

Investment Performance Review  
Period Ending June 30, 2020

# The Woodlands Firefighters' Retirement System

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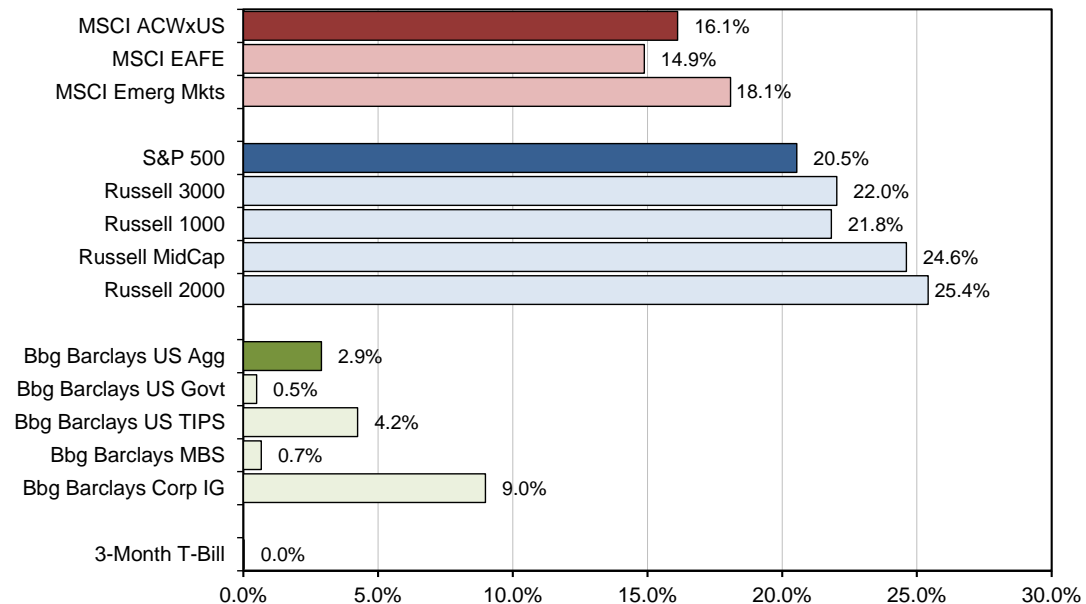


## **2nd Quarter 2020 Market Environment**

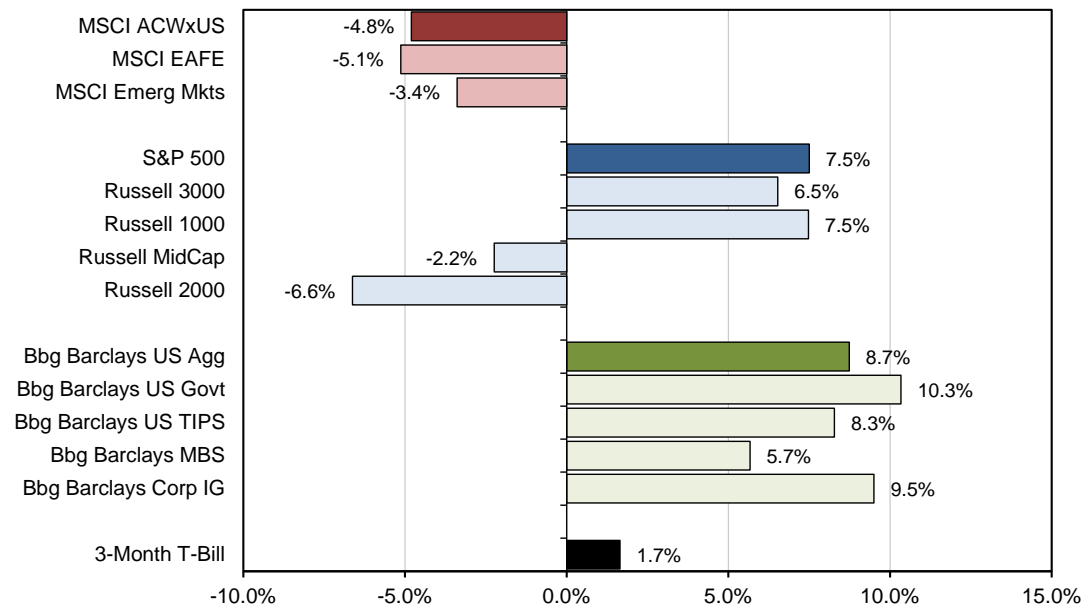


- Broad asset class returns rebounded sharply in the 2nd quarter following their harsh drawdown during the 1st quarter. The US government and Federal Reserve Bank (Fed) implemented a myriad of programs designed to provide the economy with liquidity while also mitigating the affects from the shelter-in-place 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

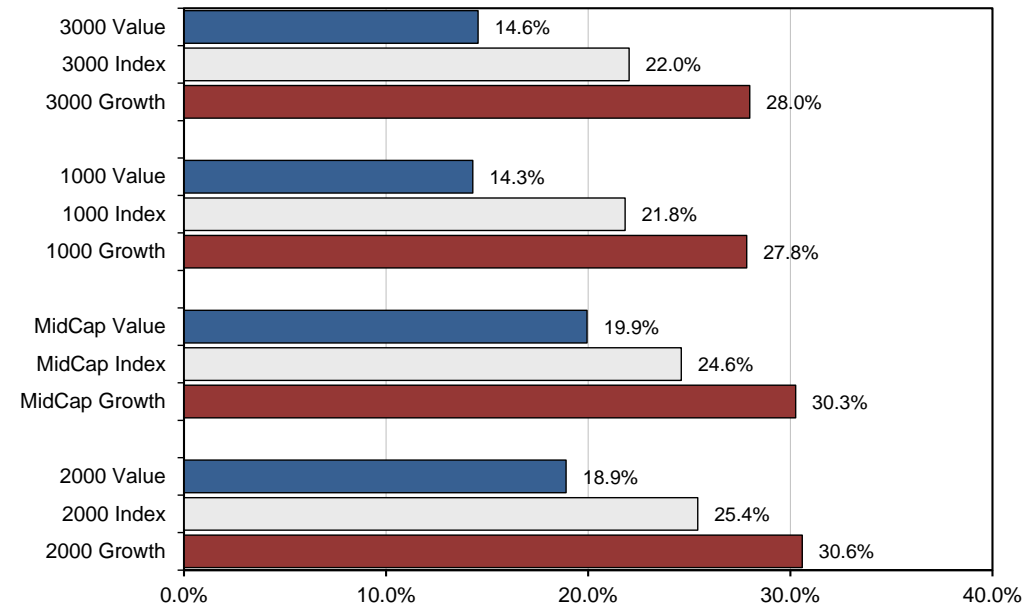


### 1-Year Performance

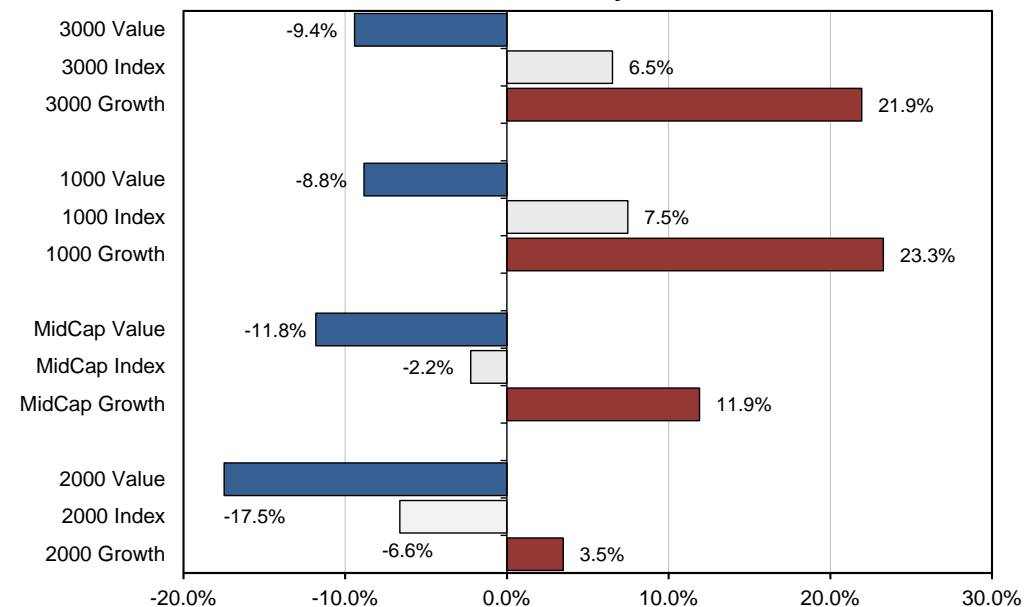


- US equity returns were strongly positive during the 2nd quarter, but results varied considerably across the style and capitalization spectrum. Following one of the sharpest drawdowns in history during the previous quarter, various capitalization and style indices experienced their strongest quarterly 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.

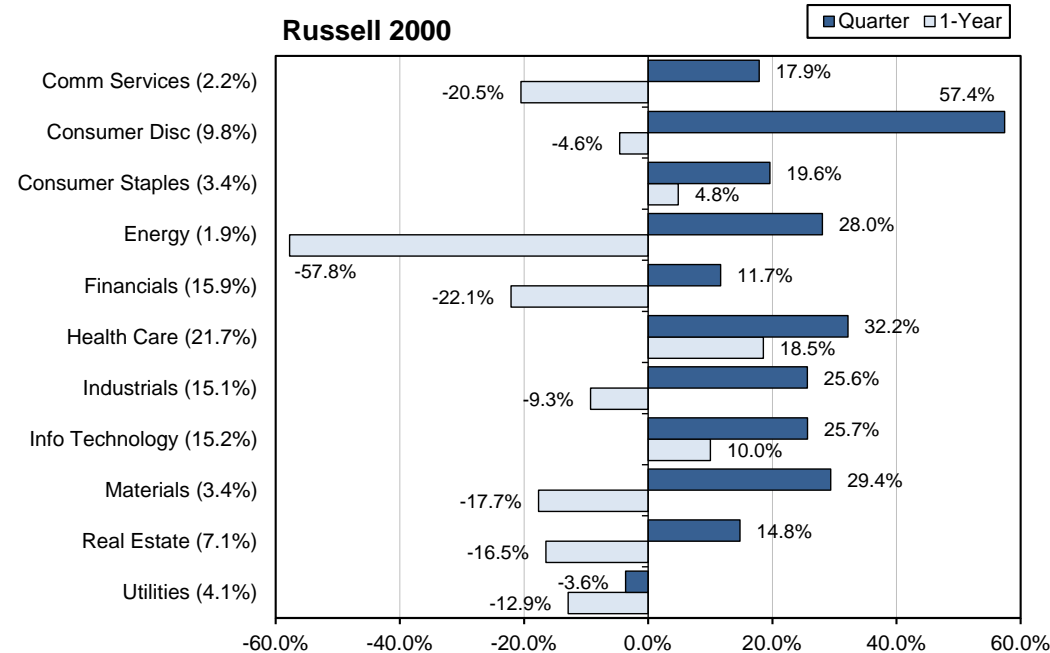
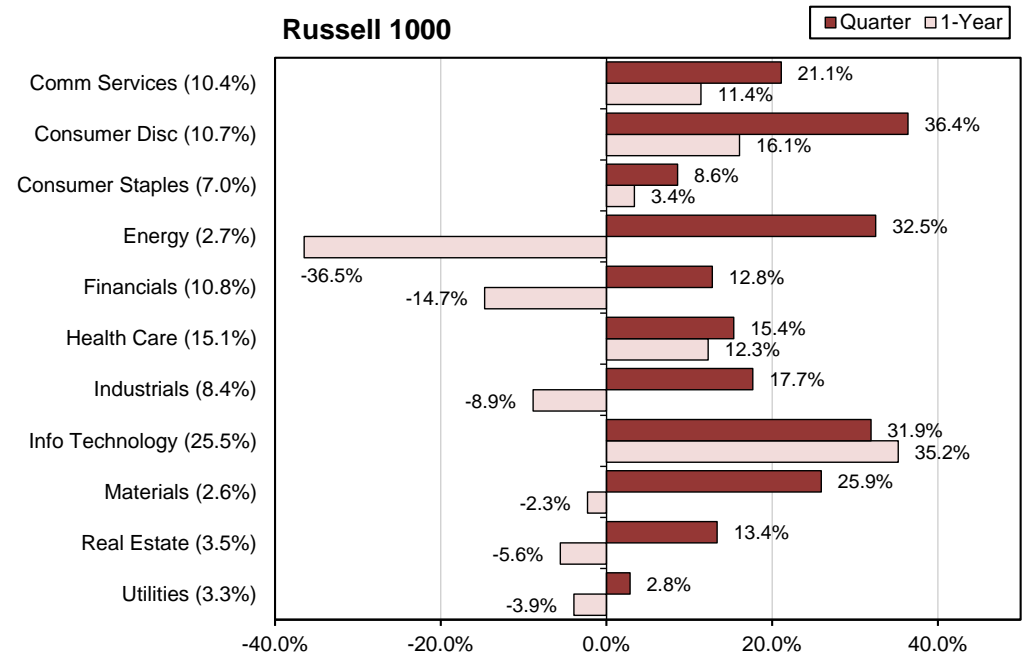
### Quarter Performance - Russell Style Series



