

Investment Performance Review  
Period Ending June 30, 2020

# Delray Beach Police Officers' Retirement System

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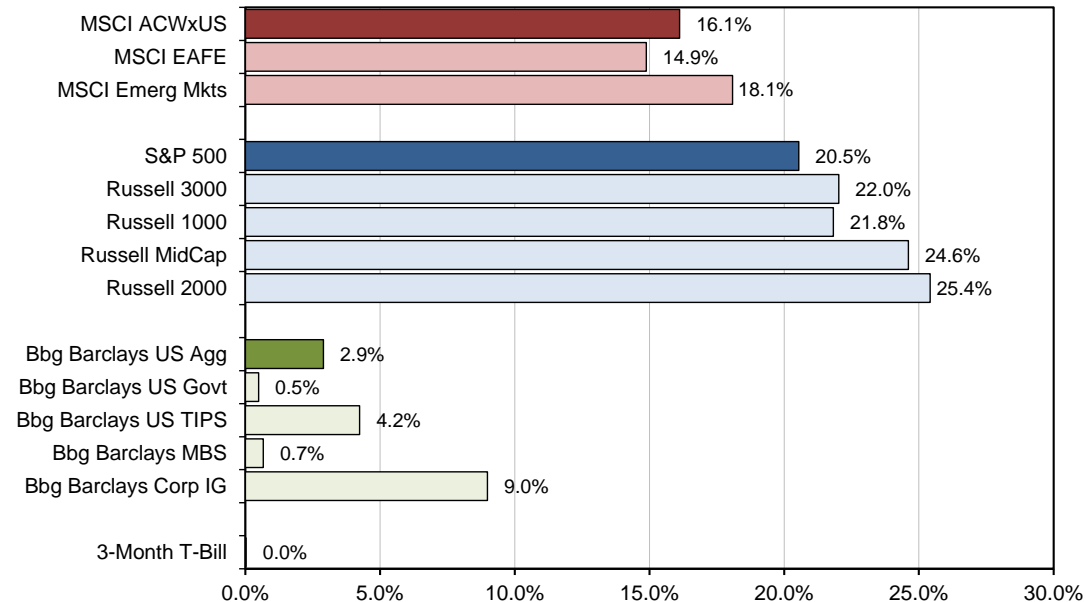


# 2nd Quarter 2020 Market Environment

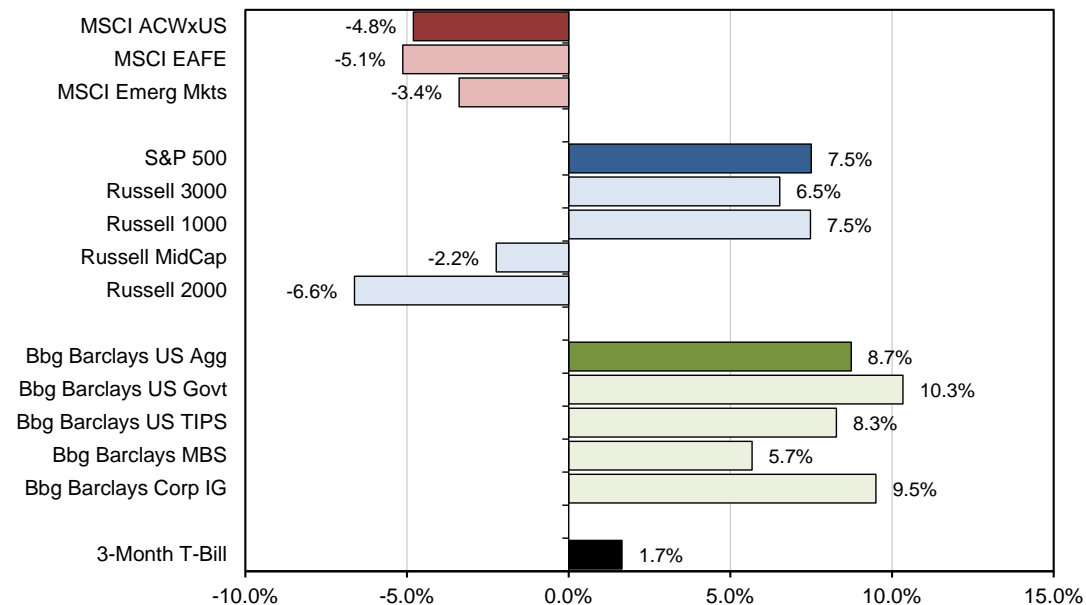


- Broad asset class returns rebounded sharply in the 2nd quarter following their harsh drawdown during the 1st quarter. The US government and Federal Reserve Bank (Fed) implemented a myriad of programs designed to provide the economy with liquidity while also mitigating the affects from the shelter-in-place response to the COVID-19 (Coronavirus) pandemic. Despite having officially entered a recession in February, US economic data began to show improvement in May with regards to manufacturing, housing and employment as many States began the process of re-opening. Geopolitical tensions rose during the quarter following the vote by China to impose security measures in Hong Kong. Despite these risks, markets reacted positively to continued monetary easing from the Fed which supported markets directly through bond purchases and a variety of lending facilities. Within domestic equity markets, higher beta small cap stocks outperformed large cap stocks during the quarter with the Russell 2000 Index returning 25.4% versus a 20.5% return for the S&P 500 Index. US stocks also outperformed international stocks during the period. US equity results over the trailing 1-year period tell a different story with large cap stocks, returning 7.5% while mid- and small cap stocks were negative, returning -2.2% and -6.6%, respectively.
- Broad international equity markets posted positive returns for the 2nd quarter. Similar to US markets, international markets benefited from coordinated central bank policies which provided liquidity following the onset of the pandemic and subsequent re-opening of local economies. International returns also benefited from a weakening US dollar (USD) which declined against both the Euro and British pound during the period. Emerging markets outperformed relative to developed markets during the period with the MSCI Emerging Market Index returning 18.1% compared to 14.9% for the MSCI EAFE Index. Both developed and emerging market indices were negative over the 1-year period with the developed market index returning -5.1% and the emerging market index returning -3.4%.
- Fixed income returns remained strong during the 2nd quarter as investors benefited from declining interest rates globally. The broad market Bloomberg Barclays (BB) Aggregate Index gained 2.9% for the quarter as the Fed ramped up its purchases of US Treasury and Agency securities to boost market liquidity. In addition, the Fed announced that it would begin purchasing US corporate bonds to keep borrowing costs low and further support liquidity. For the quarter, the BB Corporate Investment Grade Index returned 9.0% as investors continued to seek out higher yielding assets. Over the trailing 1-year period, the bond market outperformed stocks with the BB Aggregate posting a solid return of 8.7%, while corporate bonds posted a higher 9.5%. US TIPS, which have been a laggard for some time, posted a respectable 8.3% over the trailing 1-year period despite low expectations for inflation.

### Quarter Performance

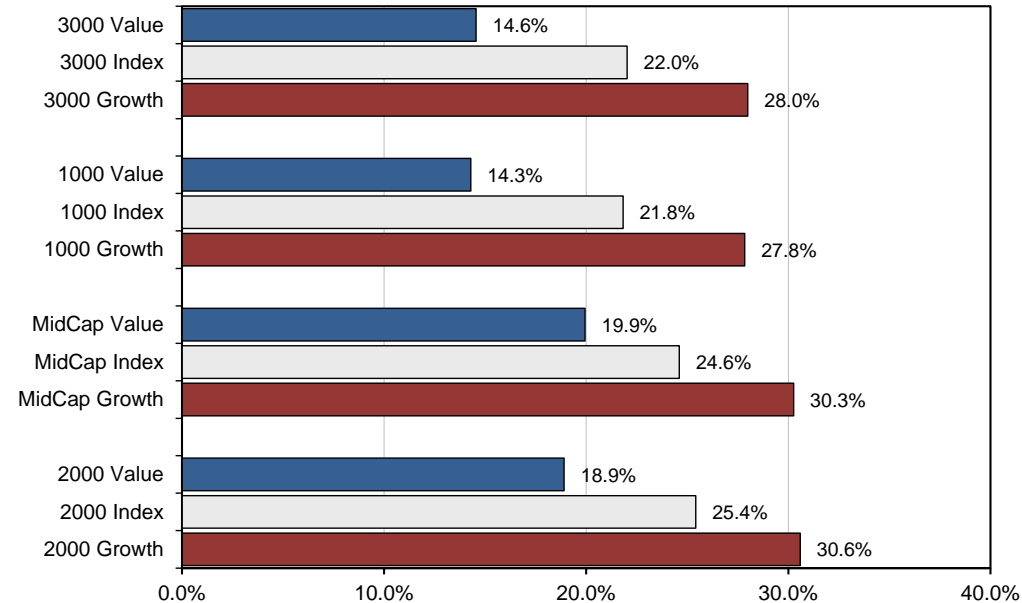


### 1-Year Performance

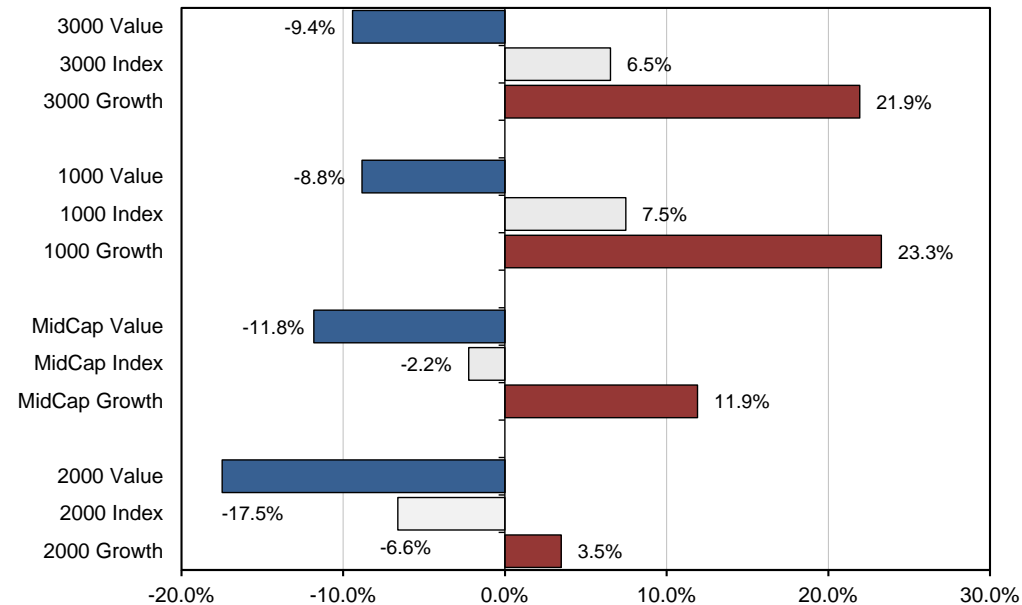


- US equity returns were strongly positive during the 2nd quarter, but results varied considerably across the style and capitalization spectrum. Following one of the sharpest drawdowns in history during the previous quarter, various capitalization and style indices experienced their strongest quarterly performance in over 20-years. The US labor market showed dramatic improvement in May and June with more than 7 million jobs added for the period. However, the unemployment rate remained high at 11.1% in June with more than 14.7 million people unemployed. While States have taken steps to re-open by loosening stay-at-home orders, several States such as Florida, Texas, and Arizona, have experienced significant increases in Coronavirus cases since the orders were eased causing many States to consider rollbacks. Several potential treatments and vaccines are in various stages of development that will hopefully prove effective in treating the virus.
- During the quarter, small capitalization (cap) stocks broadly outperformed large cap stocks across the style spectrum. The small cap Russell 2000 Index gained a stellar 25.4% for the quarter versus a return of 21.8% for the large cap Russell 1000 Index. Investors were attracted to potentially faster growing small cap stocks which were disproportionately sold during the 1st quarter's drawdown. Small cap stocks have historically outperformed when the market enters a recovery phase. When viewed over the most recent 1-year period the trend has reversed with large cap stocks far outpacing their small cap counterparts. The Russell 1000 posted a return of 7.5% over the trailing 1-year period relative to a negative return of -6.6% for the Russell 2000.
- Value stocks continued their recent trend of underperformance relative to growth stocks during the 2nd quarter recovery as investors gravitated toward companies perceived to have the potential to grow revenue and earnings faster. Within large cap, growth significantly outperformed value due to favorable weightings to the strong-performing technology and consumer discretionary sectors. The small cap Russell 2000 Growth Index was the best performing style index for the quarter, returning an outsized 30.6%. At the other extreme, the large cap value index posted the quarter's weakest relative style performance with a still solid 14.3% return. Results over the 1-year period also reflect the strength of the "growth over value" trend with value benchmarks posting negative results across the capitalization spectrum with a range of relative underperformance to growth of greater than 20% at each level.

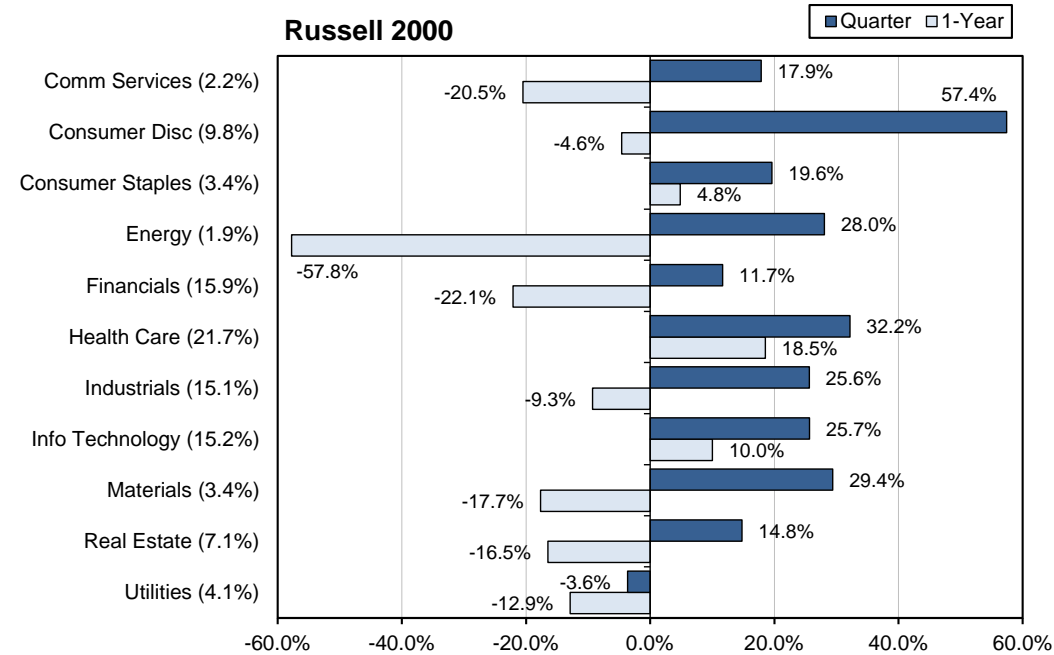
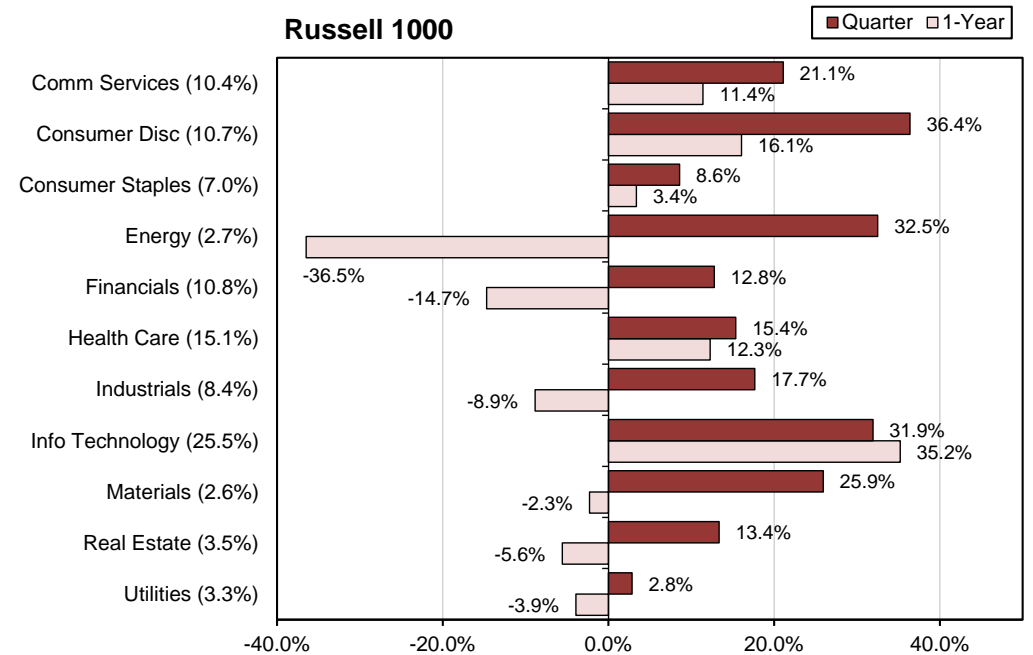
Quarter Performance - Russell Style Series



1-Year Performance - Russell Style Series



- All eleven economic sectors within the large cap Russell 1000 Index were positive for the 2nd quarter with four sectors outpacing the return of the broad index. Growth-oriented sectors such as consumer discretionary and technology were some of the best performers for the quarter returning 36.4% and 32.5%, respectively. The energy sector, which had lagged considerably during the 1st quarter sell-off, also posted a strong return of 32.5% for the quarter as oil prices recovered on expectations of future economic growth. Defensive sectors such as consumer staples and utilities were the lowest performers during the period, but still posted positive returns of 8.6% and 2.8%, respectively. Traditional growth sectors also showed their dominance in the trailing 1-year period. The technology, consumer discretionary, health care and communication services sectors returned 35.2%, 16.1%, 15.4% and 11.4%, respectively, versus the core Russell 1000 index return of 7.5%. In contrast, traditional value sectors such as energy and financials, posted returns of -36.5% and -14.7%, respectively, for the trailing 1-year period.
- Ten of eleven small cap sectors posted results of greater than 10% for the 2nd quarter with only the utilities sector falling into negative territory with a return of -3.6%. In addition, seven of eleven economic sectors in the small cap index outpaced their respective large cap sector performance. While ten small cap sectors posting returns of more than 10% would be impressive in any period, six of them managed to exceed the 25.4% return of the broad Russell 2000 index. Like large caps, sectors sensitive to the consumer and economic growth were the strongest performers as investors gravitated toward those companies with the highest growth potential. Performance in consumer discretionary and health care sectors was particularly impressive with returns of 57.4% and 32.2% respectively for the quarter. Within the health care sector, many biotechnology stocks rose on hopes and speculation regarding potentially viable treatments or vaccines for the Coronavirus. Over the trailing 1-year period, the majority of small cap sector returns were negative with only three sectors contributing positive absolute performance. The traditional growth sectors also led the small cap index's performance over the trailing 1-year period with health care posting 18.5% and the technology sector returning 10%. On the opposite end of the spectrum, while the energy sector's 28.0% return for the quarter is certainly an impressive recovery, the sector led the 1-year trailing sector performance declines with the return of -57.8%.



**The Market Environment**  
**Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000**  
As of June 30, 2020

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Microsoft Corp	5.30%	29.4%	53.8%	Information Technology
Apple Inc	5.19%	43.8%	86.5%	Information Technology
Amazon.com Inc	4.07%	41.5%	45.7%	Consumer Discretionary
Facebook Inc A	1.90%	36.1%	17.7%	Communication Services
Alphabet Inc A	1.48%	22.0%	31.0%	Communication Services
Alphabet Inc Class C	1.46%	21.6%	30.8%	Communication Services
Johnson & Johnson	1.29%	8.0%	3.8%	Health Care
Berkshire Hathaway Inc Class B	1.21%	-2.4%	-16.3%	Financials
Visa Inc Class A	1.13%	20.1%	12.0%	Information Technology
Procter & Gamble Co	1.01%	9.4%	11.8%	Consumer Staples

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Deckers Outdoor Corp	0.31%	46.6%	11.6%	Consumer Discretionary
LHC Group Inc	0.30%	24.3%	45.8%	Health Care
BJ's Wholesale Club Holdings Inc	0.29%	46.3%	41.2%	Consumer Staples
Churchill Downs Inc	0.29%	29.3%	16.2%	Consumer Discretionary
Novavax Inc	0.27%	513.8%	1322.4%	Health Care
MyoKardia Inc	0.27%	106.1%	92.7%	Health Care
Helen Of Troy Ltd	0.27%	30.9%	44.4%	Consumer Discretionary
SiteOne Landscape Supply Inc	0.27%	54.8%	64.5%	Industrials
EastGroup Properties Inc	0.26%	14.3%	4.9%	Real Estate
Ultragenyx Pharmaceutical Inc	0.25%	76.1%	23.2%	Health Care

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Fastly Inc	0.02%	348.5%	319.8%	Information Technology
Wayfair Inc Class A	0.05%	269.8%	35.3%	Consumer Discretionary
Apache Corp	0.02%	223.9%	-51.9%	Energy
Targa Resources Corp	0.02%	192.7%	-44.7%	Energy
Etsy Inc	0.04%	176.4%	73.1%	Consumer Discretionary
Bill.com Holdings Inc Ordinary Shares	0.01%	163.8%	N/A	Information Technology
Livongo Health Inc	0.01%	163.5%	N/A	Health Care
Immunomedics Inc	0.03%	162.9%	155.5%	Health Care
Antero Midstream Corp	0.01%	159.5%	-45.7%	Energy
Thor Industries Inc	0.02%	156.2%	87.0%	Consumer Discretionary

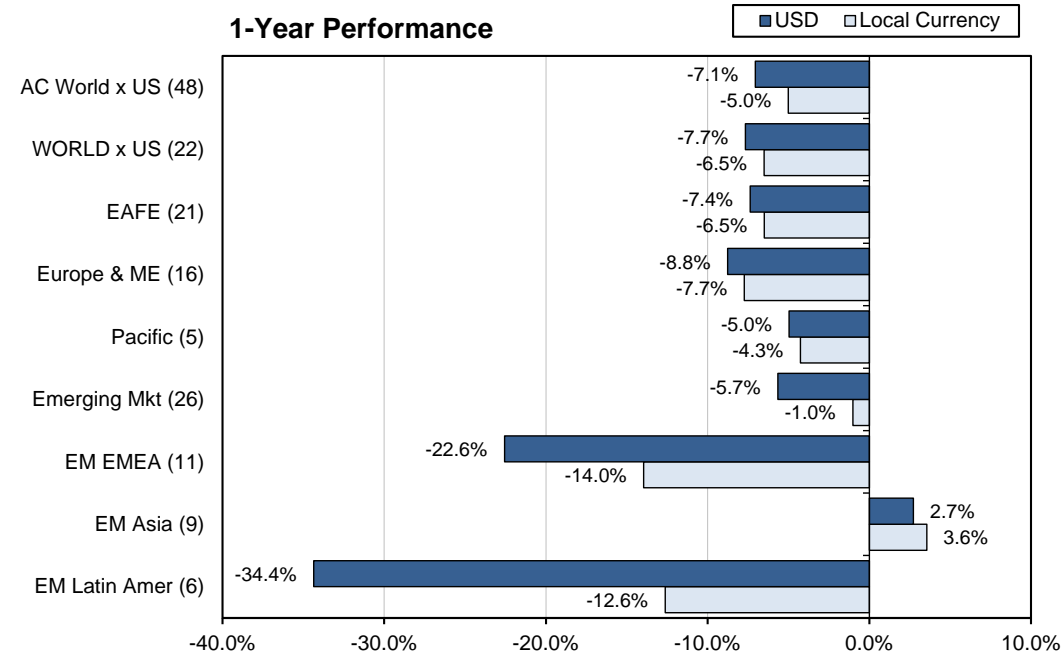
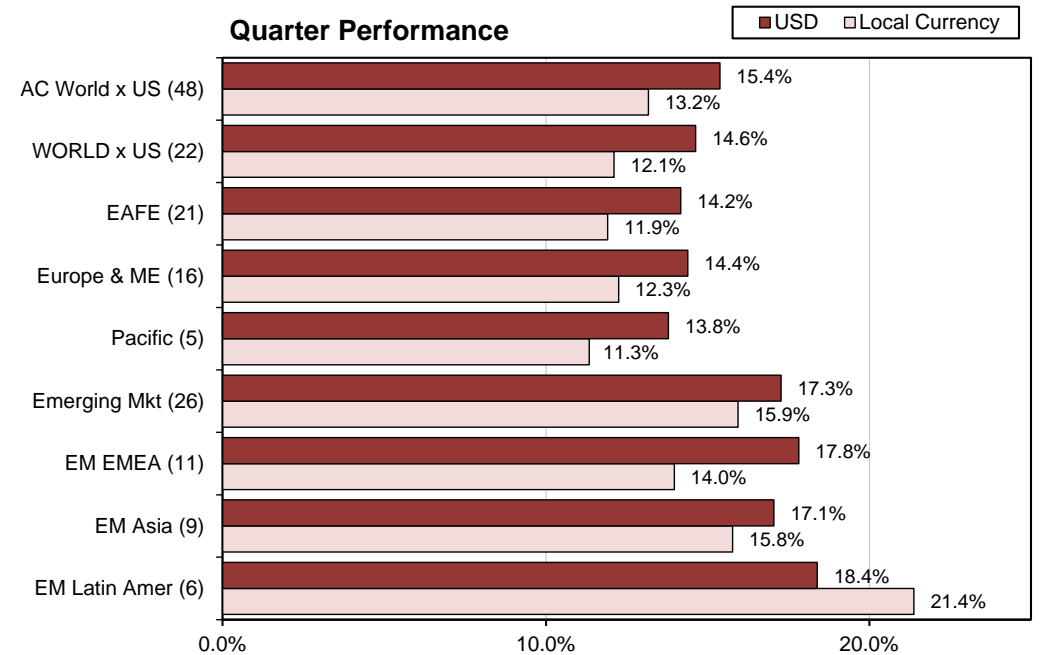
Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Workhorse Group Inc	0.06%	860.8%	491.5%	Consumer Discretionary
Veritone Inc	0.02%	537.8%	77.8%	Information Technology
Novavax Inc	0.27%	513.8%	1322.4%	Health Care
Overstock.com Inc	0.06%	469.7%	109.0%	Consumer Discretionary
Vaxart Inc	0.02%	400.0%	1220.7%	Health Care
U.S. Auto Parts Network Inc	0.01%	394.9%	592.8%	Consumer Discretionary
Camping World Holdings Inc Class A	0.05%	380.5%	131.4%	Consumer Discretionary
Macrogenics Inc	0.08%	379.7%	64.5%	Health Care
Aspira Womens Health Inc	0.01%	361.3%	331.5%	Health Care
Retractable Technologies Inc	0.01%	350.0%	868.9%	Health Care

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Empire State Realty Trust Inc Class A	0.00%	-20.7%	-50.8%	Real Estate
Xerox Holdings Corp	0.01%	-18.0%	-54.8%	Information Technology
Hawaiian Electric Industries Inc	0.01%	-15.5%	-14.7%	Utilities
Biogen Inc	0.15%	-15.4%	14.4%	Health Care
Cincinnati Financial Corp	0.03%	-14.3%	-36.6%	Financials
General Electric Co	0.21%	-13.8%	-34.7%	Industrials
Coty Inc Class A	0.00%	-13.4%	-65.5%	Consumer Staples
EchoStar Corp	0.00%	-12.5%	-24.3%	Information Technology
NovoCure Ltd	0.02%	-11.9%	-6.2%	Health Care
Molson Coors Beverage Co B	0.02%	-11.9%	-36.5%	Consumer Staples

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Chesapeake Energy Corp	0.00%	-85.8%	-98.7%	Energy
Hertz Global Holdings Inc	0.01%	-77.2%	-91.2%	Industrials
SeaChange International Inc	0.00%	-59.4%	5.6%	Information Technology
CorEnergy Infrastructure Trust Inc	0.01%	-50.0%	-75.6%	Real Estate
Evoform Biosciences Inc	0.01%	-46.8%	-57.4%	Health Care
Recro Pharma Inc	0.00%	-44.3%	-48.6%	Health Care
NextCure Inc	0.02%	-42.2%	43.1%	Health Care
NeuroBo Pharmaceuticals Inc	0.00%	-42.1%	-60.2%	Health Care
LendingClub Corp	0.02%	-42.0%	-72.3%	Financials
ProAssurance Corp	0.04%	-41.9%	-58.6%	Financials



- Broad international equity index returns were positive in US dollar (USD) and local currency terms for the 2nd quarter as international markets rebounded following the meaningful drawdown during the previous period. USD denominated international equity index performance also benefited from a weakening USD which fell against most major currencies during the period. The MSCI ACWI ex US Index posted a return of 15.4% in USD and a slightly lower 13.2% in local currency terms. Like US equity market performance, international equity benchmarks also benefited from a strong monetary policy response from central banks in reaction to the Coronavirus. Since the virus ravaged Asia and Europe earlier than the US, many countries also began the process of re-opening their respective economies earlier than the US, resulting in improving economic datapoints. Both the ECB and Bank of Japan committed to significant lending programs designed to provide the capital markets with liquidity while continuing to purchase bonds under their existing economic recovery programs.
- Results for developed market international indices were strongly positive in both USD and local currency terms during the 2nd quarter. The MSCI EAFE Index returned 14.2% in USD and 11.0% in local currency terms. The spread of the pandemic slowed in Europe during the quarter allowing countries like Austria and Italy to begin the process of re-opening. ECB President Christine Lagarde announced that the bank was expanding its bond purchase program to \$1.5 trillion, and in the UK, the Bank of England increased its bond purchasing program by roughly \$125 billion. Both measures were targeted at providing the capital markets with liquidity.
- Emerging markets outperformed developed markets by just over 3% during the 2nd quarter. The MSCI Emerging Markets Index rose by 17.3% in USD terms and 15.9% in local currency. Emerging markets benefited relative to developed markets during the quarter as global economic activity increased despite increased geopolitical tensions from China's new security measures in Hong Kong. The rebound in commodity prices in anticipation of future economic growth was particularly beneficial to the emerging countries dependent on export demand.
- In contrast to the strong 2nd quarter returns, the 1-year trailing performance of international equity indices was broadly negative with only the Emerging Market Asia Index posting a positive return of 2.7% in USD for the period. The 1-year trailing currency impact on international index performance also contrasts with the 2nd quarter's USD weakness. Persistent strength of the USD over the 1-year period was a drag on the results realized by domestic holders of international equities for each of the indices tracked in the graph. This USD strength is particularly visible in the Emerging Market Middle East & Africa (EMEA) Index and Emerging Market Latin America Index.





