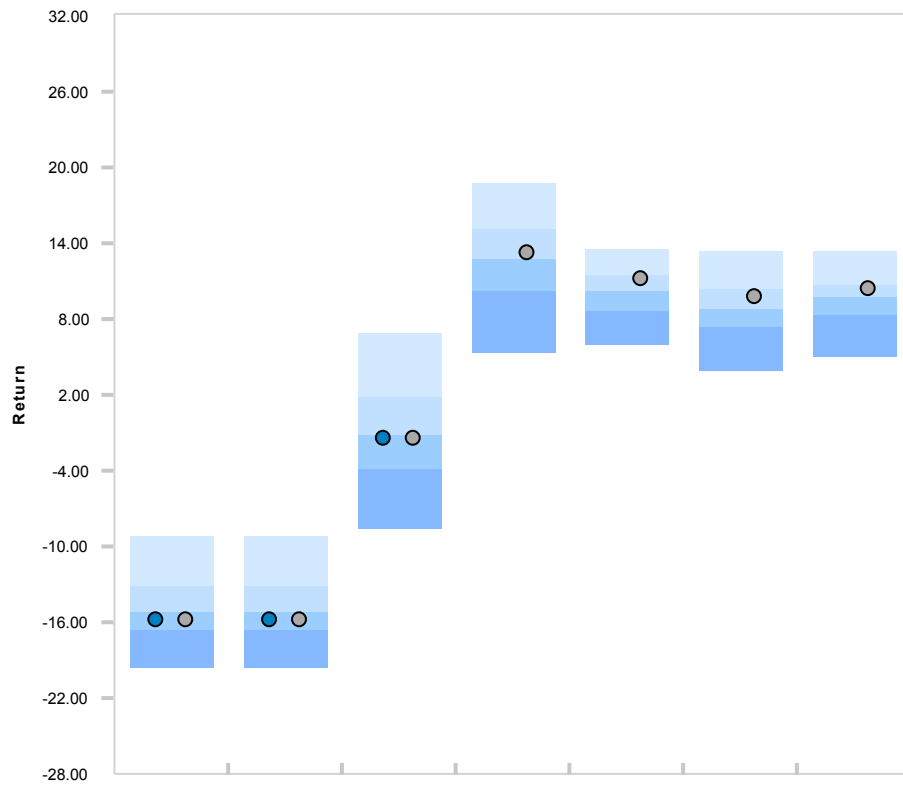
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Boston LCV	N/A	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Value Index	9.45 (77)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)
Median	11.80	17.91	13.17	-3.28	18.36	23.73

Comparative Performance

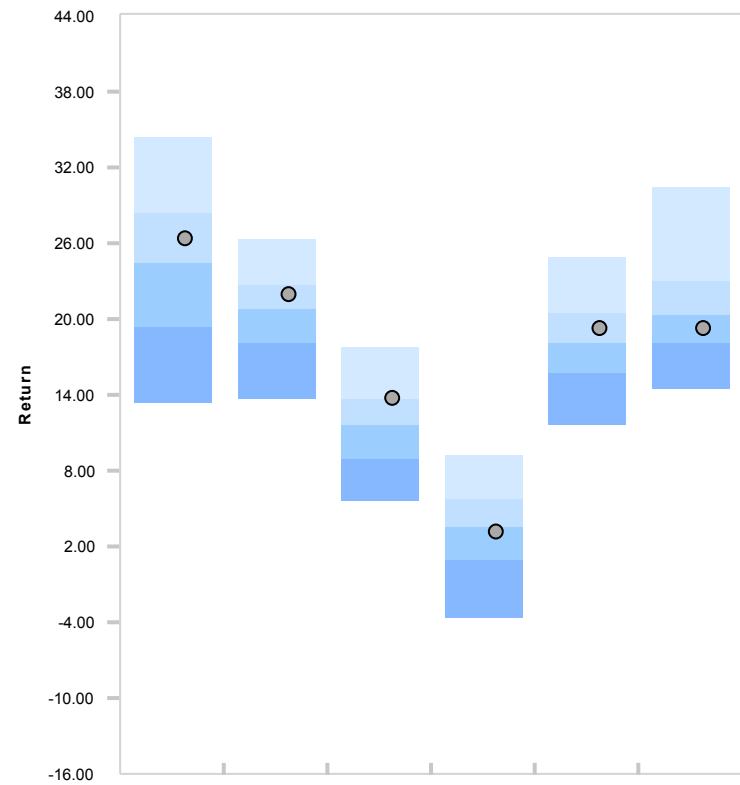
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Boston LCV	6.11 (39)	2.23 (35)	-2.29 (61)	N/A	N/A	N/A
Russell 1000 Value Index	5.70 (50)	1.18 (66)	-2.83 (75)	5.33 (76)	3.11 (80)	1.34 (73)
IM U.S. Large Cap Value Equity (SA+CF) Median	5.70	1.74	-1.97	6.31	4.09	2.06



Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Rhumblin R1000G	-15.87 (61)	-15.87 (61)	-1.51 (54)	N/A	N/A	N/A	N/A
● Russell 1000 Growth I	-15.89 (62)	-15.89 (62)	-1.51 (54)	13.24 (41)	11.15 (29)	9.75 (35)	10.40 (31)
Median	-15.14	-15.14	-1.17	12.74	10.19	8.80	9.66



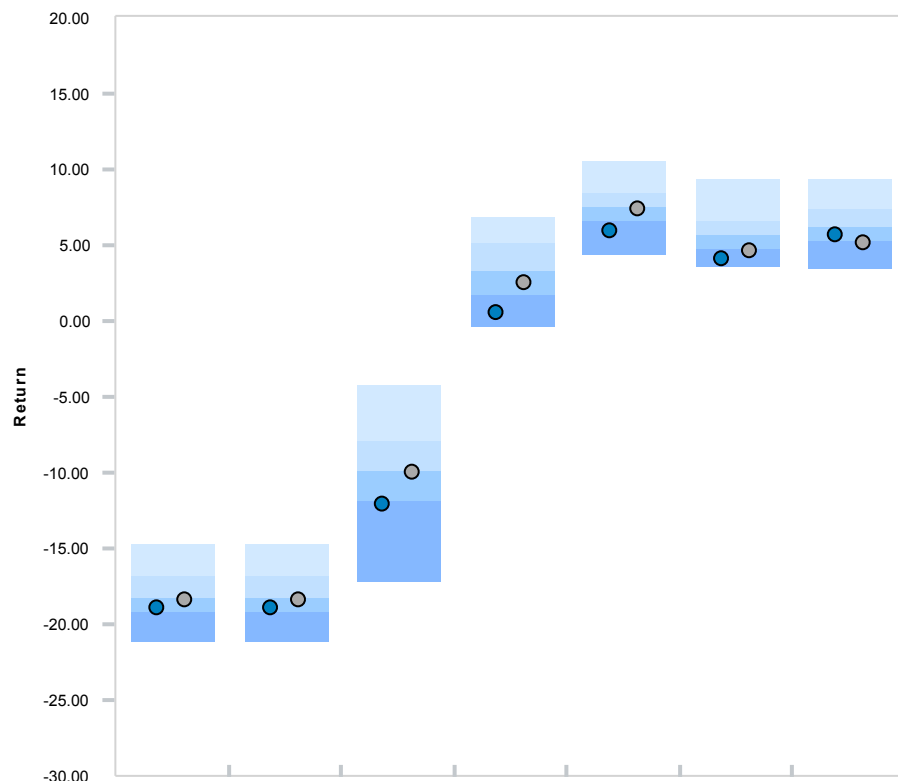
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Rhumblin R1000G	N/A	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Growth I	26.30 (37)	21.94 (37)	13.76 (23)	3.17 (55)	19.15 (40)	19.27 (63)
Median	24.42	20.81	11.64	3.60	18.18	20.25

Comparative Performance

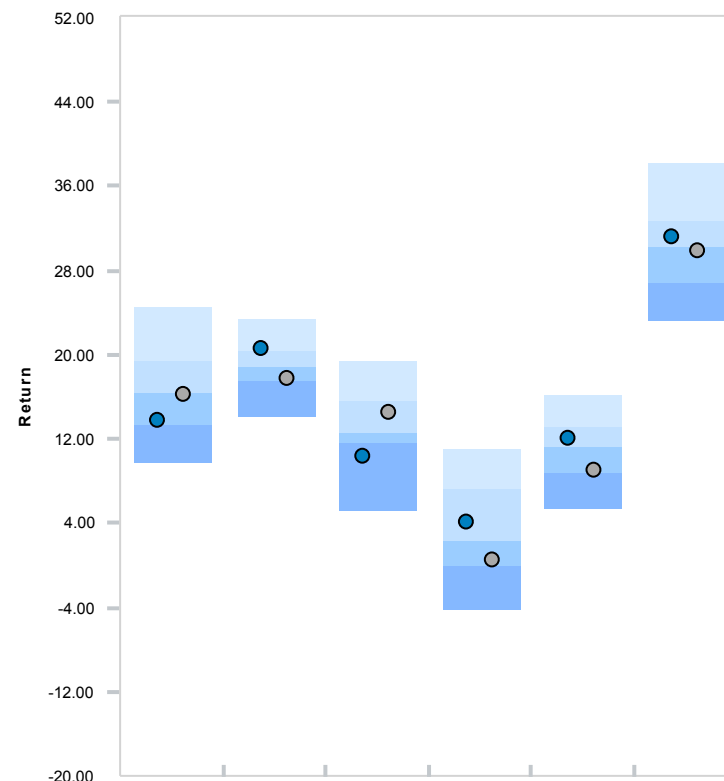
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Rhumblin R1000G	9.16 (23)	5.76 (42)	1.41 (61)	N/A	N/A	N/A
Russell 1000 Growth Index	9.17 (23)	5.76 (42)	1.42 (61)	7.86 (21)	5.90 (35)	4.67 (55)
IM U.S. Large Cap Growth Equity (SA+CF) Median	8.13	5.31	2.07	6.90	5.41	4.92



Peer Group Analysis - IM U.S. SMID Cap Core Equity (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Lazard SMid Cap Core	-18.89 (67)	-18.89 (67)	-12.14 (77)	0.50 (88)	5.86 (81)	4.03 (89)	5.64 (55)
● Russell 2500 Index	-18.49 (62)	-18.49 (62)	-10.00 (55)	2.53 (66)	7.32 (62)	4.67 (77)	5.15 (86)
Median	-18.23	-18.23	-9.85	3.30	7.54	5.71	6.14



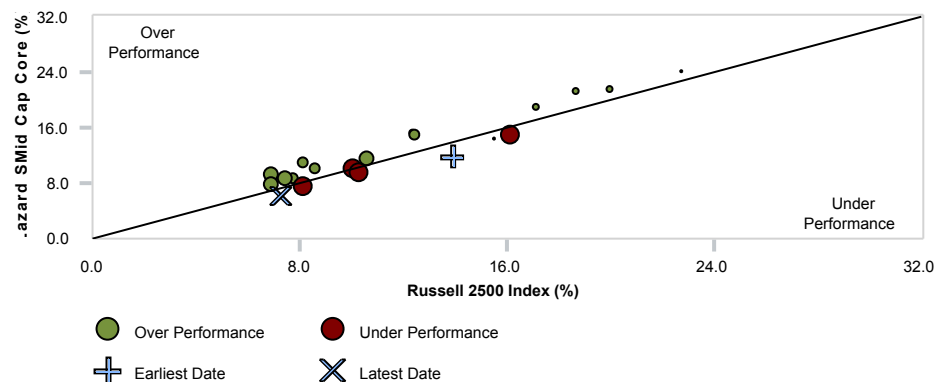
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Lazard SMid Cap Core	13.70 (69)	20.53 (23)	10.26 (88)	4.02 (40)	11.99 (36)	31.12 (33)
● Russell 2500 Index	16.19 (57)	17.79 (71)	14.44 (35)	0.38 (74)	8.97 (72)	29.79 (58)
Median	16.29	18.86	12.61	2.28	11.29	30.27

Comparative Performance

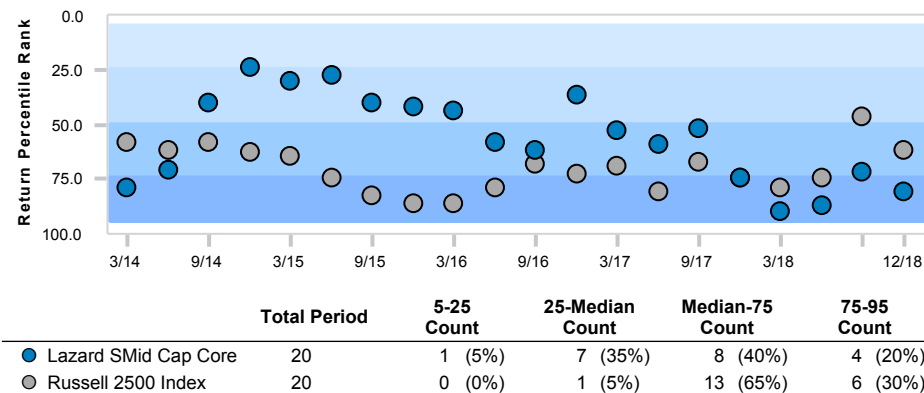
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Lazard SMid Cap Core	3.43 (75)	5.76 (29)	-0.98 (85)	4.98 (68)	4.40 (55)	3.33 (21)
Russell 2500 Index	4.70 (55)	5.71 (33)	-0.24 (65)	5.24 (56)	4.74 (48)	2.13 (73)
IM U.S. SMID Cap Core Equity (SA+CF) Median	4.80	4.67	0.17	5.46	4.72	2.41