### 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 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

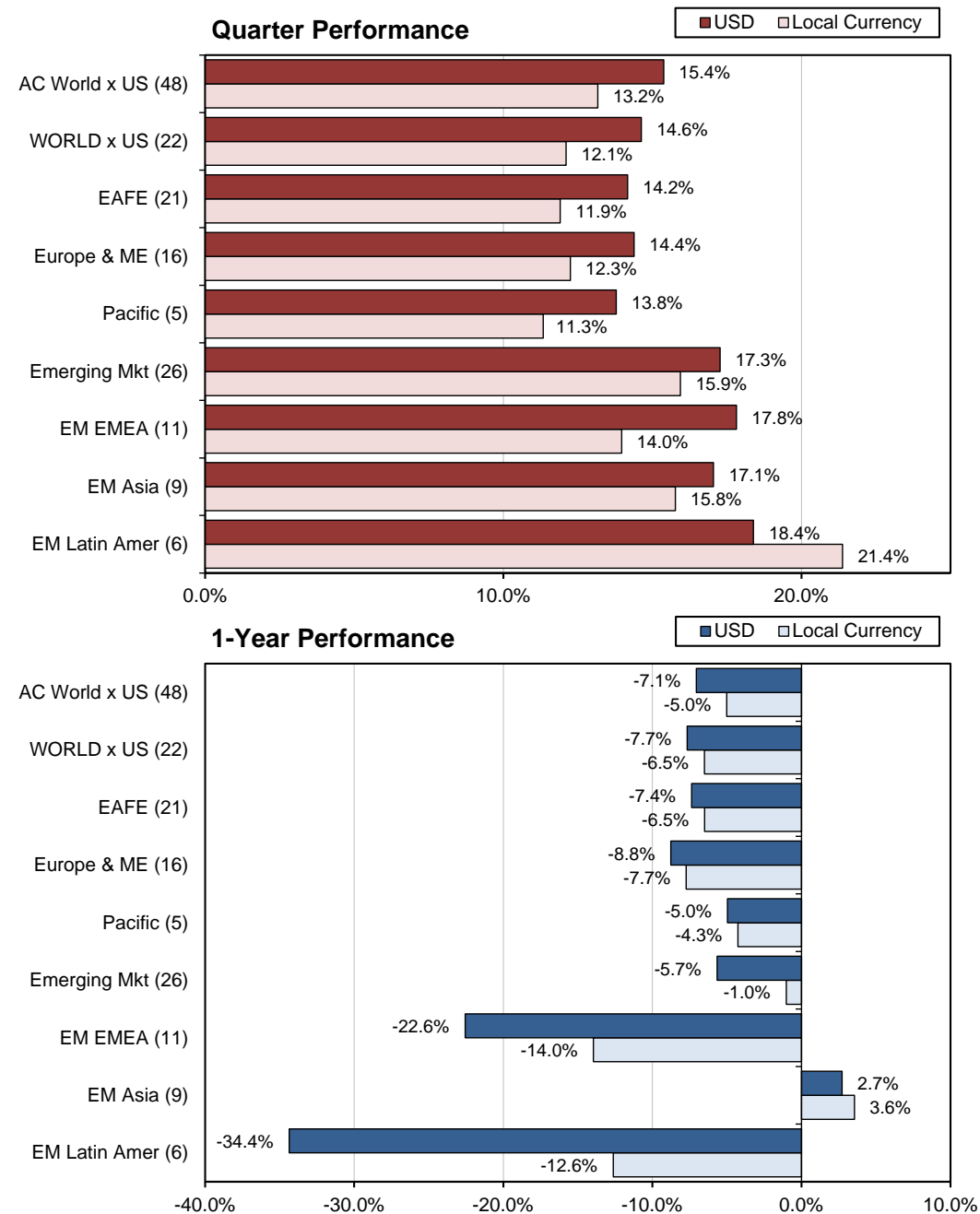
Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Empire State Realty Trust Inc Class A	0.00%	-20.7%	-50.8%	Real Estate
Xerox Holdings Corp	0.01%	-18.0%	-54.8%	Information Technology
Hawaiian Electric Industries Inc	0.01%	-15.5%	-14.7%	Utilities
Biogen 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

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 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 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)

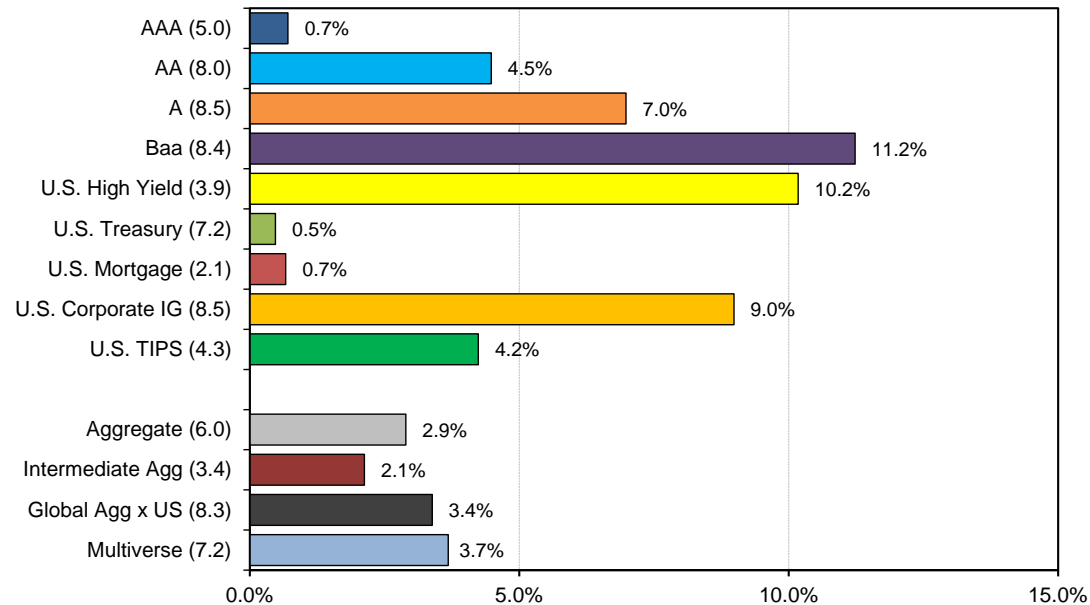
As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



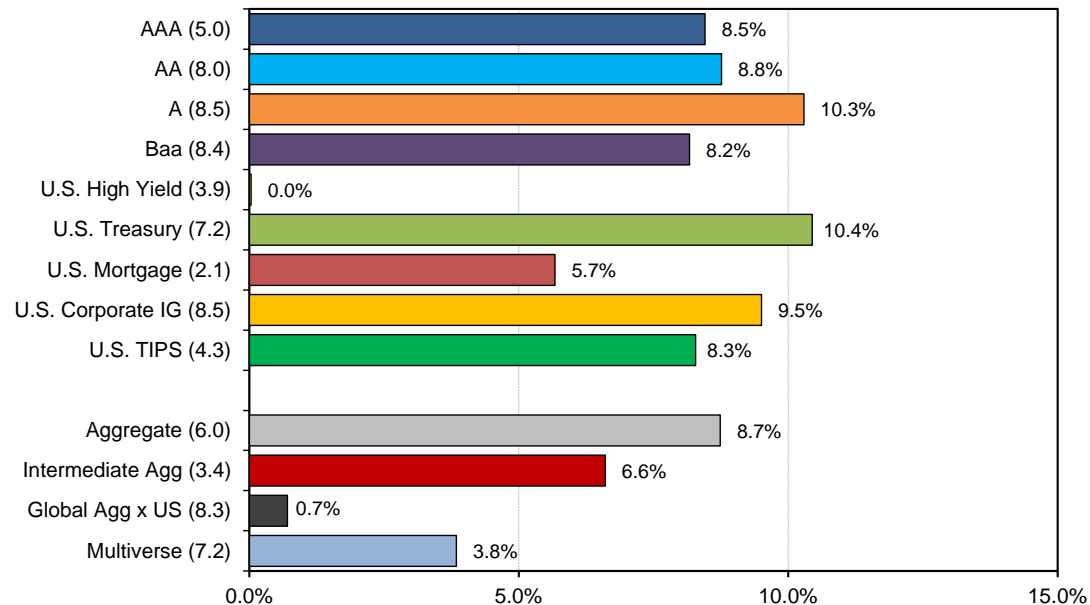


- Broad fixed income benchmarks rose sharply in the 2nd quarter as interest rates fell globally in response to the economic implications of the pandemic. The Fed continued purchasing bonds under programs announced during the first quarter to support capital markets and mitigate the damage to the economy. 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

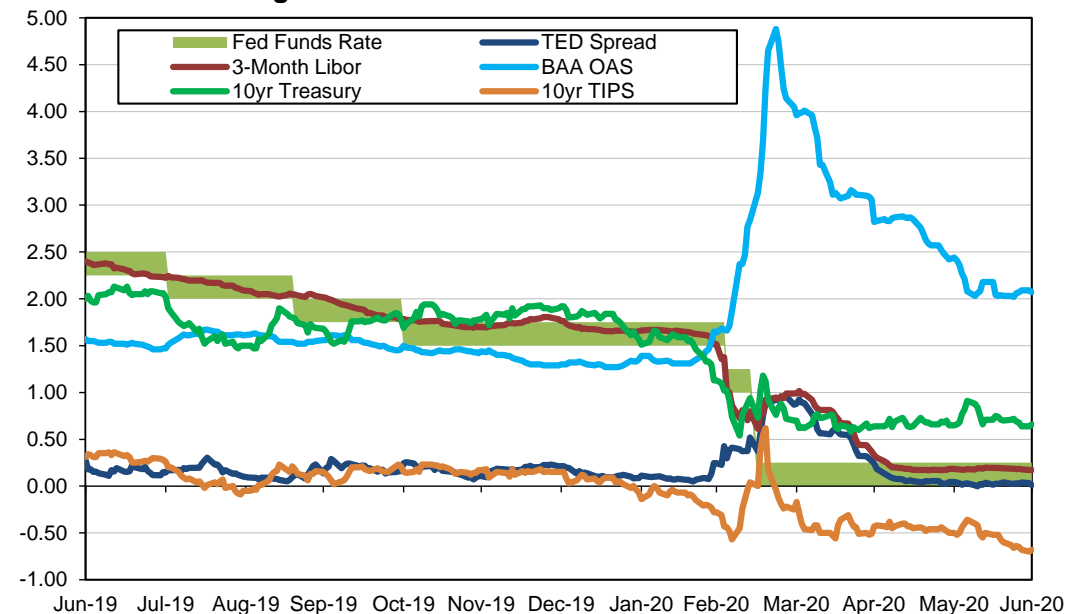


#### 1-Year Performance

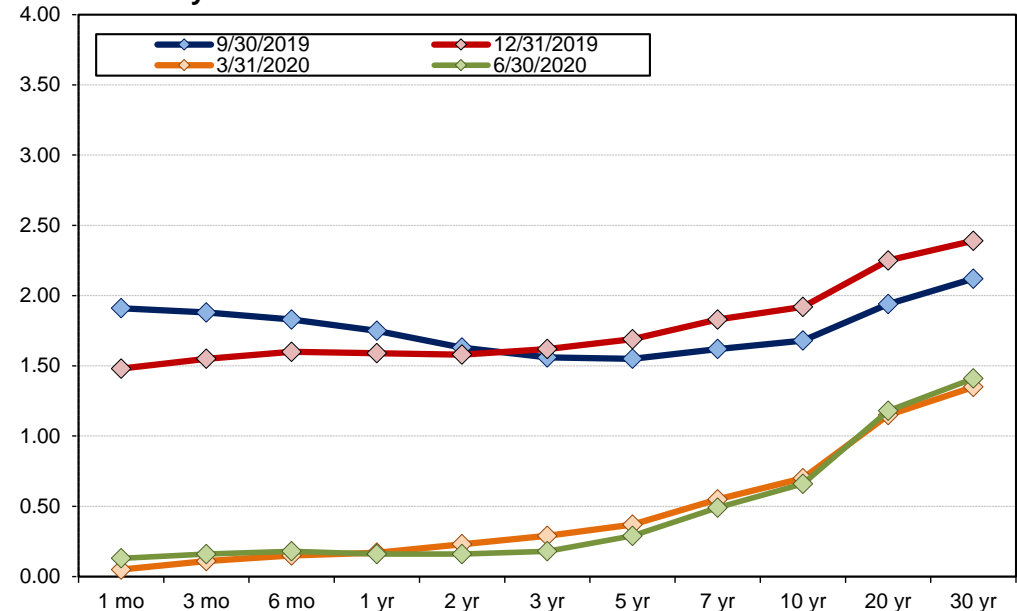


- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the yield graph to the right. The '1-Year Trailing Market Rates' chart illustrates that over the last year, the 10-year Treasury yield (green line) fell from yields of greater 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.