**The Market Environment**  
**US Dollar International Index Attribution & Country Detail**  
As of June 30, 2020

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.4%	12.3%	-6.5%
Consumer Discretionary	11.3%	17.6%	-6.9%
Consumer Staples	12.0%	8.5%	-3.8%
Energy	3.4%	-1.5%	-41.3%
Financials	16.1%	12.6%	-20.4%
Health Care	14.5%	13.8%	17.6%
Industrials	14.5%	17.5%	-8.0%
Information Technology	8.3%	23.0%	12.4%
Materials	7.3%	22.7%	-8.6%
Real Estate	3.2%	7.9%	-21.4%
Utilities	4.0%	11.4%	2.4%
<b>Total</b>	<b>100.0%</b>	<b>14.2%</b>	<b>-7.4%</b>

MSCI - ACWixUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.6%	16.9%	2.6%
Consumer Discretionary	12.6%	19.8%	-0.6%
Consumer Staples	10.0%	9.4%	-4.8%
Energy	4.8%	8.5%	-34.5%
Financials	18.1%	10.3%	-22.4%
Health Care	10.7%	16.0%	18.3%
Industrials	11.4%	17.1%	-8.9%
Information Technology	11.0%	24.1%	19.2%
Materials	7.6%	24.6%	-8.7%
Real Estate	2.8%	6.8%	-21.4%
Utilities	3.5%	10.3%	-3.2%
<b>Total</b>	<b>100.0%</b>	<b>15.4%</b>	<b>-7.1%</b>

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	13.5%	22.6%	14.2%
Consumer Discretionary	17.4%	22.1%	12.7%
Consumer Staples	6.5%	12.6%	-9.1%
Energy	6.0%	21.6%	-25.3%
Financials	19.1%	6.6%	-27.4%
Health Care	4.3%	37.1%	33.5%
Industrials	4.7%	16.0%	-15.9%
Information Technology	16.9%	19.9%	21.3%
Materials	6.9%	23.3%	-16.2%
Real Estate	2.6%	3.6%	-20.3%
Utilities	2.3%	9.2%	-20.3%
<b>Total</b>	<b>100.0%</b>	<b>17.3%</b>	<b>-5.7%</b>

Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	25.4%	16.5%	11.5%	0.9%
United Kingdom	14.1%	9.1%	7.4%	-20.8%
France	10.9%	7.1%	15.3%	-11.4%
Switzerland	10.3%	6.7%	9.7%	3.8%
Germany	9.3%	6.0%	24.5%	-4.4%
Australia	6.7%	4.4%	28.6%	-14.6%
Netherlands	4.3%	2.8%	24.0%	7.1%
Hong Kong	3.4%	2.2%	7.7%	-17.4%
Sweden	3.1%	2.0%	19.5%	0.8%
Spain	2.4%	1.6%	9.6%	-22.5%
Denmark	2.3%	1.5%	18.8%	20.7%
Italy	2.3%	1.5%	15.0%	-13.1%
Singapore	1.1%	0.7%	7.3%	-23.8%
Finland	1.0%	0.7%	18.6%	-3.6%
Belgium	0.9%	0.6%	11.9%	-23.3%
Ireland	0.6%	0.4%	19.6%	3.6%
Israel	0.6%	0.4%	20.0%	0.8%
Norway	0.5%	0.3%	13.2%	-25.1%
New Zealand	0.3%	0.2%	28.0%	19.6%
Austria	0.2%	0.1%	20.6%	-28.2%
Portugal	0.2%	0.1%	9.2%	4.2%
<b>Total EAFE Countries</b>	<b>100.0%</b>	<b>64.9%</b>	<b>14.2%</b>	<b>-7.4%</b>
Canada		6.5%	19.4%	-10.5%
<b>Total Developed Countries</b>		<b>71.4%</b>	<b>14.6%</b>	<b>-7.7%</b>
China		11.7%	14.2%	11.2%
Taiwan		3.5%	20.8%	17.8%
Korea		3.3%	19.3%	-1.4%
India		2.3%	20.4%	-18.2%
Brazil		1.5%	22.6%	-35.3%
South Africa		1.1%	25.8%	-26.9%
Russia		0.9%	17.6%	-17.7%
Saudi Arabia		0.8%	12.2%	-22.7%
Thailand		0.7%	22.4%	-25.8%
Malaysia		0.5%	12.6%	-14.8%
Mexico		0.5%	10.6%	-26.8%
Indonesia		0.4%	22.4%	-26.0%
Philippines		0.2%	19.3%	-21.4%
Qatar		0.2%	6.7%	-13.1%
Poland		0.2%	20.8%	-31.2%
Chile		0.2%	13.5%	-36.9%
United Arab Emirates		0.2%	14.4%	-21.7%
Turkey		0.1%	18.3%	-8.5%
Peru		0.1%	5.5%	-35.7%
Hungary		0.1%	14.1%	-18.3%
Colombia		0.1%	7.2%	-43.6%
Argentina		0.0%	43.7%	-47.0%
Greece		0.0%	9.6%	-35.1%
Czech Republic		0.0%	24.1%	-26.8%
Egypt		0.0%	4.9%	-13.7%
Pakistan		0.0%	11.7%	-17.3%
<b>Total Emerging Countries</b>		<b>28.6%</b>	<b>17.3%</b>	<b>-5.7%</b>
<b>Total ACWixUS Countries</b>		<b>100.0%</b>	<b>15.4%</b>	<b>-7.1%</b>

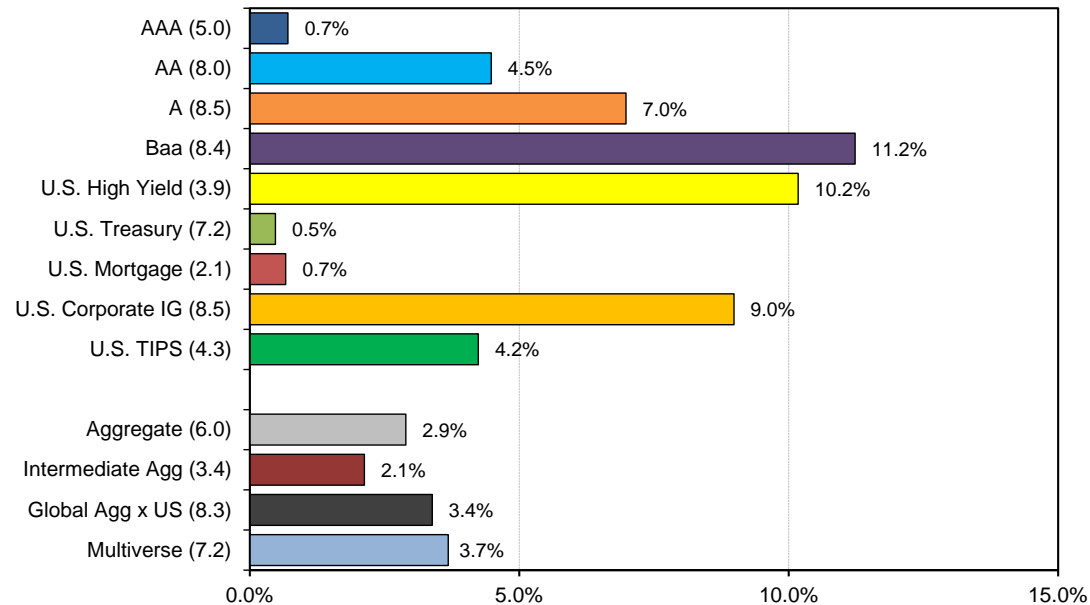
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)  
As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



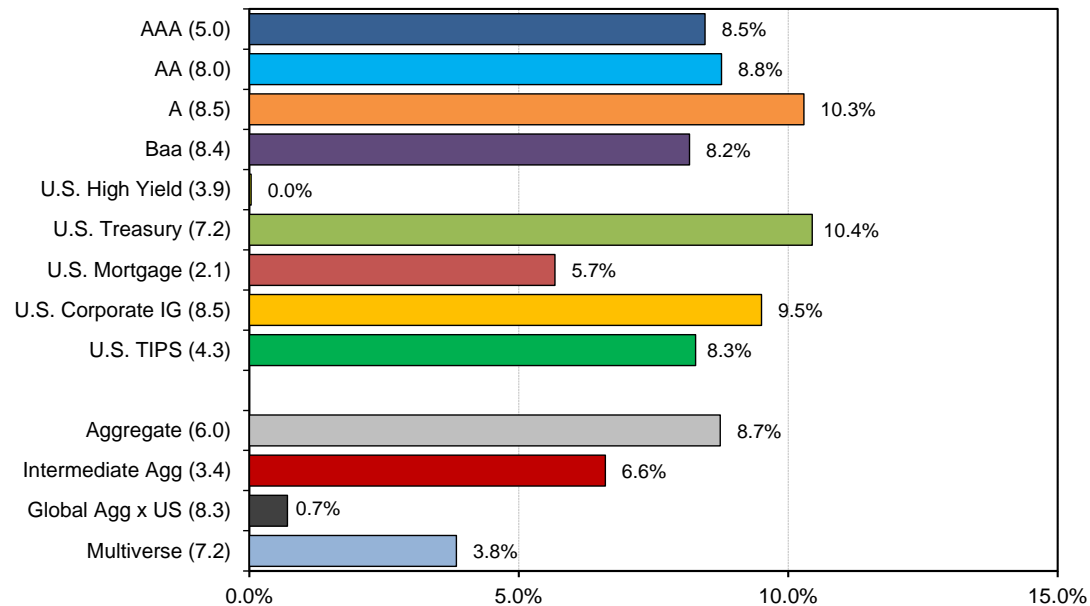


- Broad fixed income benchmarks rose sharply in the 2nd quarter as interest rates fell globally in response to the economic implications of the pandemic. The Fed continued purchasing bonds under programs announced during the first quarter to support capital markets and mitigate the damage to the economy. With US interest rates already near zero, the Fed announced several additional lending facilities to bridge the gap until economic activity picks up. These combined programs swelled the Fed's balance sheet to \$7.0 trillion, an increase of more than \$3 trillion since the beginning of the year. Late in the quarter the Fed commented that the economy faces a number of future challenges and expects interest rates to remain low for a prolonged period of time. Last August, the US Treasury yield curve inverted with the 2-year yield briefly surpassing the 10-year yield. Historically, a 2-10 inversion in the yield curve has preceded a US recession within the next 6-24 months. Recently, the National Bureau of Economic Research reported that the US economy entered a recession in February. While long-term US interest rates have moved lower recently, the Treasury yield curve has actually steepened which historically portends better economic growth.
- During the quarter, the Bloomberg Barclays (BB) US Aggregate Index returned 2.9%. Within the broad BB US Aggregate index, the US Treasury and mortgage-backed segments dramatically underperformed the corporate bond sector during the 2nd quarter. Investment grade corporate credit returned a strong 9.0% due to narrowing credit spreads and a high demand for yield. In contrast, over the 1-year period, US Treasuries outpaced both corporate and mortgage-backed issues with US Treasuries posting 10.4% versus returns of 9.5% and 5.7% for corporate and mortgage bonds, respectively. Outside of domestic markets, the BB Global Aggregate ex US Index increased by 3.4% for the quarter and 0.7% for the year.
- Within investment grade credit, lower quality issues outperformed higher quality issues during the 2nd quarter. Lower quality issues benefitted from both spread compression and investors seeking out higher yields when compared to US Treasury or mortgage bonds. On an absolute basis without adjusting for the duration differences in the sub-indices, Baa rated credit was the best performing investment grade (IG) segment, returning 11.2% for the quarter. AAA issues were the worst performing IG credit segment, returning just 0.7%. Despite a much lower duration, the high yield index returned 10.2% for the quarter. These issues benefitted from credit spreads narrowing significantly following the drawdown in the first quarter. Outside of high yield performance, which was flat on the year, credit returns were all impressive with each segment returning greater than 8% for the period.

**Quarter Performance**

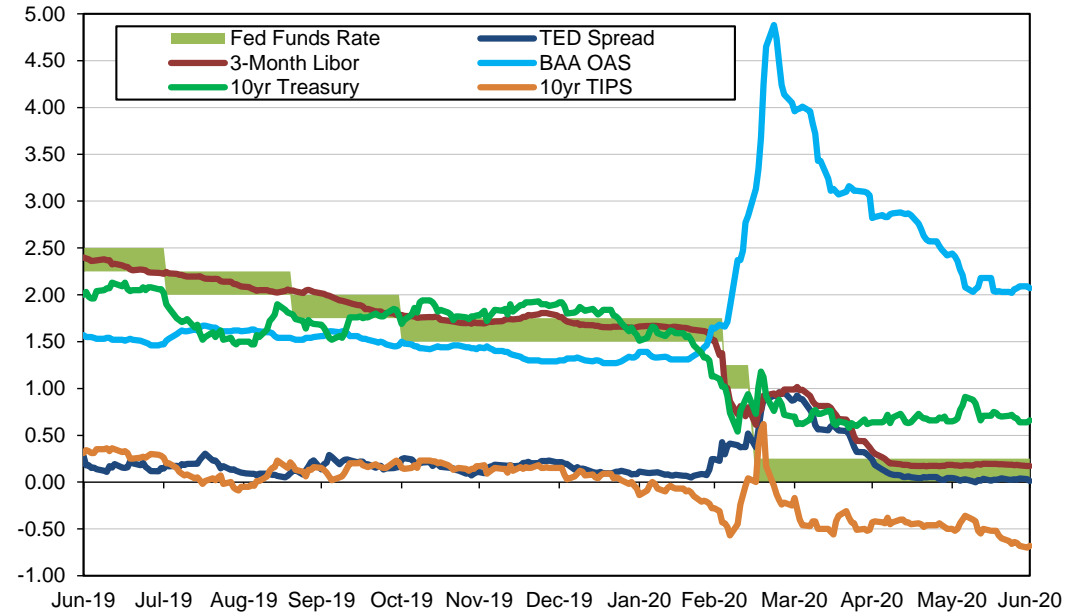


**1-Year Performance**

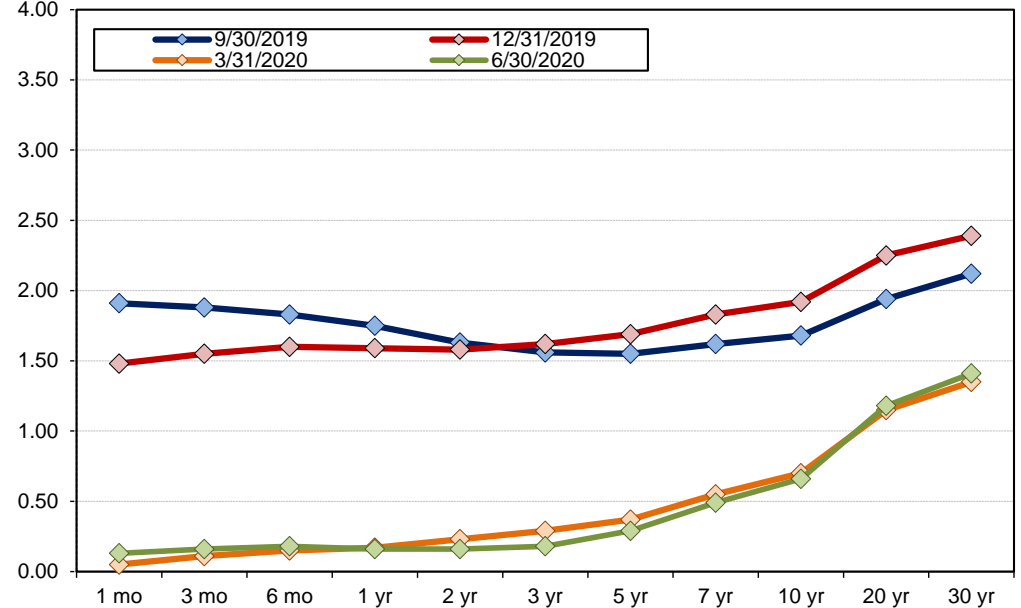


- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the yield graph to the right. The '1-Year Trailing Market Rates' chart illustrates that over the last year, the 10-year Treasury yield (green line) fell from yields of greater than 2.0%, to a low of roughly 0.5% before ending the quarter at 0.66%. A decrease in yields provides a boost to bond performance. 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 investment grade issues. This line illustrates an abrupt increase in credit spreads beginning in early 2020 as investors moved to higher quality assets during the quarter's risk-off environment. Spreads increased dramatically in February following the US onset of the pandemic, reaching a high of 4.88% on March 23rd. Since then, spreads have steadily declined as markets stabilized following the aggressive actions taken by the Treasury and Fed. During the quarter, the BAA OAS spread fell by 1.98%. Similar to Treasury yield declines, spread tightening in corporate bonds is equivalent to an interest rate decrease, which causes bond prices to rise. This compression produces an additional tailwind for corporate bond index returns. The green band across the graph illustrates the decrease in the Fed Funds Rate range due to the recent US monetary policy easing. The Fed began the year with a rate range of 1.50%-1.75%, which it aggressively cut to a range of 0.00%-0.25% during the 1st quarter, where it remained at the end of the quarter.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. The higher yields and curve inversion experienced in the 2nd half of 2019 have given way to 2020's extremely low interest rate environment. The curve continued to flatten during the 2nd quarter, particularly between the 1- and 5-year maturities. On the longer end of the curve, rates rose slightly during the period as the US Treasury issued longer-dated bonds to lock in low borrowing costs. An increase in Treasury supply, in conjunction with concerns about the potential for rising inflation, resulted in slightly higher yields during the quarter.

1-Year Trailing Market Rates



Treasury Yield Curve



**Delray Beach Police Pension Plan  
Compliance Checklist**

As of June 30, 2020

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.	•		

	VG Total Stock Mkt			Rhumbline R1000V			Boston		
	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.			•			•			•

	Rhumbline R1000G			Polen LCG			VG Mid-Cap		
	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 Police Pension Plan  
Compliance Checklist**  
As of June 30, 2020

	Clarkston			H.L. Intl Equity			GHA		
	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.			•			•	•		

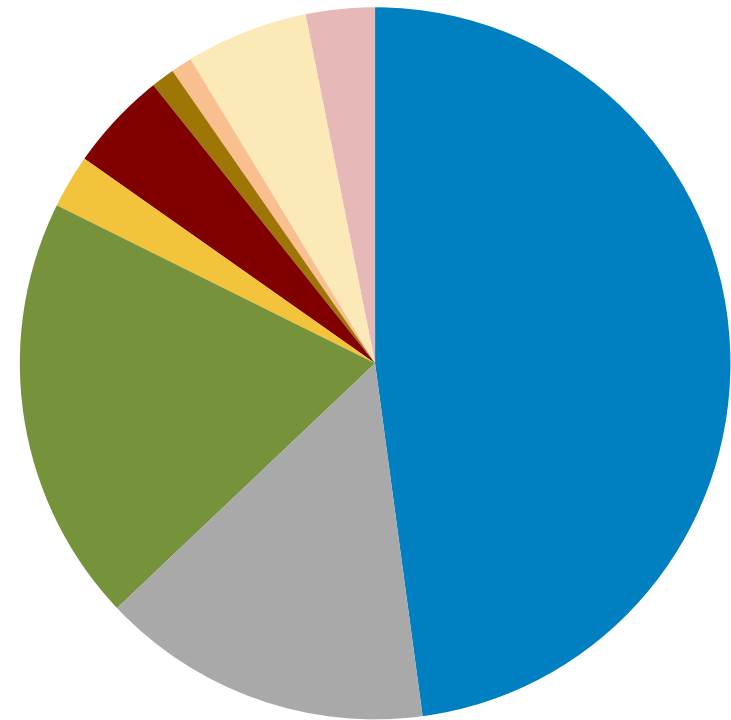
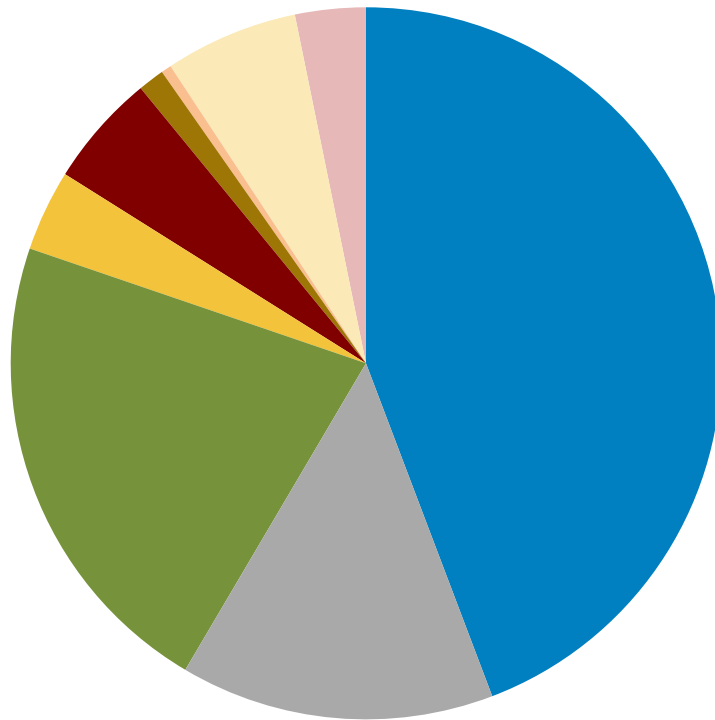
	Blackrock Multi-Asset			Templeton Global			American Realty		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•		•			•	
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•		•			•	
3. Less 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.			•			•			•



**Asset Allocation By Asset Class  
Total Fund (Composite)  
As of June 30, 2020**

March 31, 2020 : \$92,392,554

June 30, 2020 : \$103,436,196

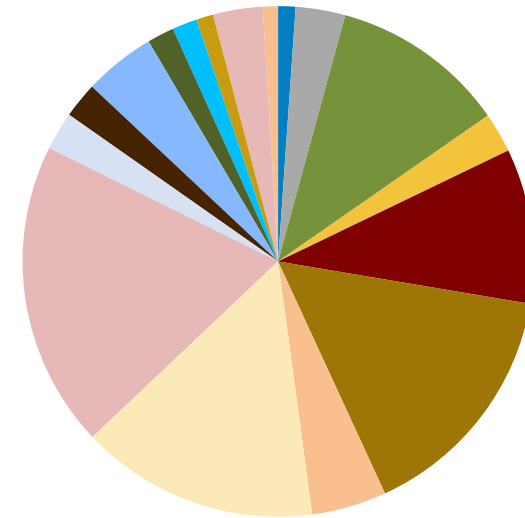
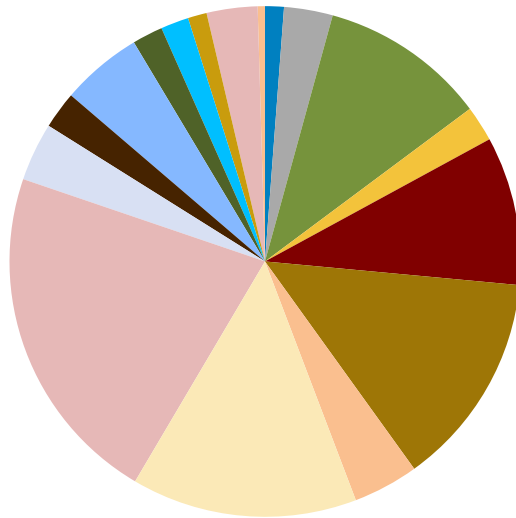


Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ US Equity	40,859,615	44.2	■ US Equity	49,514,702	47.9
■ International Equity	13,184,858	14.3	■ International Equity	15,589,601	15.1
■ US Fixed Income	20,079,400	21.7	■ US Fixed Income	20,047,086	19.4
■ Global Fixed Income	3,408,696	3.7	■ Global Fixed Income	2,506,645	2.4
■ US Private Real Estate	4,755,685	5.1	■ US Private Real Estate	4,684,212	4.5
■ US Real Return	1,104,175	1.2	■ US Real Return	1,104,175	1.1
■ Cash	430,534	0.5	■ Cash	996,242	1.0
■ US Private Equity	5,598,955	6.1	■ US Private Equity	5,742,151	5.6
■ US Real Assets	2,970,635	3.2	■ US Real Assets	3,251,383	3.1



March 31, 2020 : \$92,392,554

June 30, 2020 : \$103,436,196



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Vanguard Total Stock Mkt (VTSAX)	1,098,198	1.2	■ Vanguard Total Stock Mkt (VTSAX)	1,128,553	1.1
■ Rhumblin R1000V	2,845,274	3.1	■ Rhumblin R1000V	3,250,610	3.1
■ Boston LCV	9,732,703	10.5	■ Boston LCV	11,466,754	11.1
■ Vanguard Mid-Cap Index (VIMAX)	2,084,659	2.3	■ Vanguard Mid-Cap Index (VIMAX)	2,604,904	2.5
■ Clarkston Partners (CISMIX)	8,699,977	9.4	■ Clarkston Partners (CISMIX)	10,154,201	9.8
■ Polen Capital LCG	12,567,110	13.6	■ Polen Capital LCG	16,014,055	15.5
■ Rhumblin R1000G	3,831,695	4.1	■ Rhumblin R1000G	4,895,624	4.7
■ Harding Loevner Intl Equity (HLIZX)	13,184,858	14.3	■ Harding Loevner Intl Equity (HLIZX)	15,589,601	15.1
■ Garcia Hamilton Fixed Income	20,079,400	21.7	■ Garcia Hamilton Fixed Income	20,047,086	19.4
■ Templeton Global Total Return (FTTRX)	3,408,696	3.7	■ Templeton Global Total Return (FTTRX)	2,506,645	2.4
■ Crescent Direct Lending Levered Fund	2,177,497	2.4	■ Crescent Direct Lending Levered Fund	2,339,292	2.3
■ American Core Realty	4,755,685	5.1	■ American Core Realty	4,684,212	4.5
■ Angelo Gordon Net Lease Realty Fund III, L.P.	1,785,001	1.9	■ Angelo Gordon Net Lease Realty Fund III, L.P.	1,766,402	1.7
■ Dune Real Estate Fund III	1,636,457	1.8	■ Dune Real Estate Fund III	1,636,457	1.6
■ Molpus Woodlands Timber	1,104,175	1.2	■ Molpus Woodlands Timber	1,104,175	1.1
■ Blackrock Multi-Asset Income (BKMIX)	2,970,635	3.2	■ Blackrock Multi-Asset Income (BKMIX)	3,251,383	3.1
■ Mutual Fund Cash	4,198	0.0	■ Mutual Fund Cash	4,373	0.0
■ R&D	426,336	0.5	■ R&D	991,869	1.0