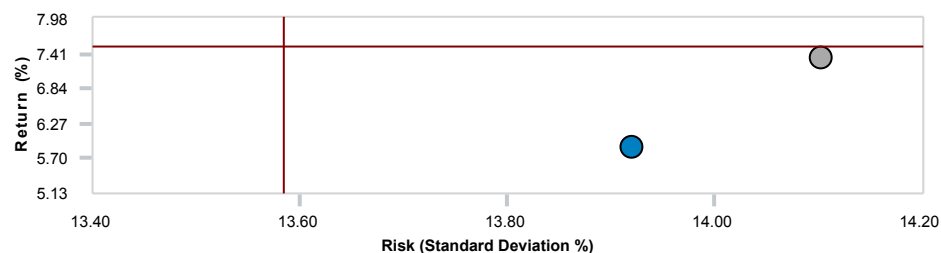
3 Yr Rolling Under/Over Performance - 5 Years



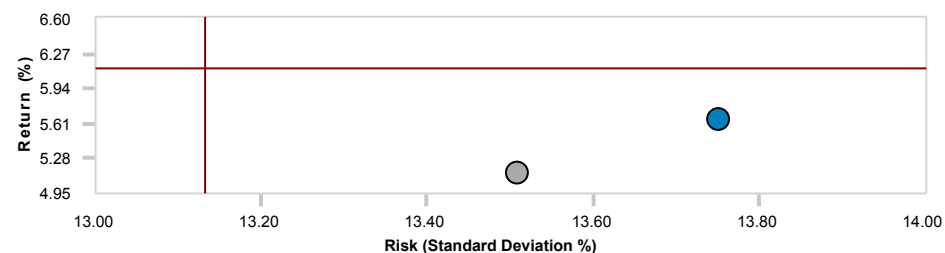
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

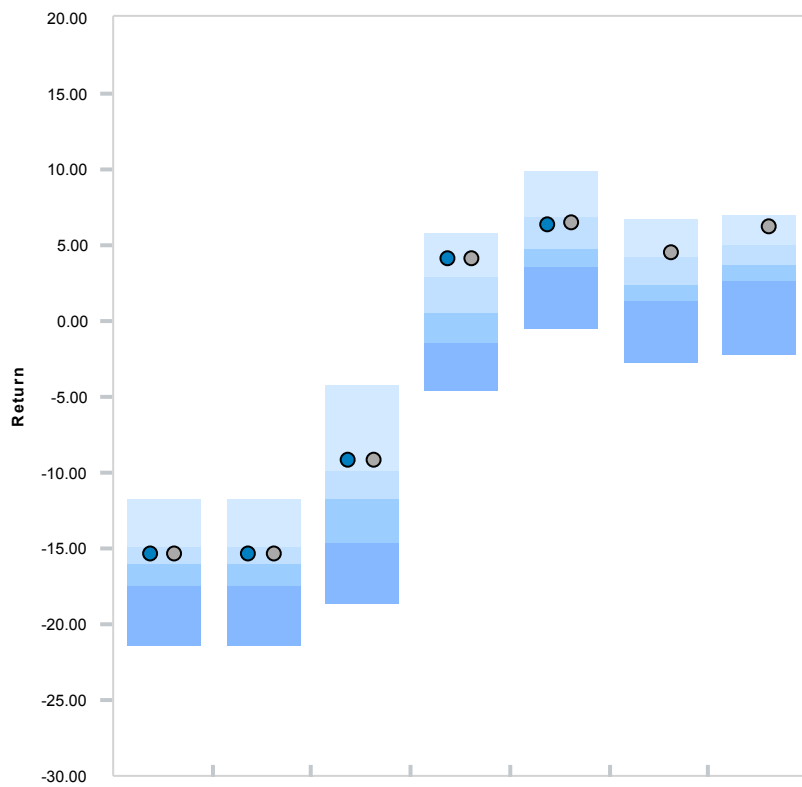
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Lazard SMid Cap Core	3.43	90.59	95.25	-1.05	-0.41	0.41	0.96	10.57
Russell 2500 Index	0.00	100.00	100.00	0.00	N/A	0.50	1.00	10.40

Historical Statistics - 5 Years

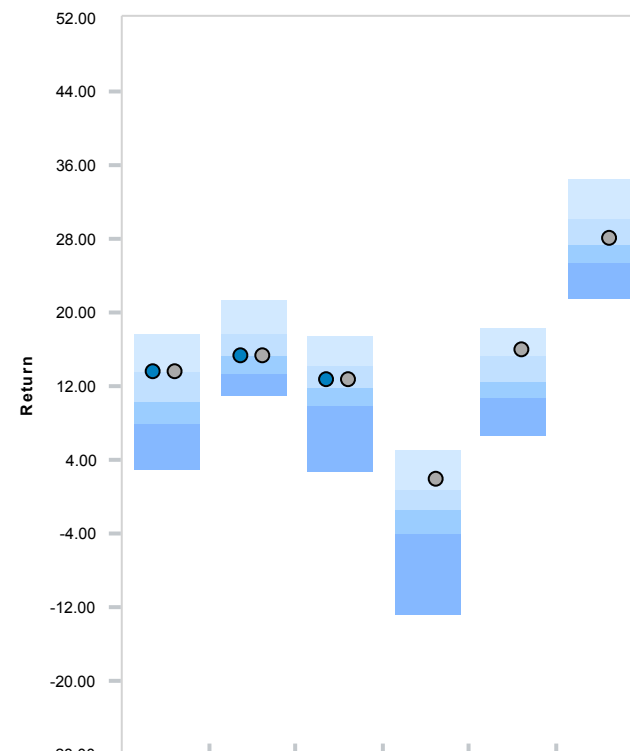
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Lazard SMid Cap Core	3.20	100.03	96.64	0.57	0.16	0.42	0.99	9.74
Russell 2500 Index	0.00	100.00	100.00	0.00	N/A	0.40	1.00	9.64



Peer Group Analysis - IM U.S. Mid Cap Core Equity (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Vanguard Mid-Cap Index (VIMAX)	15.46 (43)	15.46 (43)	-9.23 (21)	4.04 (16)	6.38 (32)	N/A	N/A
● CRSP U.S. Mid Cap TR Index	15.46 (43)	15.46 (43)	-9.22 (21)	4.06 (15)	6.40 (30)	4.43 (22)	6.24 (11)
Median	16.00	16.00	11.66	0.47	4.77	2.38	3.72



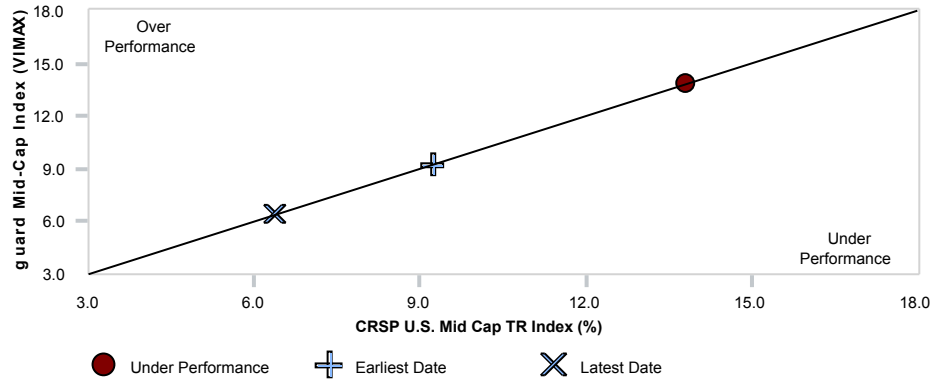
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Vanguard Mid-Cap Index (VIMAX)	3.42 (27)	5.30 (48)	2.63 (41)	N/A	N/A	N/A
● CRSP U.S. Mid Cap TR Index	3.44 (27)	5.33 (47)	2.68 (39)	1.76 (20)	5.94 (14)	8.08 (39)
Median	0.29	5.23	1.89	-1.44	2.51	7.42

Comparative Performance

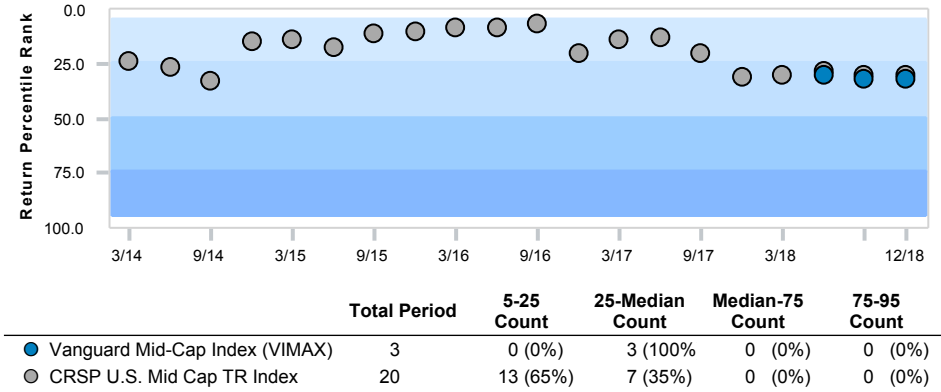
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Vanguard Mid-Cap Index (VIMAX)	4.66 (37)	2.57 (39)	0.01 (18)	5.64 (45)	3.43 (52)	2.77 (24)
CRSP U.S. Mid Cap TR Index	4.65 (38)	2.58 (38)	0.03 (18)	5.65 (44)	3.43 (52)	2.79 (23)
IM U.S. Mid Cap Core Equity (MF) Median	3.93	2.26	-1.36	5.46	3.44	1.78



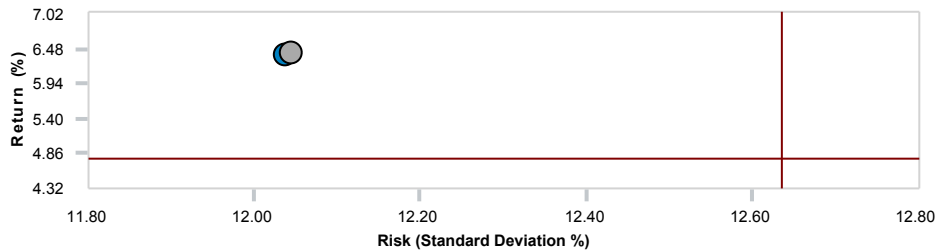
3 Yr Rolling Under/Over Performance - 5 Years



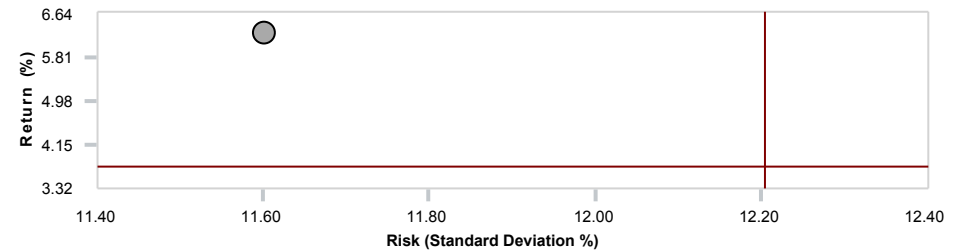
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Vanguard Mid-Cap Index (VIMAX)	0.03	99.86	100.01	-0.02	-1.06	0.49	1.00	9.13
CRSP U.S. Mid Cap TR Index	0.00	100.00	100.00	0.00	N/A	0.49	1.00	9.13

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Vanguard Mid-Cap Index (VIMAX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Mid Cap TR Index	0.00	100.00	100.00	0.00	N/A	0.53	1.00	8.08



Fund Information

Fund Name : Vanguard Index Funds: Vanguard Mid-Cap Index Fund; Admiral Shares
 Fund Family : Vanguard Group Inc
 Ticker : VIMAX
 Inception Date : 11/12/2001
 Fund Assets : \$38,595 Million
 Portfolio Turnover : 14%

Portfolio Assets : \$100,479 Million
 Portfolio Manager : Butler/Johnson
 PM Tenure : 2001--2016
 Fund Style : IM U.S. Mid Cap Core Equity (MF)
 Style Benchmark : CRSP U.S. Mid Cap TR Index