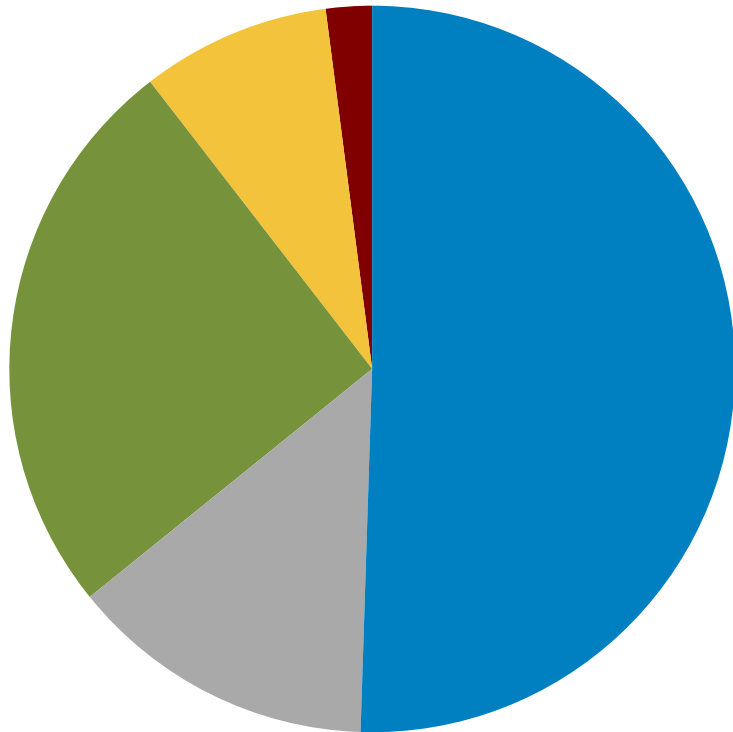
**1-Year Trailing Market Rates**



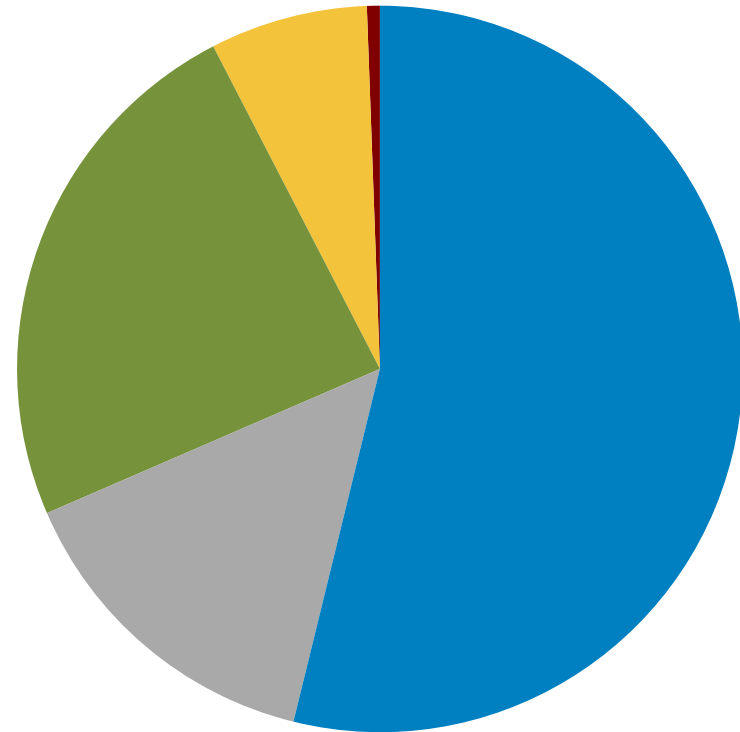
**Treasury Yield Curve**



**Asset Allocation By Segment as of  
March 31, 2020 : \$36,346,698**

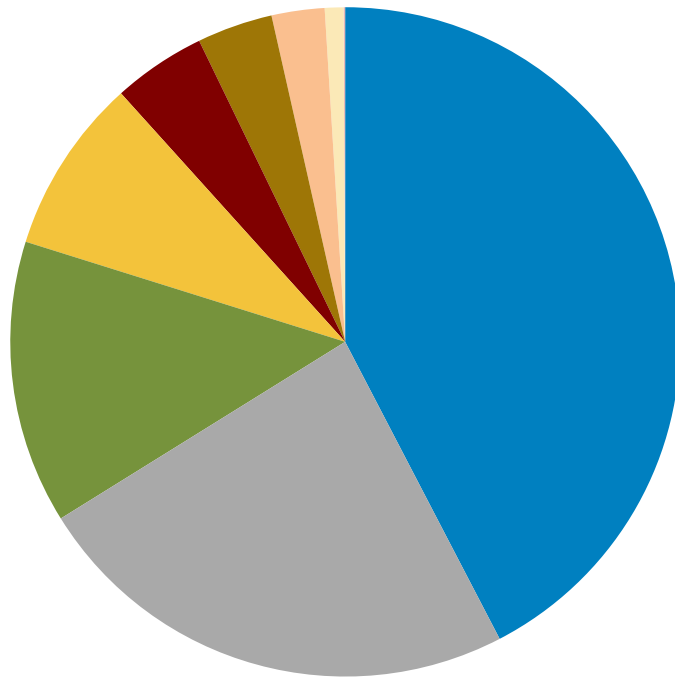


**Asset Allocation By Segment as of  
June 30, 2020 : \$42,756,804**

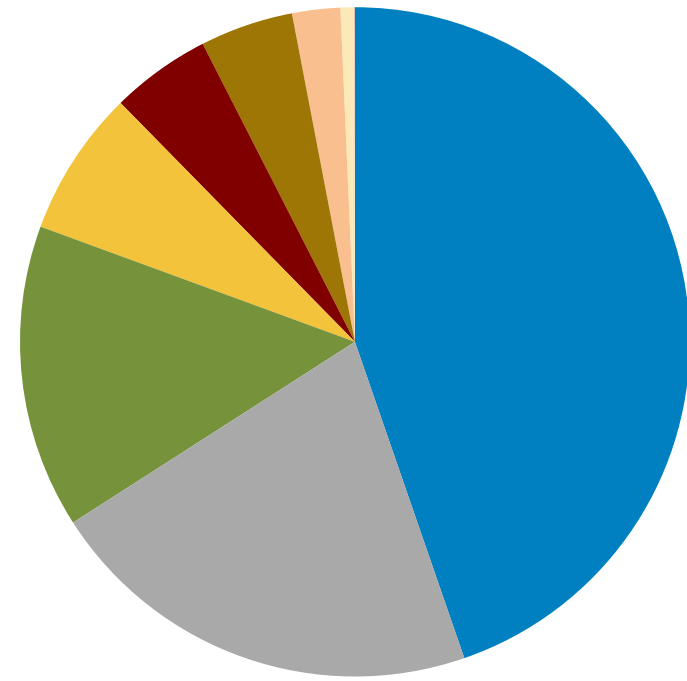


Allocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
Domestic Equity	18,359,974	50.5	Domestic Equity	23,016,596	53.8
International Equity	4,974,684	13.7	International Equity	6,273,136	14.7
Domestic Fixed Income	9,201,013	25.3	Domestic Fixed Income	10,218,045	23.9
Real Estate	3,065,848	8.4	Real Estate	3,002,056	7.0
Cash Equivalent	745,179	2.1	Cash Equivalent	246,971	0.6

Asset Allocation By Manager as of  
March 31, 2020 : \$36,346,698

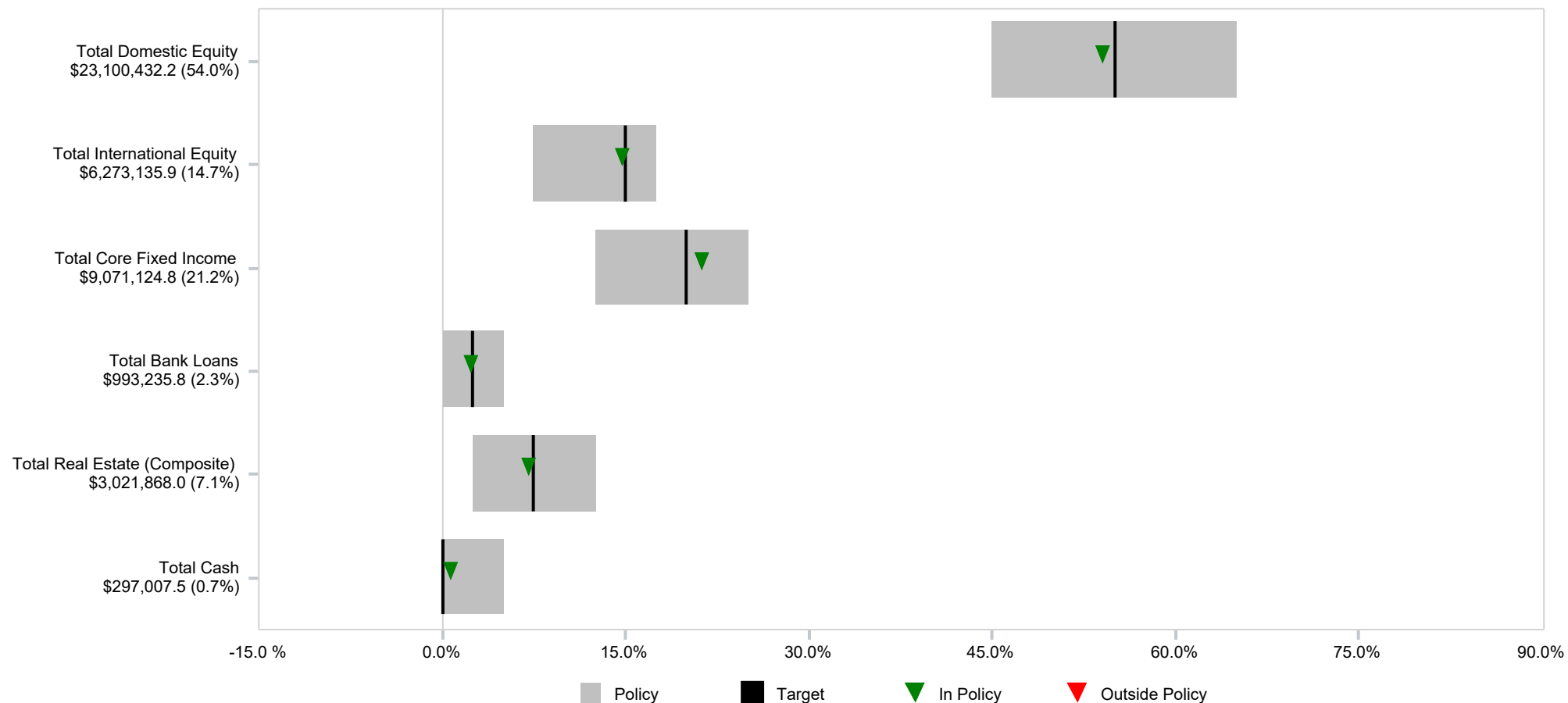


Asset Allocation By Manager as of  
June 30, 2020 : \$42,756,804



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Vanguard Total Stock Index (VITSX)	15,401,684	42.4	Vanguard Total Stock Index (VITSX)	19,114,195	44.7
Garcia Hamilton	8,641,341	23.8	Garcia Hamilton	9,071,125	21.2
EuroPacific Growth R6 (RERGX)	4,974,684	13.7	EuroPacific Growth R6 (RERGX)	6,273,136	14.7
Clarion (Core Real Estate)	3,086,072	8.5	Clarion (Core Real Estate)	3,021,868	7.1
Conestoga Small Cap I (CCALX)	1,632,013	4.5	Conestoga Small Cap I (CCALX)	2,063,838	4.8
American Beacon SC Value R6 (AASRX)	1,326,277	3.6	American Beacon SC Value R6 (AASRX)	1,922,398	4.5
Pacific Funds Floating Rate (PLFRX)	929,004	2.6	Pacific Funds Floating Rate (PLFRX)	993,236	2.3
Mutual Fund Cash	327,278	0.9	Mutual Fund Cash	278,144	0.7
Frost Bank Cash Account	28,345	0.1	Frost Bank Cash Account	18,864	0.0

## Executive Summary

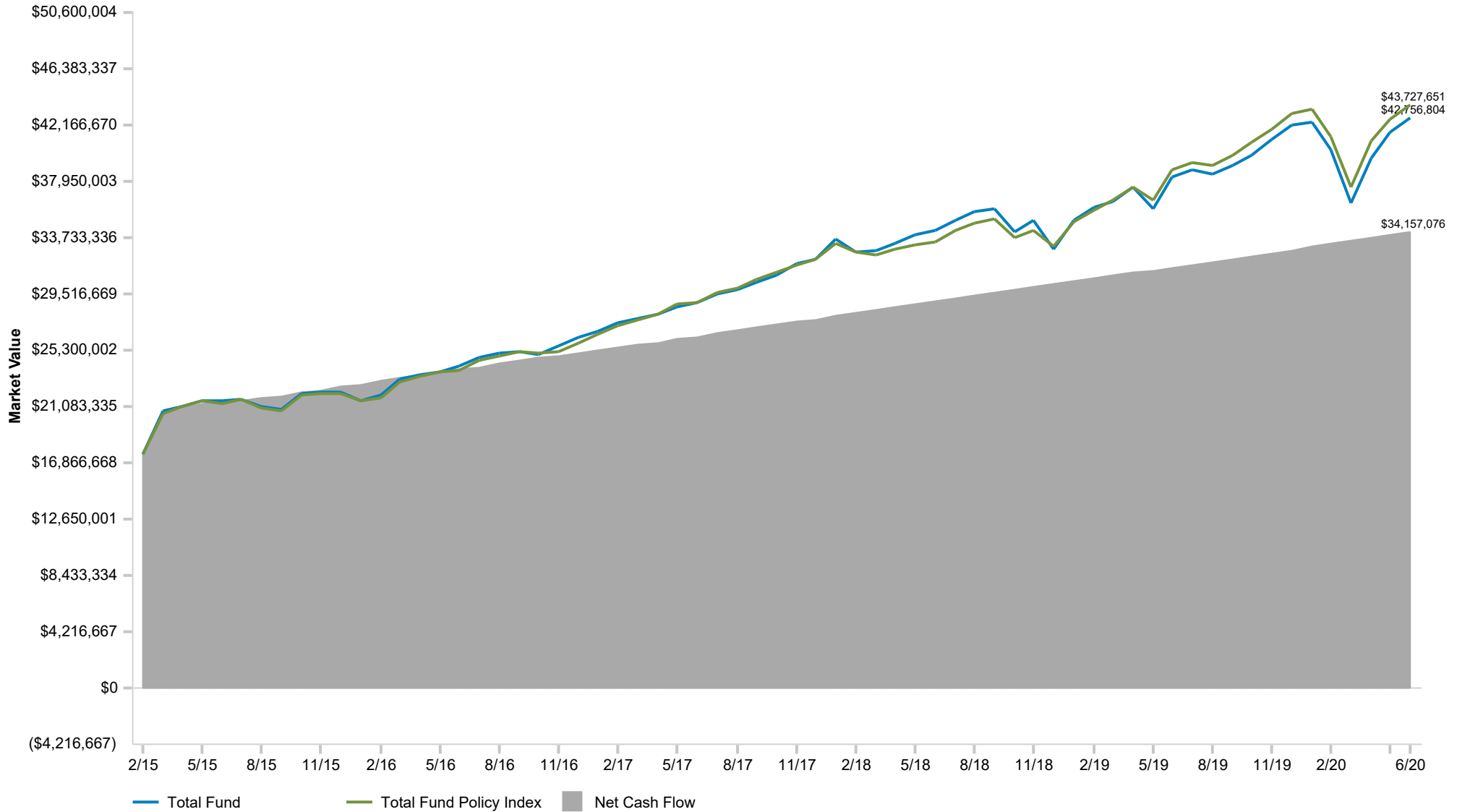


## Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebal. (\$000)
Total Fund	42,756,804	100.0	N/A	N/A	100.0	-
Total Domestic Equity	23,100,432	54.0	45.0	65.0	55.0	415,810
Total International Equity	6,273,136	14.7	7.5	17.5	15.0	140,385
Total Core Fixed Income	9,071,125	21.2	12.5	25.0	20.0	-519,764
Total Bank Loans	993,236	2.3	0.0	5.0	2.5	75,684
Total Real Estate (Composite)	3,021,868	7.1	2.5	12.5	7.5	184,892
Total Cash	297,008	0.7	0.0	5.0	0.0	-297,008