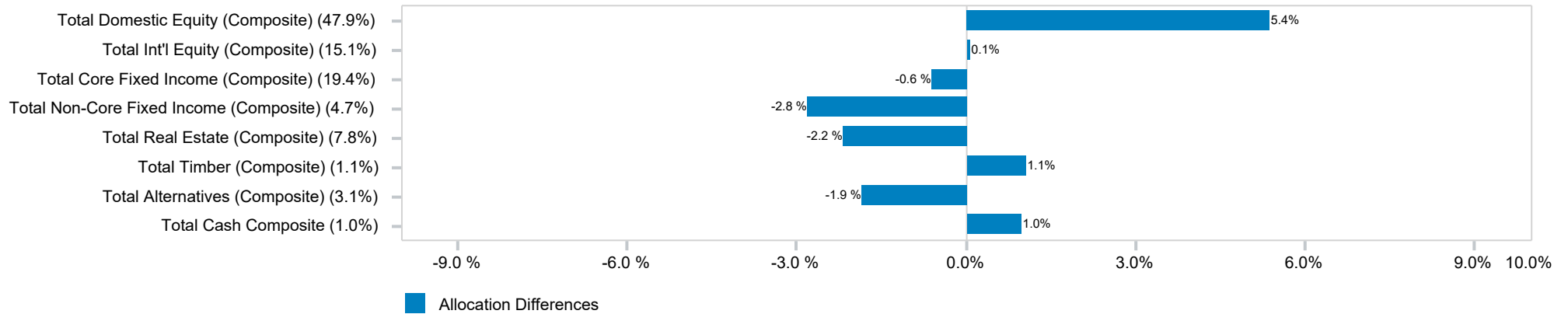


**Asset Allocation Compliance**  
**Delray Beach Police Officers' Retirement System Total Fund (Composite)**

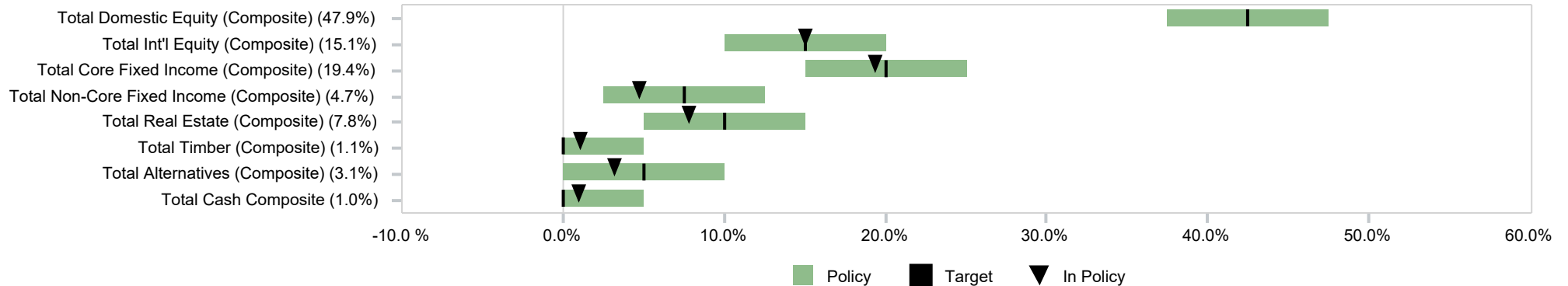
As of June 30, 2020

**Asset Allocation Compliance**

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund (Composite)	103,436,196	100.00	100.00	0.00	-
Total Domestic Equity (Composite)	49,514,702	47.87	42.50	5.37	-5,554,319
Total Int'l Equity (Composite)	15,589,601	15.07	15.00	0.07	-74,171
Total Core Fixed Income (Composite)	20,047,086	19.38	20.00	-0.62	640,153
Total Non-Core Fixed Income (Composite)	4,845,937	4.68	7.50	-2.82	2,911,778
Total Real Estate (Composite)	8,087,071	7.82	10.00	-2.18	2,256,549
Total Timber (Composite)	1,104,175	1.07	0.00	1.07	-1,104,175
Total Alternatives (Composite)	3,251,383	3.14	5.00	-1.86	1,920,427
Total Cash Composite	996,242	0.96	0.00	0.96	-996,242



**Executive Summary**



**Comparative Performance**  
**Total Fund Trailing Returns**  
As of June 30, 2020

<b>Comparative Performance</b>										
	<b>QTR</b>	<b>YTD</b>	<b>FYTD</b>	<b>1 YR</b>	<b>2 YR</b>	<b>3 YR</b>	<b>5 YR</b>	<b>Inception</b>	<b>Inception Date</b>	
<b>Total Fund (Net)</b>	<b>13.52 (30)</b>	<b>-2.28 (47)</b>	<b>3.46 (27)</b>	<b>4.29 (28)</b>	<b>5.69 (21)</b>	<b>6.41 (13)</b>	<b>6.08 (14)</b>	<b>5.29 (47)</b>	<b>10/01/2005</b>	
Total Fund Policy	13.09 (37)	-0.75 (25)	4.71 (16)	5.70 (16)	6.68 (14)	7.28 (9)	7.22 (6)	6.33 (11)		
Difference	0.43	-1.53	-1.25	-1.41	-0.99	-0.87	-1.14	-1.04		
IM Mixed-Asset Target Alloc Moderate (MF) Median	11.94	-2.55	1.67	2.69	4.04	4.52	4.74	5.21		
<b>Total Fund (Gross)</b>	<b>13.58 (28)</b>	<b>-2.17 (42)</b>	<b>3.63 (26)</b>	<b>4.53 (28)</b>	<b>5.98 (16)</b>	<b>6.73 (20)</b>	<b>6.47 (23)</b>	<b>5.74 (74)</b>	<b>10/01/2005</b>	
Total Fund Policy	13.09 (33)	-0.75 (18)	4.71 (13)	5.70 (13)	6.68 (9)	7.28 (9)	7.22 (6)	6.33 (37)		
Difference	0.49	-1.42	-1.08	-1.17	-0.70	-0.55	-0.75	-0.59		
All Public Plans-Total Fund Median	12.23	-2.71	2.44	3.26	4.86	5.70	5.90	6.17		
<b>Total Equity (Composite)</b>	<b>20.91</b>	<b>-4.78</b>	<b>3.98</b>	<b>4.61</b>	<b>5.96</b>	<b>8.14</b>	<b>7.52</b>	<b>6.71</b>	<b>10/01/2005</b>	
Total Equity Policy	21.06	-4.94	3.53	3.65	5.27	7.79	7.79	6.30		
Difference	-0.15	0.16	0.45	0.96	0.69	0.35	-0.27	0.41		
<b>Total Domestic Equity (Composite)</b>	<b>21.78 (53)</b>	<b>-4.76 (51)</b>	<b>3.71 (48)</b>	<b>5.39 (46)</b>	<b>7.62 (43)</b>	<b>9.56 (47)</b>	<b>8.61 (52)</b>	<b>7.64 (68)</b>	<b>10/01/2005</b>	
Total Domestic Equity Policy	22.69 (43)	-2.88 (40)	5.75 (39)	6.54 (41)	7.65 (43)	10.02 (43)	9.94 (41)	8.60 (49)		
Difference	-0.91	-1.88	-2.04	-1.15	-0.03	-0.46	-1.33	-0.96		
IM U.S. All Cap Equity (SA+CF+MF) Median	22.01	-4.67	2.82	4.37	5.85	8.79	8.79	8.51		
<b>Total Int'l Equity (Composite)</b>	<b>18.24 (30)</b>	<b>-4.84 (16)</b>	<b>4.83 (15)</b>	<b>2.33 (18)</b>	<b>1.51 (23)</b>	<b>4.37 (21)</b>	<b>4.25 (25)</b>	<b>3.92 (13)</b>	<b>05/01/2007</b>	
Total Int'l Policy	16.12 (64)	-11.00 (61)	-3.06 (56)	-4.80 (65)	-1.80 (56)	1.13 (59)	2.26 (59)	0.75 (96)		
Difference	2.12	6.16	7.89	7.13	3.31	3.24	1.99	3.17		
IM International Large Cap Core Equity (SA+CF) Median	16.81	-10.26	-2.19	-3.28	-1.38	1.99	2.69	2.54		
<b>Total Fixed Income (Composite)</b>	<b>3.94 (83)</b>	<b>3.93 (66)</b>	<b>4.40 (68)</b>	<b>6.09 (71)</b>	<b>6.40 (78)</b>	<b>4.69 (76)</b>	<b>4.60 (66)</b>	<b>5.24 (53)</b>	<b>10/01/2005</b>	
Total Fixed Policy	2.90 (94)	6.14 (32)	6.33 (37)	8.74 (40)	8.30 (50)	5.32 (58)	4.30 (80)	4.55 (90)		
Difference	1.04	-2.21	-1.93	-2.65	-1.90	-0.63	0.30	0.69		
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	5.75	5.32	5.84	8.21	8.28	5.47	4.78	5.27		
<b>Total Real Estate (Composite)</b>	<b>-0.72 (44)</b>	<b>0.07 (46)</b>	<b>1.21 (55)</b>	<b>1.41 (71)</b>	<b>5.01 (57)</b>	<b>6.48 (57)</b>	<b>7.73 (62)</b>	<b>4.33 (100)</b>	<b>07/01/2007</b>	
NCREIF ODCE	-1.27 (67)	-0.37 (50)	1.16 (55)	2.56 (63)	4.71 (61)	5.99 (66)	7.63 (63)	5.28 (72)		
Difference	0.55	0.44	0.05	-1.15	0.30	0.49	0.10	-0.95		
IM U.S. Open End Private Real Estate (SA+CF) Median	-1.14	-0.48	1.76	2.78	5.30	6.54	8.15	5.70		
<b>Total Timber (Composite)</b>	<b>0.00</b>	<b>-0.11</b>	<b>-4.38</b>	<b>-3.04</b>	<b>0.67</b>	<b>-2.89</b>	<b>-0.42</b>	<b>2.35</b>	<b>07/01/2007</b>	
NCREIF Timberland Index	0.08	0.19	0.15	0.34	1.64	2.28	2.71	4.78		
Difference	-0.08	-0.30	-4.53	-3.38	-0.97	-5.17	-3.13	-2.43		
<b>Total Alternatives (Composite)</b>	<b>9.45</b>	<b>-3.34</b>	<b>-1.00</b>	<b>0.27</b>	<b>3.65</b>	<b>3.49</b>	<b>4.19</b>	<b>1.51</b>	<b>08/01/2010</b>	
Alternatives Policy	11.55	1.92	6.58	8.72	9.18	8.40	7.78	4.98		
Difference	-2.10	-5.26	-7.58	-8.45	-5.53	-4.91	-3.59	-3.47		



**Comparative Performance  
Total Fund Trailing Returns**

As of June 30, 2020

	QTR	YTD	FYTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
<b>Total Domestic Equity (Composite)</b>	<b>21.78</b>	<b>-4.76</b>	<b>3.71</b>	<b>5.39</b>	<b>7.62</b>	<b>9.56</b>	<b>8.61</b>	<b>7.64</b>	<b>10/01/2005</b>
Vanguard Total Stock Mkt (VTSAX)	22.08 (47)	-3.40 (37)	5.30 (34)	6.44 (32)	N/A	N/A	N/A	8.54 (33)	04/01/2019
CRSP U.S. Total Market TR Index	22.09 (47)	-3.40 (37)	5.30 (34)	6.47 (32)	7.72 (32)	10.04 (31)	10.03 (26)	8.56 (33)	
Difference	-0.01	0.00	0.00	-0.03	N/A	N/A	N/A	-0.02	
IM U.S. Equity (MF) Median	21.49	-8.59	-2.53	-1.77	2.00	4.80	5.91	0.93	
Rhumblin R1000V	14.25 (79)	-16.18 (65)	-9.99 (67)	-8.77 (67)	-0.53 (55)	N/A	N/A	-1.10 (59)	01/01/2018
Russell 1000 Value Index	14.29 (79)	-16.26 (66)	-10.06 (68)	-8.84 (67)	-0.56 (56)	1.82 (64)	4.64 (62)	-1.13 (59)	
Difference	-0.04	0.08	0.07	0.07	0.03	N/A	N/A	0.03	
IM U.S. Large Cap Value Equity (SA+CF) Median	16.98	-14.65	-7.95	-6.61	-0.26	3.16	5.32	-0.23	
Boston LCV	17.93 (38)	-18.84 (85)	-12.01 (82)	-9.56 (71)	-1.79 (66)	N/A	N/A	-1.48 (63)	01/01/2018
Russell 1000 Value Index	14.29 (79)	-16.26 (66)	-10.06 (68)	-8.84 (67)	-0.56 (56)	1.82 (64)	4.64 (62)	-1.13 (59)	
Difference	3.64	-2.58	-1.95	-0.72	-1.23	N/A	N/A	-0.35	
IM U.S. Large Cap Value Equity (SA+CF) Median	16.98	-14.65	-7.95	-6.61	-0.26	3.16	5.32	-0.23	
<b>Total Growth (Composite)</b>	<b>27.64 (51)</b>	<b>10.78 (47)</b>	<b>22.77 (38)</b>	<b>24.11 (26)</b>	<b>21.84 (6)</b>	<b>19.91 (37)</b>	<b>14.34 (67)</b>	<b>7.93 (97)</b>	<b>07/01/2007</b>
Russell 1000 Growth Index	27.84 (49)	9.81 (57)	21.48 (49)	23.28 (37)	17.27 (44)	18.99 (50)	15.89 (39)	11.16 (50)	
Difference	-0.20	0.97	1.29	0.83	4.57	0.92	-1.55	-3.23	
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	27.68	10.55	21.41	21.67	16.75	18.95	15.40	11.15	
Rhumblin R1000G	27.78 (37)	9.84 (44)	21.49 (37)	23.30 (29)	17.27 (36)	N/A	N/A	16.82 (41)	01/01/2018
Russell 1000 Growth Index	27.84 (37)	9.81 (44)	21.48 (37)	23.28 (29)	17.27 (36)	18.99 (37)	15.89 (29)	16.82 (41)	
Difference	-0.06	0.03	0.01	0.02	0.00	N/A	N/A	0.00	
IM U.S. Large Cap Growth Equity (SA+CF) Median	26.58	8.79	19.50	19.56	15.65	17.42	14.27	15.66	
Polen Capital LCG	27.60 (40)	11.07 (33)	23.16 (25)	24.36 (21)	N/A	N/A	N/A	33.78 (21)	01/01/2019
Russell 1000 Growth Index	27.84 (37)	9.81 (44)	21.48 (37)	23.28 (29)	17.27 (36)	18.99 (37)	15.89 (29)	30.91 (37)	
Difference	-0.24	1.26	1.68	1.08	N/A	N/A	N/A	2.87	
IM U.S. Large Cap Growth Equity (SA+CF) Median	26.58	8.79	19.50	19.56	15.65	17.42	14.27	28.06	
Vanguard Mid-Cap Index (VIMAX)	24.96 (22)	-7.18 (15)	-0.80 (15)	-0.20 (16)	3.74 (13)	6.45 (12)	6.98 (13)	6.98 (13)	07/01/2015
CRSP U.S. Mid Cap TR Index	24.97 (21)	-7.20 (15)	-0.82 (15)	-0.20 (16)	3.75 (12)	6.47 (11)	7.01 (11)	7.01 (11)	
Difference	-0.01	0.02	0.02	0.00	-0.01	-0.02	-0.03	-0.03	
IM U.S. Mid Cap Core Equity (MF) Median	20.77	-12.42	-6.38	-6.15	-1.29	2.34	3.60	3.60	
Clarkston Partners (CISMX)	16.72 (71)	-8.67 (1)	-2.33 (1)	-0.85 (1)	0.94 (1)	N/A	N/A	2.01 (1)	01/01/2018
Russell 2500 Value Index	20.60 (55)	-21.18 (56)	-15.61 (55)	-15.50 (45)	-8.96 (46)	-2.60 (43)	1.85 (21)	-6.14 (42)	
Difference	-3.88	12.51	13.28	14.65	9.90	N/A	N/A	8.15	
IM U.S. SMID Cap Value Equity (MF) Median	21.00	-20.98	-15.20	-16.23	-10.12	-3.54	0.70	-8.72	



**Comparative Performance**  
**Total Fund Trailing Returns**  
As of June 30, 2020

	<b>QTR</b>	<b>YTD</b>	<b>FYTD</b>	<b>1 YR</b>	<b>2 YR</b>	<b>3 YR</b>	<b>5 YR</b>	<b>Inception</b>	<b>Inception Date</b>
<b>Total Int'l Equity (Composite)</b>	<b>18.24 (30)</b>	<b>-4.84 (16)</b>	<b>4.83 (15)</b>	<b>2.33 (18)</b>	<b>1.51 (23)</b>	<b>4.37 (21)</b>	<b>4.25 (25)</b>	<b>3.92 (13)</b>	<b>05/01/2007</b>
Total Int'l Policy	16.12 (64)	-11.00 (61)	-3.06 (56)	-4.80 (65)	-1.80 (56)	1.13 (59)	2.26 (59)	0.75 (96)	
Difference	2.12	6.16	7.89	7.13	3.31	3.24	1.99	3.17	
IM International Large Cap Core Equity (SA+CF) Median	16.81	-10.26	-2.19	-3.28	-1.38	1.99	2.69	2.54	
Harding Loevner Intl Equity (HLIZX)	18.24 (54)	-4.62 (25)	5.00 (26)	2.48 (27)	1.58 (28)	4.42 (23)	N/A	6.65 (27)	09/01/2016
MSCI AC World ex USA (Net)	16.12 (75)	-11.00 (60)	-3.06 (60)	-4.80 (60)	-1.80 (51)	1.13 (49)	2.26 (51)	4.41 (48)	
Difference	2.12	6.38	8.06	7.28	3.38	3.29	N/A	2.24	
IM International Equity (MF) Median	18.60	-9.65	-0.98	-3.02	-1.72	0.98	2.30	4.23	



**Comparative Performance  
Total Fund Trailing Returns**

As of June 30, 2020

	QTR	YTD	FYTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
<b>Total Core Fixed Income (Composite)</b>	<b>4.95</b>	<b>6.53</b>	<b>6.52</b>	<b>9.07</b>	<b>7.52</b>	<b>5.05</b>	<b>4.42</b>	<b>4.56</b>	<b>10/01/2005</b>
Total Fixed Policy	2.90	6.14	6.33	8.74	8.30	5.32	4.30	4.55	
Difference	2.05	0.39	0.19	0.33	-0.78	-0.27	0.12	0.01	
Garcia Hamilton Fixed Income	4.95 (32)	6.53 (41)	6.52 (48)	9.07 (45)	7.52 (92)	N/A	N/A	5.95 (72)	01/01/2018
Blmbg. Barc. U.S. Aggregate Index	2.90 (90)	6.14 (60)	6.33 (65)	8.74 (68)	8.30 (75)	5.32 (84)	4.30 (90)	5.90 (76)	
Difference	2.05	0.39	0.19	0.33	-0.78	N/A	N/A	0.05	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	4.42	6.24	6.47	8.93	8.54	5.57	4.70	6.13	
<b>Total Non-Core Fixed Income (Composite)</b>	<b>0.20</b>	<b>-5.02</b>	<b>-3.06</b>	<b>-3.90</b>	<b>2.03</b>	<b>2.63</b>	<b>4.02</b>	<b>6.85</b>	<b>07/01/2010</b>
Bloomberg Barclays Global Aggregate	3.32	2.98	3.48	4.22	5.03	3.79	3.56	2.81	
Difference	-3.12	-8.00	-6.54	-8.12	-3.00	-1.16	0.46	4.04	
Templeton Global Total Return (FTTRX)	0.36 (100)	-5.82 (100)	-4.04 (100)	-7.01 (100)	-0.15 (100)	-0.71 (100)	0.99 (100)	2.32 (53)	07/01/2011
Blmbg. Barc. Global Multiverse	3.68 (90)	2.53 (29)	3.19 (31)	3.84 (33)	4.92 (50)	3.72 (37)	3.63 (36)	2.13 (59)	
Difference	-3.32	-8.35	-7.23	-10.85	-5.07	-4.43	-2.64	0.19	
IM Global Fixed Income (MF) Median	5.56	1.89	2.11	3.18	4.92	3.43	3.32	2.36	
<b>Total Real Estate (Composite)</b>	<b>-0.72</b>	<b>0.07</b>	<b>1.21</b>	<b>1.41</b>	<b>5.01</b>	<b>6.48</b>	<b>7.73</b>	<b>4.33</b>	<b>07/01/2007</b>
American Core Realty	-1.23 (62)	0.29 (39)	1.76 (50)	3.22 (45)	5.39 (39)	6.31 (61)	7.39 (65)	5.36 (69)	07/01/2007
NCREIF ODCE	-1.27 (67)	-0.37 (50)	1.16 (55)	2.56 (63)	4.71 (61)	5.99 (66)	7.63 (63)	5.28 (72)	
Difference	0.04	0.66	0.60	0.66	0.68	0.32	-0.24	0.08	
IM U.S. Open End Private Real Estate (SA+CF) Median	-1.14	-0.48	1.76	2.78	5.30	6.54	8.15	5.70	
<b>Total Timber (Composite)</b>	<b>0.00</b>	<b>-0.11</b>	<b>-4.38</b>	<b>-3.04</b>	<b>0.67</b>	<b>-2.89</b>	<b>-0.42</b>	<b>2.35</b>	<b>07/01/2007</b>
Molpus Woodlands Timber	0.00	-0.11	-4.38	-3.04	0.83	-0.44	1.17	2.13	06/01/2008
NCREIF Timberland Index	0.08	0.19	0.15	0.34	1.64	2.28	2.71	3.62	
Difference	-0.08	-0.30	-4.53	-3.38	-0.81	-2.72	-1.54	-1.49	
<b>Alternatives</b>									
Blackrock Multi-Asset Income (BKMIX)	9.45 (70)	-3.34 (33)	-1.00 (44)	0.27 (44)	N/A	N/A	N/A	2.44 (45)	04/01/2019
50% MSCI World Index (Net)/50% BB US Agg Index	10.96 (55)	0.51 (13)	4.84 (13)	6.35 (12)	6.92 (6)	6.38 (9)	5.89 (9)	8.12 (9)	
Difference	-1.51	-3.85	-5.84	-6.08	N/A	N/A	N/A	-5.68	
IM Flexible Portfolio (MF) Median	11.29	-5.63	-1.57	-0.52	1.55	2.61	3.55	1.63	

^ Some products shown on IRR page.



As of June 30, 2020

**Comparative Performance - IRR**

	<b>QTR</b>	<b>Inception</b>	<b>Inception Date</b>
Molpus Woodlands Timber	0.00	1.99	06/24/2008
Angelo Gordon Net Lease Realty Fund III, L.P.	0.00	6.52	03/10/2014
Dune Real Estate Fund III	0.00	10.39	11/06/2014
Crescent Direct Lending Levered Fund	0.00	7.07	10/09/2014





**Comparative Performance**  
**Total Fund Trailing Returns**  
As of June 30, 2020

<b>Comparative Performance</b>												
	<b>FYTD</b>	<b>Oct-2018 To Sep-2019</b>	<b>Oct-2017 To Sep-2018</b>	<b>Oct-2016 To Sep-2017</b>	<b>Oct-2015 To Sep-2016</b>	<b>Oct-2014 To Sep-2015</b>	<b>Oct-2013 To Sep-2014</b>	<b>Oct-2012 To Sep-2013</b>	<b>Oct-2011 To Sep-2012</b>	<b>Oct-2010 To Sep-2011</b>	<b>Oct-2009 To Sep-2010</b>	
<b>Total Fund (Net)</b>	<b>3.46 (27)</b>	<b>4.49 (45)</b>	<b>8.11 (14)</b>	<b>11.07 (30)</b>	<b>8.82 (51)</b>	<b>-1.22 (28)</b>	<b>10.01 (29)</b>	<b>10.96 (41)</b>	<b>16.79 (51)</b>	<b>1.26 (20)</b>	<b>8.88 (57)</b>	
Total Fund Policy	4.71 (16)	5.02 (34)	8.59 (12)	11.90 (17)	10.34 (19)	0.55 (5)	10.23 (26)	10.24 (52)	15.21 (75)	2.15 (12)	9.18 (53)	
Difference	-1.25	-0.53	-0.48	-0.83	-1.52	-1.77	-0.22	0.72	1.58	-0.89	-0.30	
IM Mixed-Asset Target Alloc Moderate (MF) Median	1.67	4.00	5.09	10.04	8.82	-2.35	8.37	10.34	16.89	-0.53	9.34	
<b>Total Fund (Gross)</b>	<b>3.63 (26)</b>	<b>4.79 (35)</b>	<b>8.47 (26)</b>	<b>11.48 (58)</b>	<b>9.41 (60)</b>	<b>-0.72 (49)</b>	<b>10.58 (38)</b>	<b>11.52 (59)</b>	<b>17.35 (53)</b>	<b>1.61 (34)</b>	<b>9.34 (64)</b>	
Total Fund Policy	4.71 (13)	5.02 (29)	8.59 (24)	11.90 (50)	10.34 (33)	0.55 (21)	10.23 (46)	10.24 (71)	15.21 (77)	2.15 (24)	9.18 (69)	
Difference	-1.08	-0.23	-0.12	-0.42	-0.93	-1.27	0.35	1.28	2.14	-0.54	0.16	
All Public Plans-Total Fund Median	2.44	4.31	7.14	11.84	9.74	-0.78	9.93	12.05	17.58	0.68	9.90	
<b>Total Equity (Composite)</b>	<b>3.98</b>	<b>2.91</b>	<b>12.88</b>	<b>16.39</b>	<b>11.59</b>	<b>-3.61</b>	<b>13.96</b>	<b>21.06</b>	<b>25.94</b>	<b>-0.85</b>	<b>11.43</b>	
Total Equity Policy	3.53	1.49	13.60	18.94	13.34	-6.20	11.73	19.62	22.72	-4.71	11.22	
Difference	0.45	1.42	-0.72	-2.55	-1.75	2.59	2.23	1.44	3.22	3.86	0.21	
<b>Total Domestic Equity (Composite)</b>	<b>3.71 (48)</b>	<b>5.16 (25)</b>	<b>15.75 (52)</b>	<b>14.97 (86)</b>	<b>12.80 (48)</b>	<b>-1.73 (61)</b>	<b>17.23 (48)</b>	<b>22.56 (64)</b>	<b>27.44 (57)</b>	<b>3.01 (22)</b>	<b>11.37 (48)</b>	
Total Domestic Equity Policy	5.75 (39)	2.36 (46)	17.73 (41)	18.62 (56)	14.77 (26)	-1.18 (56)	17.67 (42)	22.03 (68)	29.64 (39)	0.48 (39)	11.12 (50)	
Difference	-2.04	2.80	-1.98	-3.65	-1.97	-0.55	-0.44	0.53	-2.20	2.53	0.25	
IM U.S. All Cap Equity (SA+CF+MF) Median	2.82	1.90	15.95	19.06	12.57	-0.54	17.08	24.68	28.32	-0.56	11.08	
<b>Total Int'l Equity (Composite)</b>	<b>4.83 (15)</b>	<b>-3.33 (75)</b>	<b>5.86 (14)</b>	<b>18.68 (69)</b>	<b>7.98 (50)</b>	<b>-8.63 (65)</b>	<b>6.07 (51)</b>	<b>16.67 (89)</b>	<b>21.58 (5)</b>	<b>-10.95 (70)</b>	<b>9.69 (16)</b>	
Total Int'l Policy	-3.06 (56)	-1.23 (47)	1.76 (60)	19.61 (59)	9.26 (33)	-12.16 (90)	4.77 (64)	16.48 (90)	14.49 (82)	-10.81 (69)	5.94 (54)	
Difference	7.89	-2.10	4.10	-0.93	-1.28	3.53	1.30	0.19	7.09	-0.14	3.75	
IM International Large Cap Core Equity (SA+CF) Median	-2.19	-1.56	2.53	20.30	7.91	-7.16	6.10	22.60	17.31	-9.40	6.24	
<b>Total Fixed Income (Composite)</b>	<b>4.40 (68)</b>	<b>7.95 (82)</b>	<b>0.97 (20)</b>	<b>3.91 (25)</b>	<b>5.81 (64)</b>	<b>2.09 (62)</b>	<b>6.00 (34)</b>	<b>2.81 (12)</b>	<b>11.79 (18)</b>	<b>3.12 (83)</b>	<b>9.16 (75)</b>	
Total Fixed Policy	6.33 (37)	10.30 (52)	-1.22 (90)	0.07 (93)	5.19 (84)	2.94 (30)	3.96 (86)	-2.35 (97)	5.75 (89)	5.96 (14)	8.63 (84)	
Difference	-1.93	-2.35	2.19	3.84	0.62	-0.85	2.04	5.16	6.04	-2.84	0.53	
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	5.84	10.33	-0.45	1.86	6.28	2.52	5.35	-0.41	8.34	4.99	10.60	
<b>Total Real Estate (Composite)</b>	<b>1.21 (55)</b>	<b>5.87 (74)</b>	<b>10.09 (29)</b>	<b>9.82 (29)</b>	<b>9.06 (94)</b>	<b>14.70 (61)</b>	<b>12.33 (68)</b>	<b>8.10 (100)</b>	<b>13.00 (47)</b>	<b>14.11 (88)</b>	<b>10.94 (9)</b>	
NCREIF ODCE	1.16 (55)	6.17 (72)	8.82 (59)	7.81 (56)	10.62 (68)	14.71 (61)	12.39 (67)	12.47 (69)	11.77 (64)	18.03 (43)	6.14 (53)	
Difference	0.05	-0.30	1.27	2.01	-1.56	-0.01	-0.06	-4.37	1.23	-3.92	4.80	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.76	6.89	9.04	8.05	11.32	15.45	12.78	13.28	12.89	16.62	6.41	
<b>Total Timber (Composite)</b>	<b>-4.38</b>	<b>5.58</b>	<b>-9.38</b>	<b>0.28</b>	<b>6.48</b>	<b>6.70</b>	<b>9.49</b>	<b>4.51</b>	<b>-5.86</b>	<b>3.87</b>	<b>-0.21</b>	
NCREIF Timberland Index	0.15	2.10	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26	-3.93	
Difference	-4.53	3.48	-13.38	-3.00	3.20	-2.56	-0.89	-5.17	-8.11	3.61	3.72	
<b>Total Alternatives (Composite)</b>	<b>-1.00</b>	<b>5.25</b>	<b>4.93</b>	<b>8.16</b>	<b>9.11</b>	<b>-3.68</b>	<b>6.84</b>	<b>-9.88</b>	<b>-8.55</b>	<b>-0.85</b>	<b>N/A</b>	
Alternatives Policy	6.58	7.72	8.07	9.04	10.41	1.09	7.56	-3.91	-2.59	1.58	N/A	
Difference	-7.58	-2.47	-3.14	-0.88	-1.30	-4.77	-0.72	-5.97	-5.96	-2.43	N/A	