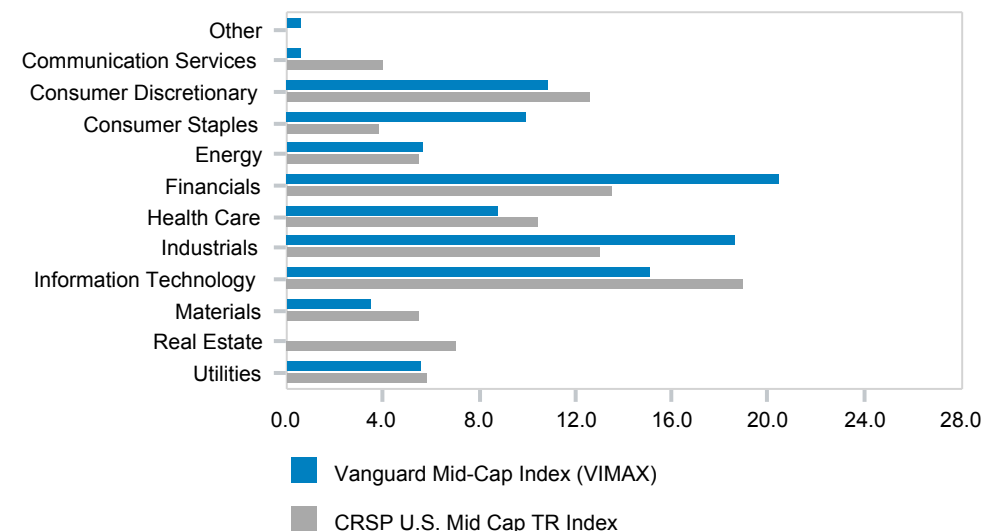
Portfolio Characteristics As of 11/30/2018

	Portfolio	Benchmark
Total Securities	367	363
Avg. Market Cap (\$)	15,563,374,757	11,976,887,700
Price/Earnings (P/E)	27.53	18.43
Price/Book (P/B)	5.21	2.86
Dividend Yield	2.43	1.67
Annual EPS	26.64	3.63
5 Yr EPS	10.18	12.71
3 Yr EPS Growth	9.09	N/A
Beta (3 Years, Monthly)	1.00	1.00

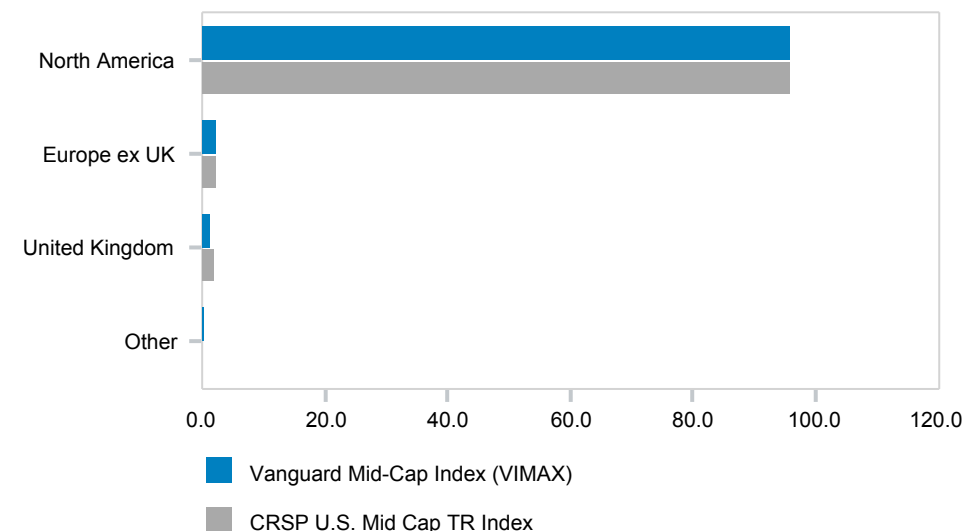
Top Ten Securities As of 11/30/2018

Edwards Lifesciences Corp ORD	0.8 %
Fiserv Inc ORD	0.8 %
Red Hat Inc ORD	0.8 %
Autodesk Inc ORD	0.8 %
Roper Technologies Inc ORD	0.8 %
Centene Corp ORD	0.7 %
Amphenol Corp ORD	0.7 %
Concho Resources Inc ORD	0.6 %
Moody's Corp ORD	0.6 %
Worldpay Inc ORD	0.6 %

Sector Weights As of 11/30/2018



Region Weights As of 11/30/2018



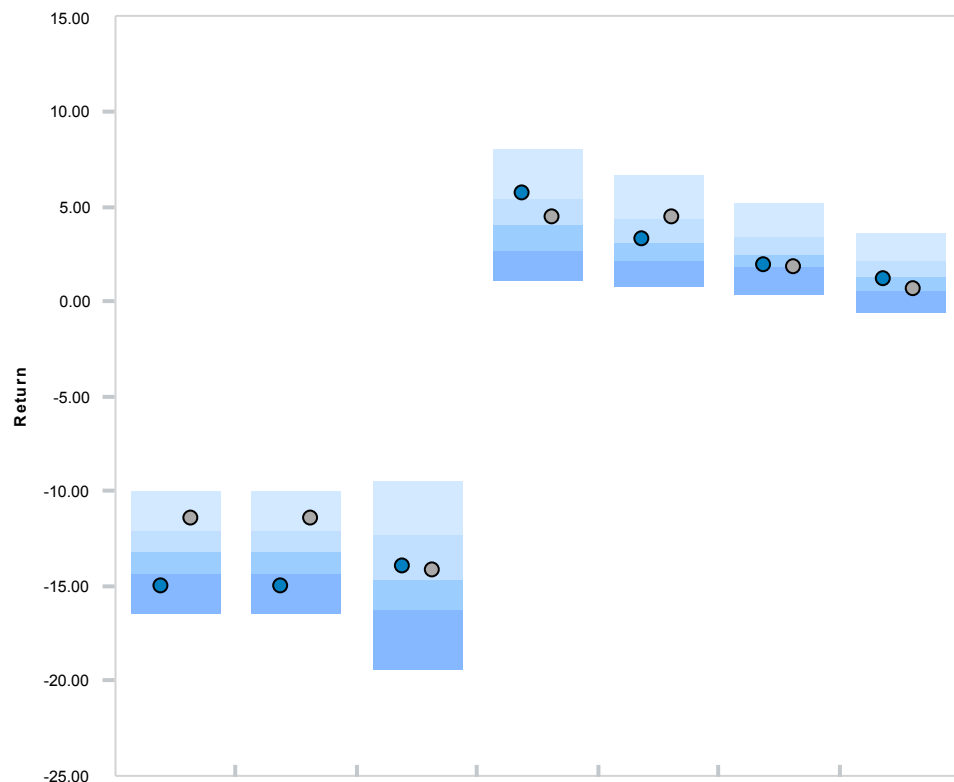
Statistics provided by Lipper. Most recent available data shown.



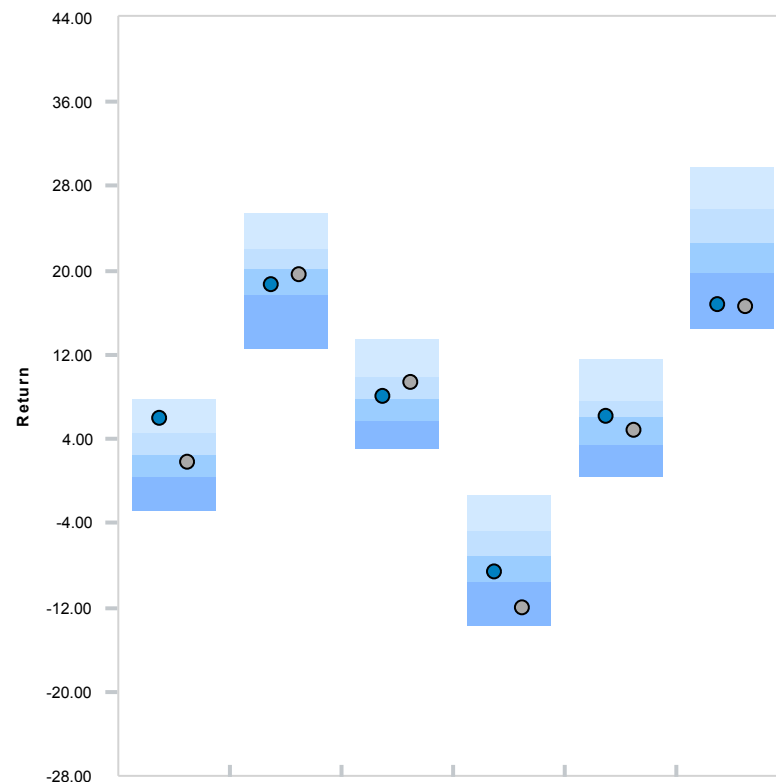
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Peer Group Analysis - IM International Large Cap Core Equity (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Int'l Equity	-15.04 (85)	-15.04 (85)	-13.96 (43)	5.71 (21)	3.33 (46)	1.90 (74)	1.25 (56)
○ Total Int'l Policy	-11.46 (20)	-11.46 (20)	-14.20 (47)	4.47 (45)	4.48 (24)	1.84 (74)	0.68 (72)
Median	-13.19	-13.19	-14.63	4.09	3.11	2.49	1.32



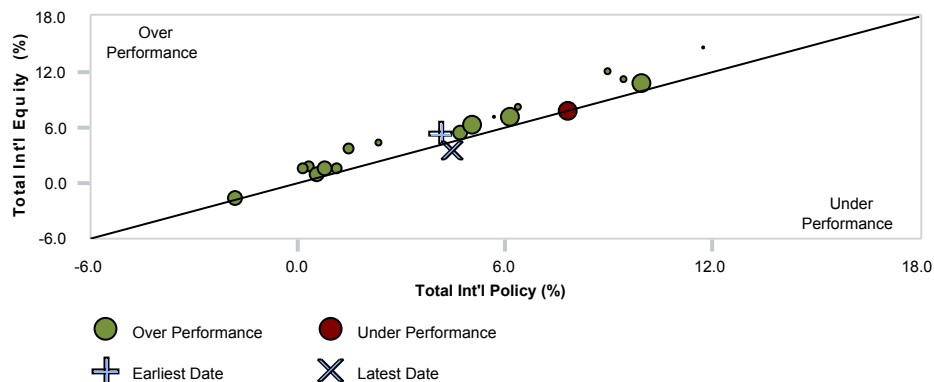
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Total Int'l Equity	5.85 (14)	18.68 (69)	7.98 (50)	-8.63 (65)	6.07 (51)	16.67 (89)
○ Total Int'l Policy	1.76 (60)	19.61 (59)	9.26 (33)	-12.16 (90)	4.77 (64)	16.48 (90)
Median	2.52	20.20	7.86	-7.08	6.09	22.61

Comparative Performance

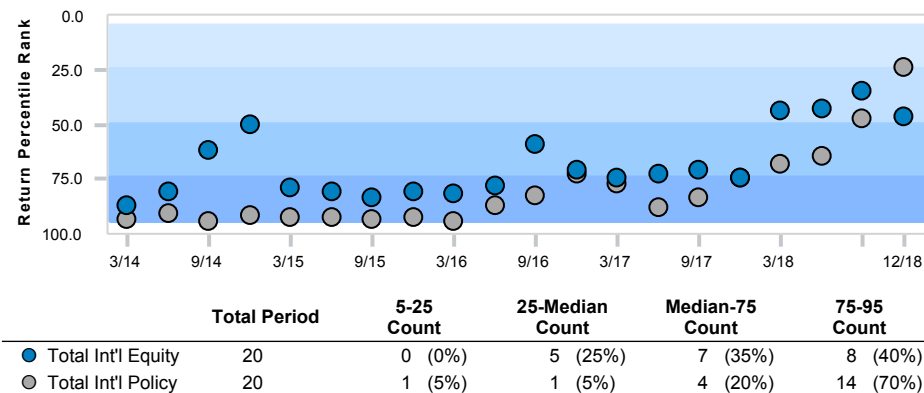
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Total Int'l Equity	1.67 (29)	-1.30 (42)	0.92 (10)	4.52 (35)	5.98 (49)	6.61 (50)
Total Int'l Policy	0.71 (62)	-2.61 (70)	-1.18 (60)	5.00 (23)	6.16 (44)	5.78 (80)
IM International Large Cap Core Equity (SA+CF) Median	1.01	-1.81	-0.85	4.25	5.93	6.60



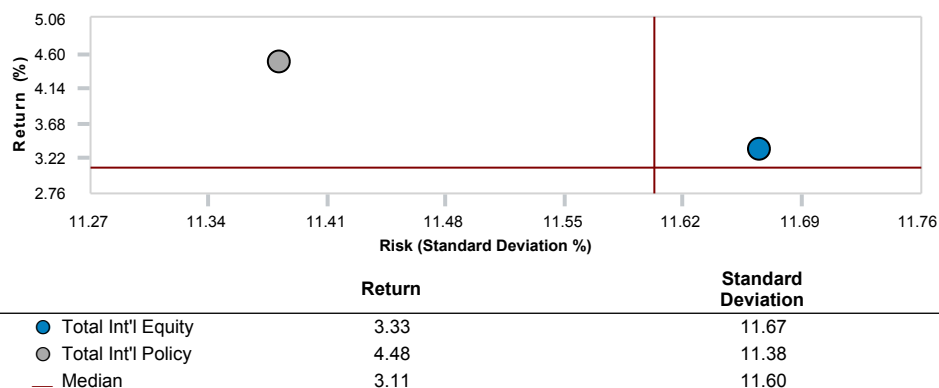
3 Yr Rolling Under/Over Performance - 5 Years