**Schedule of Investable Assets**  
**Total Fund**  
 Since Inception Ending June 30, 2020

**Schedule of Investable Assets**



**Schedule of Investable Assets**

Periods Ending	Beginning Market Value \$	Net Cash Flow \$	Ending Market Value \$
Inception	17,541,325	16,615,752	42,756,804





The Woodlands Firefighters' Retirement System

Financial Reconciliation

1 Quarter Ending June 30, 2020

Financial Reconciliation One Quarter									
	Market Value 04/01/2020	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 06/30/2020
<b>Total Fund</b>	<b>36,346,698</b>	<b>-</b>	<b>737,334</b>	<b>-48,220</b>	<b>-8,018</b>	<b>-48,491</b>	<b>145,865</b>	<b>5,631,636</b>	<b>42,756,804</b>
<b>Total Domestic Equity</b>	<b>18,359,974</b>	<b>550,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>83,836</b>	<b>4,106,623</b>	<b>23,100,432</b>
Vanguard Total Stock Index (VITSX)	15,401,684	300,000	-	-	-	-	83,836	3,328,676	19,114,195
American Beacon SC Value R6 (AASRX)	1,326,277	250,000	-	-	-	-	-	346,121	1,922,398
Conestoga Small Cap I (CCALX)	1,632,013	-	-	-	-	-	-	431,826	2,063,838
<b>Total International Developed Equity</b>	<b>4,974,684</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,148,452</b>	<b>6,273,136</b>
EuroPacific Growth R6 (RERGX)	4,974,684	150,000	-	-	-	-	-	1,148,452	6,273,136
<b>Total Core Fixed Income</b>	<b>8,641,341</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-658</b>	<b>46,777</b>	<b>383,664</b>	<b>9,071,125</b>
Garcia Hamilton	8,641,341	-	-	-	-	-658	46,777	383,664	9,071,125
<b>Total Bank Loans</b>	<b>929,004</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,372</b>	<b>53,860</b>	<b>993,236</b>
Pacific Funds Floating Rate (PLFRX)	929,004	-	-	-	-	-	10,372	53,860	993,236
<b>Total Real Estate</b>	<b>3,086,072</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-8,018</b>	<b>-</b>	<b>-</b>	<b>-56,186</b>	<b>3,021,868</b>
Clarion	3,086,072	-	-	-	-8,018	-	-	-56,186	3,021,868
<b>Total Cash</b>	<b>355,623</b>	<b>-700,000</b>	<b>737,334</b>	<b>-48,220</b>	<b>-</b>	<b>-47,833</b>	<b>4,880</b>	<b>-4,777</b>	<b>297,008</b>
Frost Bank Cash Account	28,345	40,000	-	-48,220	-	-1,271	9	-	18,864
Mutual Fund Cash	327,278	-740,000	737,334	-	-	-46,562	4,871	-4,777	278,144



**The Woodlands Firefighters' Retirement System**  
**Financial Reconciliation**  
Year To Date Ending June 30, 2020

Financial Reconciliation Year to Date									
	Market Value 01/01/2020	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 06/30/2020
<b>Total Fund</b>	<b>42,170,963</b>	<b>-</b>	<b>1,601,650</b>	<b>-97,894</b>	<b>-21,142</b>	<b>-64,148</b>	<b>280,469</b>	<b>-1,113,092</b>	<b>42,756,804</b>
<b>Total Domestic Equity</b>	<b>23,369,775</b>	<b>750,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>156,801</b>	<b>-1,176,144</b>	<b>23,100,432</b>
Vanguard Total Stock Index (VITSX)	19,195,004	500,000	-	-	-	-	156,801	-737,610	19,114,195
American Beacon SC Value R6 (AASRX)	2,153,209	250,000	-	-	-	-	-	-480,810	1,922,398
Conestoga Small Cap I (CCALX)	2,021,562	-	-	-	-	-	-	42,277	2,063,838
<b>Total International Developed Equity</b>	<b>6,413,175</b>	<b>150,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-290,039</b>	<b>6,273,136</b>
EuroPacific Growth R6 (RERGX)	6,413,175	150,000	-	-	-	-	-	-290,039	6,273,136
<b>Total Core Fixed Income</b>	<b>8,219,146</b>	<b>325,000</b>	<b>-</b>	<b>-</b>	<b>-5,136</b>	<b>-1,076</b>	<b>99,734</b>	<b>433,457</b>	<b>9,071,125</b>
Garcia Hamilton	8,219,146	325,000	-	-	-5,136	-1,076	99,734	433,457	9,071,125
<b>Total Bank Loans</b>	<b>1,036,835</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18,264</b>	<b>-61,863</b>	<b>993,236</b>
Pacific Funds Floating Rate (PLFRX)	1,036,835	-	-	-	-	-	18,264	-61,863	993,236
<b>Total Real Estate</b>	<b>3,051,667</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-16,006</b>	<b>-</b>	<b>-</b>	<b>-13,793</b>	<b>3,021,868</b>
Clarion	3,051,667	-	-	-	-16,006	-	-	-13,793	3,021,868
<b>Total Cash</b>	<b>80,365</b>	<b>-1,225,000</b>	<b>1,601,650</b>	<b>-97,894</b>	<b>-</b>	<b>-63,072</b>	<b>5,669</b>	<b>-4,710</b>	<b>297,008</b>
Frost Bank Cash Account	64,029	40,000	-	-82,894	-	-2,611	275	66	18,864
Mutual Fund Cash	16,337	-1,265,000	1,601,650	-15,000	-	-60,461	5,395	-4,777	278,144



**The Woodlands Firefighters' Retirement System**  
**Asset Allocation & Performance Trailing Returns**  
As of June 30, 2020

**Asset Allocation & Performance**

	Allocation		All Performance Data is Net of Fees(%)														
	Market Value	%	QTR		YTD		1 YR		2 YR		3 YR		5 YR		Inception	Inception Date	
<b>Total Fund (Net)</b>	<b>42,756,804</b>	<b>100.0</b>	<b>15.81</b>	<b>(10)</b>	<b>-2.15</b>	<b>(47)</b>	<b>4.51</b>	<b>(37)</b>	<b>4.17</b>	<b>(71)</b>	<b>5.83</b>	<b>(57)</b>	<b>5.46</b>	<b>(70)</b>	<b>5.12</b>	<b>(67)</b>	<b>03/01/2015</b>
Total Fund Policy Index			14.90	(20)	-1.86	(41)	5.51	(21)	6.83	(11)	6.68	(31)	6.11	(43)	5.56	(45)	
All Public Plans-Total Fund (Net)			13.12		-2.26		3.72		5.02		5.98		5.94		5.46		
<b>New Portfolio Structure 10/1/19</b>	<b>42,756,804</b>	<b>100.0</b>	<b>15.81</b>		<b>-2.15</b>		-		-		-		-		<b>3.85</b>		<b>10/01/2019</b>
Total Fund Policy Index			14.90		-1.86		5.51		6.83		6.68		6.11		4.47		
<b>Total Equity</b>	<b>29,373,568</b>	<b>68.7</b>	<b>22.69</b>		<b>-4.67</b>		<b>3.65</b>		<b>3.84</b>		<b>6.78</b>		<b>6.87</b>		<b>6.61</b>		<b>03/01/2015</b>
<b>Total Domestic Equity</b>	<b>23,100,432</b>	<b>54.0</b>	<b>22.63</b>		<b>-4.68</b>		<b>3.66</b>		-		-		-		<b>3.66</b>		<b>07/01/2019</b>
Vanguard Total Stock Index (VITSX)	19,114,195	44.7	22.11	(37)	-3.36	(28)	6.50	(23)	-		-		-		6.50	(23)	07/01/2019
CRSP U.S. Total Market TR Index			22.09	(38)	-3.40	(29)	6.47	(24)	7.72	(-)	10.04	(-)	10.03	(-)	6.47	(24)	
IM U.S. Multi-Cap Core Equity (MF) Median			21.53		-5.49		3.05		-		-		-		3.05		
American Beacon SC Value R6 (AASRX)	1,922,398	4.5	22.16	(48)	-24.75	(68)	-18.63	(57)	-		-		-		-18.63	(57)	07/01/2019
Russell 2000 Value Index			18.91	(81)	-23.50	(52)	-17.48	(49)	-12.04	(-)	-4.35	(-)	1.26	(-)	-17.48	(49)	
IM U.S. Small Cap Value Equity (MF) Median			21.81		-23.41		-17.72		-		-		-		-17.72		
Conestoga Small Cap I (CCALX)	2,063,838	4.8	26.46	(87)	2.09	(38)	3.68	(53)	-		-		-		3.68	(53)	07/01/2019
Russell 2000 Growth Index			30.58	(52)	-3.06	(61)	3.48	(55)	1.47	(-)	7.86	(-)	6.86	(-)	3.48	(55)	
IM U.S. Small Cap Growth Equity (MF) Median			30.85		0.00		4.23		-		-		-		4.23		
<b>Total International Developed Equity</b>	<b>6,273,136</b>	<b>14.7</b>	<b>22.88</b>		<b>-4.68</b>		<b>3.27</b>		-		-		-		<b>3.27</b>		<b>07/01/2019</b>
EuroPacific Growth R6 (RERGX)	6,273,136	14.7	22.77	(15)	-4.77	(10)	3.17	(9)	-		-		-		3.17	(9)	07/01/2019
MSCI AC World ex USA (Net)			16.12	(55)	-11.00	(48)	-4.80	(42)	-1.80	(-)	1.13	(-)	2.26	(-)	-4.80	(42)	
IM International Large Cap Core Equity (MF) Median			16.72		-11.22		-5.77		-		-		-		-5.77		

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



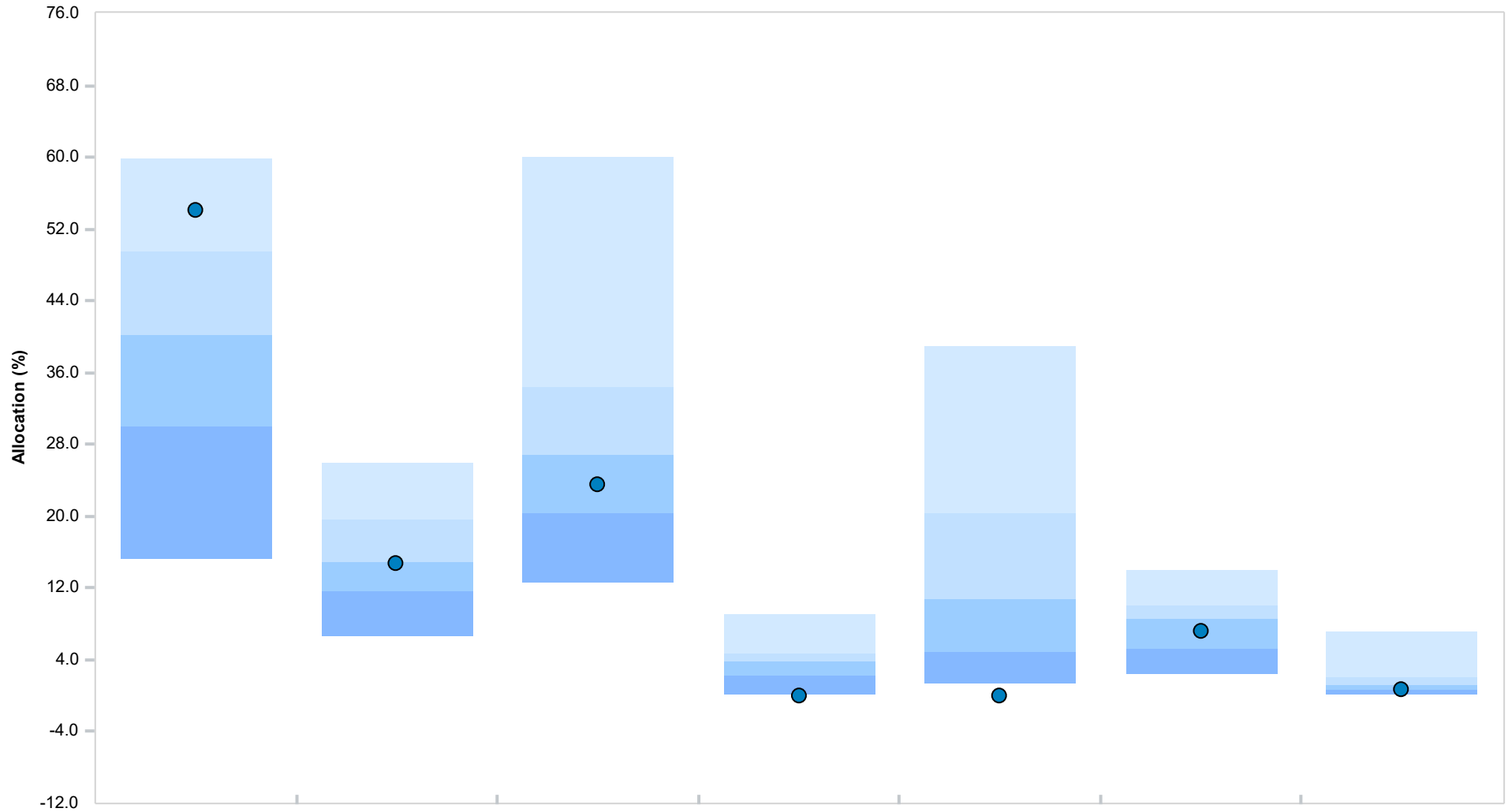
**The Woodlands Firefighters' Retirement System**  
**Asset Allocation & Performance Trailing Returns**  
As of June 30, 2020