**Comparative Performance  
Total Fund Trailing Returns**

As of June 30, 2020

	FYTD	Oct-2018 To Sep-2019	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	Oct-2009 To Sep-2010
<b>Total Domestic Equity (Composite)</b>	<b>3.71</b>	<b>5.16</b>	<b>15.75</b>	<b>14.97</b>	<b>12.80</b>	<b>-1.73</b>	<b>17.23</b>	<b>22.56</b>	<b>27.44</b>	<b>3.01</b>	<b>11.37</b>
Rhumblin R1000V	-9.99 (67)	4.00 (39)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index	-10.06 (68)	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)	8.90 (56)
Difference	0.07	0.00	N/A	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	-7.95	2.45	11.80	17.92	13.30	-3.29	18.36	23.68	28.16	-0.98	9.43
Boston LCV	-12.01 (82)	3.28 (44)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index	-10.06 (68)	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)	8.90 (56)
Difference	-1.95	-0.72	N/A	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	-7.95	2.45	11.80	17.92	13.30	-3.29	18.36	23.68	28.16	-0.98	9.43
<b>Total Growth (Composite)</b>	<b>22.77 (38)</b>	<b>11.10 (6)</b>	<b>22.18 (79)</b>	<b>14.68 (97)</b>	<b>7.63 (92)</b>	<b>4.20 (42)</b>	<b>18.19 (51)</b>	<b>18.74 (70)</b>	<b>29.37 (43)</b>	<b>8.43 (3)</b>	<b>7.97 (87)</b>
Russell 1000 Growth Index	21.48 (49)	3.71 (49)	26.30 (45)	21.94 (40)	13.76 (25)	3.17 (59)	19.15 (38)	19.27 (64)	29.19 (44)	3.78 (27)	12.65 (38)
Difference	1.29	7.39	-4.12	-7.26	-6.13	1.03	-0.96	-0.53	0.18	4.65	-4.68
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	21.41	3.60	25.67	21.29	12.10	3.85	18.22	20.68	28.45	1.68	11.38
Vanguard Total Stock Mkt (VTSAX)	5.30 (34)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Total Market TR Index	5.30 (34)	2.92 (34)	17.62 (31)	18.64 (40)	14.99 (27)	-0.55 (47)	17.77 (23)	21.59 (55)	29.96 (29)	0.46 (32)	11.68 (45)
Difference	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Equity (MF) Median	-2.53	0.12	13.30	17.48	12.13	-0.92	13.75	22.53	27.33	-1.87	10.88
Rhumblin R1000G	21.49 (37)	3.70 (53)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	21.48 (37)	3.71 (53)	26.30 (37)	21.94 (38)	13.76 (23)	3.17 (54)	19.15 (40)	19.27 (64)	29.19 (39)	3.78 (30)	12.65 (36)
Difference	0.01	-0.01	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	19.50	3.84	24.41	20.83	11.69	3.50	18.20	20.26	27.71	1.40	11.28
Sawgrass Large Cap Growth	N/A	N/A	21.71 (66)	14.68 (92)	7.63 (87)	4.20 (40)	18.19 (51)	18.74 (69)	29.37 (38)	N/A	N/A
Russell 1000 Growth Index	21.48 (37)	3.71 (53)	26.30 (37)	21.94 (38)	13.76 (23)	3.17 (54)	19.15 (40)	19.27 (64)	29.19 (39)	3.78 (30)	12.65 (36)
Difference	N/A	N/A	-4.59	-7.26	-6.13	1.03	-0.96	-0.53	0.18	N/A	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median	19.50	3.84	24.41	20.83	11.69	3.50	18.20	20.26	27.71	1.40	11.28
Polen Capital LCG	23.16 (25)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	21.48 (37)	3.71 (53)	26.30 (37)	21.94 (38)	13.76 (23)	3.17 (54)	19.15 (40)	19.27 (64)	29.19 (39)	3.78 (30)	12.65 (36)
Difference	1.68	N/A	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	19.50	3.84	24.41	20.83	11.69	3.50	18.20	20.26	27.71	1.40	11.28
Vanguard Mid-Cap Index (VIMAX)	-0.80 (15)	3.65 (24)	13.42 (30)	15.30 (49)	12.63 (40)	N/A	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Mid Cap TR Index	-0.82 (15)	3.70 (22)	13.44 (30)	15.33 (47)	12.68 (39)	1.76 (22)	15.94 (13)	28.08 (41)	26.23 (50)	-0.18 (22)	18.04 (10)
Difference	0.02	-0.05	-0.02	-0.03	-0.05	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Mid Cap Core Equity (MF) Median	-6.38	1.09	10.84	15.25	11.87	-1.05	12.32	27.52	26.17	-3.68	13.71



**Comparative Performance  
Total Fund Trailing Returns**

As of June 30, 2020

	FYTD	Oct-2018 To Sep-2019	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	Oct-2009 To Sep-2010
Clarkston Partners (CISMXX)	-2.33 (1)	3.45 (4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Value Index	-15.61 (55)	-4.35 (59)	10.24 (26)	15.75 (53)	17.68 (9)	-2.44 (41)	9.88 (83)	27.58 (59)	32.15 (42)	-4.70 (18)	14.74 (58)
Difference	13.28	7.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. SMID Cap Value Equity (MF) Median	-15.20	-3.49	8.40	16.72	11.53	-2.57	13.27	27.99	31.14	-7.93	15.33
<b>Total Int'l Equity (Composite)</b>	<b>4.83 (15)</b>	<b>-3.33 (75)</b>	<b>5.86 (14)</b>	<b>18.68 (69)</b>	<b>7.98 (50)</b>	<b>-8.63 (65)</b>	<b>6.07 (51)</b>	<b>16.67 (89)</b>	<b>21.58 (5)</b>	<b>-10.95 (70)</b>	<b>9.69 (16)</b>
Total Int'l Policy	-3.06 (56)	-1.23 (47)	1.76 (60)	19.61 (59)	9.26 (33)	-12.16 (90)	4.77 (64)	16.48 (90)	14.49 (82)	-10.81 (69)	5.94 (54)
Difference	7.89	-2.10	4.10	-0.93	-1.28	3.53	1.30	0.19	7.09	-0.14	3.75
IM International Large Cap Core Equity (SA+CF) Median	-2.19	-1.56	2.53	20.30	7.91	-7.16	6.10	22.60	17.31	-9.40	6.24
Harding Loevner Intl Equity (HLIZX)	5.00 (26)	-3.34 (62)	5.85 (10)	18.65 (58)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI AC World ex USA (Net)	-3.06 (60)	-1.23 (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)	7.56 (55)
Difference	8.06	-2.11	4.09	-0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM International Equity (MF) Median	-0.98	-1.94	0.08	19.36	9.32	-8.75	4.26	17.81	16.20	-12.08	8.61



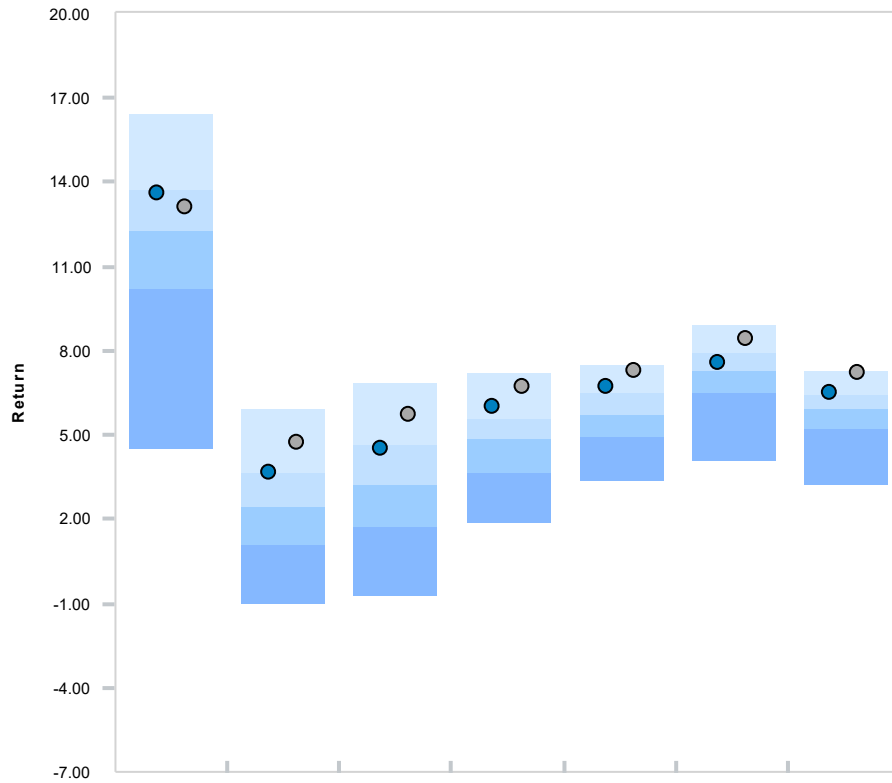
**Comparative Performance  
Total Fund Trailing Returns**

As of June 30, 2020

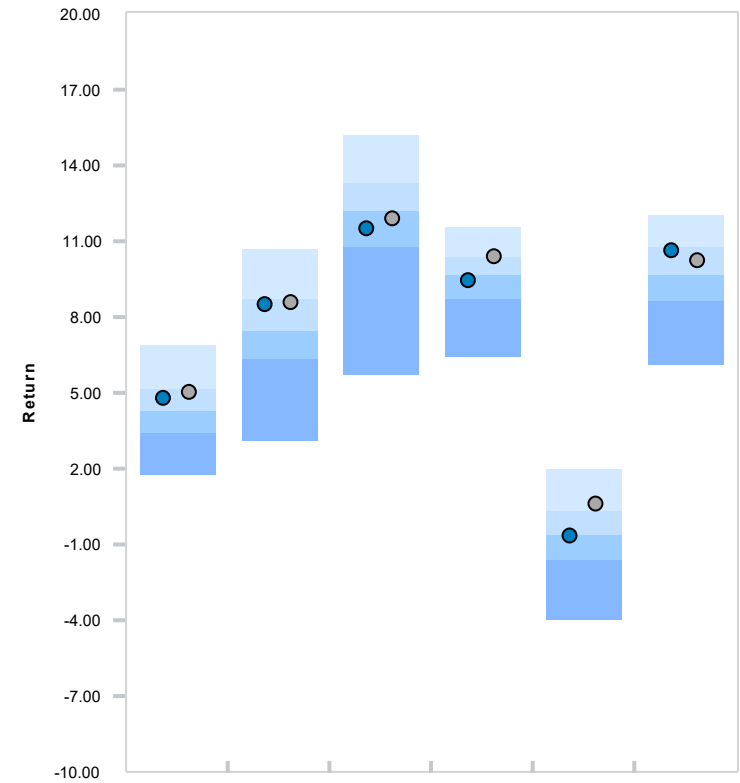
	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010
<b>Total Core Fixed Income (Composite)</b>	<b>6.52</b>	<b>8.75</b>	<b>-0.70</b>	<b>0.79</b>	<b>5.78</b>	<b>3.88</b>	<b>4.40</b>	<b>-1.26</b>	<b>7.71</b>	<b>4.42</b>	<b>8.29</b>
Total Fixed Policy	6.33	10.30	-1.22	0.07	5.19	2.94	3.96	-2.35	5.75	5.96	8.63
Difference	0.19	-1.55	0.52	0.72	0.59	0.94	0.44	1.09	1.96	-1.54	-0.34
Garcia Hamilton Fixed Income	6.52 (48)	8.75 (96)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. Barc. U.S. Aggregate Index	6.33 (65)	10.30 (70)	-1.22 (87)	0.07 (84)	5.19 (80)	2.94 (62)	3.96 (81)	-1.68 (78)	5.16 (89)	5.26 (50)	8.16 (85)
Difference	0.19	-1.55	N/A	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	6.47	10.44	-0.75	0.61	5.66	3.02	4.49	-1.27	6.60	5.26	9.20
<b>Total Non-Core Fixed Income (Composite)</b>	<b>-3.06</b>	<b>5.19</b>	<b>4.99</b>	<b>11.18</b>	<b>6.07</b>	<b>-2.56</b>	<b>9.33</b>	<b>11.74</b>	<b>24.76</b>	<b>-3.22</b>	<b>N/A</b>
Bloomberg Barclays Global Aggregate	3.48	7.60	-1.31	-1.26	8.83	-3.26	1.19	-2.64	5.07	4.00	6.06
Difference	-6.54	-2.41	6.30	12.44	-2.76	0.70	8.14	14.38	19.69	-7.22	N/A
Templeton Global Total Return (FTTRX)	-4.04 (100)	2.49 (99)	-1.90 (66)	13.82 (1)	2.64 (94)	-8.23 (95)	5.71 (22)	5.29 (2)	15.90 (3)	N/A	N/A
Blmbg. Barc. Global Multiverse	3.19 (31)	7.54 (51)	-1.32 (51)	-0.56 (77)	9.23 (25)	-3.56 (42)	1.40 (79)	-2.22 (56)	5.57 (81)	3.85 (11)	6.42 (76)
Difference	-7.23	-5.05	-0.58	14.38	-6.59	-4.67	4.31	7.51	10.33	N/A	N/A
IM Global Fixed Income (MF) Median	2.11	7.65	-1.29	1.02	7.42	-3.85	3.37	-1.81	7.17	1.74	7.68
<b>Total Real Estate (Composite)</b>	<b>1.21</b>	<b>5.87</b>	<b>10.09</b>	<b>9.82</b>	<b>9.06</b>	<b>14.70</b>	<b>12.33</b>	<b>8.10</b>	<b>13.00</b>	<b>14.11</b>	<b>10.94</b>
American Core Realty	1.76 (50)	6.81 (52)	8.50 (65)	7.53 (62)	9.04 (94)	13.98 (68)	12.49 (64)	12.27 (72)	11.56 (66)	16.11 (63)	2.71 (75)
NCREIF ODCE	1.16 (55)	6.17 (72)	8.82 (59)	7.81 (56)	10.62 (68)	14.71 (61)	12.39 (67)	12.47 (69)	11.77 (64)	18.03 (43)	6.14 (53)
Difference	0.60	0.64	-0.32	-0.28	-1.58	-0.73	0.10	-0.20	-0.21	-1.92	-3.43
IM U.S. Open End Private Real Estate (SA+CF) Median	1.76	6.89	9.04	8.05	11.32	15.45	12.78	13.28	12.89	16.62	6.41
<b>Total Timber (Composite)</b>	<b>-4.38</b>	<b>5.58</b>	<b>-9.38</b>	<b>0.28</b>	<b>6.48</b>	<b>6.70</b>	<b>9.49</b>	<b>4.51</b>	<b>-5.86</b>	<b>3.87</b>	<b>-0.21</b>
Amsouth Timber Fund	N/A	N/A	-15.26	-0.52	6.12	11.73	7.98	3.85	-1.33	2.00	1.17
NCREIF Timberland Index	0.15	2.10	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26	-3.93
Difference	N/A	N/A	-19.26	-3.80	2.84	2.47	-2.40	-5.83	-3.58	1.74	5.10
Molpus Woodlands Timber	-4.38	5.91	-2.66	1.18	6.08	1.64	10.96	5.25	-10.32	5.68	-1.66
NCREIF Timberland Index	0.15	2.10	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26	-3.93
Difference	-4.53	3.81	-6.66	-2.10	2.80	-7.62	0.58	-4.43	-12.57	5.42	2.27
<b>Alternatives</b>											
Blackrock Multi-Asset Income (BKMIX)	-1.00 (44)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50% MSCI World Index (Net)/50% BB US Agg Index	4.84 (13)	6.40 (18)	4.93 (36)	8.80 (53)	8.47 (51)	-0.98 (19)	8.10 (49)	8.84 (46)	13.48 (64)	0.72 (35)	7.98 (72)
Difference	-5.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM Flexible Portfolio (MF) Median	-1.57	2.59	3.38	9.02	8.55	-4.22	7.99	8.17	15.66	-0.87	9.52
Westwood Income Opportunity Fund (WHGIX)	N/A	N/A	4.93 (36)	8.14 (60)	9.20 (40)	-3.83 (46)	N/A	N/A	N/A	N/A	N/A
Alternatives Policy	6.58 (8)	7.72 (15)	8.07 (18)	9.04 (50)	10.41 (24)	1.09 (11)	7.56 (55)	-3.91 (95)	-2.59 (100)	1.58 (24)	N/A
Difference	N/A	N/A	-3.14	-0.90	-1.21	-4.92	N/A	N/A	N/A	N/A	N/A
IM Flexible Portfolio (MF) Median	-1.57	2.59	3.38	9.02	8.55	-4.22	7.99	8.17	15.66	-0.87	9.52



Peer Group Analysis - All Public Plans-Total Fund



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Fund (Composite)	13.58 (28)	3.63 (26)	4.53 (28)	5.98 (16)	6.73 (20)	7.53 (39)	6.47 (23)
○ Total Fund Policy	13.09 (33)	4.71 (13)	5.70 (13)	6.68 (9)	7.28 (9)	8.42 (14)	7.22 (6)
Median	12.23	2.44	3.26	4.86	5.70	7.28	5.90



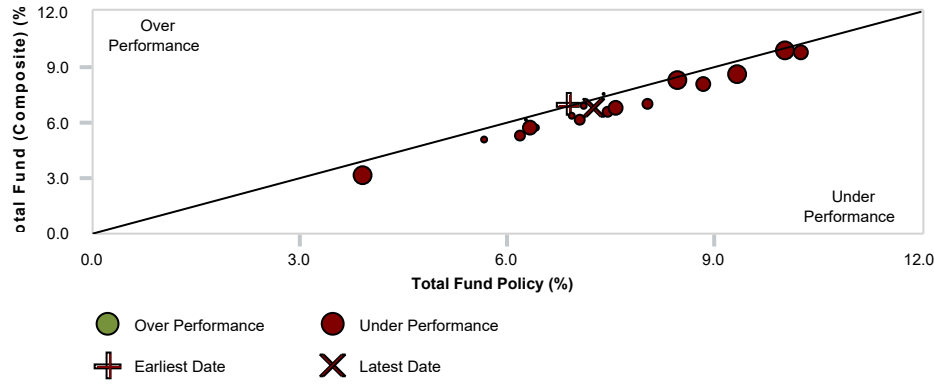
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Total Fund (Composite)	4.79 (35)	8.47 (30)	11.48 (62)	9.41 (58)	-0.72 (52)	10.58 (31)
○ Total Fund Policy	5.02 (29)	8.59 (28)	11.90 (54)	10.34 (26)	0.55 (21)	10.23 (39)
Median	4.31	7.45	12.18	9.68	-0.63	9.65

Comparative Performance

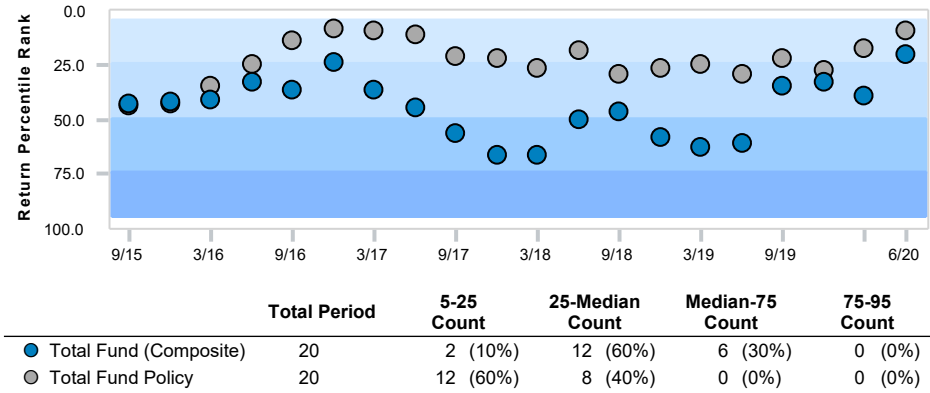
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Total Fund (Composite)	-13.87 (62)	5.93 (21)	0.87 (48)	3.74 (9)	8.71 (42)	-7.88 (58)
Total Fund Policy	-12.24 (35)	5.50 (40)	0.94 (42)	3.41 (32)	8.94 (34)	-7.65 (51)
All Public Plans-Total Fund Median	-13.16	5.25	0.83	3.27	8.46	-7.56



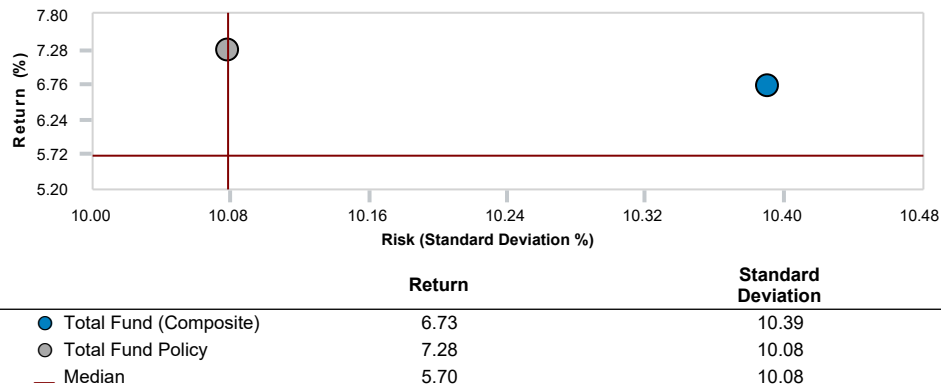
### 3 Yr Rolling Under/Over Performance - 5 Years



### 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 Fund (Composite)	1.31	99.71	104.46	-0.65	-0.37	0.51	1.02	7.57
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.57	1.00	7.03

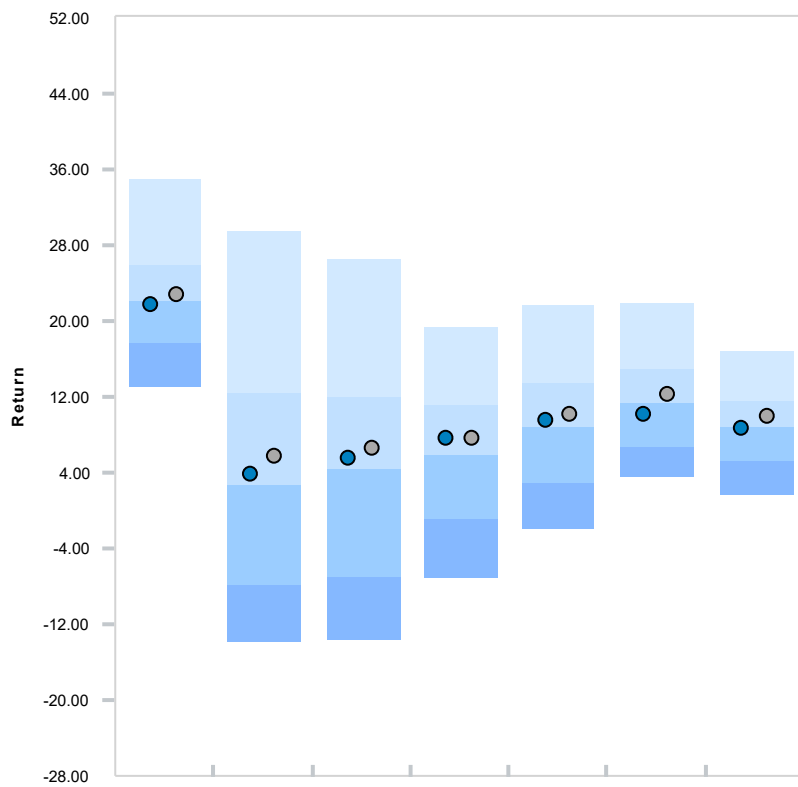
### Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	1.19	98.70	109.82	-1.08	-0.54	0.52	1.06	7.45
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.61	1.00	6.69

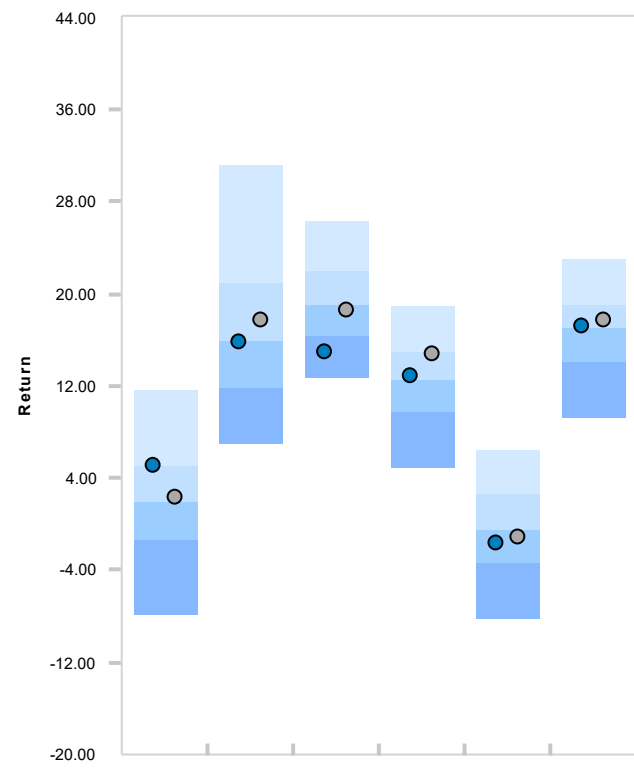




Peer Group Analysis - IM U.S. All Cap Equity (SA+CF+MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Domestic Equity (Composite)	21.78 (53)	3.71 (48)	5.39 (46)	7.62 (43)	9.56 (47)	10.13 (56)	8.61 (52)
● Total Domestic Equity Policy	22.69 (43)	5.75 (39)	6.54 (41)	7.65 (43)	10.02 (43)	12.12 (45)	9.94 (41)
Median	22.01	2.82	4.37	5.85	8.79	11.40	8.79