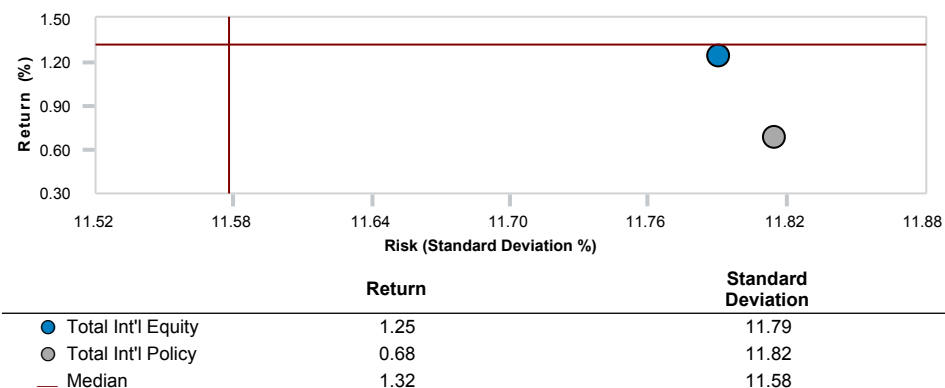
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

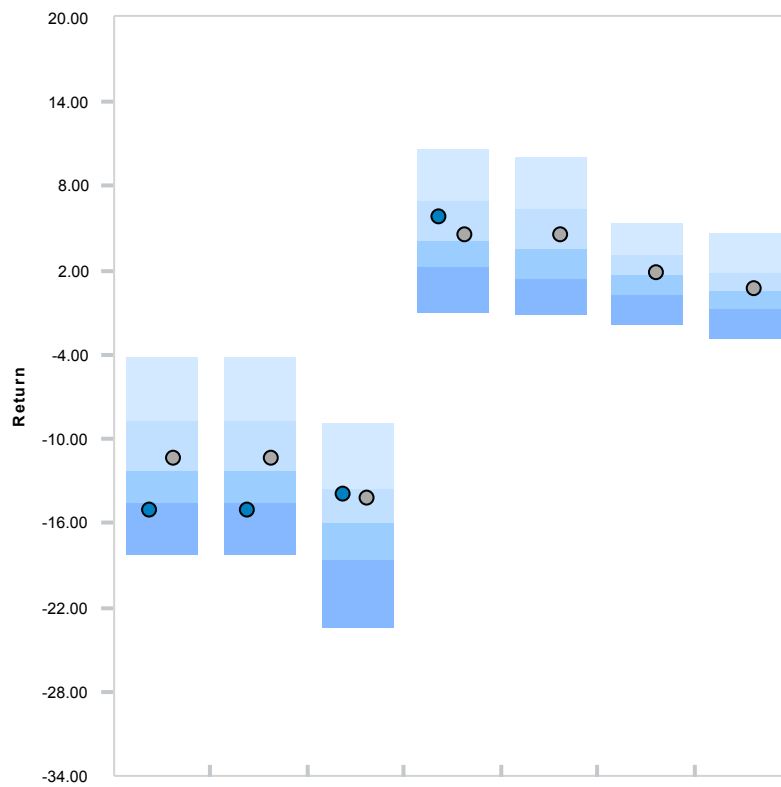
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity	4.27	90.98	95.50	-0.83	-0.25	0.26	0.95	8.62
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.35	1.00	7.86

Historical Statistics - 5 Years

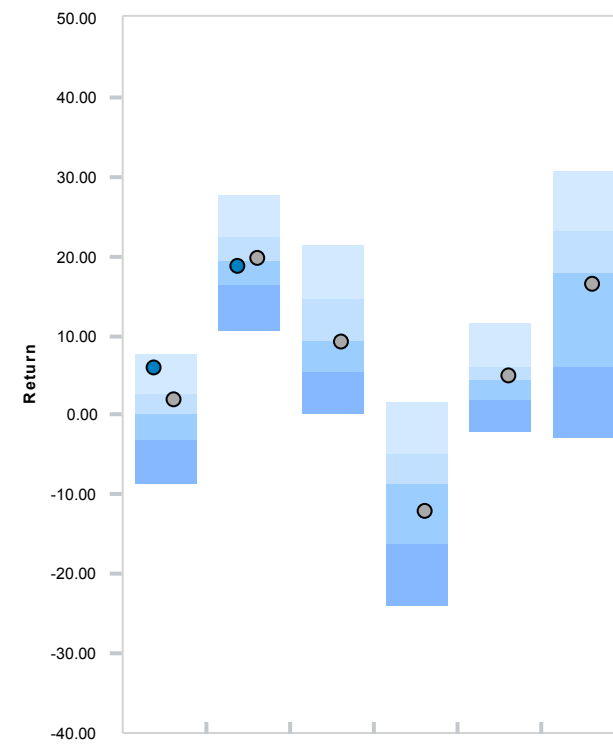
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity	3.79	94.95	90.87	0.64	0.15	0.11	0.95	8.49
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.06	1.00	8.31



Peer Group Analysis - IM International Equity (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Harding Loevner Intl Equity (HLMIX)	15.04 (80)	15.04 (80)	13.96 (29)	5.72 (34)	N/A	N/A	N/A
● MSCI AC World ex USA (Net)	11.46 (44)	11.46 (44)	14.20 (32)	4.47 (47)	4.48 (41)	1.84 (47)	0.68 (47)
Median	12.23	12.23	16.01	4.13	3.52	1.67	0.50



	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Harding Loevner Intl Equity (HLMIX)	5.85 (10)	8.65 (58)	N/A	N/A	N/A	N/A
● MSCI AC World ex USA (Net)	1.76 (34)	9.61 (48)	9.26 (51)	2.16 (64)	4.77 (43)	6.48 (56)
Median	0.08	9.36	9.34	8.75	4.27	7.81

Comparative Performance

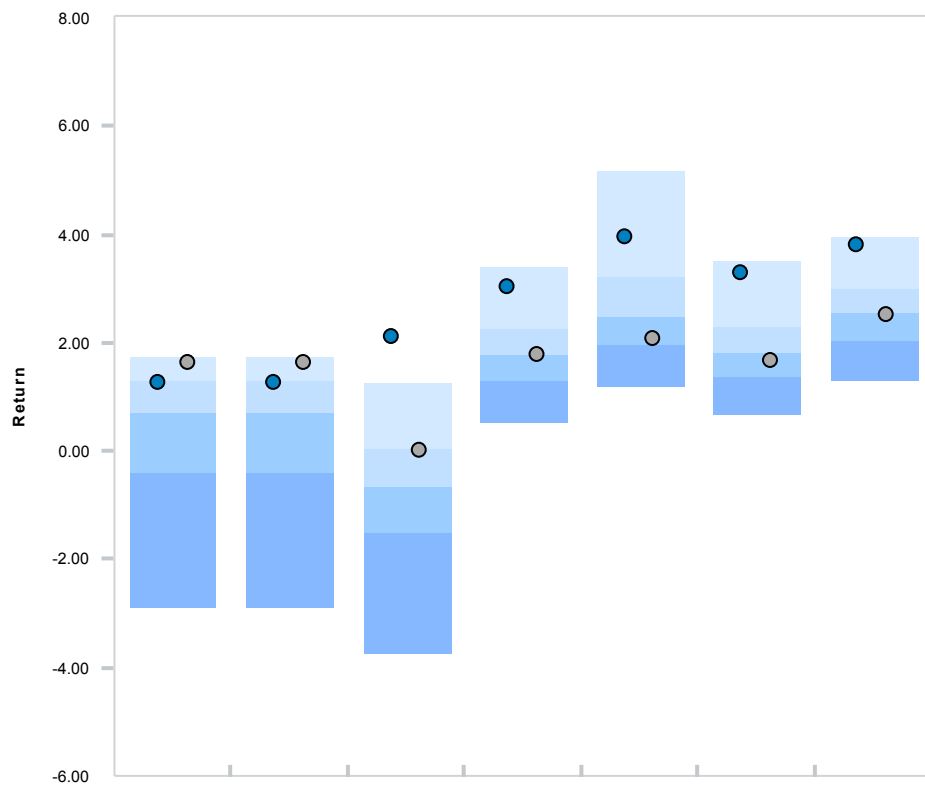
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Harding Loevner Intl Equity (HLMIX)	1.67 (13)	-1.30 (22)	0.92 (36)	4.52 (53)	5.98 (54)	6.63 (46)
MSCI AC World ex USA (Net)	0.71 (31)	-2.61 (41)	-1.18 (76)	5.00 (45)	6.16 (51)	5.78 (68)
IM International Equity (MF) Median	-0.27	-3.33	-0.07	4.67	6.19	6.42



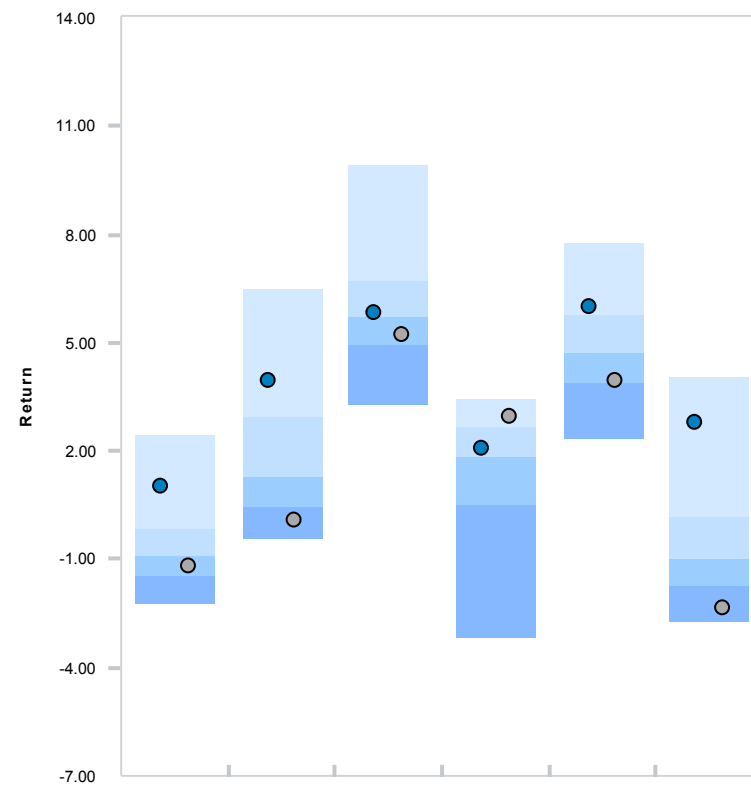
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Peer Group Analysis - IM U.S. Broad Market Fixed Income (SA+CF+MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Fixed Income	1.28 (26)	1.28 (26)	2.09 (3)	3.03 (8)	3.93 (15)	3.30 (7)	3.79 (6)
● Total Fixed Policy	1.64 (9)	1.64 (9)	0.01 (26)	1.76 (52)	2.06 (70)	1.68 (59)	2.52 (52)
Median	0.70	0.70	-0.64	1.78	2.48	1.82	2.54



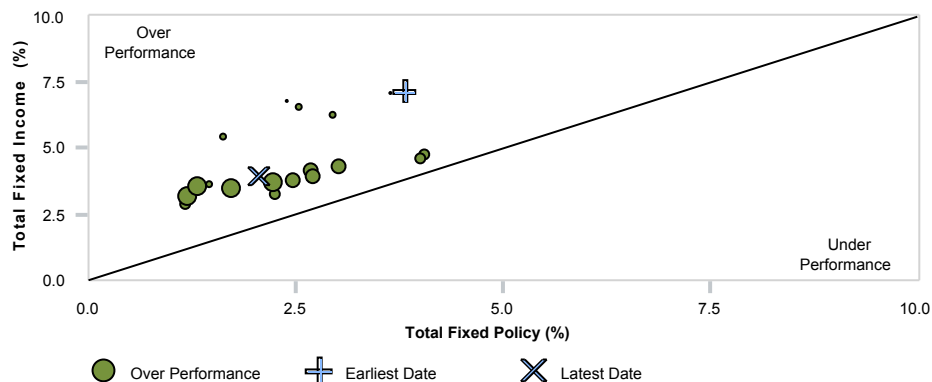
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Total Fixed Income	0.99 (13)	3.93 (19)	5.81 (48)	2.09 (44)	6.00 (22)	2.81 (8)
● Total Fixed Policy	-1.22 (64)	0.07 (84)	5.19 (68)	2.94 (17)	3.96 (74)	-2.35 (90)
Median	-0.91	1.29	5.72	1.82	4.74	-0.98