	Allocation		All Performance Data is Net of Fees(%)									Inception Date				
	Market Value	%	QTR		YTD		1 YR		2 YR		3 YR		5 YR		Inception	
Total Fixed Income	10,064,361	23.5	5.17		5.11		7.52		5.73		4.05		3.15		2.99	03/01/2015
Total Core Fixed Income	9,071,125	21.2	4.98		6.24		8.63		-		-		-		8.63	07/01/2019
Garcia Hamilton	9,071,125	21.2	4.98	(31)	6.31	(46)	8.78	(66)	-	-	-	-	8.78	(66)	07/01/2019	
Blmbg. Barc. U.S. Aggregate Index			2.90	(90)	6.14	(60)	8.74	(68)	8.30	(-)	5.32	(-)	4.30	(-)	8.74	(68)
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			4.42		6.24		8.93		-	-	-	-	8.93			
Total Bank Loans	993,236	2.3	6.91		-4.21		-1.67		-		-		-		-1.67	07/01/2019
Pacific Funds Floating Rate (PLFRX)	993,236	2.3	6.91	(78)	-4.21	(12)	-1.65	(12)	-	-	-	-	-1.65	(12)	07/01/2019	
Credit Suisse Leveraged Loan Index			9.71	(24)	-4.75	(27)	-2.27	(25)	0.89	(-)	2.13	(-)	2.94	(-)	-2.27	(25)
IM U.S. Bank Loans (MF) Median			8.21		-5.54		-3.13		-	-	-	-	-3.13			
Total Real Estate	3,021,868	7.1	-1.82 (71)		-0.46 (50)		-		-		-		-		1.52 (52)	10/01/2019
NCREIF Fund Index-Open End Diversified Core (EW)			-1.27 (67)		-0.37 (50)		2.56 (-)		4.71 (-)		5.99 (-)		7.63 (-)		1.16 (55)	
IM U.S. Open End Private Real Estate (SA+CF) Median			-1.14		-0.48		-		-		-		-		1.76	
Clarion	3,021,868	7.1	-1.82	(71)	-0.46	(50)	-		-	-	-	-	1.52	(52)	10/01/2019	
NCREIF Fund Index-Open End Diversified Core (EW)			-1.27	(67)	-0.37	(50)	2.56	(-)	4.71	(-)	5.99	(-)	7.63	(-)	1.16	(55)
IM U.S. Open End Private Real Estate (SA+CF) Median			-1.14		-0.48		-		-	-	-	-	1.76			
Total Cash	297,008	0.7	0.03		0.43		1.39		-		-		-		1.39	07/01/2019
Frost Bank Cash Account	18,864	0.0	0.06		0.70		1.52		-		-		-		1.52	07/01/2019
Mutual Fund Cash	278,144	0.7	0.03		0.36		1.37		-		-		-		1.37	07/01/2019

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



## Plan Sponsor TF Asset Allocation vs. All Public Plans-Total Fund



	US Equity	Intl. Equity	US Fixed Income	Intl. Fixed Income	Alternative Inv.	Real Estate	Cash
● Total Fund	54.03 (12)	14.67 (51)	23.54 (63)	0.00	0.00	7.07 (61)	0.69 (68)
5th Percentile	59.90	26.00	60.04	9.12	38.88	14.00	7.07
1st Quartile	49.47	19.57	34.36	4.73	20.27	10.20	2.03
Median	40.25	14.79	26.74	3.80	10.88	8.55	1.13
3rd Quartile	30.02	11.65	20.32	2.23	4.91	5.25	0.56
95th Percentile	15.29	6.67	12.61	0.14	1.35	2.47	0.07

Parenteses contain percentile rankings.  
Calculation based on <Periodicity> periodicity.



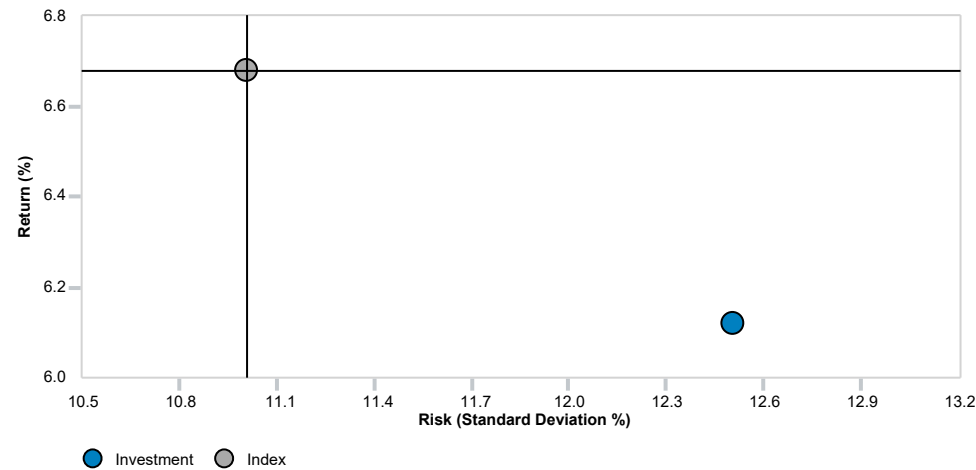
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	6.12	12.51	0.40	109.50	9	119.21	3
Index	6.68	11.01	0.48	100.00	9	100.00	3

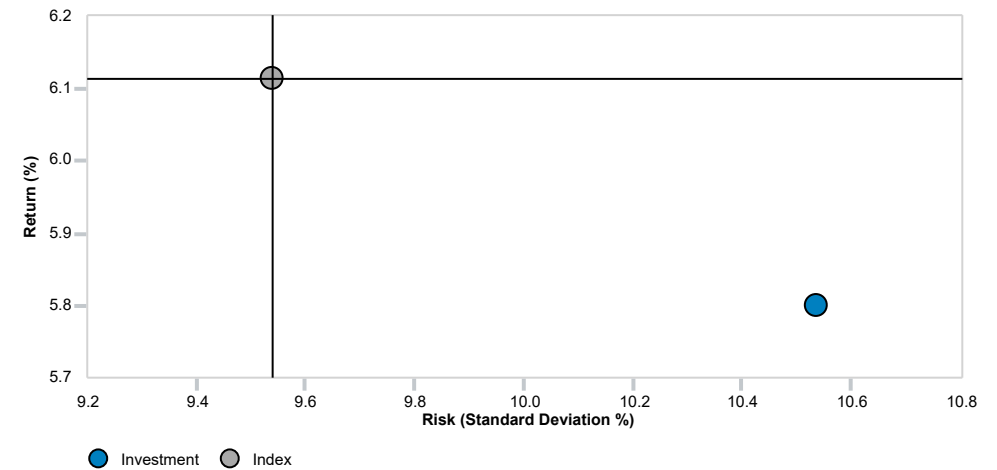
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.80	10.54	0.48	104.05	16	109.23	4
Index	6.11	9.54	0.55	100.00	16	100.00	4