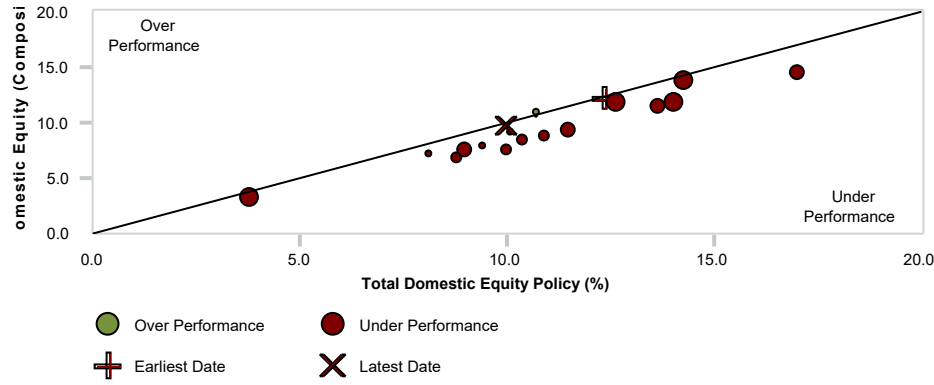
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Total Domestic Equity (Composite)	5.16 (25)	5.75 (52)	4.97 (86)	2.80 (48)	1.73 (61)	7.23 (48)
● Total Domestic Equity Policy	2.36 (46)	7.73 (41)	8.62 (56)	4.77 (26)	1.18 (56)	7.67 (42)
Median	1.90	5.95	9.06	2.57	0.54	7.08

Comparative Performance

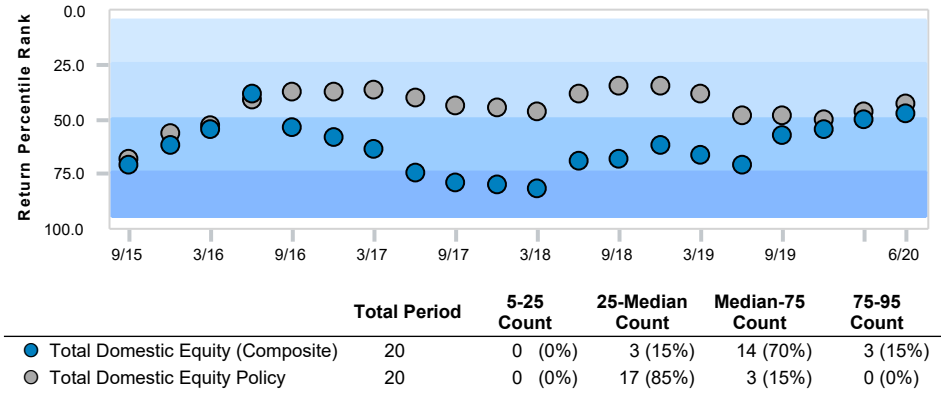
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Total Domestic Equity (Composite)	-21.79 (55)	8.89 (41)	1.62 (29)	5.01 (30)	14.02 (48)	-13.58 (32)
Total Domestic Equity Policy	-20.84 (47)	8.88 (41)	0.75 (55)	3.94 (57)	14.23 (46)	-14.43 (46)
IM U.S. All Cap Equity (SA+CF+MF) Median	-21.28	8.36	0.91	4.11	13.84	-14.72



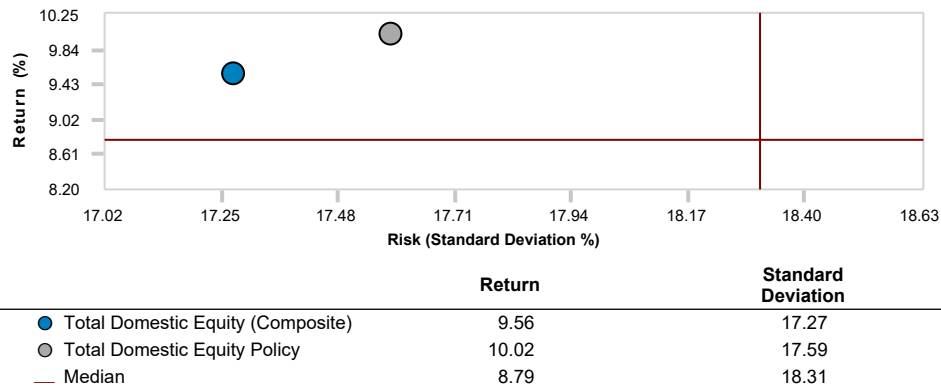
**3 Yr Rolling Under/Over Performance - 5 Years**



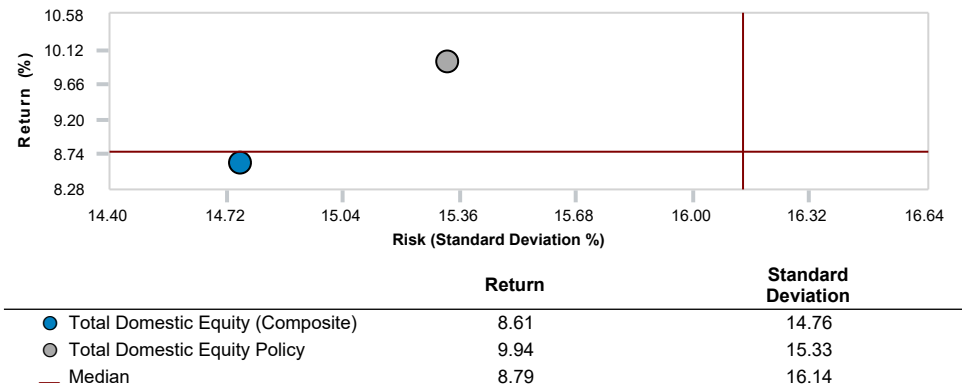
**3 Yr Rolling Percentile Ranking - 5 Years**



**Peer Group Scattergram - 3 Years**



**Peer Group Scattergram - 5 Years**



**Historical Statistics - 3 Years**

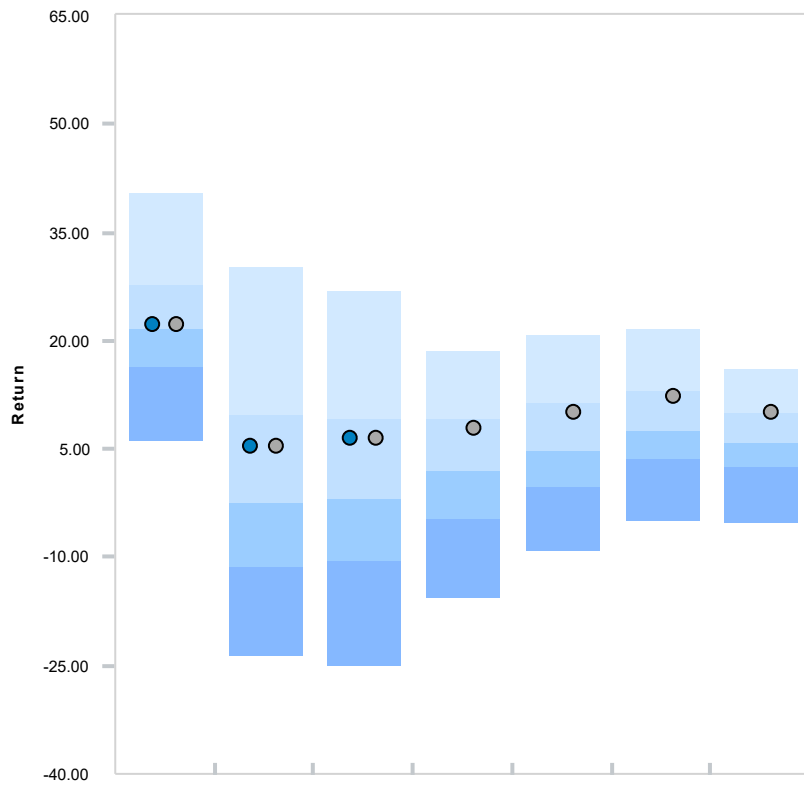
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Domestic Equity (Composite)	1.80	97.24	98.13	-0.21	-0.26	0.51	0.98	12.53
Total Domestic Equity Policy	0.00	100.00	100.00	0.00	N/A	0.53	1.00	12.45

**Historical Statistics - 5 Years**

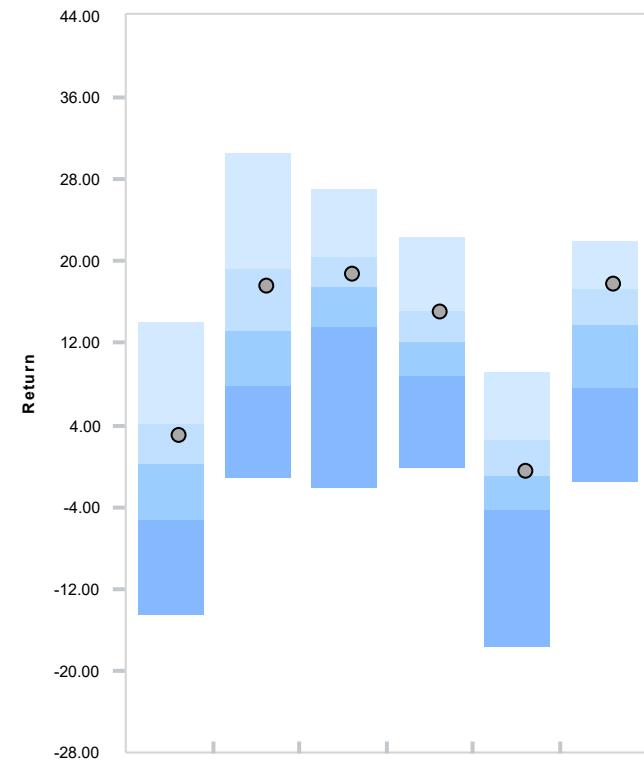
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Domestic Equity (Composite)	2.08	92.44	95.84	-0.81	-0.63	0.56	0.95	10.42
Total Domestic Equity Policy	0.00	100.00	100.00	0.00	N/A	0.62	1.00	10.51



**Peer Group Analysis - IM U.S. Equity (MF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Vanguard Total Stck Mkt (VTSAX)	22.08 (47)	5.30 (34)	6.44 (32)	N/A	N/A	N/A	N/A
○ CRSP U.S. Total Mkt TR Index	22.09 (47)	5.30 (34)	6.47 (32)	7.72 (32)	10.04 (31)	12.10 (30)	10.03 (26)
Median	21.49	-2.53	-1.77	2.00	4.80	7.44	5.91



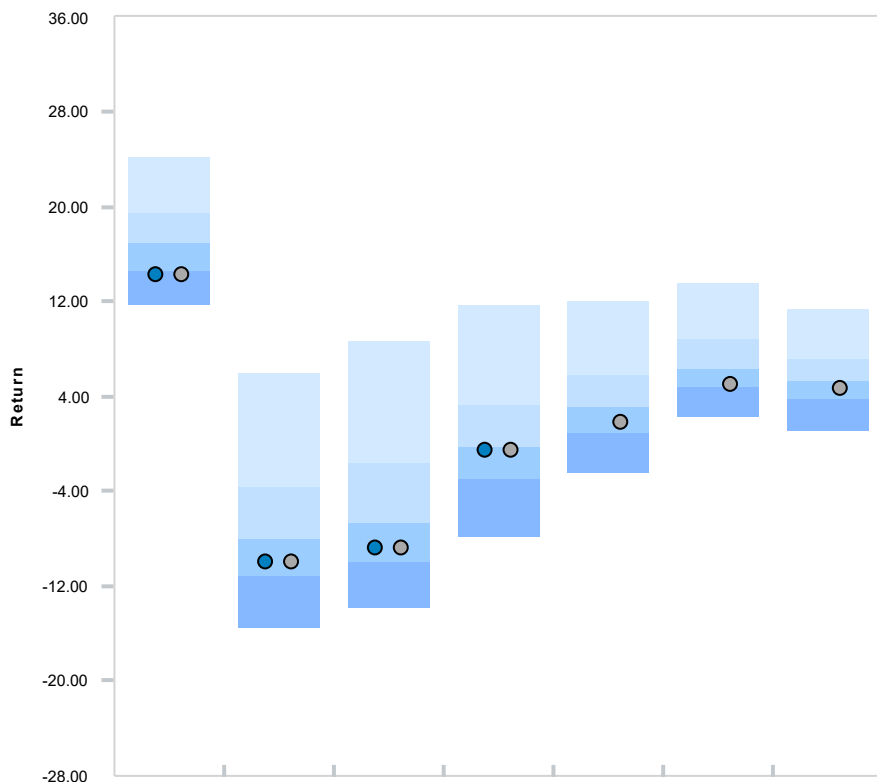
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Vanguard Total Stck Mkt (VTSAX)	N/A	N/A	N/A	N/A	N/A	N/A
○ CRSP U.S. Total Mkt TR Index	2.92 (34)	7.62 (31)	8.64 (40)	4.99 (27)	-0.55 (47)	7.77 (23)
Median	0.12	3.30	7.48	2.13	-0.92	3.75

**Comparative Performance**

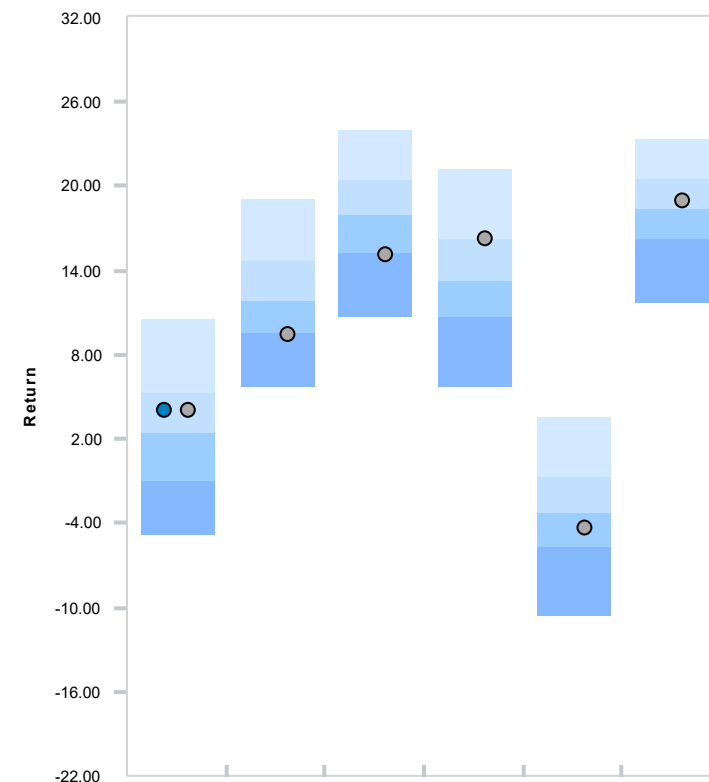
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Vanguard Total Stck Mkt (VTSAX)	-20.87 (41)	9.01 (33)	1.08 (38)	4.09 (40)	N/A	N/A
CRSP U.S. Total Mkt TR Index	-20.88 (41)	9.00 (33)	1.11 (38)	4.08 (40)	14.06 (46)	-14.26 (41)
IM U.S. Equity (MF) Median	-23.21	7.91	0.37	3.52	13.62	-15.37



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Rhumbline R1000V	14.25 (79)	-9.99 (67)	-8.77 (67)	-0.53 (55)	N/A	N/A	N/A
● Russell 1000 Value Index	14.29 (79)	-10.06 (68)	-8.84 (67)	-0.56 (56)	1.82 (64)	5.09 (73)	4.64 (62)
Median	16.98	-7.95	-6.61	-0.26	3.16	6.33	5.32



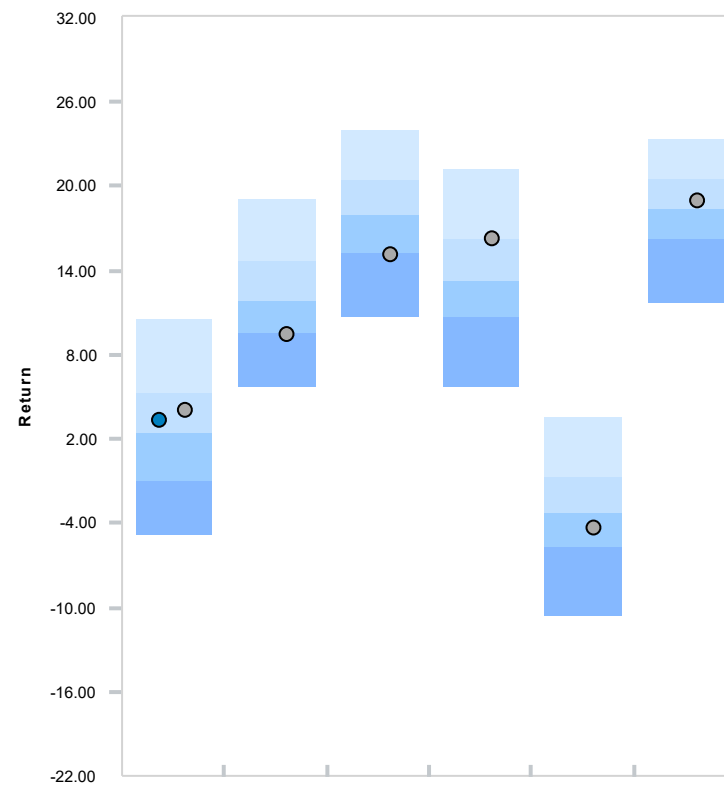
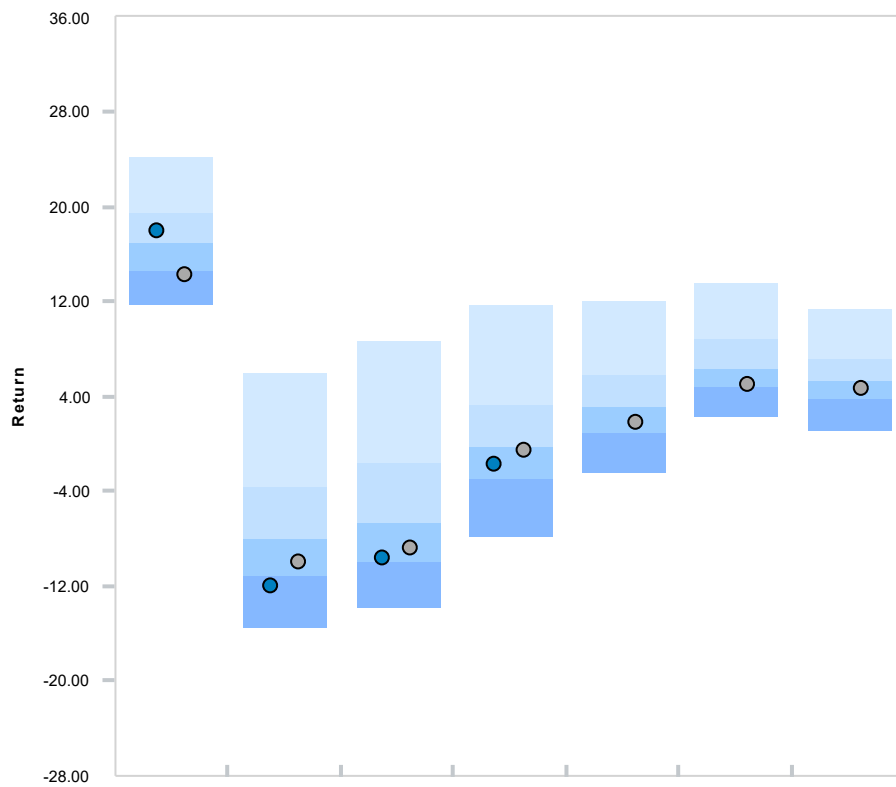
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Rhumbline R1000V	4.00 (39)	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Value Index	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)
Median	2.45	11.80	17.92	13.30	-3.29	18.36

Comparative Performance

	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Rhumbline R1000V	-26.64 (56)	7.39 (60)	1.36 (60)	3.85 (54)	11.88 (46)	-11.68 (30)
Russell 1000 Value Index	-26.73 (58)	7.41 (60)	1.36 (60)	3.84 (54)	11.93 (45)	-11.72 (30)
IM U.S. Large Cap Value Equity (SA+CF) Median	-26.22	7.86	1.69	3.97	11.74	-13.37



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Boston LCV	17.93 (38)	-12.01 (82)	-9.56 (71)	-1.79 (66)	N/A	N/A	N/A
● Russell 1000 Value Idx	14.29 (79)	-10.06 (68)	-8.84 (67)	-0.56 (56)	1.82 (64)	5.09 (73)	4.64 (62)
Median	16.98	-7.95	-6.61	-0.26	3.16	6.33	5.32

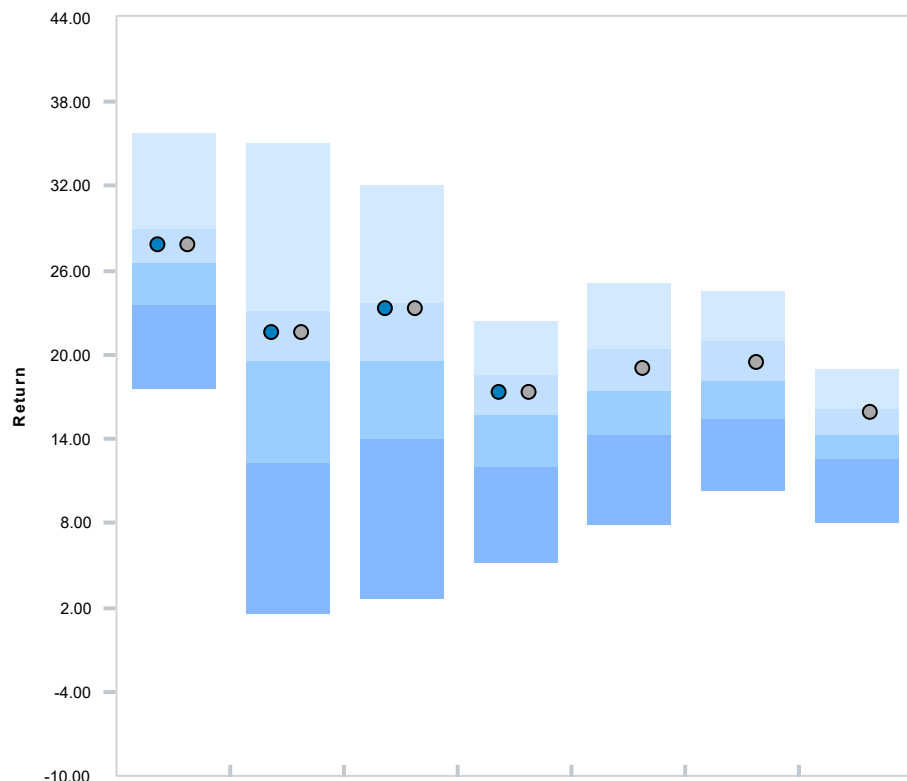
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Boston LCV	3.28 (44)	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Value Idx	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)
Median	2.45	11.80	17.92	13.30	-3.29	18.36

Comparative Performance

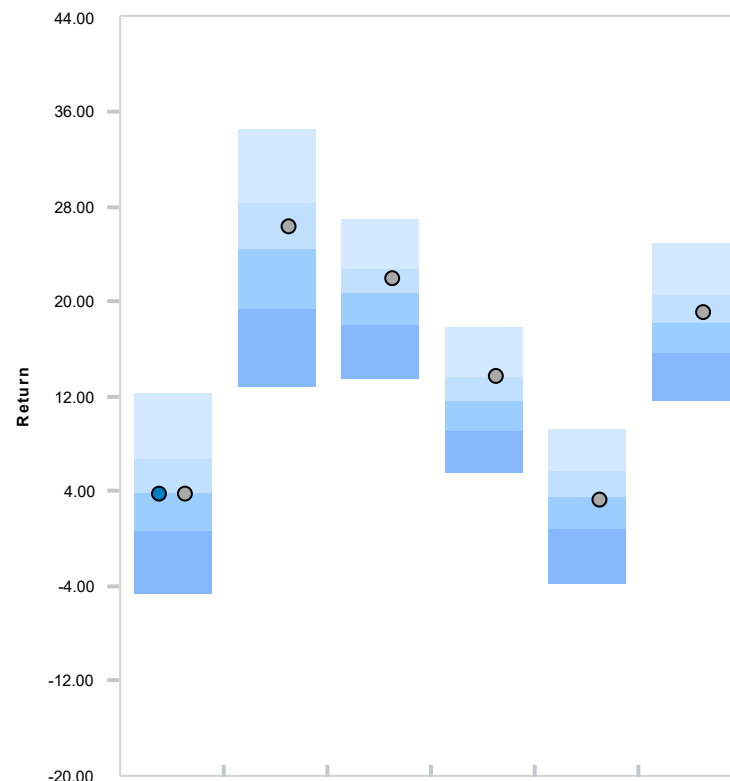
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Boston LCV	-31.18 (86)	8.43 (37)	2.78 (20)	5.51 (13)	10.72 (72)	-13.98 (61)
Russell 1000 Value Index	-26.73 (58)	7.41 (60)	1.36 (60)	3.84 (54)	11.93 (45)	-11.72 (30)
IM U.S. Large Cap Value Eqty (SA+CF)	-26.22	7.86	1.69	3.97	11.74	-13.37



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	27.78 (37)	21.49 (37)	23.30 (29)	17.27 (36)	N/A	N/A	N/A
● Russell 1000 Growth I	27.84 (37)	21.48 (37)	23.28 (29)	17.27 (36)	18.99 (37)	19.35 (35)	15.89 (28)
Median	26.58	19.50	19.56	15.65	17.38	18.14	14.24



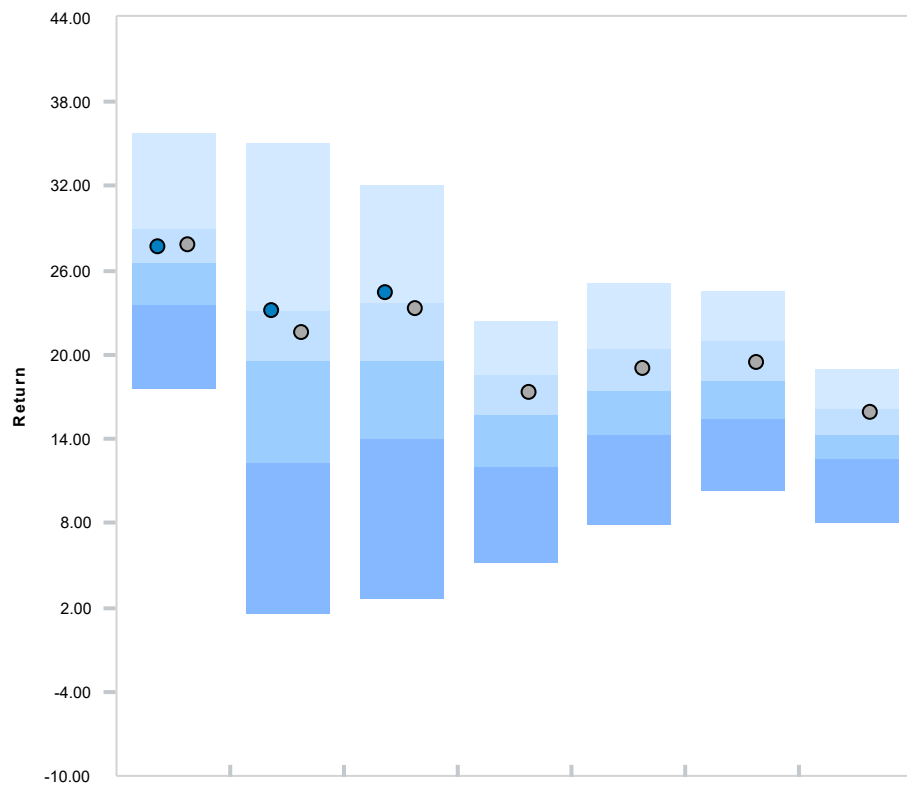
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Rhumblin R1000G	3.70 (53)	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Growth I	3.71 (53)	26.30 (37)	21.94 (38)	13.76 (23)	3.17 (54)	19.15 (40)
Median	3.84	24.41	20.83	11.69	3.50	18.20