Comparative Performance

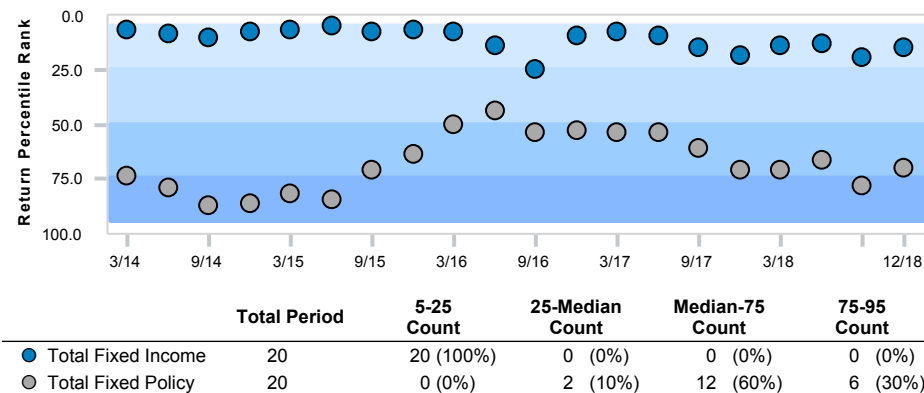
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Total Fixed Income	0.46 (35)	0.13 (15)	0.21 (5)	0.18 (82)	0.87 (66)	1.09 (93)
Total Fixed Policy	0.02 (79)	-0.16 (39)	-1.46 (65)	0.39 (59)	0.85 (69)	1.45 (65)
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	0.26	-0.24	-1.33	0.44	0.99	1.56



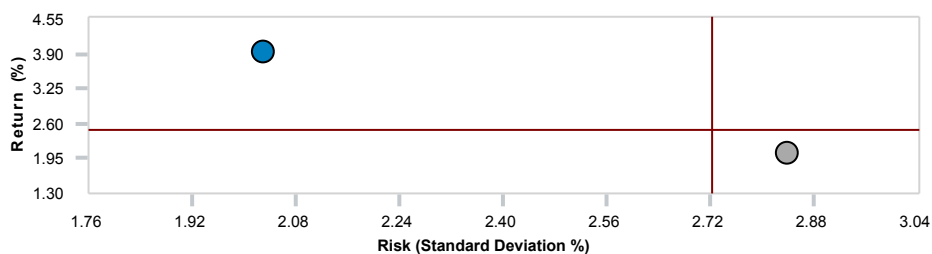
3 Yr Rolling Under/Over Performance - 5 Years



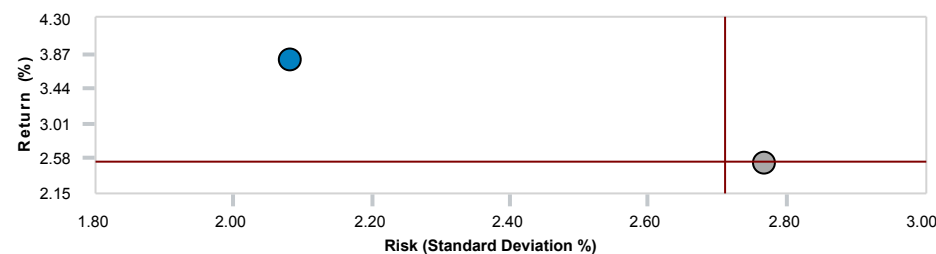
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

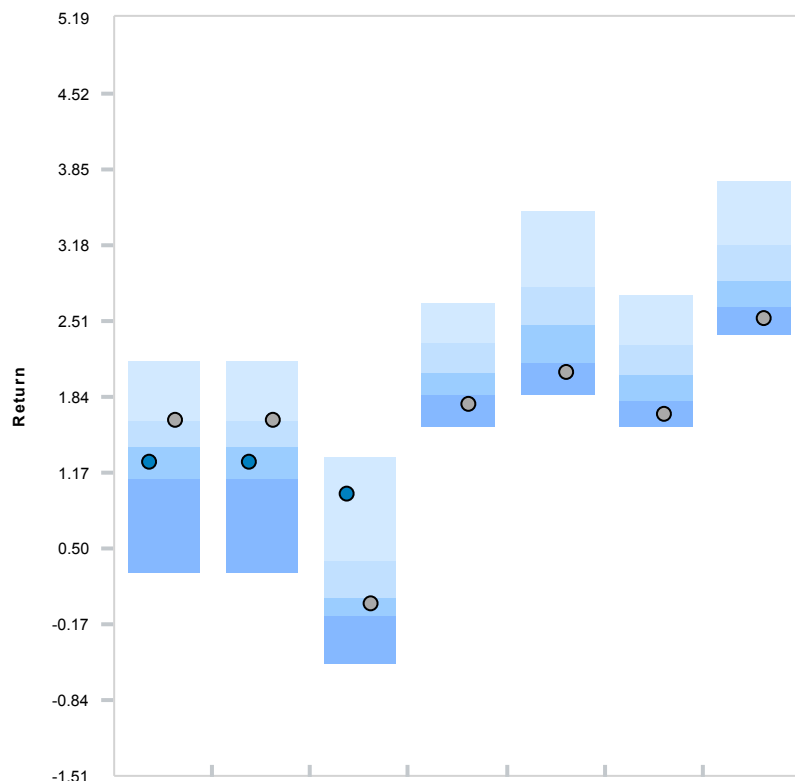
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income	1.97	81.14	3.18	2.85	0.92	1.41	0.52	0.90
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	0.38	1.00	1.85

Historical Statistics - 5 Years

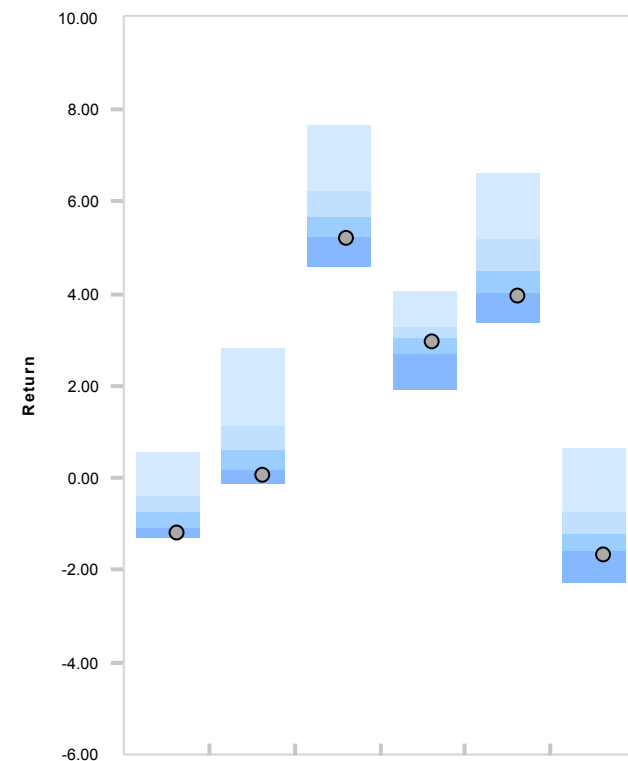
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income	1.72	83.11	19.42	2.28	0.71	1.49	0.59	0.93
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	0.69	1.00	1.63



Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Garcia Hamilton Fixed Income	1.25 (68)	1.25 (68)	0.97 (9)	N/A	N/A	N/A	N/A
● Blmbg. Barc. U.S. Aggregate Index	1.64 (24)	1.64 (24)	0.01 (62)	1.76 (86)	2.06 (85)	1.68 (88)	2.52 (84)
Median	1.40	1.40	0.07	2.04	2.48	2.04	2.86



	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Garcia Hamilton Fixed Income	N/A	N/A	N/A	N/A	N/A	N/A
● Blmbg. Barc. U.S. Aggregate Index	1.22 (89)	0.07 (87)	5.19 (80)	2.94 (60)	3.96 (81)	1.68 (80)
Median	0.73	0.62	5.67	3.02	4.52	1.22

Comparative Performance

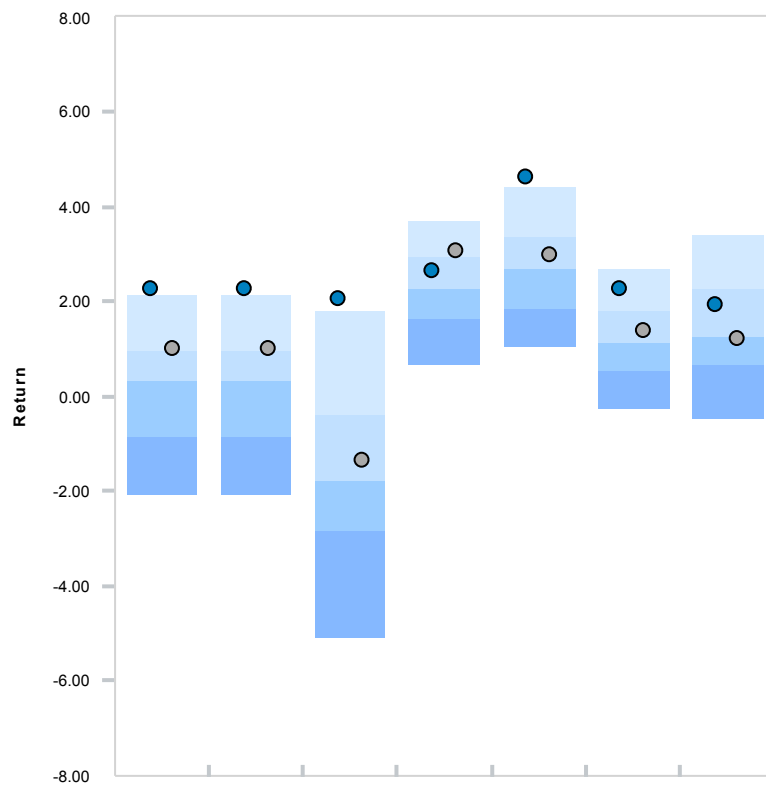
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Garcia Hamilton Fixed Income	-0.19 (95)	0.47 (4)	-0.54 (6)	N/A	N/A	N/A
Blmbg. Barc. U.S. Aggregate Index	0.02 (83)	-0.16 (75)	-1.46 (68)	0.39 (80)	0.85 (77)	1.45 (76)
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	0.18	-0.09	-1.37	0.51	0.93	1.54



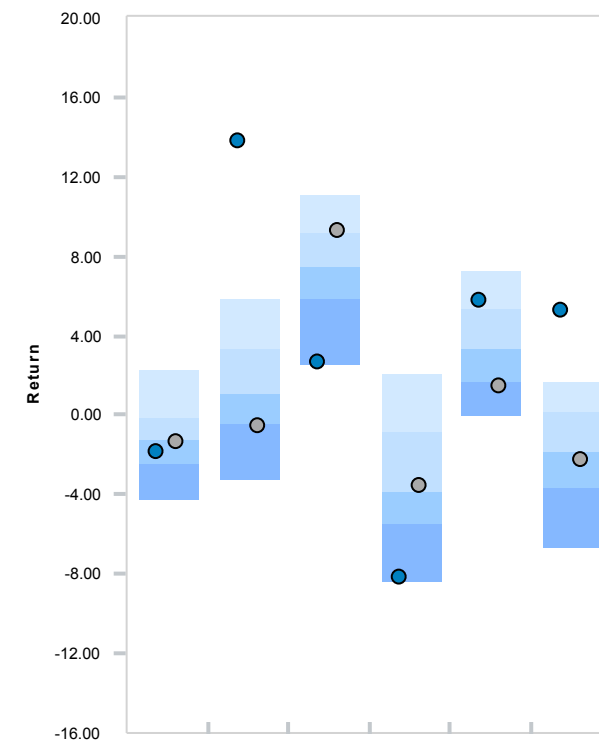
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Peer Group Analysis - IM Global Fixed Income (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Templeton Global Tol Return (FTTRX)	2.26 (1)	2.26 (1)	2.08 (5)	2.65 (38)	4.65 (3)	2.28 (13)	1.94 (31)
● Blmbg. Barc. Global Multiverse	1.02 (23)	1.02 (23)	-1.36 (41)	3.07 (22)	2.99 (37)	1.38 (41)	1.20 (53)
Median	0.33	0.33	-1.76	2.28	2.68	1.13	1.27