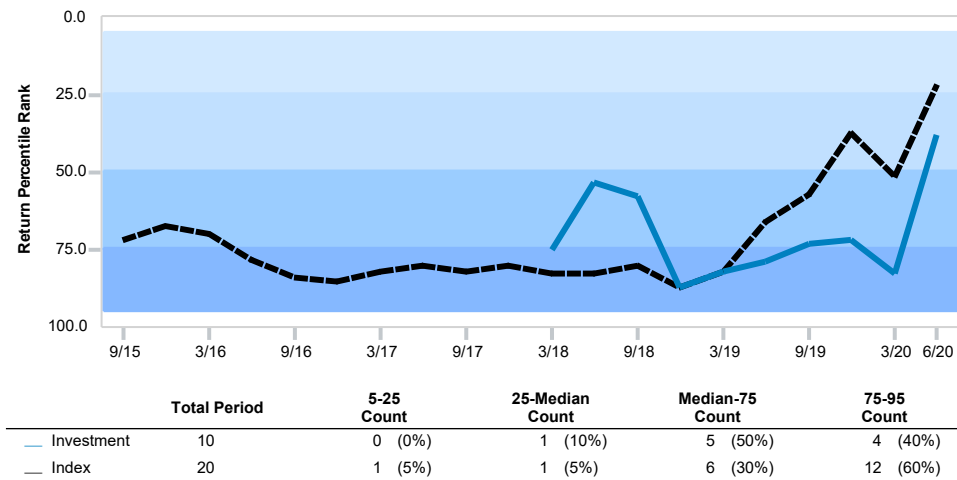
### Risk and Return 3 Years



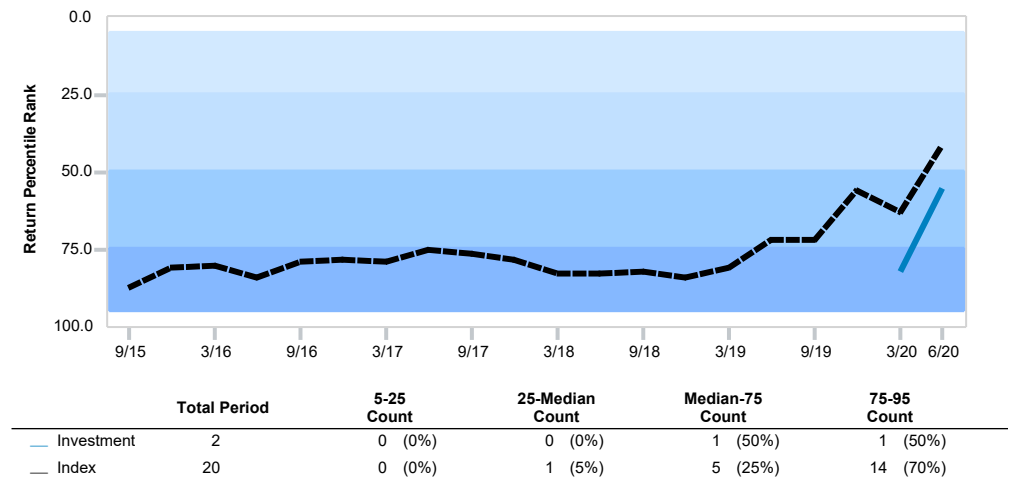
### Risk and Return 5 Years



### 3 Year Rolling Percentile Rank All Public Plans-Total Fund

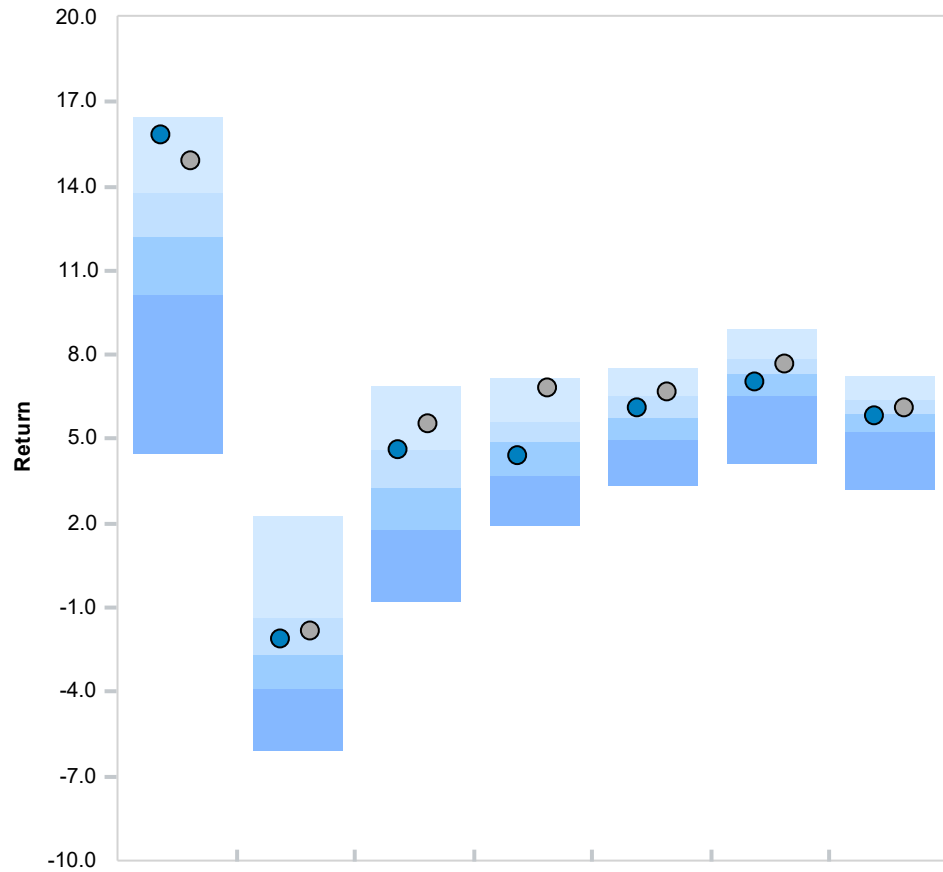


### 5 Year Rolling Percentile Rank All Public Plans-Total Fund



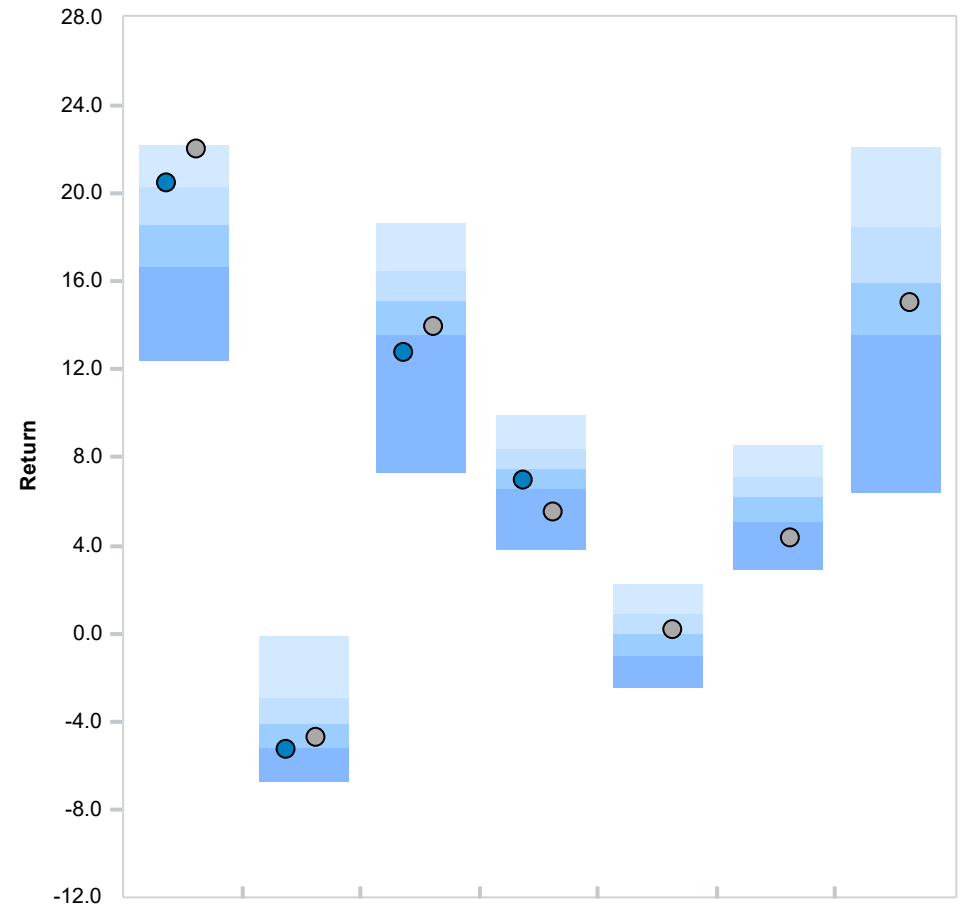


**Peer Group Analysis - All Public Plans-Total Fund**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
Investment	15.83 (7)	-2.10 (41)	4.61 (26)	4.41 (60)	6.12 (38)	7.00 (61)	5.80 (55)
Index	14.90 (12)	-1.86 (36)	5.51 (16)	6.83 (8)	6.68 (22)	7.63 (37)	6.11 (41)
Median	12.22	-2.70	3.29	4.87	5.72	7.28	5.90

**Peer Group Analysis - All Public Plans-Total Fund**



	2019	2018	2017	2016	2015	2014	2013
Investment	20.46 (22)	-5.28 (78)	12.72 (82)	7.00 (66)	N/A	N/A	N/A
Index	22.02 (6)	-4.75 (65)	13.90 (71)	5.47 (88)	0.13 (48)	4.29 (85)	14.99 (59)
Median	18.59	-4.15	15.10	7.46	0.01	6.20	15.92

**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
Investment	-15.48 (85)	6.17 (14)	0.65 (65)	3.43 (30)	8.99 (31)	-10.08 (96)
Index	-14.59 (74)	6.46 (9)	0.99 (37)	4.73 (1)	8.37 (52)	-7.52 (50)
Median	-13.16	5.25	0.83	3.27	8.46	-7.56

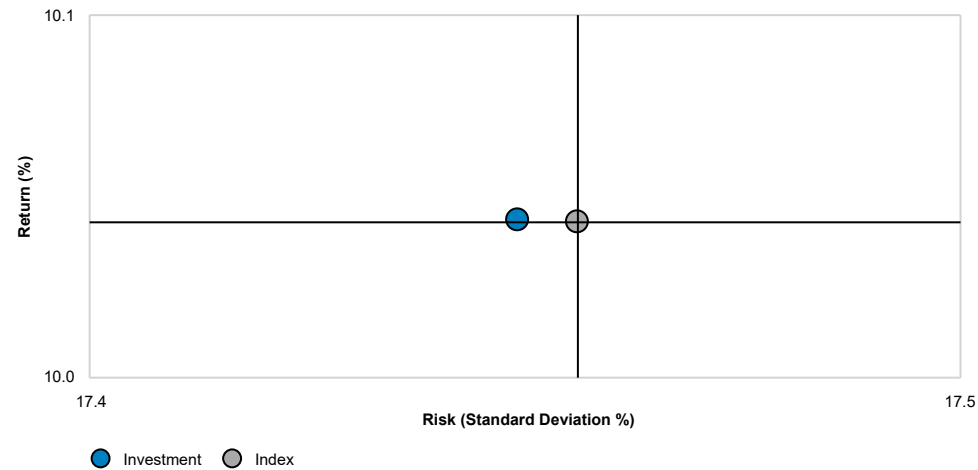
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.04	17.45	0.54	99.97	9	99.96	3
Index	10.04	17.46	0.54	100.00	9	100.00	3

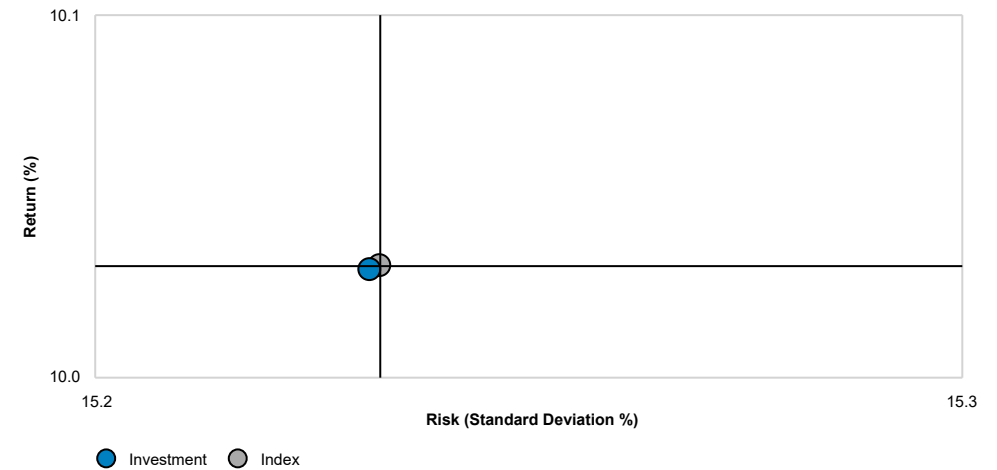
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.03	15.23	0.63	100.00	16	100.00	4
Index	10.03	15.23	0.63	100.00	16	100.00	4

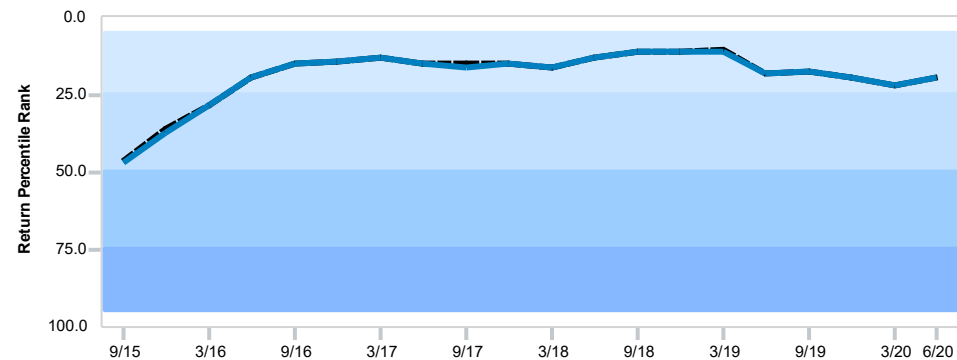
### Risk and Return 3 Years



### Risk and Return 5 Years

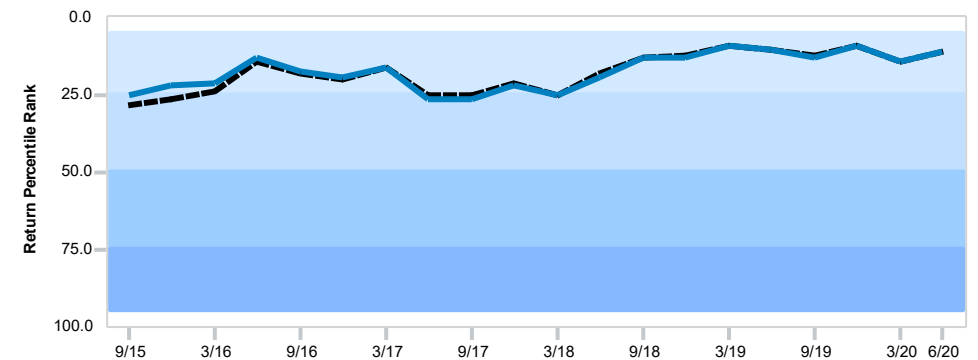


### 3 Year Rolling Percentile Rank IM U.S. Multi-Cap Core Equity (MF)



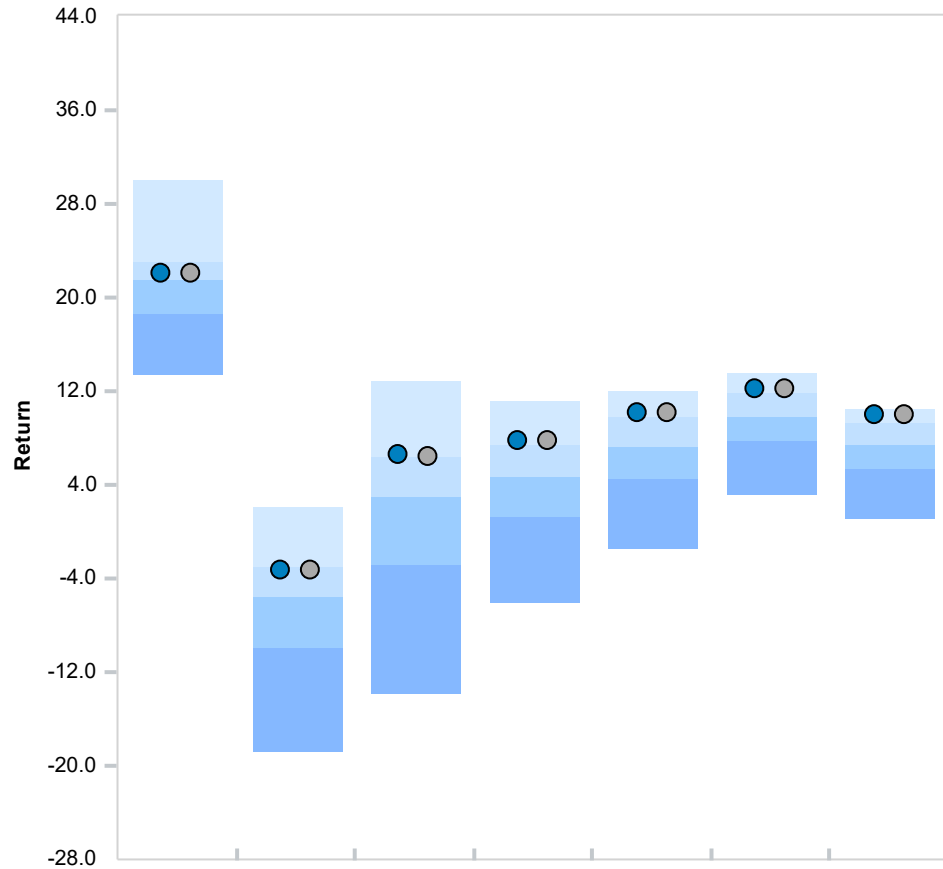
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)
Index	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)

### 5 Year Rolling Percentile Rank IM U.S. Multi-Cap Core Equity (MF)

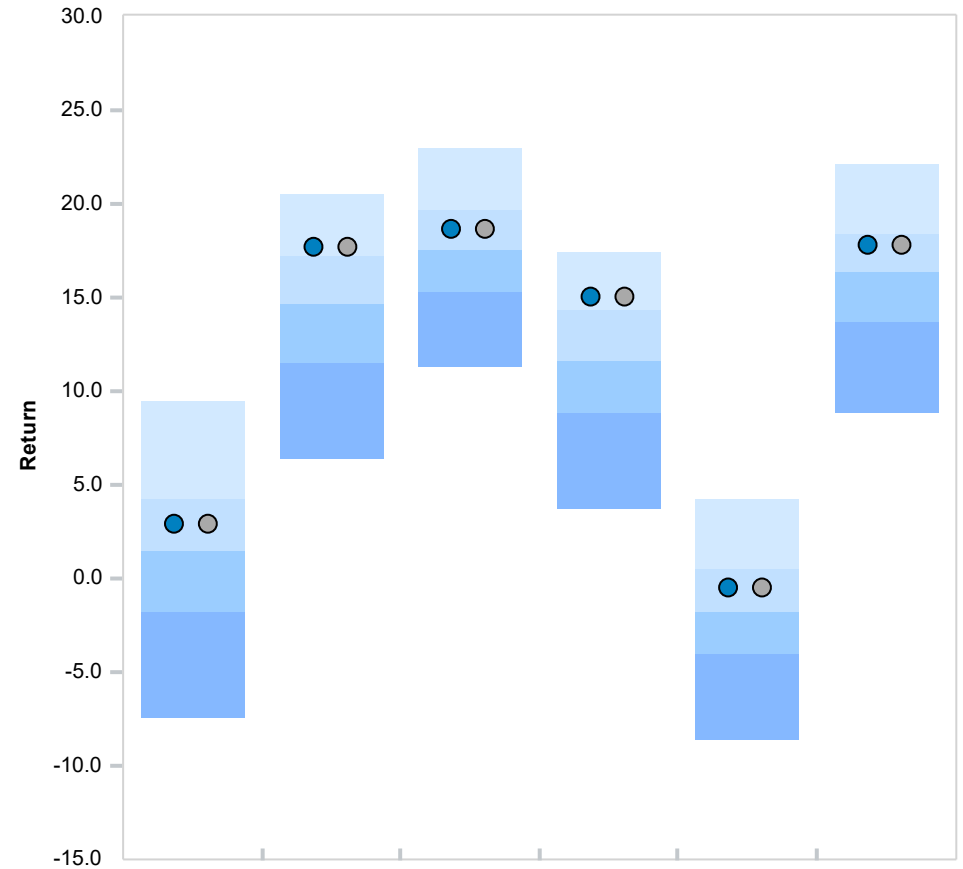


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	18 (90%)	2 (10%)	0 (0%)	0 (0%)
Index	20	18 (90%)	2 (10%)	0 (0%)	0 (0%)