Comparative Performance

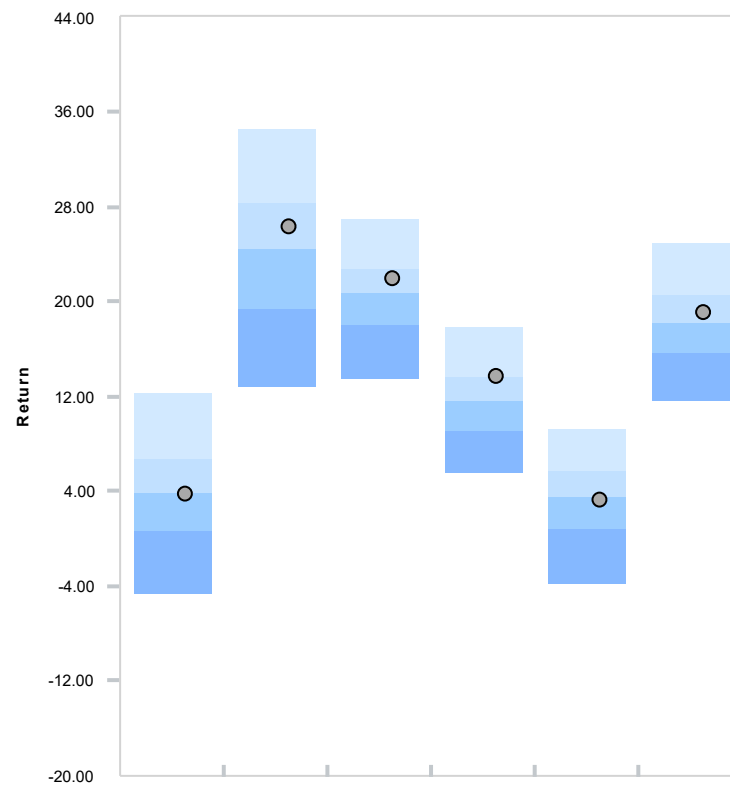
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Rhumblin R1000G	-14.03 (47)	10.60 (26)	1.49 (29)	4.63 (57)	16.08 (47)	-15.87 (61)
Russell 1000 Growth Index	-14.10 (49)	10.62 (26)	1.49 (29)	4.64 (57)	16.10 (47)	-15.89 (61)
IM U.S. Large Cap Growth Equity (SA+CF) Median	-14.30	9.58	0.62	4.91	15.98	-15.29



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Polen Capital LCG	27.60 (40)	23.16 (25)	24.36 (21)	N/A	N/A	N/A	N/A
● Russell 1000 Growth I	27.84 (37)	21.48 (37)	23.28 (29)	17.27 (36)	18.99 (37)	19.35 (35)	15.89 (28)
Median	26.58	19.50	19.56	15.65	17.38	18.14	14.24



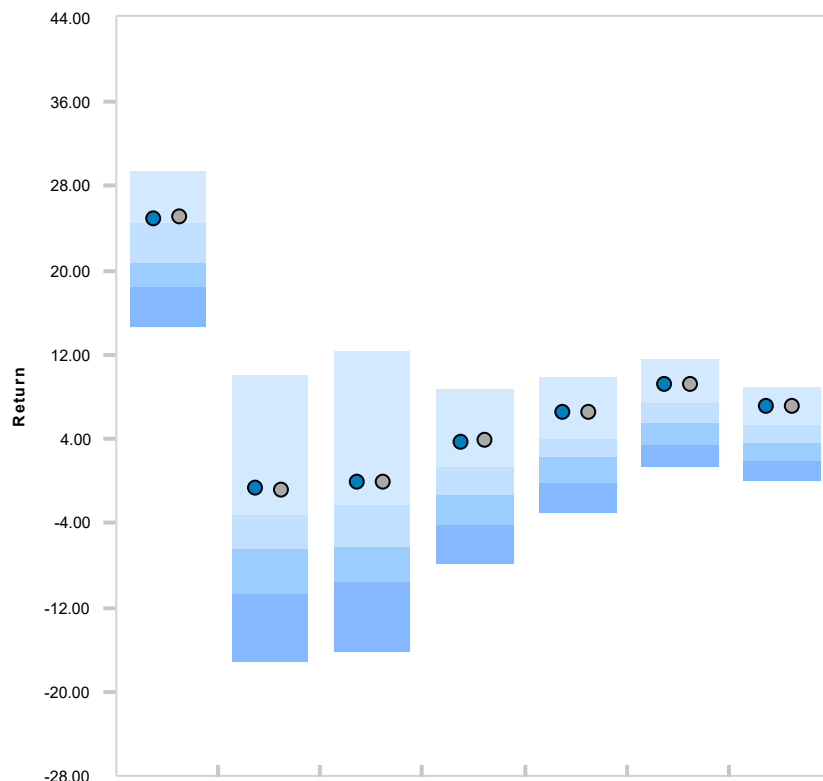
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Polen Capital LCG	N/A	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Growth I	3.71 (53)	26.30 (37)	21.94 (38)	13.76 (23)	3.17 (54)	19.15 (40)
Median	3.84	24.41	20.83	11.69	3.50	18.20

Comparative Performance

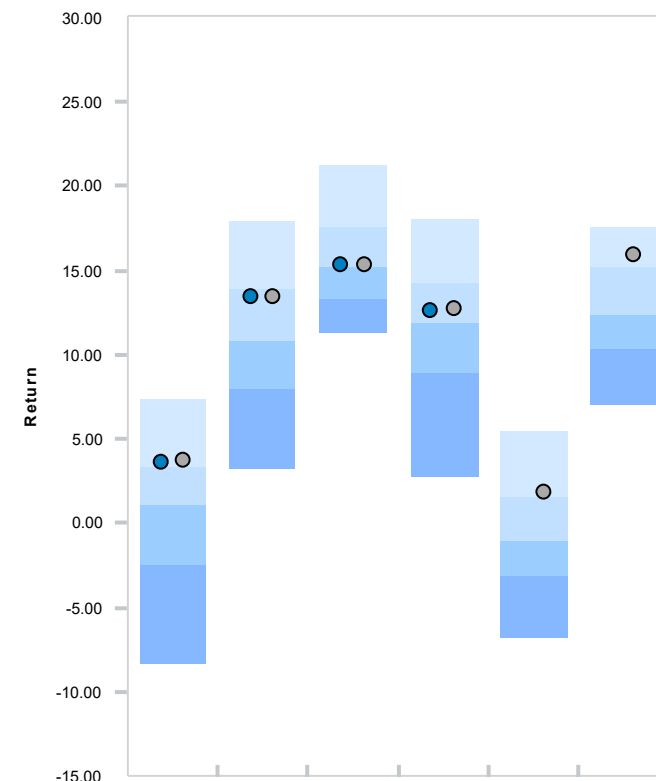
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Polen Capital LCG	-12.96 (33)	10.89 (22)	0.97 (43)	6.15 (22)	17.22 (29)	N/A
Russell 1000 Growth Index	-14.10 (49)	10.62 (26)	1.49 (29)	4.64 (57)	16.10 (47)	-15.89 (61)
IM U.S. Large Cap Growth Equity (SA+CF) Median	-14.30	9.58	0.62	4.91	15.98	-15.29



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Vanguard Mid-Cap Idx (VIMAX)	24.96 (22)	-0.80 (15)	-0.20 (16)	3.74 (13)	6.45 (12)	9.05 (14)	6.98 (13)
● CRSP U.S. Mid Cap TR Index	24.97 (21)	-0.82 (15)	-0.20 (16)	3.75 (12)	6.47 (11)	9.08 (13)	7.01 (11)
Median	20.77	-6.38	-6.15	-1.29	2.34	5.46	3.60



	Oct-2018 To Sep-2019	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
● Vanguard Mid-Cap Idx (VIMAX)	3.65 (24)	3.42 (30)	5.30 (49)	2.63 (40)	N/A	N/A
● CRSP U.S. Mid Cap TR Index	3.70 (22)	3.44 (30)	5.33 (47)	2.68 (39)	1.76 (22)	5.94 (13)
Median	1.09	0.84	5.25	1.87	-1.05	2.32

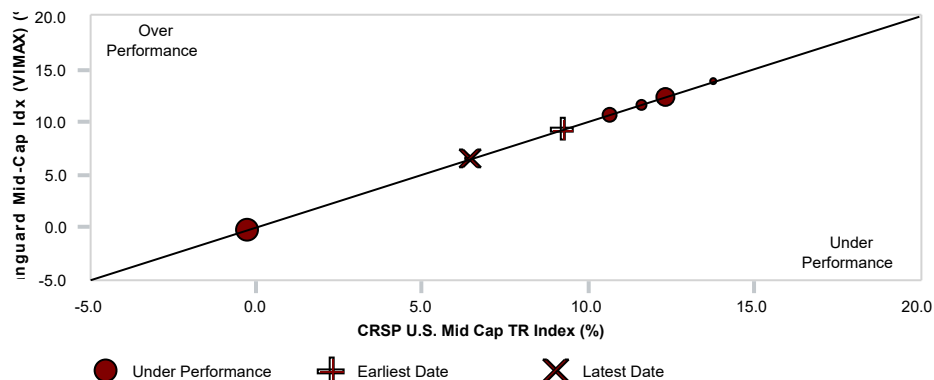
**Comparative Performance**

	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Vanguard Mid-Cap Idx (VIMAX)	-25.72 (26)	6.88 (50)	0.61 (62)	4.36 (41)	16.77 (8)	-15.46 (45)
CRSP U.S. Mid Cap TR Index	-25.74 (27)	6.88 (50)	0.62 (61)	4.37 (40)	16.79 (6)	-15.46 (45)
IM U.S. Mid Cap Core Eqty (MF)	-28.30	6.85	0.98	4.14	14.57	-15.85

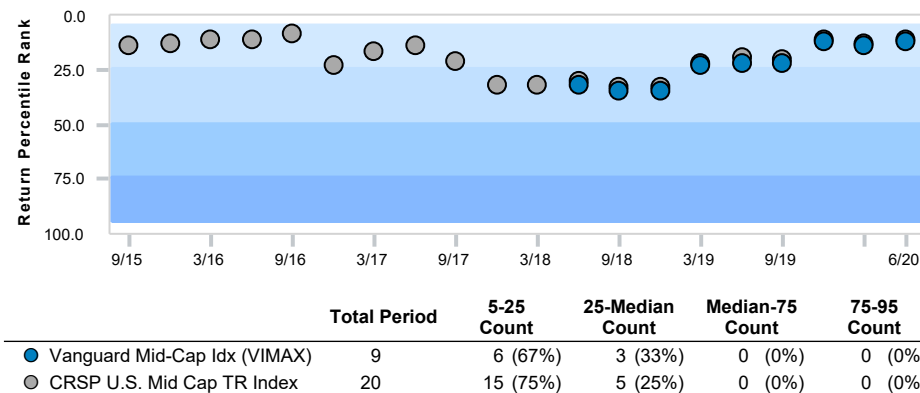




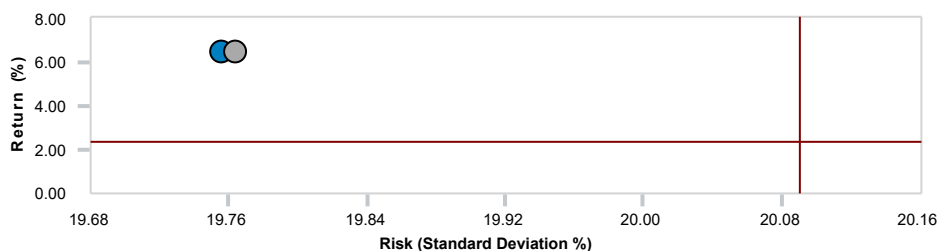
### 3 Yr Rolling Under/Over Performance - 5 Years



### 3 Yr Rolling Percentile Ranking - 5 Years

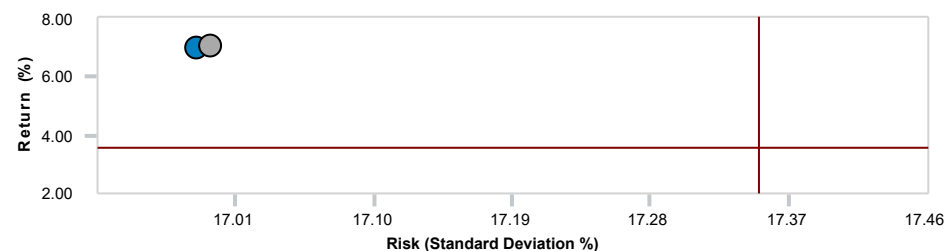


### Peer Group Scattergram - 3 Years



	Return	Standard Deviation
Vanguard Mid-Cap Idx (VIMAX)	6.45	19.76
CRSP U.S. Mid Cap TR Index	6.47	19.76
Median	2.34	20.09

### Peer Group Scattergram - 5 Years



	Return	Standard Deviation
Vanguard Mid-Cap Idx (VIMAX)	6.98	16.99
CRSP U.S. Mid Cap TR Index	7.01	16.99
Median	3.60	17.35

### Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Vanguard Mid-Cap Idx (VIMAX)	0.03	99.97	100.05	-0.02	-0.66	0.33	1.00	14.65
CRSP U.S. Mid Cap TR Index	0.00	100.00	100.00	0.00	N/A	0.33	1.00	14.66

### Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Vanguard Mid-Cap Idx (VIMAX)	0.03	99.90	100.03	-0.03	-1.03	0.42	1.00	12.29
CRSP U.S. Mid Cap TR Index	0.00	100.00	100.00	0.00	N/A	0.42	1.00	12.30



**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 : \$42,844 Million  
 Portfolio Turnover : 15%

Portfolio Assets : \$110,409 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

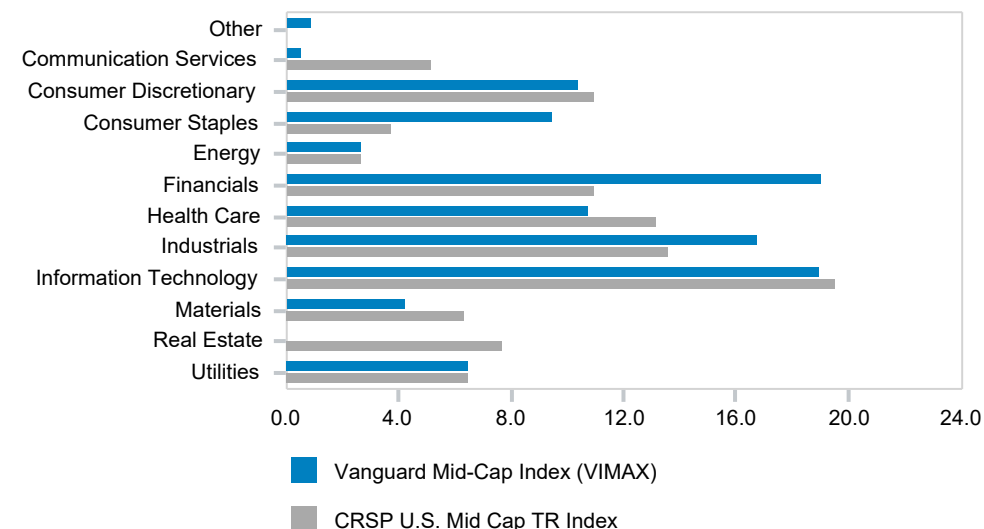
**Portfolio Characteristics As of 05/31/2020**

	Portfolio	Benchmark
Total Securities	347	339
Avg. Market Cap (\$)	18,418,736,327	11,935,561,100
Price/Earnings (P/E)	31.49	21.23
Price/Book (P/B)	6.89	3.42
Dividend Yield	2.65	1.57
Annual EPS	18.31	4.96
5 Yr EPS	13.59	12.81
3 Yr EPS Growth	20.85	N/A
Beta (5 Years, Monthly)	1.00	1.00

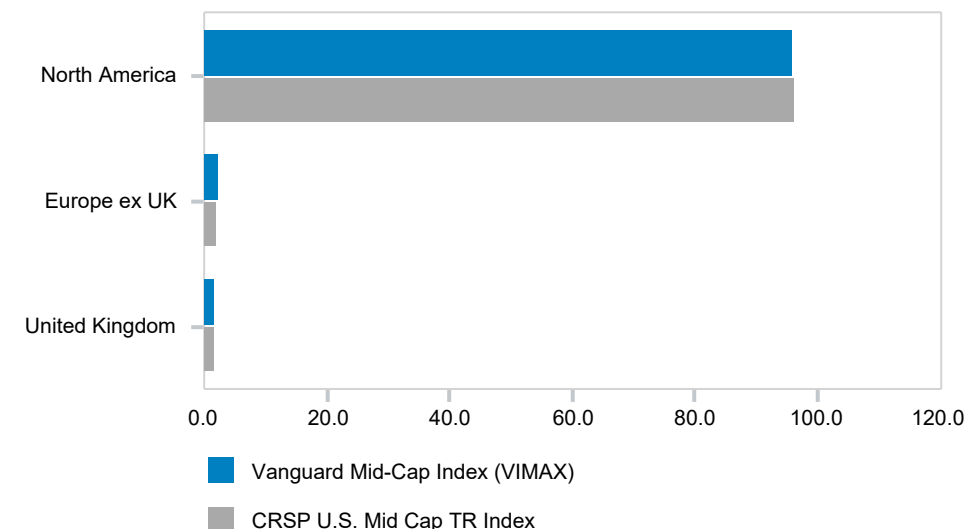
**Top Ten Securities As of 05/31/2020**

Newmont Corporation ORD	1.2 %
Centene Corp ORD	1.0 %
SBA Communications Corp ORD	0.9 %
Lululemon Athletica Inc ORD	0.9 %
DexCom Inc ORD	0.9 %
Digital Realty Trust Inc ORD	0.8 %
Advanced Micro Devices Inc ORD	0.8 %
WEC Energy Group Inc ORD	0.7 %
Veeva Systems Inc ORD	0.7 %
Splunk Inc ORD	0.7 %

**Sector Weights As of 05/31/2020**



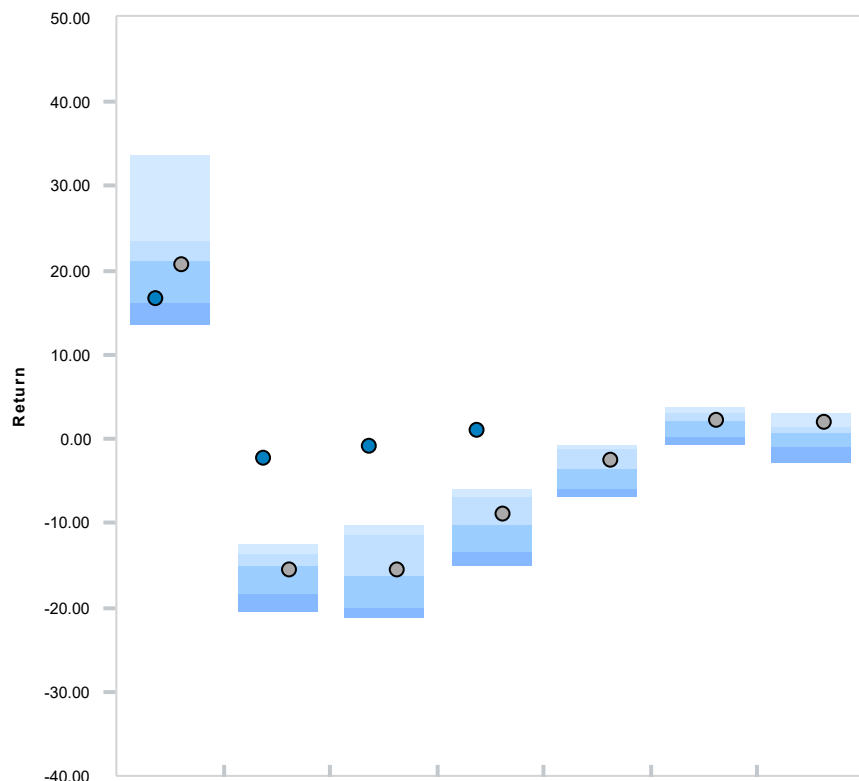
**Region Weights As of 05/31/2020**



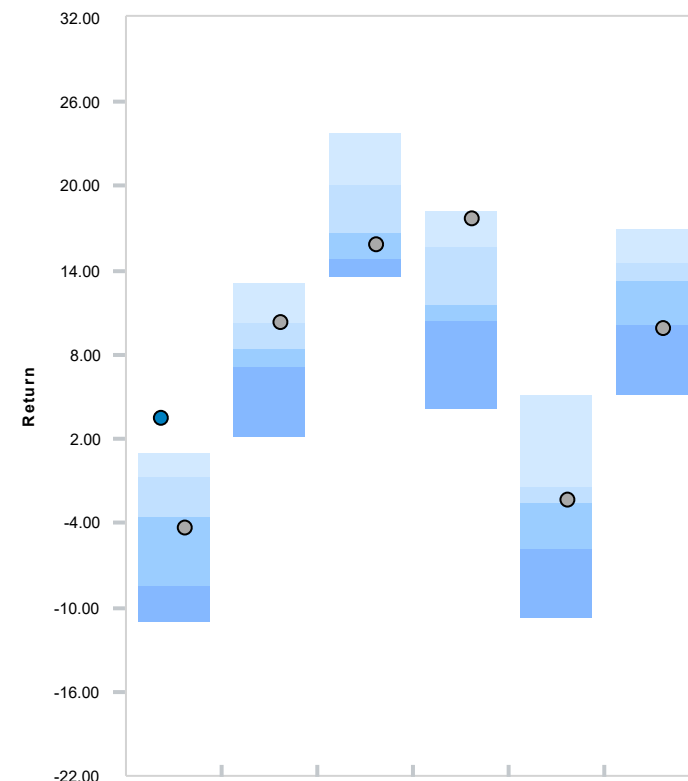
Statistics provided by Lipper. Most recent available data shown.



Peer Group Analysis - IM U.S. SMID Cap Value Equity (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Clarkston Partners (CISMX)	16.72 (71)	-2.33 (1)	-0.85 (1)	0.94 (1)	N/A	N/A	N/A
● Russell 2500 Value Index	20.60 (55)	-15.61 (55)	-15.50 (45)	-8.96 (46)	-2.60 (43)	2.26 (48)	1.85 (21)
Median	21.00	-15.20	-16.23	-10.12	-3.54	2.13	0.70



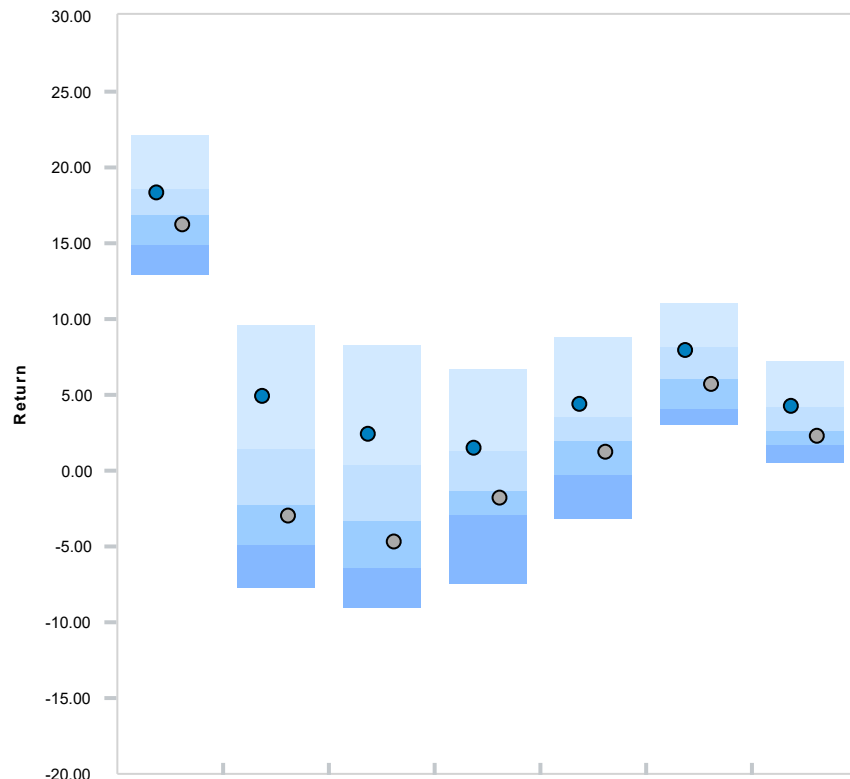
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Clarkston Partners (CISMX)	3.45 (4)	N/A	N/A	N/A	N/A	N/A
● Russell 2500 Value Index	-4.35 (59)	10.24 (26)	15.75 (53)	17.68 (9)	-2.44 (41)	9.88 (83)
Median	-3.49	8.40	16.72	11.53	-2.57	13.27

Comparative Performance

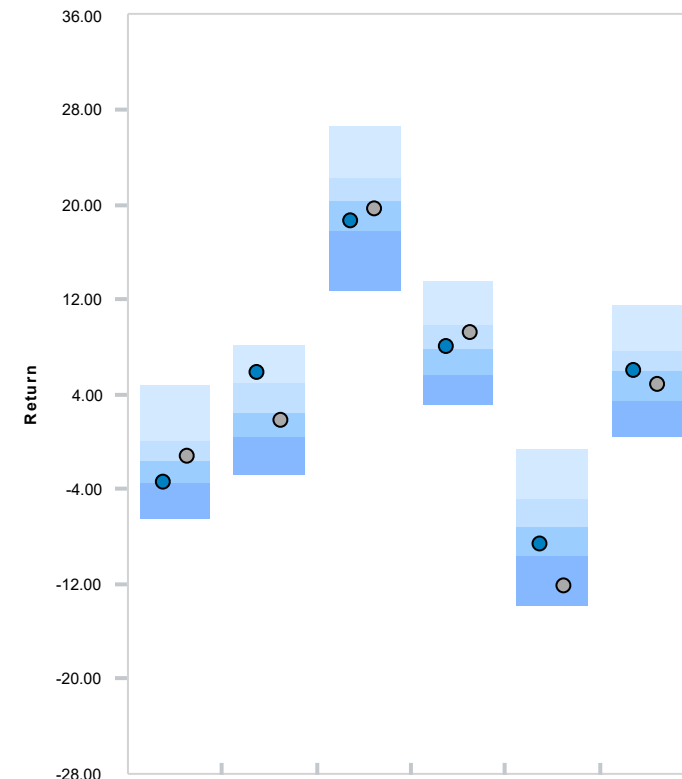
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Clarkston Partners (CISMX)	-21.75 (1)	6.94 (78)	1.51 (37)	3.12 (33)	10.72 (100)	-10.74 (1)
Russell 2500 Value Index	-34.64 (46)	7.07 (77)	0.13 (48)	1.89 (72)	13.12 (66)	-17.12 (32)
IM U.S. SMID Cap Value Equity (MF) Median	-35.09	7.81	-0.10	2.49	13.28	-17.44



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 (Composite)	18.24 (30)	4.83 (15)	2.33 (18)	1.51 (23)	4.37 (21)	7.89 (28)	4.25 (25)
○ Total Int'l Policy	16.12 (64)	-3.06 (56)	-4.80 (65)	-1.80 (56)	1.13 (59)	5.65 (59)	2.26 (59)
Median	16.81	-2.19	-3.28	-1.38	1.99	6.10	2.69



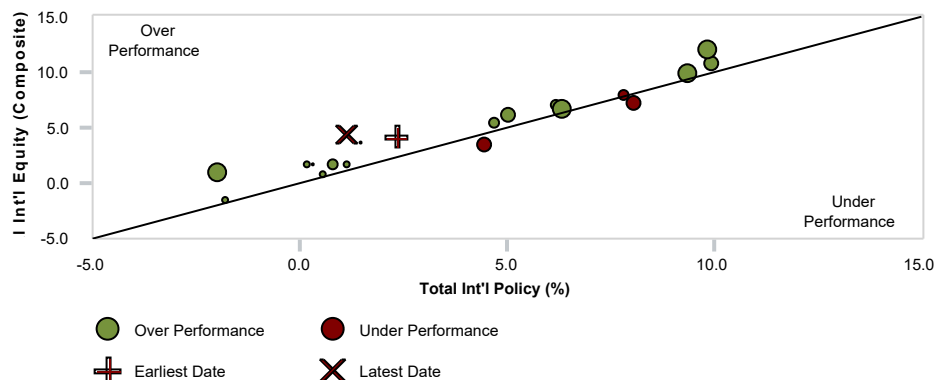
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Total Int'l Equity (Composite)	-3.33 (75)	5.86 (14)	18.68 (69)	7.98 (50)	-8.63 (65)	6.07 (51)
○ Total Int'l Policy	-1.23 (47)	1.76 (60)	19.61 (59)	9.26 (33)	12.16 (90)	4.77 (64)
Median	-1.56	2.53	20.30	7.91	-7.16	6.10