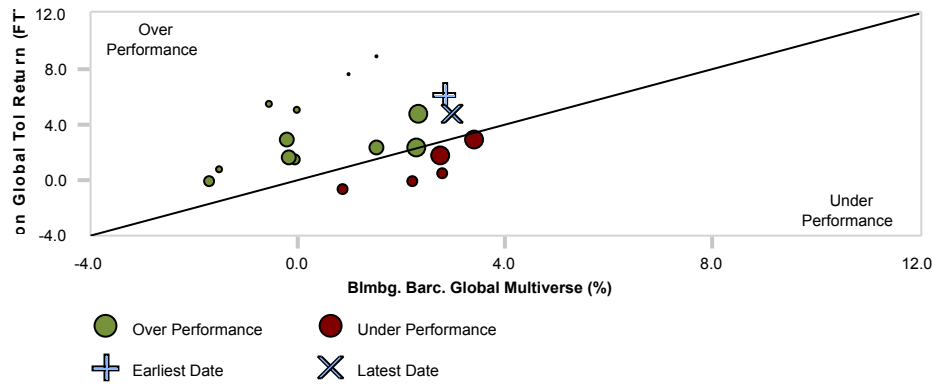
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● Templeton Global Tol Return (FTTRX)	1.90 (66)	3.82 (1)	2.64 (94)	8.23 (95)	5.71 (22)	5.29 (2)
● Blmbg. Barc. Global Multiverse	1.32 (52)	0.56 (77)	9.23 (25)	3.56 (42)	1.40 (79)	2.22 (56)
Median	1.24	1.02	7.42	3.85	3.37	1.81

Comparative Performance

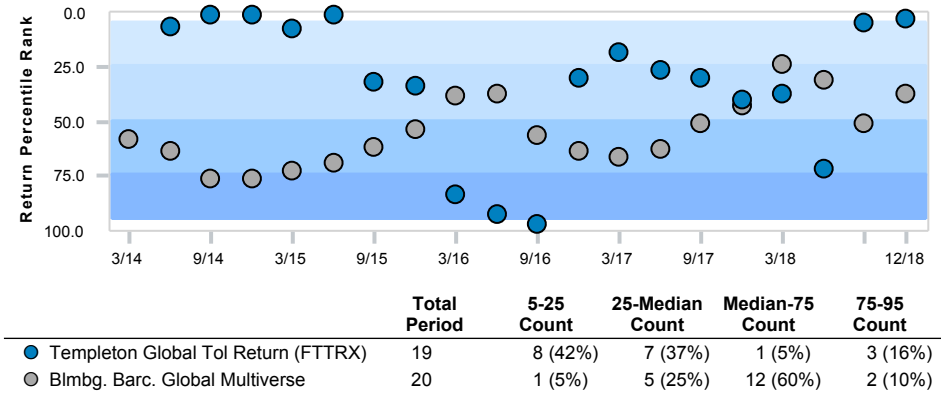
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
Templeton Global Tol Return (FTTRX)	1.38 (6)	-3.13 (55)	1.64 (27)	-1.73 (100)	1.46 (60)	-0.99 (100)
Blmbg. Barc. Global Multiverse	-0.80 (67)	-2.83 (54)	1.30 (33)	1.06 (18)	1.88 (24)	2.64 (34)
IM Global Fixed Income (MF) Median	-0.39	-2.25	0.77	0.67	1.59	2.30



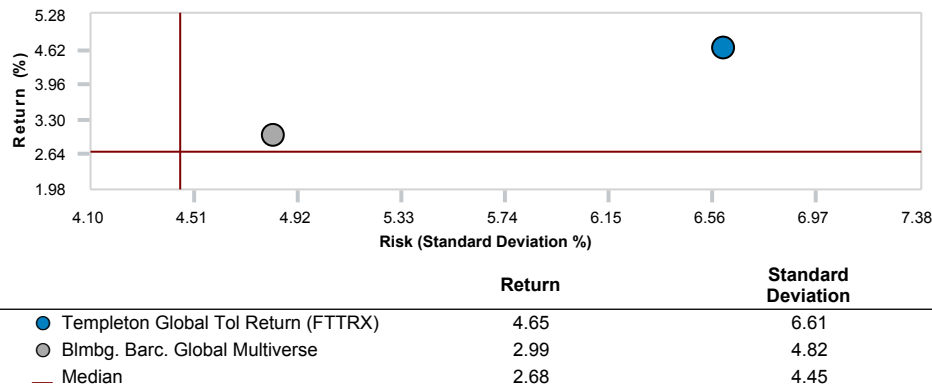
3 Yr Rolling Under/Over Performance - 5 Years



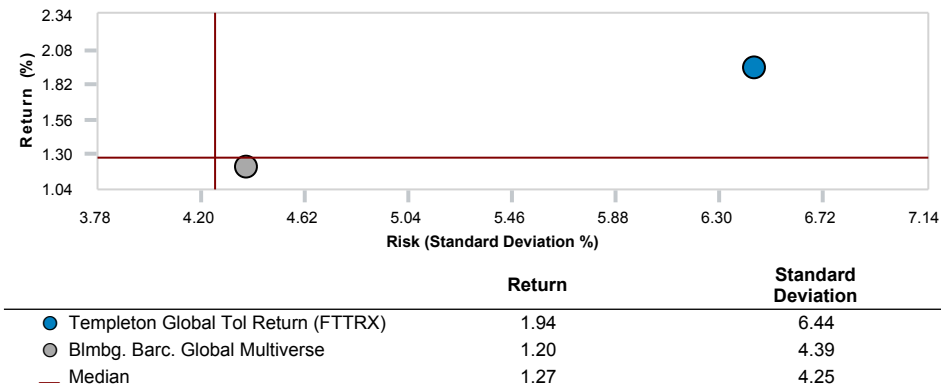
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

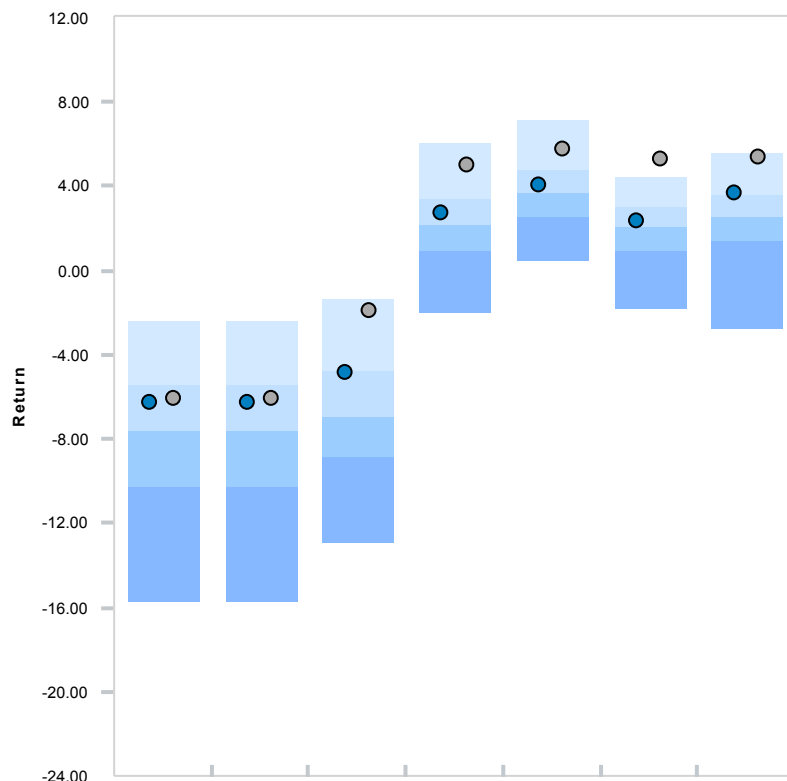
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Templeton Global Tol Return (FTTRX)	8.65	16.59	-66.59	5.42	0.20	0.57	-0.17	3.76
Blmbg. Barc. Global Multiverse	0.00	100.00	100.00	0.00	N/A	0.43	1.00	3.19

Historical Statistics - 5 Years

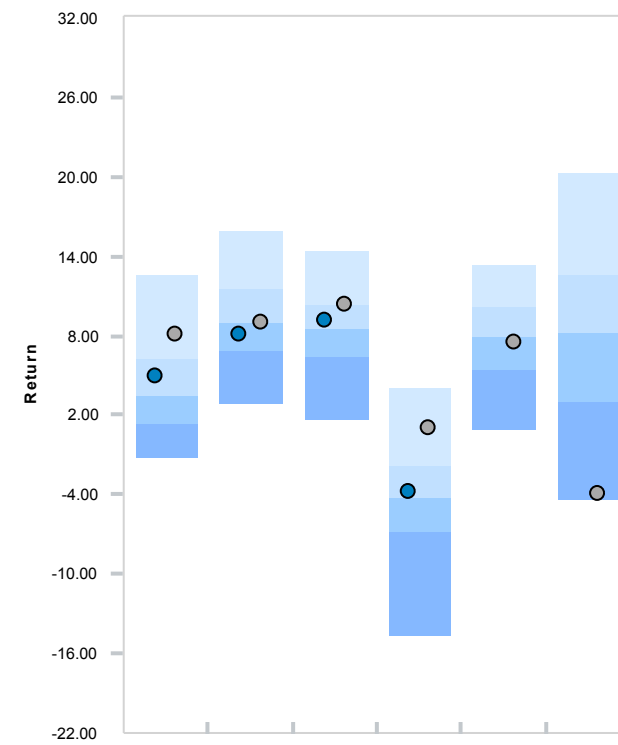
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Templeton Global Tol Return (FTTRX)	7.89	6.97	-32.13	2.20	0.11	0.24	-0.04	4.17
Blmbg. Barc. Global Multiverse	0.00	100.00	100.00	0.00	N/A	0.16	1.00	3.09



Peer Group Analysis - IM Flexible Portfolio (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● WW Inc Opportunity Fund (WHGIX)	-6.31 (34)	-6.31 (34)	-4.87 (26)	2.74 (37)	4.02 (44)	2.34 (44)	3.66 (24)
● Alternatives Policy	-6.05 (31)	-6.05 (31)	-1.90 (7)	5.00 (9)	5.78 (12)	5.24 (3)	5.33 (7)
Median	-7.65	-7.65	-6.95	2.17	3.65	2.04	2.51



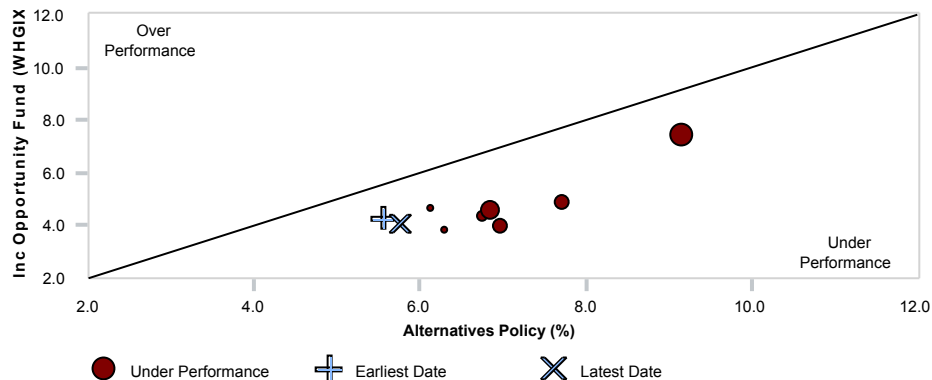
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
● WW Inc Opportunity Fund (WHGIX)	4.94 (36)	8.14 (60)	9.20 (40)	3.83 (46)	N/A	N/A
● Alternatives Policy	8.07 (18)	9.04 (50)	0.41 (24)	1.08 (11)	7.55 (55)	3.91 (95)
Median	3.38	9.02	8.55	4.22	7.99	8.17

Comparative Performance

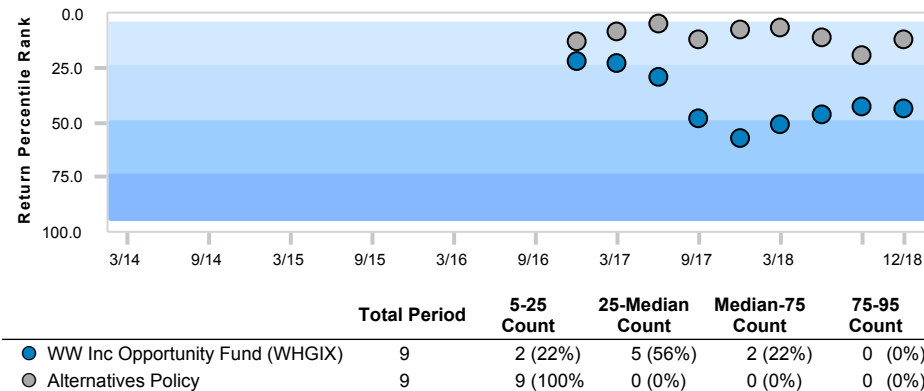
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
WW Inc Opportunity Fund (WHGIX)	3.11 (25)	0.69 (42)	-2.20 (83)	3.35 (36)	1.36 (87)	2.08 (59)
Alternatives Policy	3.82 (16)	1.63 (23)	-1.03 (50)	3.49 (31)	2.66 (57)	2.26 (53)
IM Flexible Portfolio (MF) Median	1.74	0.27	-1.06	2.77	2.80	2.31