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



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



**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
Investment	-20.86 (38)	9.01 (29)	1.09 (47)	4.09 (41)	14.04 (31)	-14.26 (47)
Index	-20.88 (39)	9.00 (30)	1.11 (45)	4.08 (43)	14.06 (31)	-14.26 (47)
Median	-21.69	8.07	1.00	3.87	13.29	-14.37



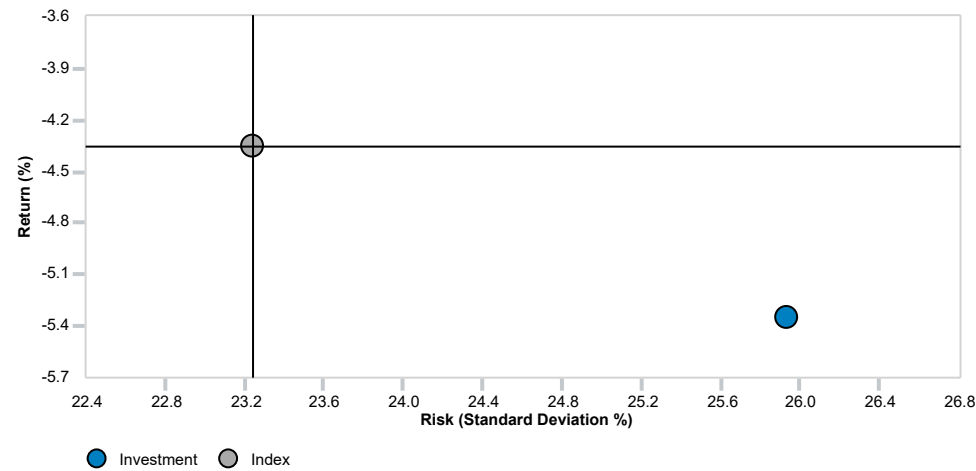
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-5.35	25.93	-0.14	111.88	8	112.34	4
Index	-4.35	23.25	-0.14	100.00	8	100.00	4

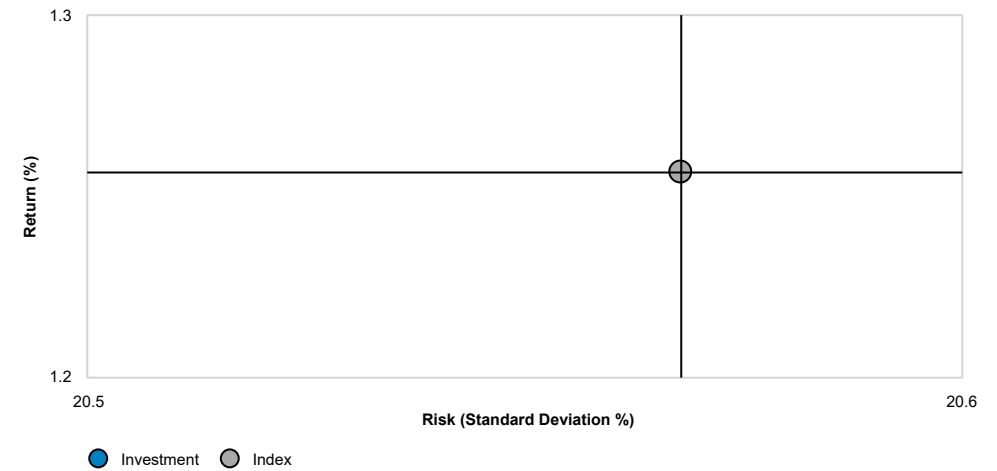
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	1.26	20.57	0.11	100.00	14	100.00	6

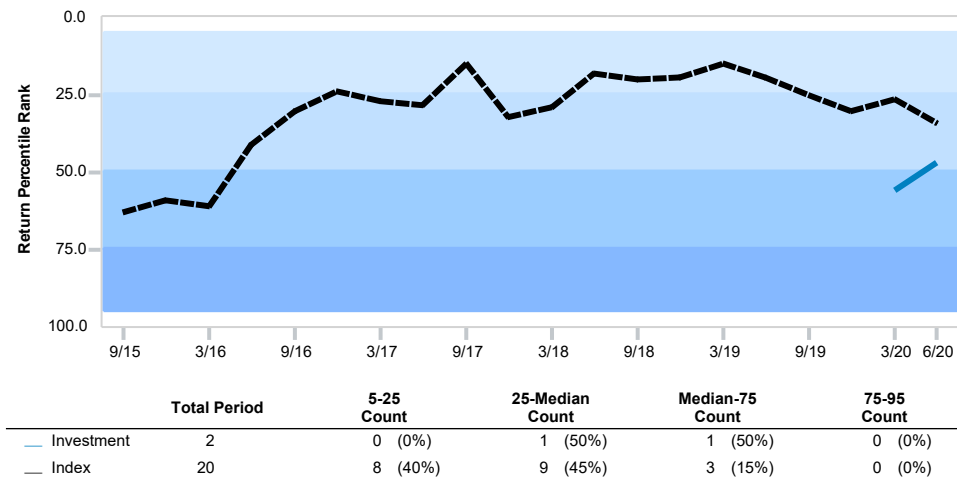
### Risk and Return 3 Years



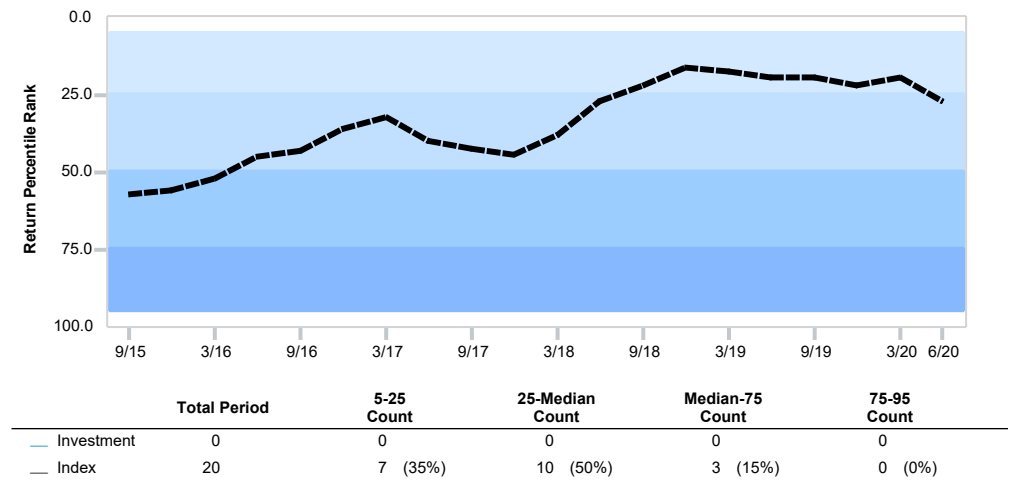
### Risk and Return 5 Years



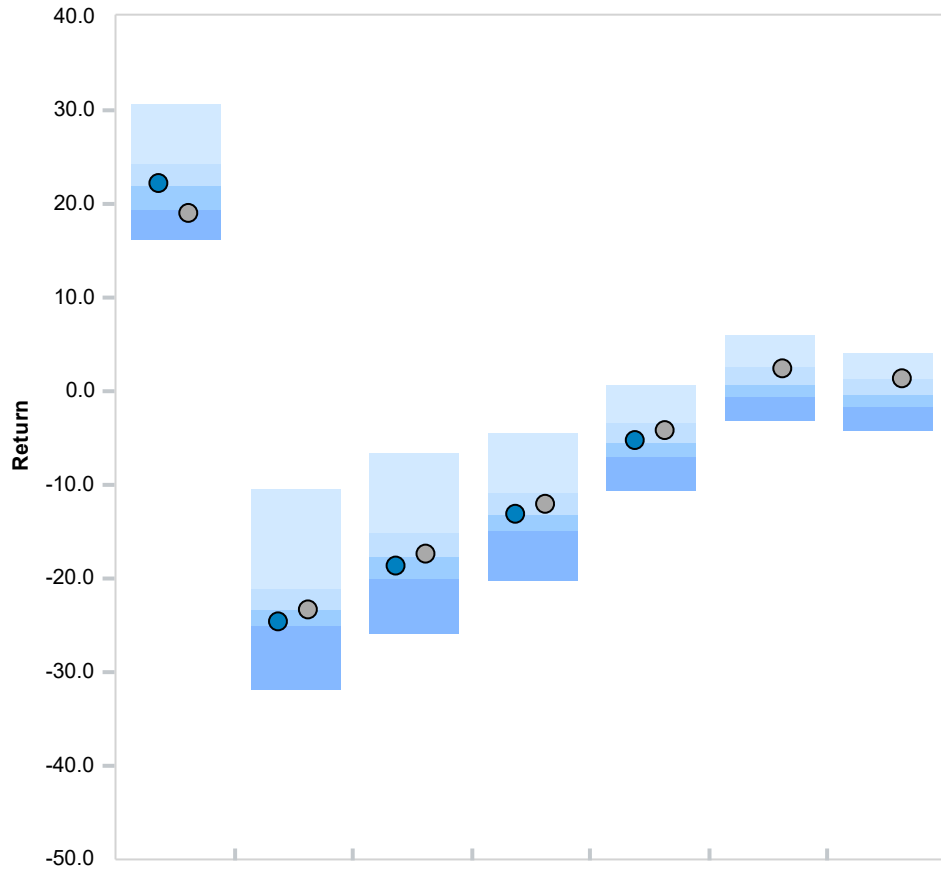
### 3 Year Rolling Percentile Rank IM U.S. Small Cap Value Equity (MF)



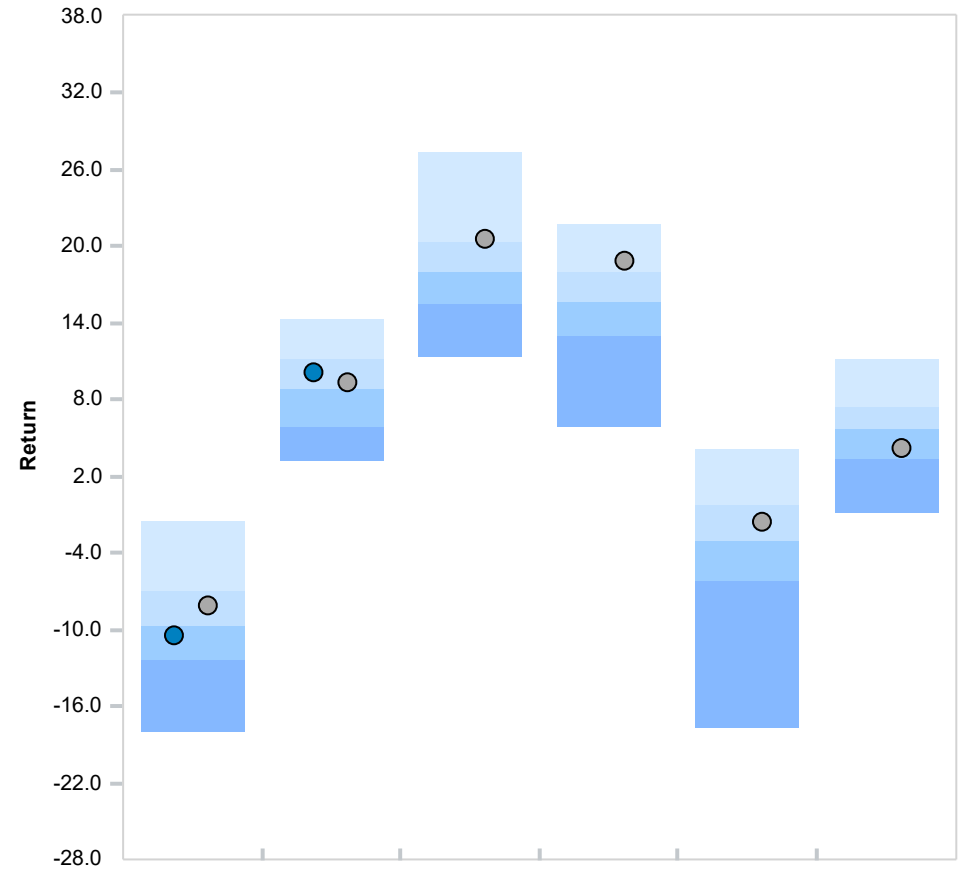
### 5 Year Rolling Percentile Rank IM U.S. Small Cap Value Equity (MF)



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



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



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
Investment	-38.40 (62)	9.33 (18)	-1.09 (63)	1.78 (26)	12.21 (56)	-20.82 (72)
Index	-35.66 (38)	8.49 (38)	-0.57 (50)	1.38 (37)	11.93 (63)	-18.67 (34)
Median	-37.32	8.12	-0.60	0.75	12.39	-19.94

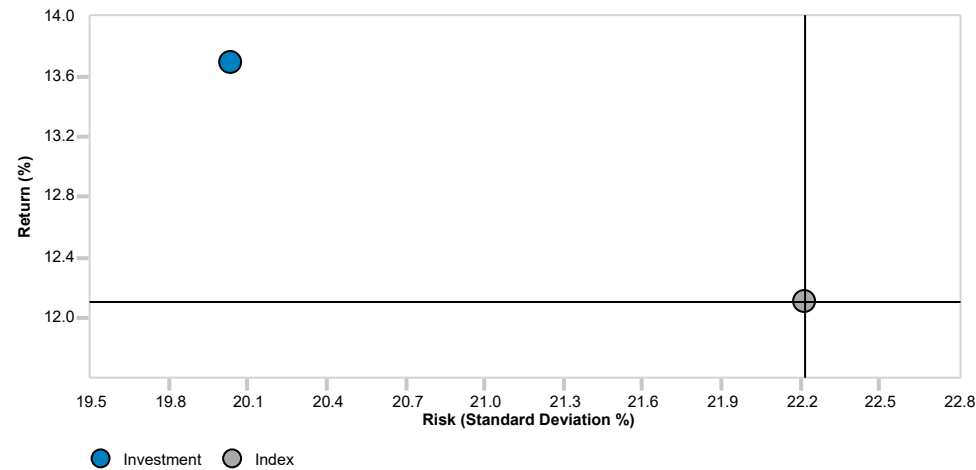
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.69	20.04	0.66	97.86	9	92.04	3
Index	12.10	22.22	0.55	100.00	9	100.00	3