Comparative Performance

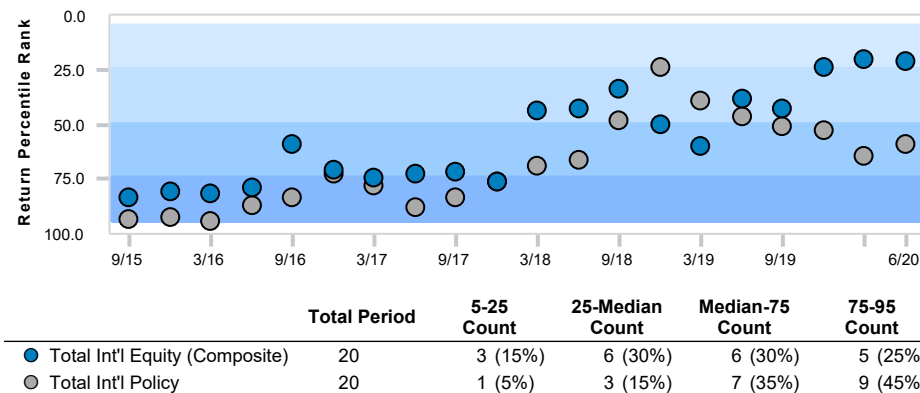
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Total Int'l Equity (Composite)	-19.52 (13)	10.16 (20)	-2.39 (85)	4.45 (23)	11.60 (35)	-15.04 (86)
Total Int'l Policy	-23.36 (58)	8.92 (53)	-1.80 (63)	2.98 (65)	10.31 (62)	-11.46 (21)
IM International Large Cap Core Equity (SA+CF) Median	-22.63	8.99	-1.47	3.59	10.86	-13.16



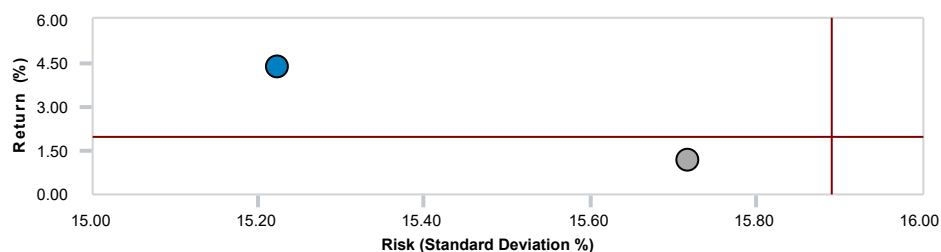
### 3 Yr Rolling Under/Over Performance - 5 Years



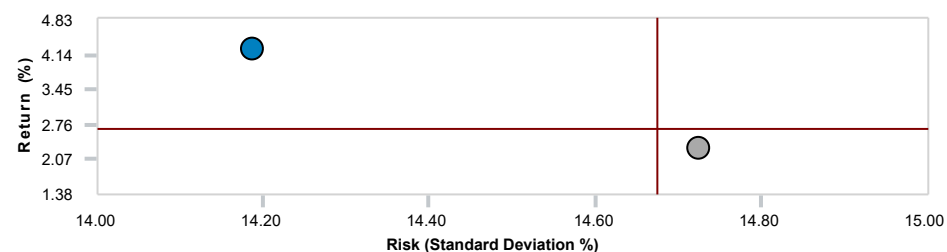
### 3 Yr Rolling Percentile Ranking - 5 Years



### Peer Group Scattergram - 3 Years



### Peer Group Scattergram - 5 Years



### Historical Statistics - 3 Years

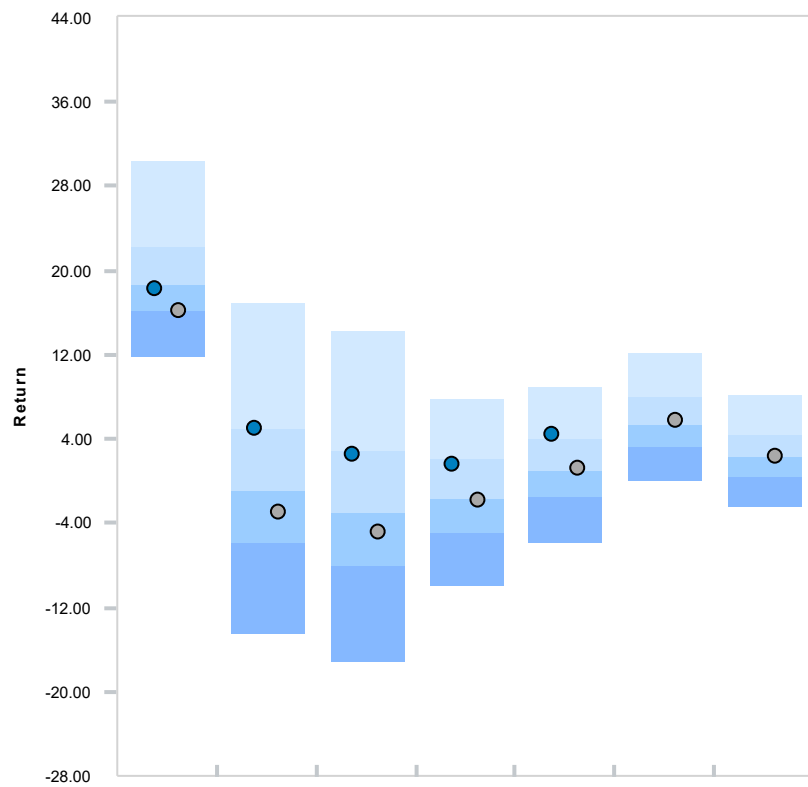
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity (Composite)	3.72	103.73	88.88	3.26	0.82	0.24	0.94	11.26
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.04	1.00	12.17

### Historical Statistics - 5 Years

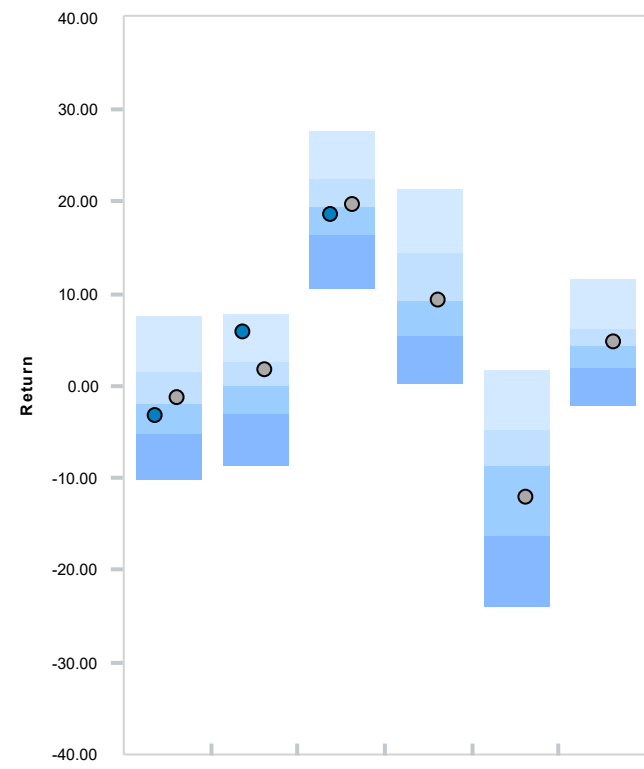
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity (Composite)	4.04	100.62	90.67	2.11	0.46	0.28	0.93	10.14
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.15	1.00	10.88



Peer Group Analysis - IM International Equity (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Harding Loevner Intl Eqty (HLIZX)	18.24 (54)	5.00 (26)	2.48 (27)	1.58 (28)	4.42 (23)	N/A	N/A
○ MSCI AC World ex USA (Net)	16.12 (75)	-3.06 (60)	-4.80 (60)	-1.80 (51)	1.13 (49)	5.65 (46)	2.26 (51)
Median	18.60	-0.98	-3.02	-1.72	0.98	5.38	2.30



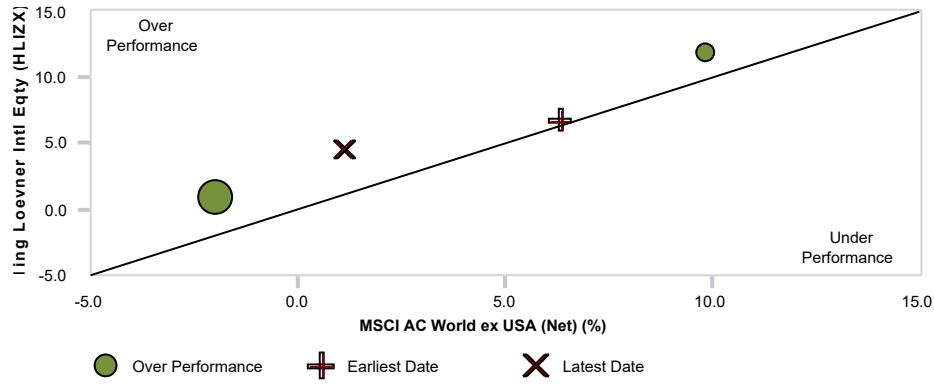
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Harding Loevner Intl Eqty (HLIZX)	-3.34 (62)	5.85 (10)	8.65 (58)	N/A	N/A	N/A
○ MSCI AC World ex USA (Net)	-1.23 (44)	1.76 (34)	9.61 (48)	9.26 (51)	2.16 (64)	4.77 (43)
Median	-1.94	0.08	9.36	9.32	8.75	4.26

Comparative Performance

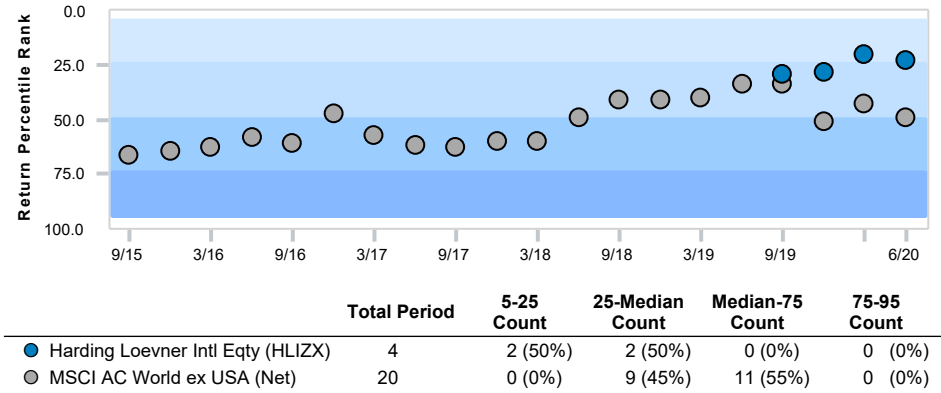
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Harding Loevner Intl Eqty (HLIZX)	-19.34 (18)	10.09 (42)	-2.40 (61)	4.45 (18)	11.60 (35)	-15.04 (81)
MSCI AC World ex USA (Net)	-23.36 (47)	8.92 (62)	-1.80 (47)	2.98 (43)	10.31 (54)	-11.46 (44)
IM International Equity (MF) Median	-23.74	9.60	-1.90	2.58	10.54	-12.22



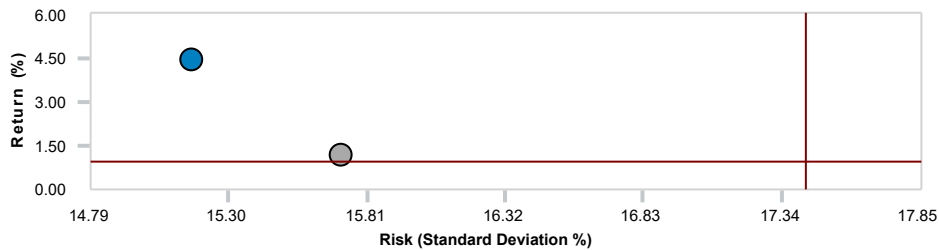
### 3 Yr Rolling Under/Over Performance - 5 Years



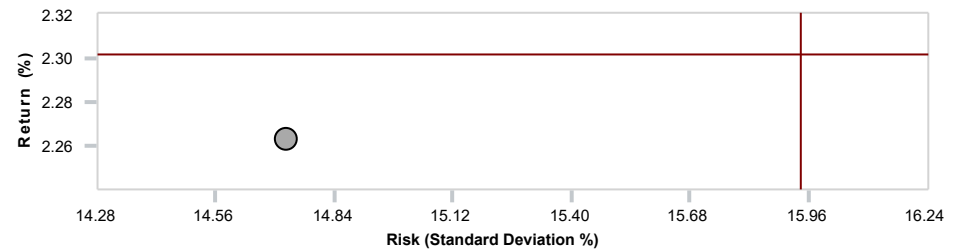
### 3 Yr Rolling Percentile Ranking - 5 Years



### Peer Group Scattergram - 3 Years



### Peer Group Scattergram - 5 Years



### Historical Statistics - 3 Years

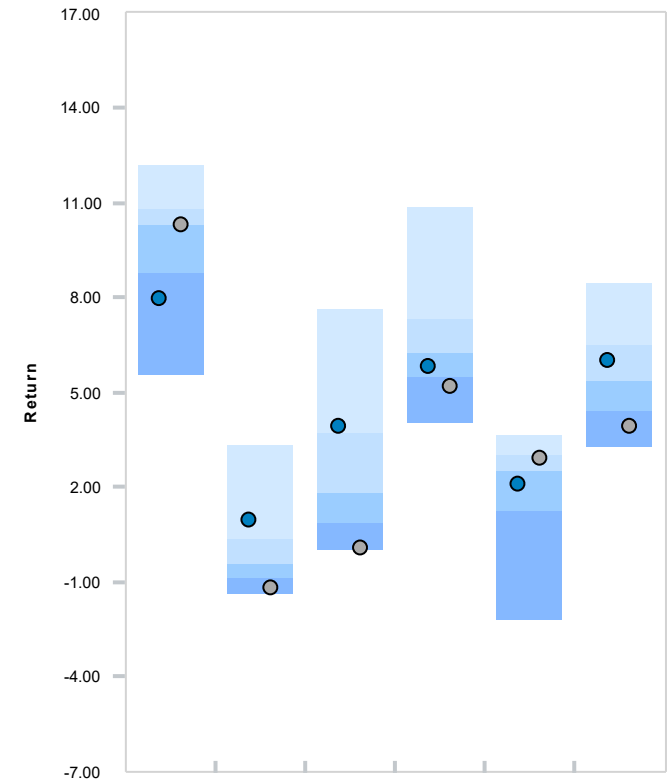
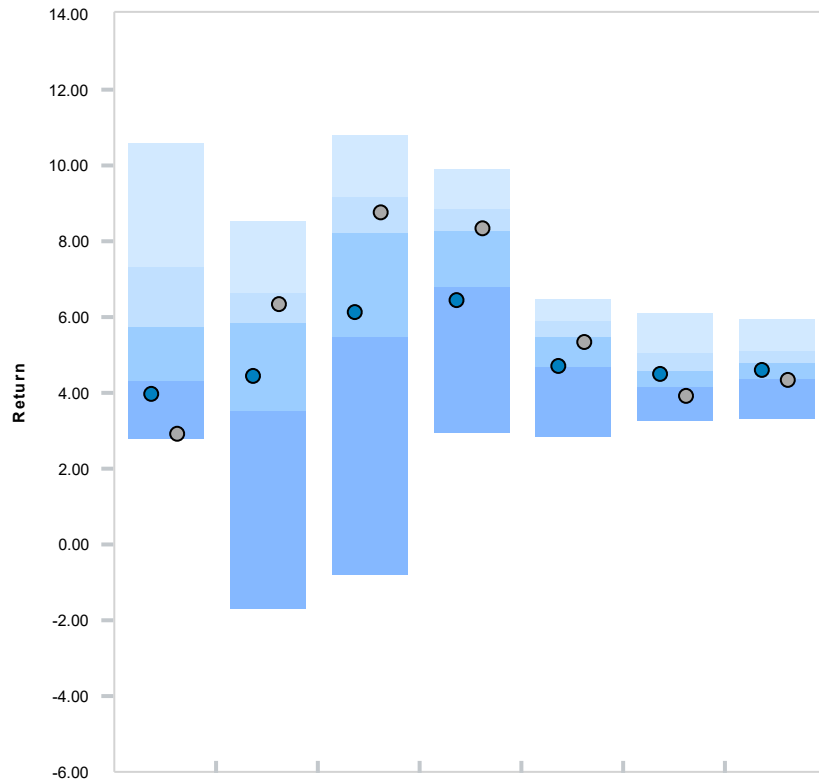
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Harding Loevner Intl Eqty (HLIZX)	3.76	103.61	88.57	3.30	0.82	0.25	0.94	11.19
MSCI AC World ex USA (Net)	0.00	100.00	100.00	0.00	N/A	0.04	1.00	12.17

### Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Harding Loevner Intl Eqty (HLIZX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI AC World ex USA (Net)	0.00	100.00	100.00	0.00	N/A	0.15	1.00	10.88



**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 (Composite)	3.94 (83)	4.40 (68)	6.09 (71)	6.40 (78)	4.69 (76)	4.49 (56)	4.60 (66)
○ Total Fixed Policy	2.90 (94)	6.33 (37)	8.74 (40)	8.30 (50)	5.32 (58)	3.88 (87)	4.30 (80)
Median	5.75	5.84	8.21	8.28	5.47	4.59	4.78

	Oct-2018 To Sep-2019	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
● Total Fixed Income (Composite)	7.95 (82)	0.97 (20)	3.91 (25)	5.81 (64)	2.09 (62)	6.00 (34)
○ Total Fixed Policy	0.30 (52)	-1.22 (90)	0.07 (93)	5.19 (84)	2.94 (30)	3.96 (86)
Median	0.33	-0.45	1.86	6.28	2.52	5.35

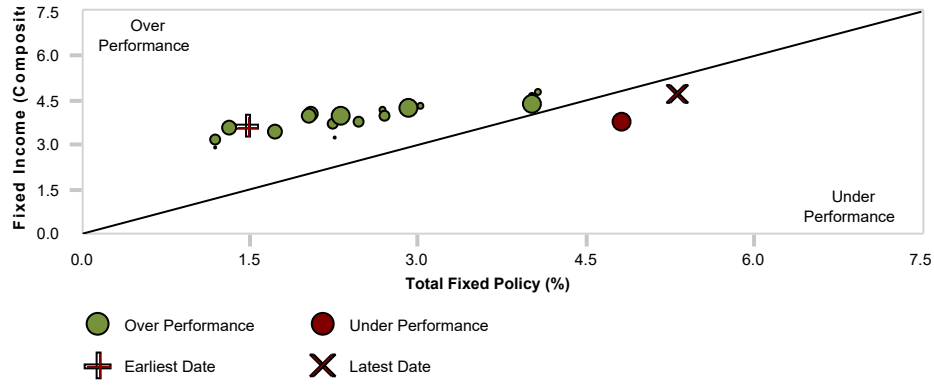
**Comparative Performance**

	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Total Fixed Income (Composite)	-0.01 (46)	0.45 (54)	1.61 (79)	2.21 (93)	2.35 (95)	1.55 (19)
Total Fixed Policy	3.15 (12)	0.18 (78)	2.27 (49)	3.08 (64)	2.94 (86)	1.64 (14)
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	-0.42	0.51	2.26	3.16	3.54	0.87

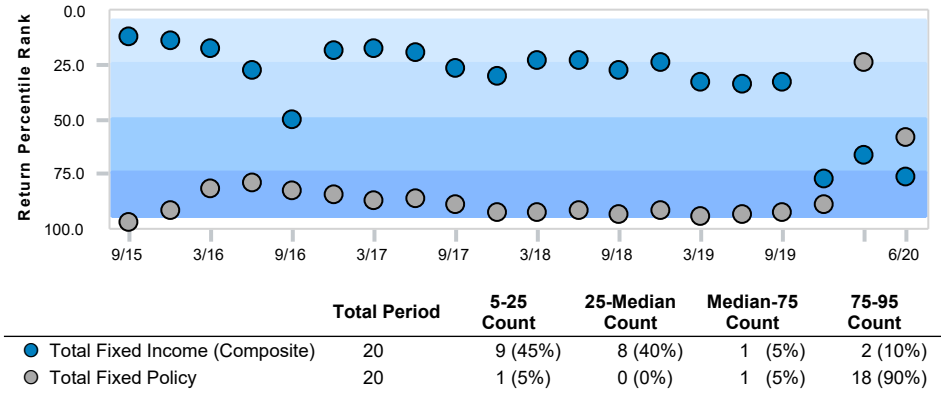




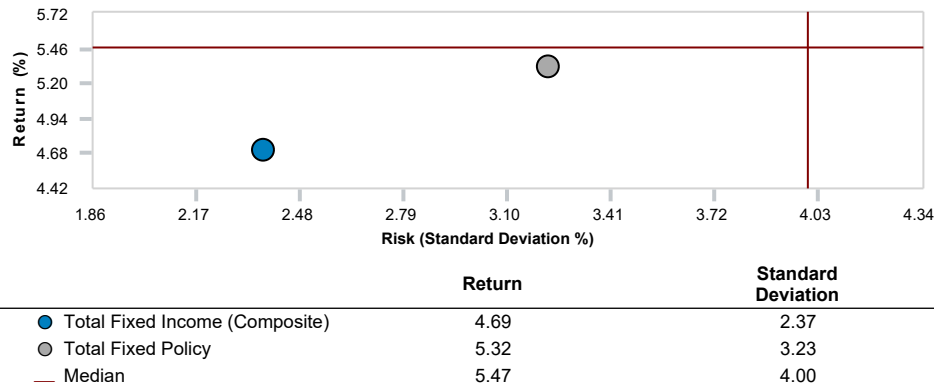
3 Yr Rolling Under/Over Performance - 5 Years



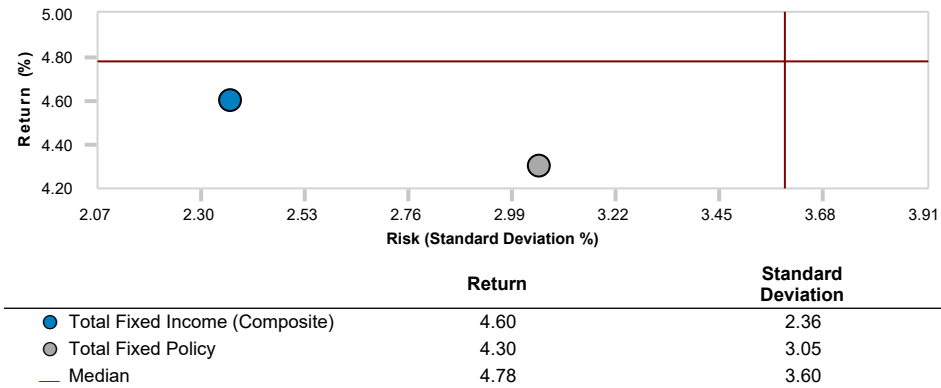
3 Yr Rolling Percentile Ranking - 5 Years



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 (Composite)	2.03	73.95	38.59	1.63	-0.31	1.18	0.57	1.28
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	1.09	1.00	1.25

Historical Statistics - 5 Years

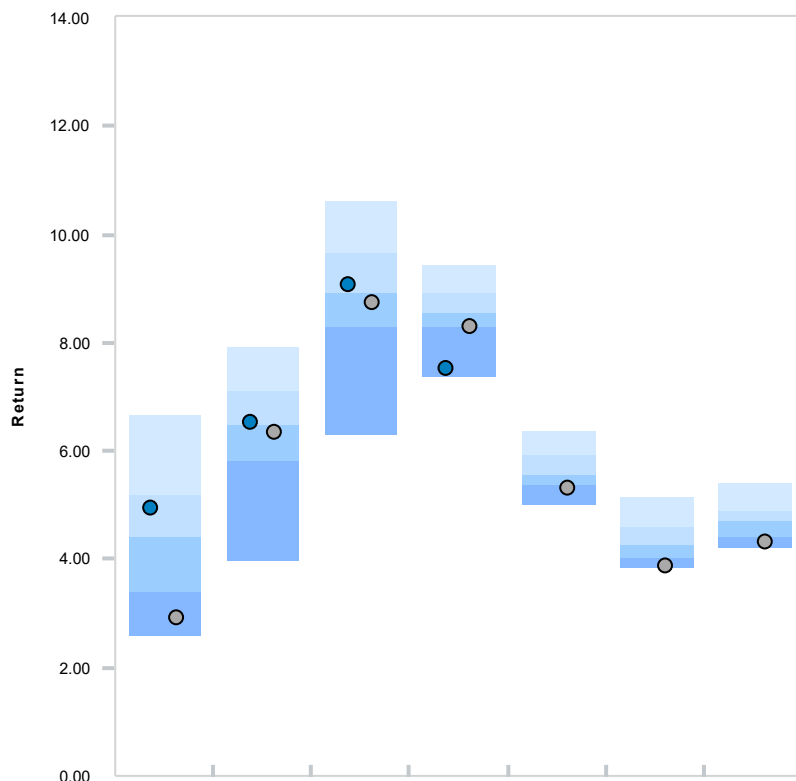
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income (Composite)	2.02	80.24	27.54	2.07	0.13	1.40	0.58	1.24
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	1.03	1.00	1.49



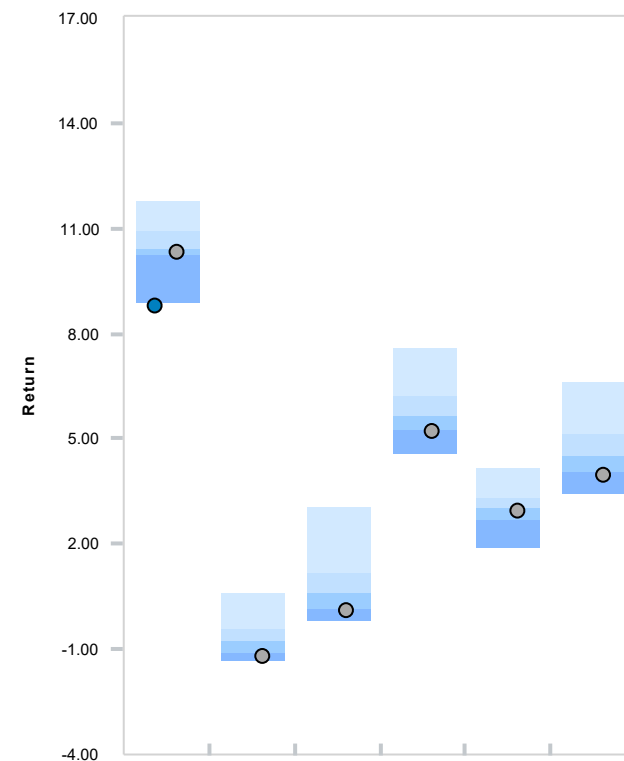
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Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Garcia Hamilton Fixed Income	4.95 (32)	6.52 (48)	9.07 (45)	7.52 (92)	N/A	N/A	N/A
○ Blmbg. Barc. U.S. Aggregate Index	2.90 (90)	6.33 (65)	8.74 (68)	8.30 (75)	5.32 (84)	3.88 (92)	4.30 (90)
Median	4.42	6.47	8.93	8.54	5.57	4.28	4.70



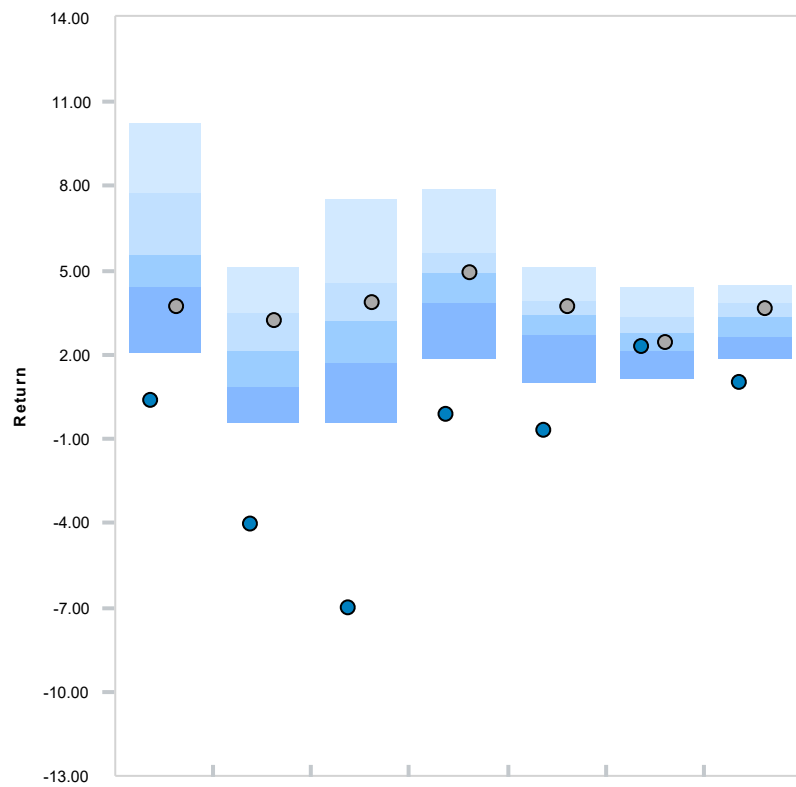
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Garcia Hamilton Fixed Income	8.75 (96)	N/A	N/A	N/A	N/A	N/A
○ Blmbg. Barc. U.S. Aggregate Index	0.30 (70)	-1.22 (87)	0.07 (84)	5.19 (80)	2.94 (62)	3.96 (81)
Median	0.44	0.75	0.61	5.66	3.02	4.49