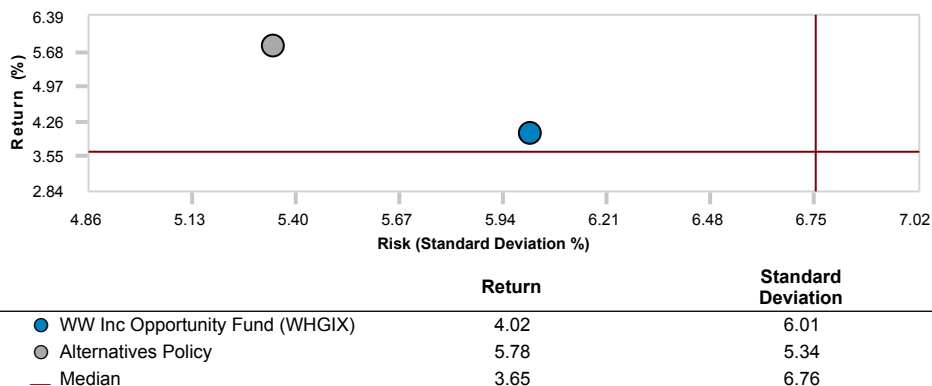
3 Yr Rolling Under/Over Performance - 5 Years



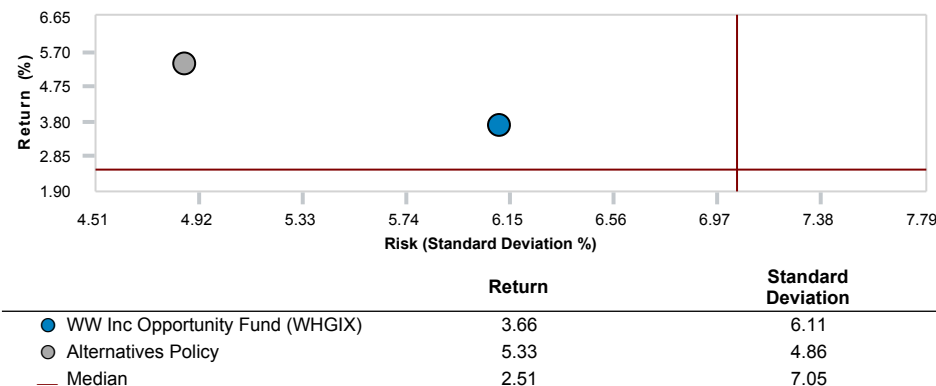
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
WW Inc Opportunity Fund (WHGIX)	2.11	92.31	118.12	-1.95	-0.78	0.52	1.06	4.25
Alternatives Policy	0.00	100.00	100.00	0.00	N/A	0.89	1.00	3.59

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
WW Inc Opportunity Fund (WHGIX)	3.16	94.75	127.63	-1.94	-0.49	0.52	1.08	4.05
Alternatives Policy	0.00	100.00	100.00	0.00	N/A	0.96	1.00	3.16



Fund Information

Fund Name : Advisors' Inner Circle Fund: Westwood Income Opportunity Fund; Institutional Shares
 Fund Family : Westwood Management Corp
 Ticker : WHGIX
 Inception Date : 12/19/2005
 Fund Assets : \$2,038 Million
 Portfolio Turnover : 42%

Portfolio Assets : \$2,108 Million
 Portfolio Manager : Freeman/Williams/Barnes
 PM Tenure : 2005--2005--2018
 Fund Style : IM Mixed-Asset Target Alloc Conserv (MF)
 Style Benchmark : Alternatives Policy

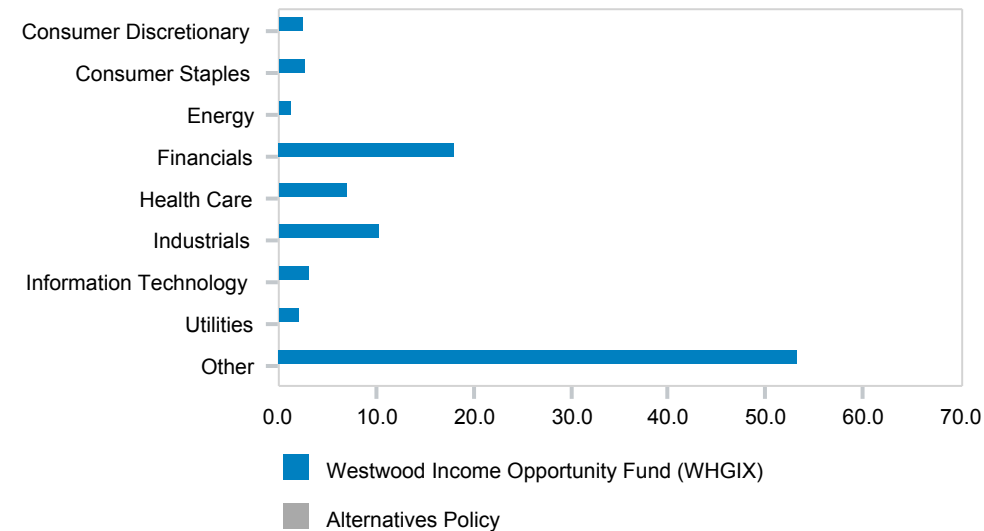
Portfolio Characteristics As of 09/30/2018

	Portfolio	Benchmark
Total Securities	69	N/A
Avg. Market Cap (\$)	151,479,526,002	-
Price/Earnings (P/E)	27.19	N/A
Price/Book (P/B)	6.09	N/A
Dividend Yield	2.79	N/A
Annual EPS	14.74	N/A
5 Yr EPS	11.89	N/A
3 Yr EPS Growth	9.60	N/A
Beta (5 Years, Monthly)	1.08	1.00

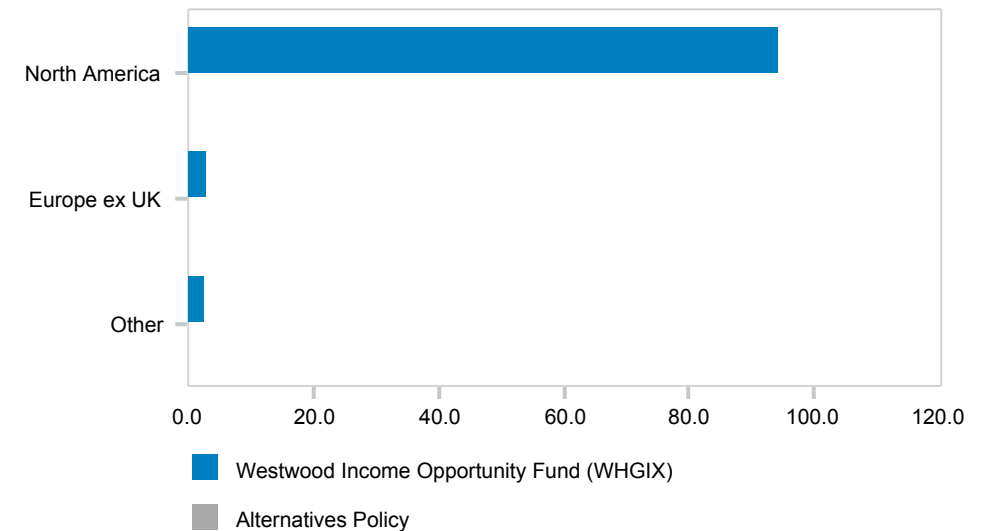
Top Ten Securities As of 09/30/2018

SEI Government Fund;F	8.8 %
Honeywell International Inc ORD	2.7 %
Bank of America Corp ORD	2.7 %
PepsiCo Inc ORD	2.6 %
Home Depot Inc ORD	2.5 %
FedEx Corp ORD	2.4 %
Abbott Laboratories ORD	2.3 %
Alexandria Real Estate Equities	2.3 %
Boston Properties Inc ORD	2.3 %
JPMorgan Chase & Co ORD	2.2 %

Sector Weights As of 09/30/2018



Region Weights As of 09/30/2018



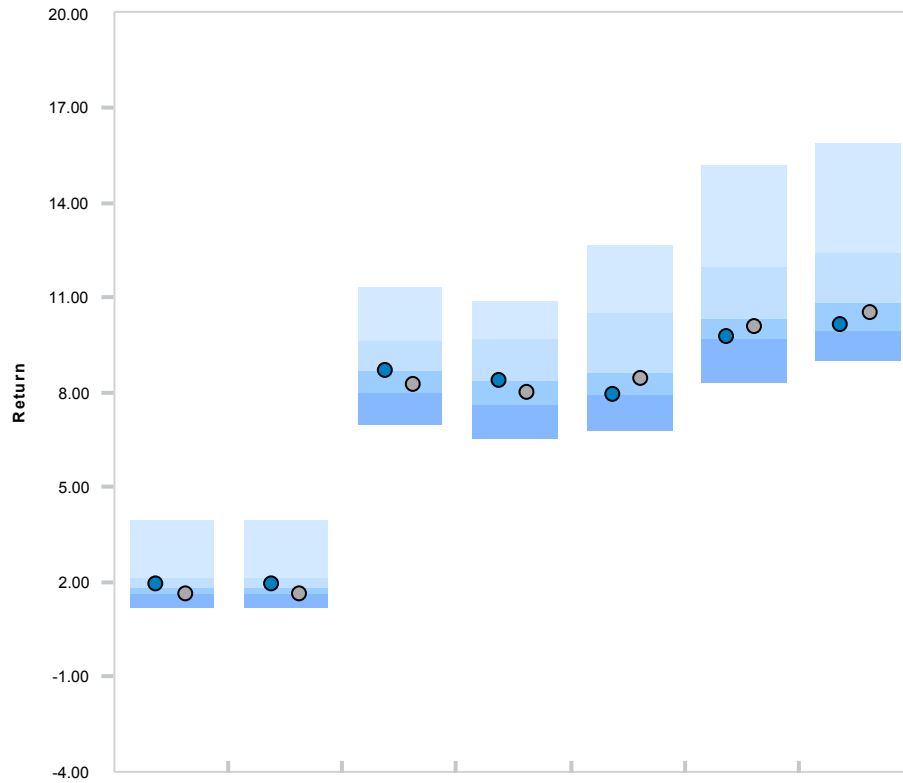
Statistics provided by Lipper. Most recent available data shown.



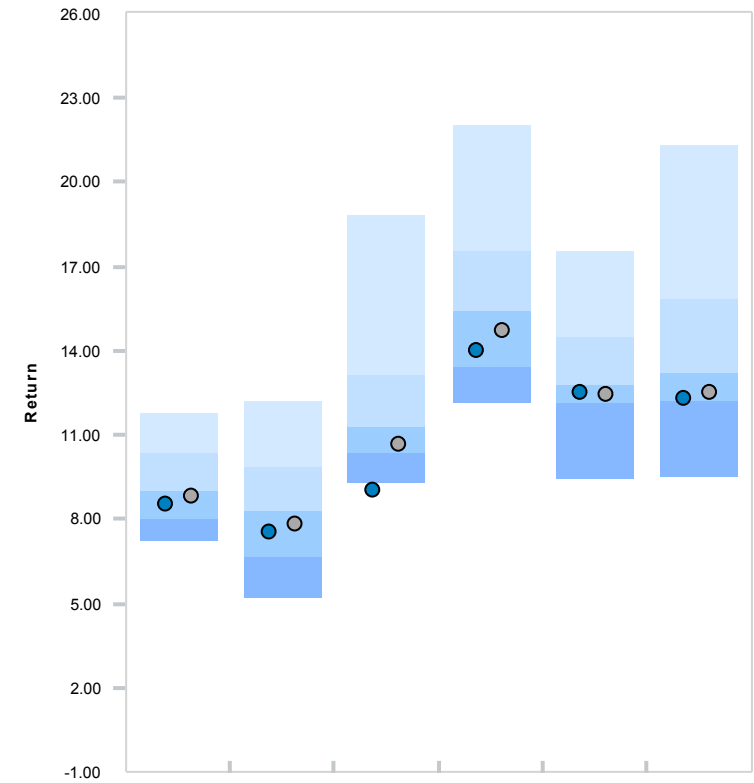
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Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
American Core Realty	1.94 (35)	1.94 (35)	8.72 (50)	8.40 (50)	7.96 (74)	9.77 (69)	10.14 (69)
NCREIF ODCE	1.62 (76)	1.62 (76)	8.25 (66)	8.02 (57)	8.44 (52)	10.08 (57)	10.52 (63)
Median	1.80	1.80	8.71	8.39	8.66	10.36	10.82



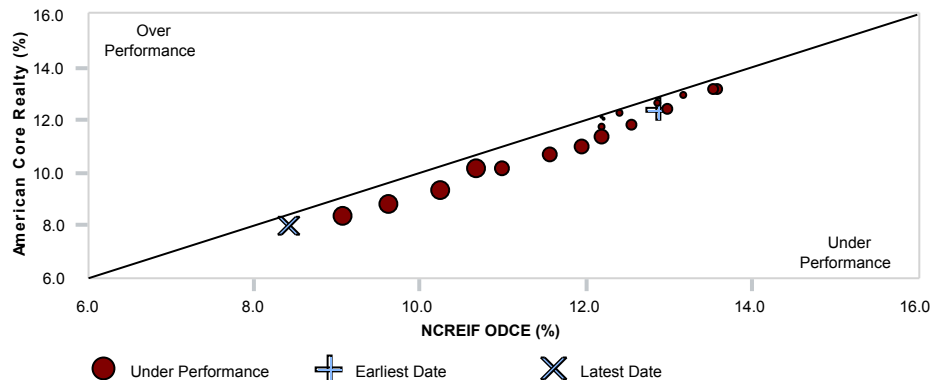
	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
American Core Realty	8.50 (66)	7.52 (67)	9.04 (97)	13.98 (69)	12.49 (64)	12.27 (70)
NCREIF ODCE	8.82 (59)	7.81 (60)	10.62 (69)	14.71 (62)	12.39 (68)	12.47 (67)
Median	9.04	8.29	11.32	15.45	12.78	13.18

Comparative Performance

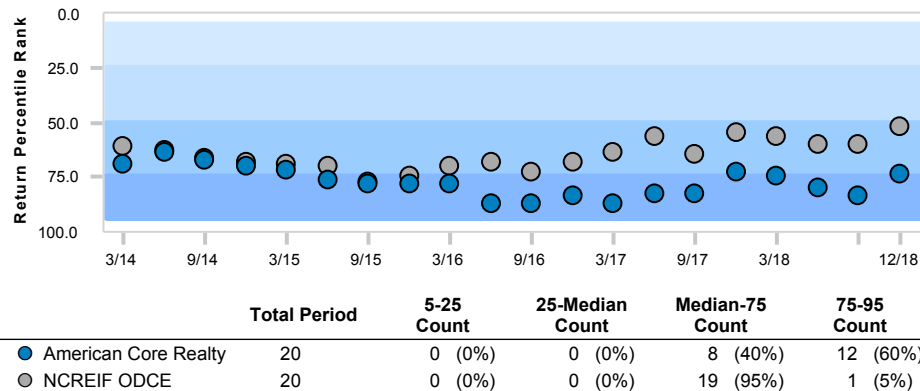
	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017
American Core Realty	2.19 (47)	2.09 (66)	2.23 (45)	1.73 (87)	1.88 (42)	1.97 (39)
NCREIF ODCE	2.09 (54)	2.13 (61)	2.17 (55)	2.15 (57)	1.89 (42)	1.71 (67)
IM U.S. Open End Private Real Estate (SA+CF) Median	2.10	2.22	2.21	2.25	1.75	1.89



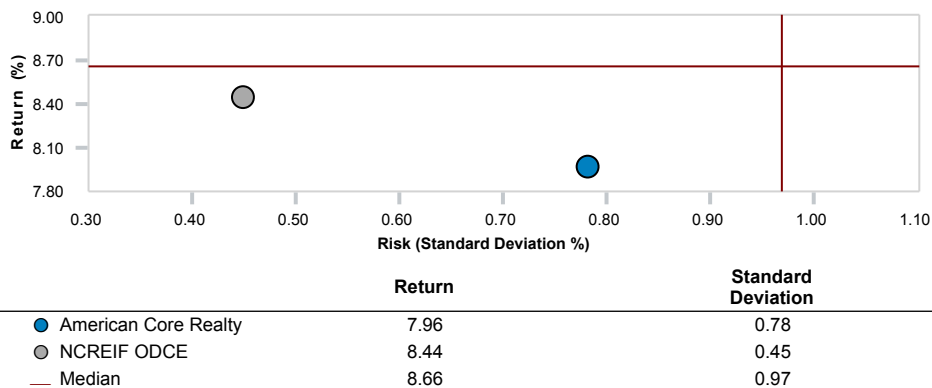
3 Yr Rolling Under/Over Performance - 5 Years



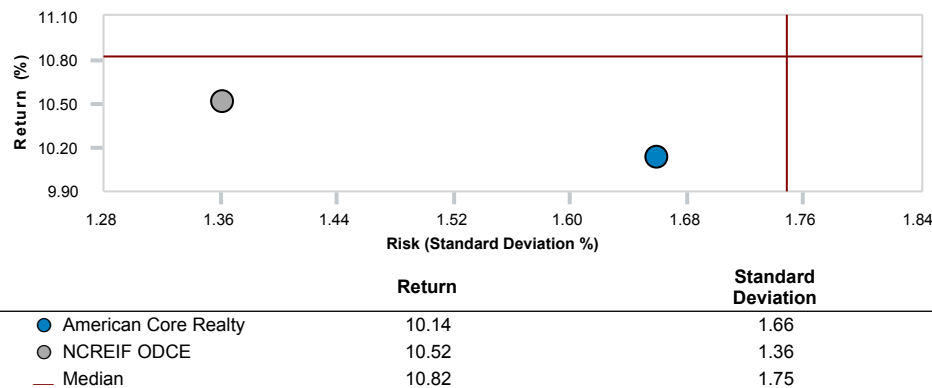
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
American Core Realty	0.90	94.57	N/A	0.13	-0.49	2.09	0.93	0.00
NCREIF ODCE	0.00	100.00	N/A	0.00	N/A	2.14	1.00	0.00

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
American Core Realty	1.08	96.55	N/A	0.03	-0.32	2.12	0.96	0.00
NCREIF ODCE	0.00	100.00	N/A	0.00	N/A	2.18	1.00	0.00



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Delray Beach Firefighters' Retirement System
Illiquid Investments
December 31, 2018

	Market Value	Uncalled Capital Commitment	QTD IRR	Inception IRR	Inception Date	Expected Termination
*Angelo Gordon Net Lease Realty Fund III, L.P.	\$1,731,828.00	\$525,690	0	6.55	3/10/2014	4/1/2027
*Crescent Direct Lending Levered Fund	\$3,217,091.00	\$668,697	0	7.54	10/9/2014	12/1/2022
*Dune Real Estate Fund III	\$1,879,590.00	\$262,802	0	13.26	11/6/2014	12/1/2024
*Molpus Woodlands Timber	\$1,275,611.00	\$0	0	2.02	6/24/2008	5/2018-5/2022

* Market Value as of 09-30-2018
Market Value includes contributions & distributions since end of period.



Benchmark History
Investment Policy Benchmarks
As of December 31, 2018

Total Fund Policy			
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Jan-1978		Oct-2013	
S&P 500 Index	65.00	Wilshire 5000 Total Market Index (full-cap) Index	35.00
Blmbg. Barc. U.S. Gov't/Credit	30.00	MSCI AC World ex USA (Net)	15.00
FTSE 3 Month T-Bill	5.00	Blmbg. Barc. U.S. Aggregate Index	27.50
Apr-2007		NCREIF ODCE	5.00
Blmbg. Barc. U.S. Gov't/Credit	30.00	Quadrant Custom Policy	5.00
Blmbg. Barc. U.S. TIPS 1-10 Year	5.00	NCREIF Timberland Index	5.00
S&P 500 Index	60.00	CPI+5%	7.50
MSCI EAFE (Net) Index	5.00	May-2014	
Oct-2007		Wilshire 5000 Total Market Index (full-cap) Index	35.00
MSCI EAFE (Net) Index	10.00	MSCI AC World ex USA (Net)	15.00
Bloomberg Barclays Intermed Aggregate Index	30.00	Blmbg. Barc. U.S. Aggregate Index	27.50
Blmbg. Barc. U.S. TIPS 1-10 Year	5.00	NCREIF ODCE	10.00
Russell 3000 Index	50.00	NCREIF Timberland Index	5.00
NCREIF Property Index	5.00	CPI+5%	7.50
Jan-2010		Jul-2015	
MSCI AC World ex USA (Net)	15.00	Wilshire 5000 Total Market Index (full-cap) Index	35.00
Blmbg. Barc. U.S. Aggregate Index	30.00	MSCI AC World ex USA (Net)	15.00
Bloomberg Barclays U.S. TIPS Index	5.00	Blmbg. Barc. U.S. Aggregate Index	27.50
Russell 3000 Index	45.00	NCREIF ODCE	10.00
NCREIF Property Index	5.00	NCREIF Timberland Index	5.00
Jul-2010		Alternatives Policy	7.50
Wilshire 5000 Total Market Index (full-cap) Index	35.00	Nov-2015	
MSCI AC World ex USA (Net)	15.00	Wilshire 5000 Total Market Index (full-cap) Index	42.50
Blmbg. Barc. U.S. Aggregate Index	25.00	MSCI AC World ex USA (Net)	15.00
Bloomberg Barclays U.S. TIPS Index	5.00	Blmbg. Barc. U.S. Aggregate Index	27.50
NCREIF ODCE	5.00	NCREIF ODCE	10.00
Barclay BTOP 50	5.00	Alternatives Policy	5.00
Quadrant Custom Policy	5.00		
NCREIF Timberland Index	5.00		



Benchmark History
Investment Policy Benchmarks
As of December 31, 2018

Total Equity Policy	
Allocation Mandate	Weight (%)
Oct-2005	
S&P 500 Index	95.00
FTSE 3 Month T-Bill	5.00
Apr-2007	
FTSE 3 Month T-Bill	5.00
S&P 500 Index	85.00
MSCI EAFE (Net) Index	10.00
Oct-2007	
MSCI EAFE (Net) Index	15.00
Russell 3000 Index	85.00
Jan-2010	
MSCI AC World ex USA (Net)	25.00
Russell 3000 Index	75.00
Jul-2010	
MSCI AC World ex USA (Net)	45.00
Wilshire 5000 Total Market Index (full-cap) Index	55.00
Nov-2015	
MSCI AC World ex USA (Net)	25.00
Wilshire 5000 Total Market Index (full-cap) Index	75.00

Domestic Equity Policy	
Allocation Mandate	Weight (%)
Oct-2005	
S&P 500 Index	100.00
Oct-2007	
Russell 3000 Index	100.00
Jul-2010	
Wilshire 5000 Total Market Index (full-cap) Index	100.00

Total Int'l Policy	
Allocation Mandate	Weight (%)
Jan-1970	
MSCI EAFE (Net) Index	100.00
Jan-2010	
MSCI AC World ex USA (Net)	100.00
Alternatives Policy	
Allocation Mandate	Weight (%)
Aug-2010	
Barclay BTOP 50	100.00
Nov-2013	
CPI+5%	100.00
Jul-2015	
S&P 500 Index	50.00
Blmbg. Barc. U.S. Aggregate Index	50.00

Total Fixed Policy	
Allocation Mandate	Weight (%)
Oct-2005	
Blmbg. Barc. U.S. Gov't/Credit	95.00
FTSE 3 Month T-Bill	5.00
Jan-2007	
Blmbg. Barc. U.S. Gov't/Credit	85.00
Blmbg. Barc. U.S. TIPS 1-10 Year	15.00
Oct-2007	
Blmbg. Barc. U.S. TIPS 1-10 Year	15.00
Bloomberg Barclays Intermed Aggregate Index	85.00
Jan-2010	
Bloomberg Barclays U.S. TIPS Index	15.00
Blmbg. Barc. U.S. Aggregate Index	85.00
Oct-2013	
Blmbg. Barc. U.S. Aggregate Index	100.00



Delray Beach Firefighters' Retirement System

Fee Analysis

As of December 31, 2018

	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)	Fee Schedule
Boston LCV	14,856,634	81,711	0.55	0.55 % of First \$25 M 0.45 % of Next \$25 M 0.35 % of Next \$50 M 0.25 % Thereafter
Rhumblin R1000G	3,658,713	1,463	0.04	0.04 % of Assets
Polen Capital LCG	11,048,329	66,290	0.60	0.60 % of Assets
Lazard SMid Cap Core	6,686,454	50,148	0.75	0.75 % of Assets
Vanguard Mid-Cap Index (VIMAX)	4,601,620	3,681	0.08	0.08 % of Assets
Harding Loevner Intl Equity (HLMIX)	14,441,308	121,307	0.84	0.84 % of Assets
Garcia Hamilton Fixed Income	21,608,083	54,020	0.25	0.25 % of Assets
Templeton Global Total Return (FTTRX)	4,107,510	27,520	0.67	0.67 % of Assets
American Core Realty	4,950,415	54,455	1.10	1.10 % of Assets
Westwood Income Opportunity Fund (WHGIX)	4,832,450	43,492	0.90	0.90 % of Assets
Total Fund (Composite)	99,876,598	504,099	0.50	



Active Return	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
Alpha	- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.
Beta	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
Consistency	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.
Distributed to Paid In (DPI)	- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.
Down Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
Downside Risk	- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.
Excess Return	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
Excess Risk	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
Information Ratio	- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.
Public Market Equivalent (PME)	- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.
R-Squared	- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.
Return	- Compounded rate of return for the period.
Sharpe Ratio	- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.
Standard Deviation	- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.
Total Value to Paid In (TVPI)	- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life
Tracking Error	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
Treynor Ratio	- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.
Up Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



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