Comparative Performance

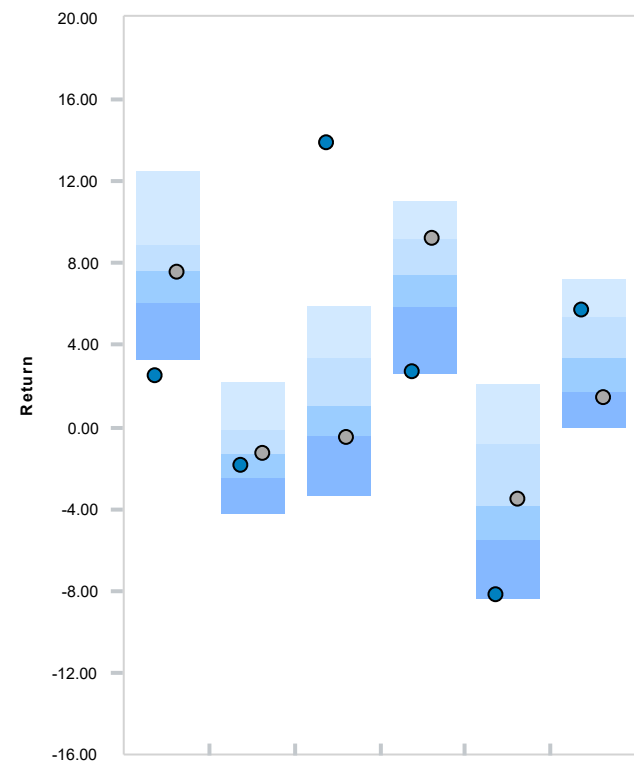
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Garcia Hamilton Fixed Income	1.51 (60)	-0.01 (87)	2.40 (34)	2.32 (96)	2.49 (96)	1.27 (64)
Blmbg. Barc. U.S. Aggregate Index	3.15 (23)	0.18 (58)	2.27 (70)	3.08 (70)	2.94 (82)	1.64 (25)
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	1.93	0.22	2.33	3.13	3.22	1.40



Peer Group Analysis - IM Global Fixed Income (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Templeton Global Tot Rtn (FTTRX)	0.36 (100)	-4.04 (100)	-7.01 (100)	-0.15 (100)	-0.71 (100)	2.27 (69)	0.99 (100)
○ Blmbg. Barc. Global Multiverse	3.68 (90)	3.19 (31)	3.84 (33)	4.92 (50)	3.72 (37)	2.42 (65)	3.63 (36)
Median	5.56	2.11	3.18	4.92	3.43	2.77	3.32



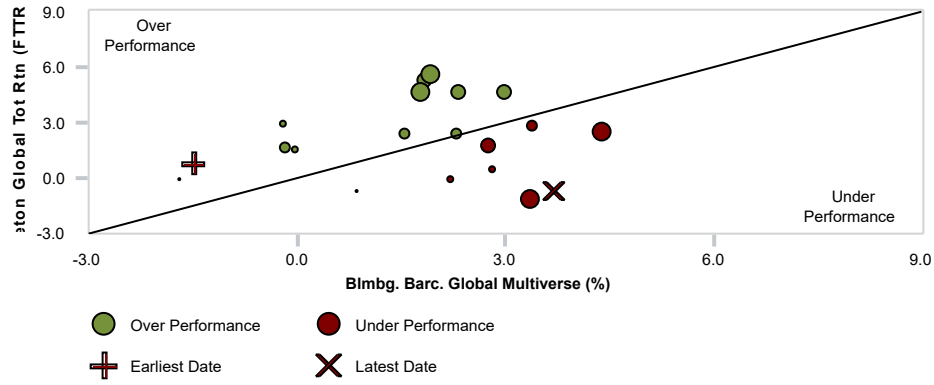
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● Templeton Global Tot Rtn (FTTRX)	2.49 (99)	-1.90 (66)	3.82 (1)	2.64 (94)	8.23 (95)	5.71 (22)
○ Blmbg. Barc. Global Multiverse	7.54 (51)	1.32 (51)	0.56 (77)	9.23 (25)	3.56 (42)	1.40 (79)
Median	7.65	-1.29	1.02	7.42	3.85	3.37

Comparative Performance

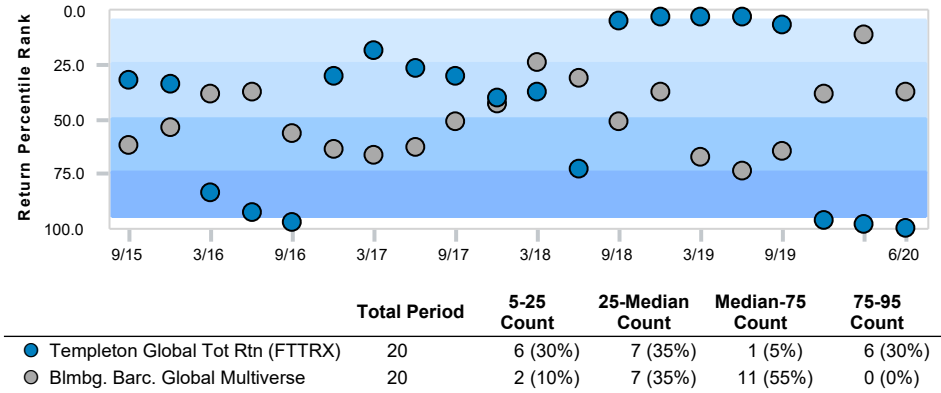
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Templeton Global Tot Rtn (FTTRX)	-6.16 (70)	1.88 (7)	-3.09 (100)	1.46 (98)	1.94 (87)	2.25 (2)
Blmbg. Barc. Global Multiverse	-1.11 (14)	0.64 (57)	0.63 (58)	3.31 (55)	2.39 (76)	1.02 (23)
IM Global Fixed Income (MF) Median	-3.20	0.74	1.01	3.37	3.10	0.35



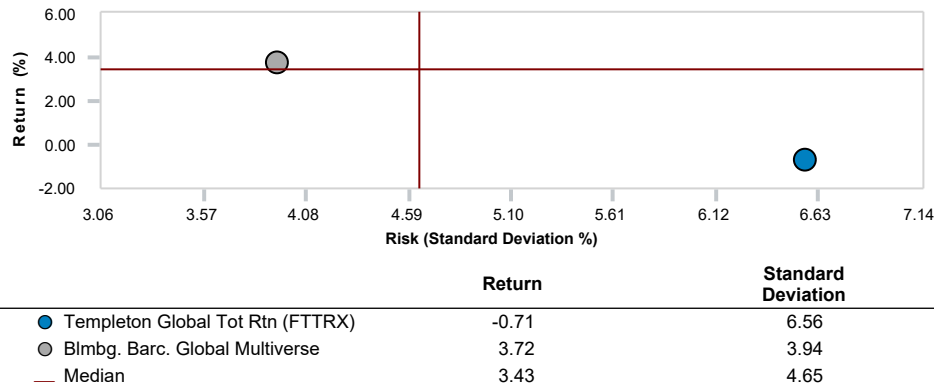
3 Yr Rolling Under/Over Performance - 5 Years



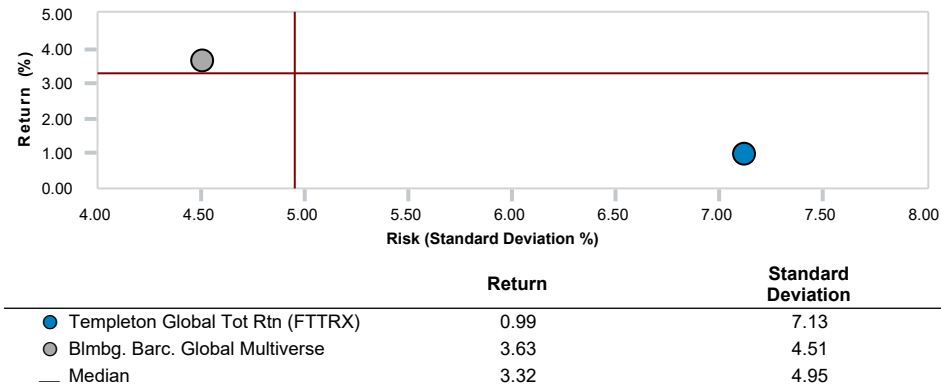
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

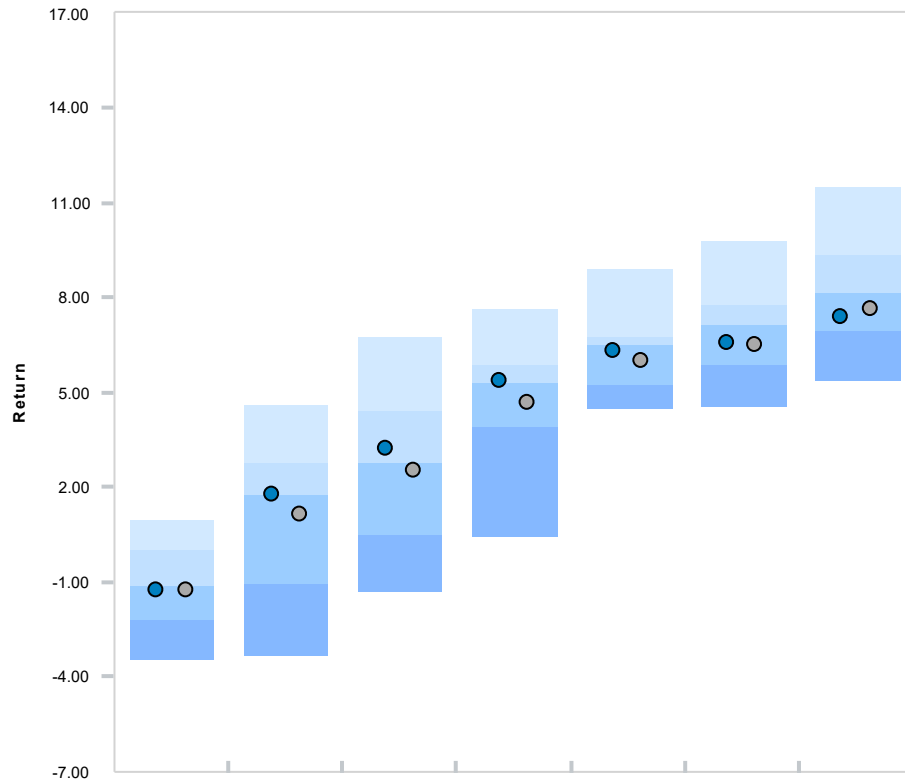
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Templeton Global Tot Rtn (FTTRX)	7.36	-5.85	0.90	-1.03	-0.57	-0.34	0.14	5.25
Blmbg. Barc. Global Multiverse	0.00	100.00	100.00	0.00	N/A	0.50	1.00	2.33

Historical Statistics - 5 Years

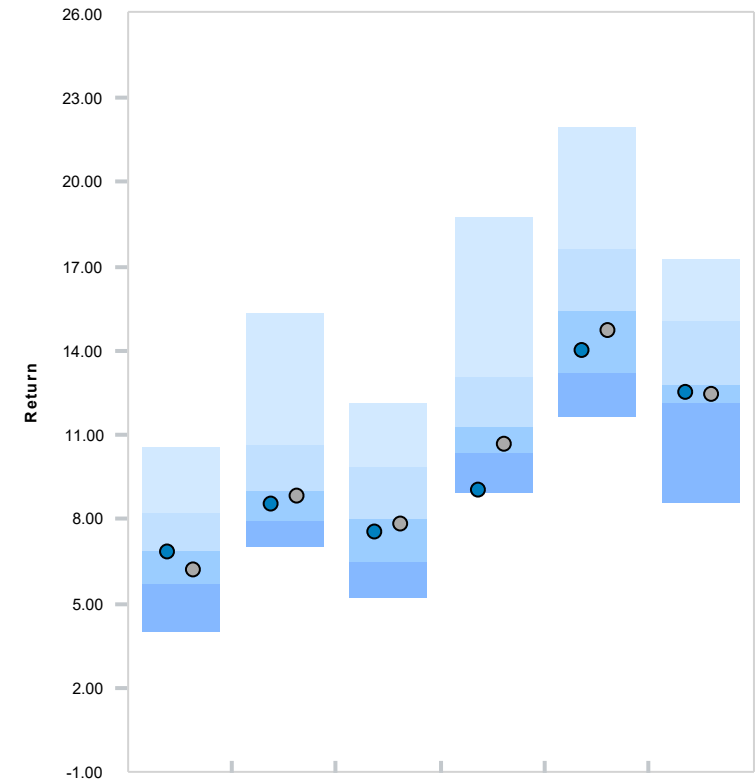
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Templeton Global Tot Rtn (FTTRX)	8.58	-11.74	-48.93	1.47	-0.28	0.01	-0.06	5.01
Blmbg. Barc. Global Multiverse	0.00	100.00	100.00	0.00	N/A	0.55	1.00	2.93



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	-1.23 (62)	1.76 (50)	3.22 (45)	5.39 (39)	6.31 (61)	6.60 (65)	7.39 (65)
○ NCREIF ODCE	-1.27 (67)	1.16 (55)	2.56 (63)	4.71 (61)	5.99 (66)	6.52 (66)	7.63 (63)
Median	-1.14	1.76	2.78	5.30	6.54	7.15	8.15



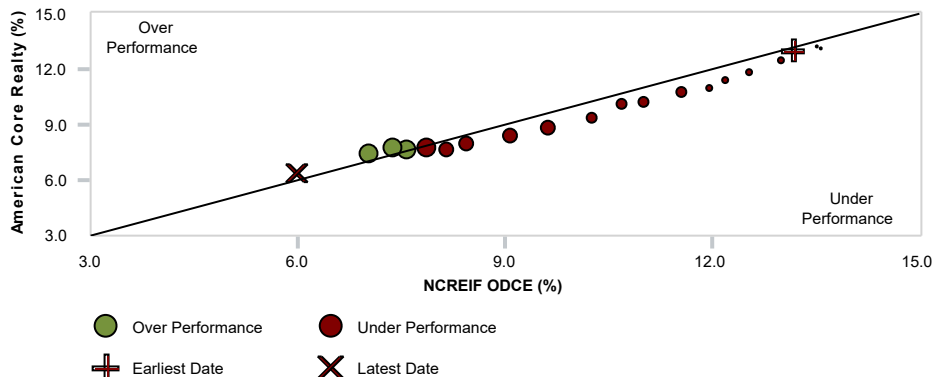
	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014
● American Core Realty	6.81 (52)	8.50 (65)	7.53 (62)	9.04 (94)	13.98 (68)	12.49 (64)
○ NCREIF ODCE	6.17 (72)	8.82 (59)	7.81 (56)	10.62 (68)	14.71 (61)	12.39 (67)
Median	6.89	9.04	8.05	11.32	15.45	12.78

Comparative Performance

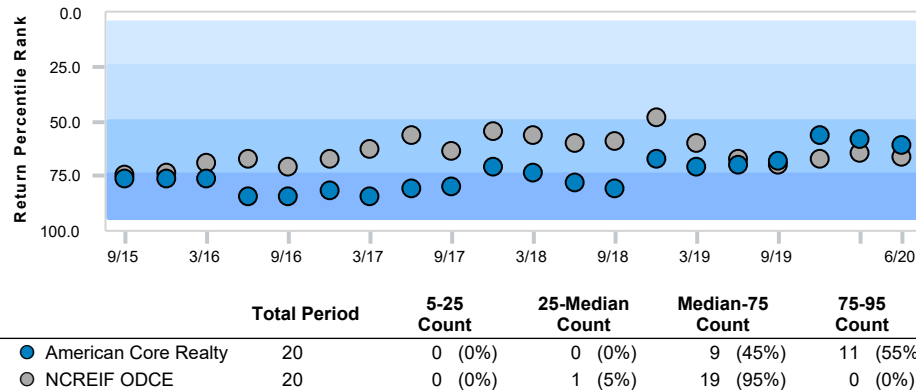
	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
American Core Realty	1.54 (31)	1.46 (66)	1.44 (71)	1.53 (30)	1.74 (72)	1.94 (25)
NCREIF ODCE	0.92 (67)	1.53 (58)	1.39 (75)	1.34 (61)	1.69 (76)	1.62 (58)
IM U.S. Open End Private Real Estate (SA+CF) Median	1.31	1.61	1.75	1.44	1.99	1.73



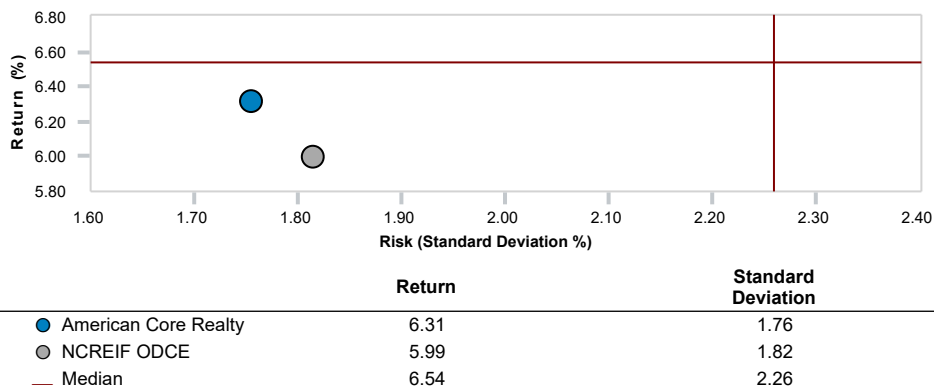
### 3 Yr Rolling Under/Over Performance - 5 Years



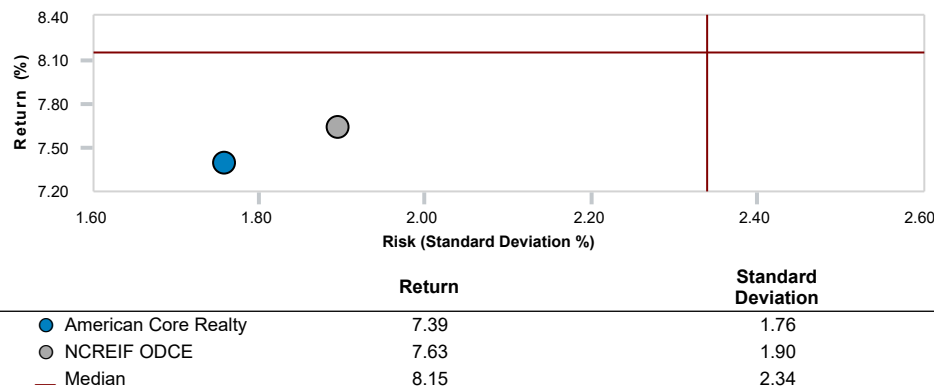
### 3 Yr Rolling Percentile Ranking - 5 Years



### 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	0.49	104.55	96.65	0.25	0.62	1.47	1.01	0.71
NCREIF ODCE	0.00	100.00	100.00	0.00	N/A	1.39	1.00	0.74

### Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
American Core Realty	0.80	96.94	96.65	0.26	-0.29	1.77	0.93	0.55
NCREIF ODCE	0.00	100.00	100.00	0.00	N/A	1.75	1.00	0.57

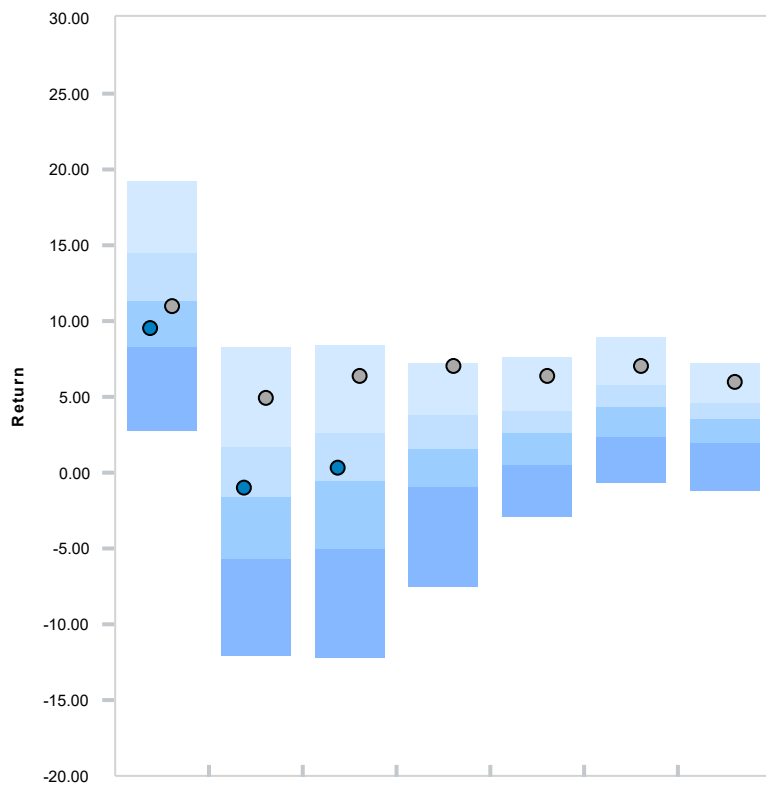


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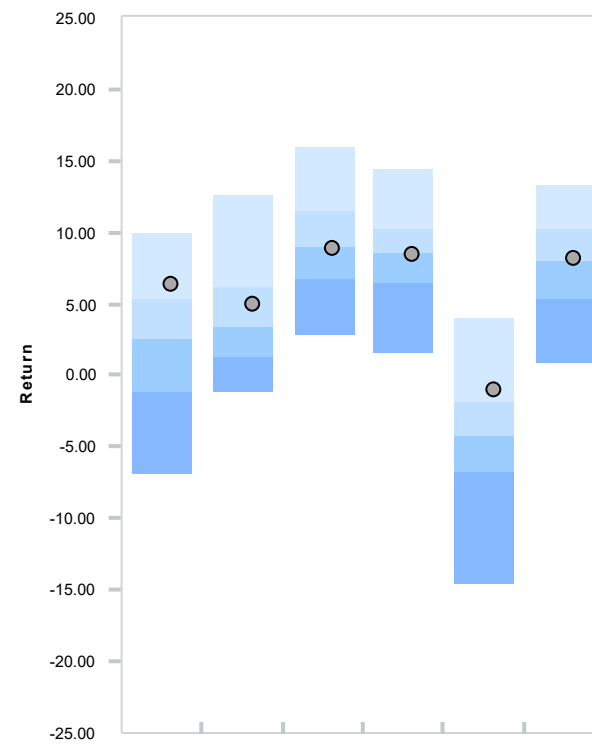




**Peer Group Analysis - IM Flexible Portfolio (MF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Blackrock Multi-Asset Income (BKMIX)	9.45 (70)	-1.00 (44)	0.27 (44)	N/A	N/A	N/A	N/A
○ 50% MSCI World Ind/50% Bar US Agg	10.96 (55)	4.84 (13)	6.35 (12)	6.92 (6)	6.38 (9)	6.93 (13)	5.89 (9)
Median	11.29	-1.57	-0.52	1.55	2.61	4.29	3.55



	Oct-2018 To Sep-2019	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
● Blackrock Multi-Asset Income (BKMIX)	N/A	N/A	N/A	N/A	N/A	N/A
○ 50% MSCI World Ind/50% Bar US Agg	6.40 (18)	4.93 (36)	8.80 (53)	8.47 (51)	0.98 (19)	8.10 (49)
Median	2.59	3.38	9.02	8.55	4.22	7.99

**Comparative Performance**

	1 Qtr Ending Mar-2020	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018
Blackrock Multi-Asset Income (BKMIX)	-11.69 (24)	2.42 (81)	1.28 (34)	2.77 (41)	N/A	N/A
50% MSCI World Index (Net)/50% BB US Agg Index	-9.42 (14)	4.31 (47)	1.43 (31)	3.67 (11)	7.67 (53)	-6.03 (31)
IM Flexible Portfolio (MF) Median	-15.32	4.10	0.73	2.53	7.78	-7.63



**Delray Beach Police Officers' Retirement System**  
**Illiquid Investments**  
**June 30, 2020**

	<b>Market Value</b>	<b>Uncalled Capital Commitment</b>	<b>QTD IRR</b>	<b>Inception IRR</b>	<b>Inception Date</b>	<b>Expected Termination</b>
*Angelo Gordon Net Lease Realty Fund III, L.P.	\$1,766,402.00	\$75,889	0	6.5	3/10/2014	4/1/2027
*Crescent Direct Lending Levered Fund	\$2,339,292.00	\$390,451	0	7.1	10/9/2014	12/1/2022
*Dune Real Estate Fund III	\$1,636,457	\$90,739	0	10.39	11/6/2014	12/1/2024
*Molpus Woodlands Timber	\$1,104,175.00	\$0	0	1.99	6/24/2008	5/2018-5/2022

\* Market Value as of 3-31-2020

Market Value includes contributions & distributions since end of period.



**Benchmark History**  
**Investment Policy Benchmarks**  
As of June 30, 2020

Total Fund Policy			
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
<b>Jan-1978</b>		<b>Oct-2013</b>	
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
<b>Apr-2007</b>		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	<b>May-2014</b>	
<b>Oct-2007</b>		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
<b>Jan-2010</b>		<b>Jul-2015</b>	
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
<b>Jul-2010</b>		Alternatives Policy	7.50
Wilshire 5000 Total Market Index (full-cap) Index	35.00	<b>Nov-2015</b>	
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 June 30, 2020

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

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

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

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



**Delray Beach Police Officers' Retirement System**  
**Fee Analysis**  
As of June 30, 2020

	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)	Fee Schedule
Vanguard Total Stock Mkt (VTSAX)	1,128,553	451	0.04	0.04 % of Assets
Rhumblin R1000V	3,250,610	1,300	0.04	0.04 % of Assets
Boston LCV	11,466,754	63,067	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	4,895,624	1,958	0.04	0.04 % of Assets
Polen Capital LCG	16,014,055	96,084	0.60	0.60 % of Assets
Vanguard Mid-Cap Index (VIMAX)	2,604,904	2,084	0.08	0.08 % of Assets
Clarkston Partners (CISMX)	10,154,201	101,542	1.00	1.00 % of Assets
Harding Loevner Intl Equity (HLIZX)	15,589,601	130,953	0.84	0.84 % of Assets
Garcia Hamilton Fixed Income	20,047,086	50,118	0.25	0.25 % of Assets
Templeton Global Total Return (FTTRX)	2,506,645	16,795	0.67	0.67 % of Assets
American Core Realty	4,684,212	51,526	1.10	1.10 % of Assets
Blackrock Multi-Asset Income (BKMIX)	3,251,383	19,183	0.59	0.59 % of Assets
<b>Total Fund (Composite)</b>	<b>103,436,196</b>	<b>535,062</b>	<b>0.52</b>	



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<b>Active Return</b>	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
<b>Alpha</b>	- 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.
<b>Beta</b>	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
<b>Consistency</b>	- 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.
<b>Distributed to Paid In (DPI)</b>	- 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.
<b>Down Market Capture</b>	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
<b>Downside Risk</b>	- 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.
<b>Excess Return</b>	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
<b>Excess Risk</b>	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
<b>Information Ratio</b>	- 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.
<b>Public Market Equivalent (PME)</b>	- 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.
<b>R-Squared</b>	- 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.
<b>Return</b>	- Compounded rate of return for the period.
<b>Sharpe Ratio</b>	- 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.
<b>Standard Deviation</b>	- 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.
<b>Total Value to Paid In (TVPI)</b>	- 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
<b>Tracking Error</b>	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
<b>Treynor Ratio</b>	- 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.
<b>Up Market Capture</b>	- 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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