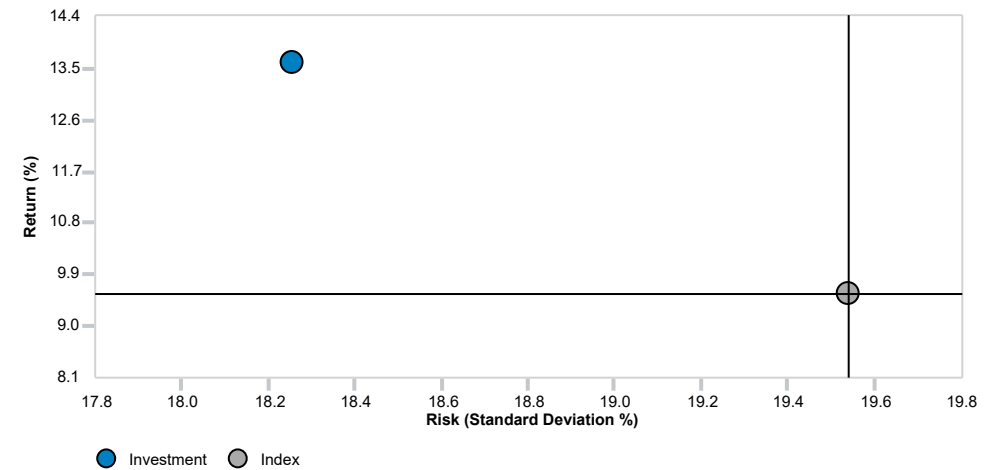
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.61	18.26	0.73	102.56	15	86.36	5
Index	9.57	19.54	0.51	100.00	15	100.00	5

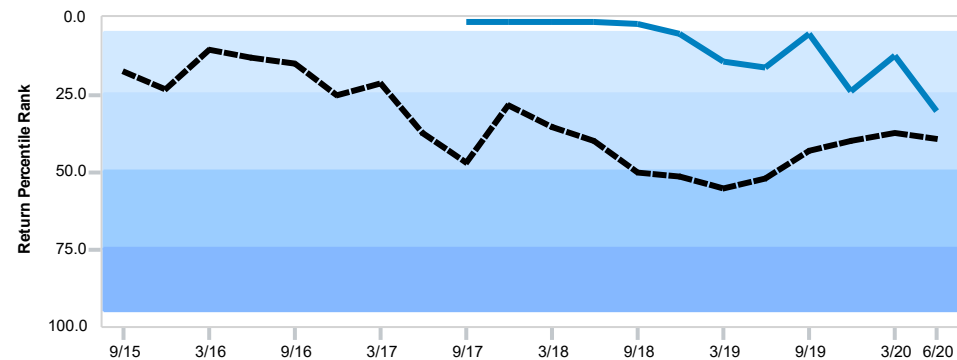
### Risk and Return 3 Years



### Risk and Return 5 Years

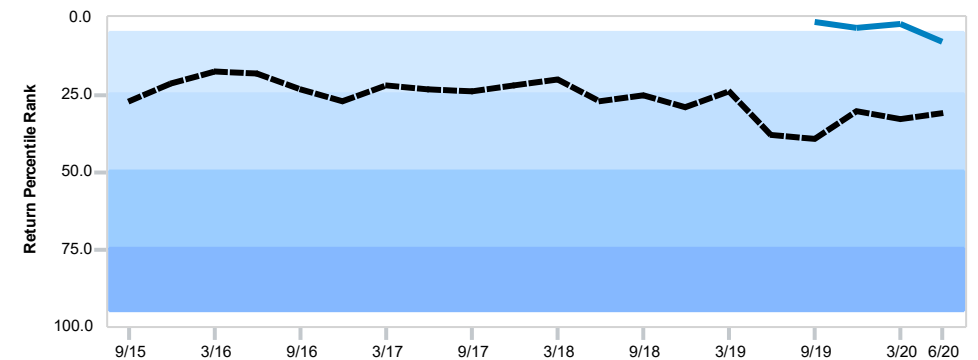


### 3 Year Rolling Percentile Rank IM U.S. Small Cap Growth Equity (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	12	11 (92%)	1 (8%)	0 (0%)	0 (0%)
Index	20	7 (35%)	10 (50%)	3 (15%)	0 (0%)

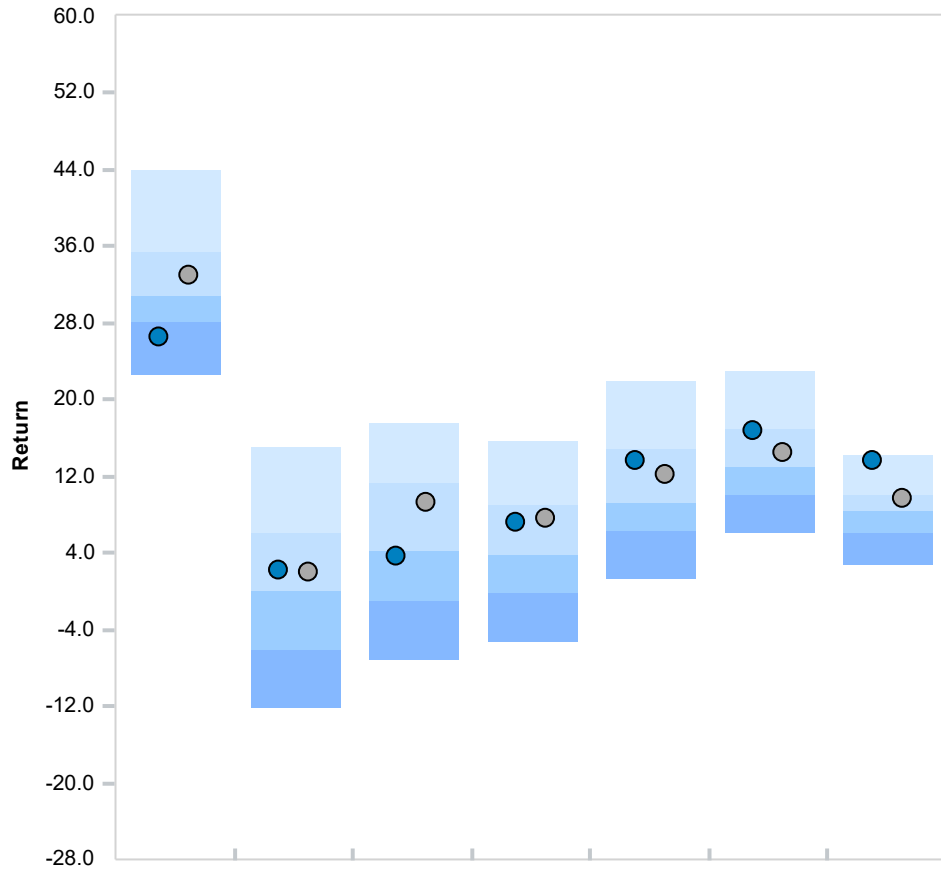
### 5 Year Rolling Percentile Rank IM U.S. Small Cap Growth Equity (MF)



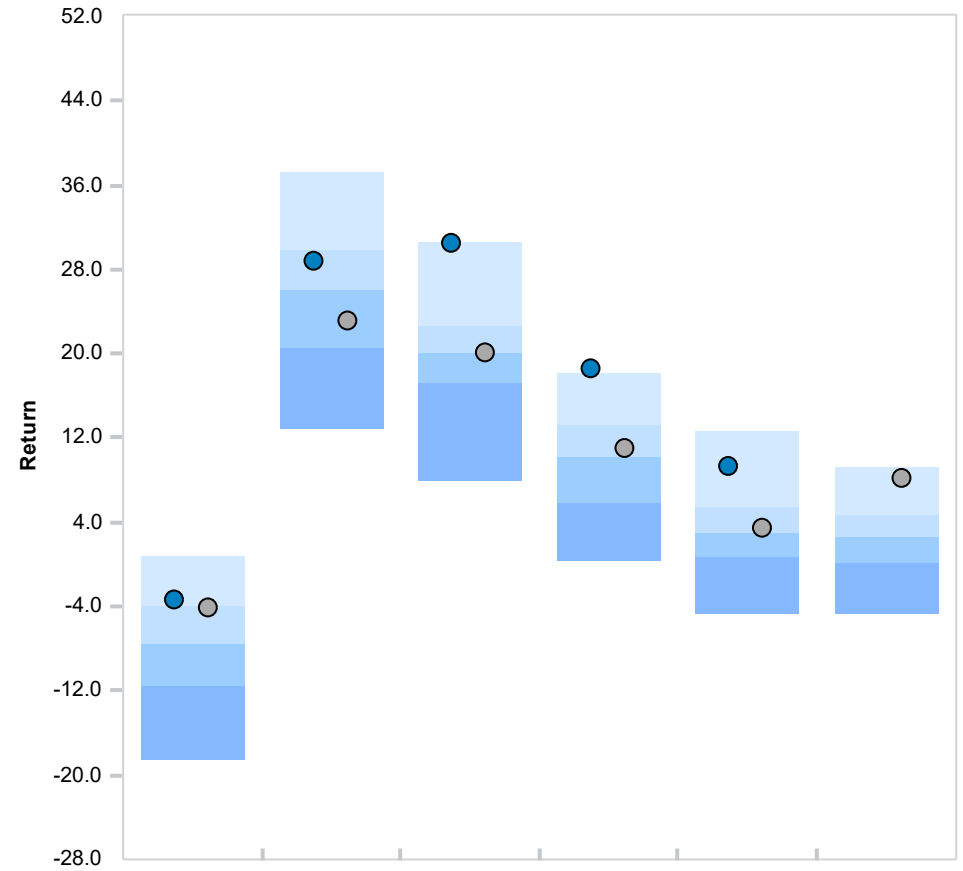
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	4	4 (100%)	0 (0%)	0 (0%)	0 (0%)
Index	20	11 (55%)	9 (45%)	0 (0%)	0 (0%)



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



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



**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
Investment	-19.27 (11)	5.39 (97)	-3.63 (39)	9.39 (3)	12.90 (91)	-18.82 (14)
Index	-23.22 (38)	10.57 (42)	-3.18 (32)	4.14 (45)	18.99 (33)	-20.08 (32)
Median	-24.21	9.90	-4.47	3.74	16.89	-21.01



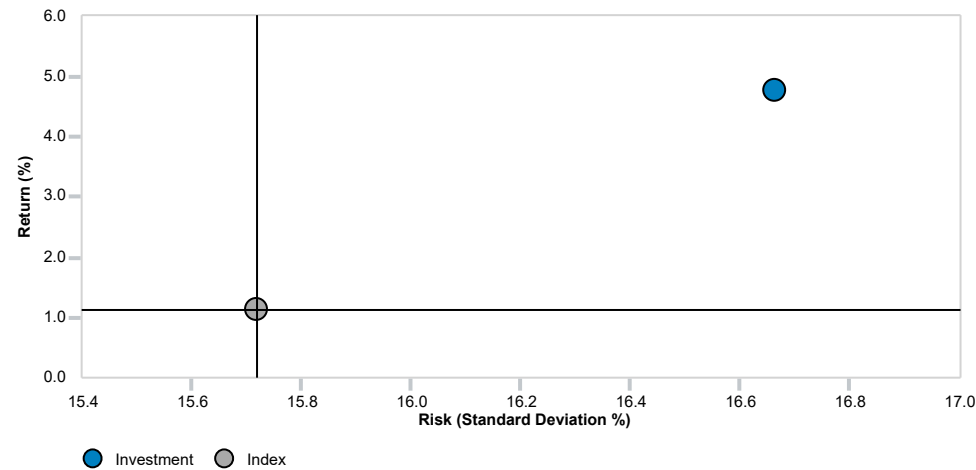
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	4.76	16.66	0.26	112.24	7	95.34	5
Index	1.13	15.72	0.04	100.00	7	100.00	5

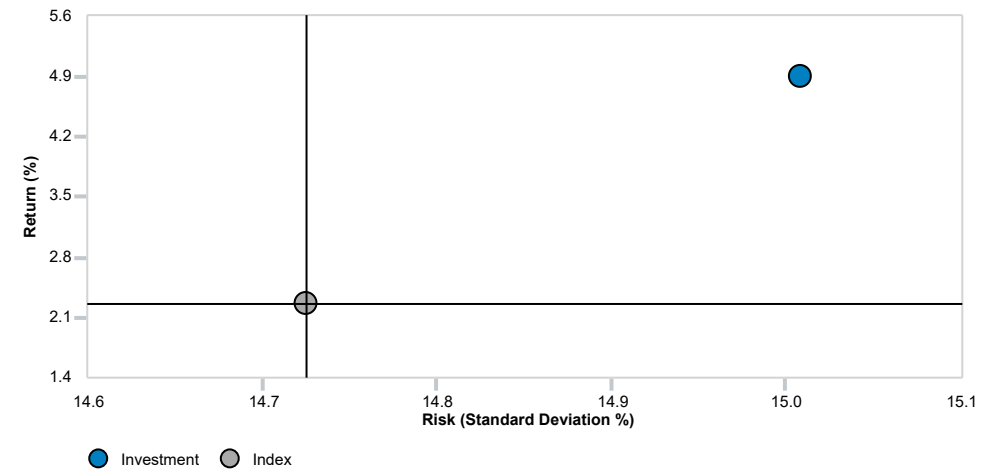
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	4.90	15.01	0.32	106.20	11	93.15	9
Index	2.26	14.73	0.15	100.00	11	100.00	9

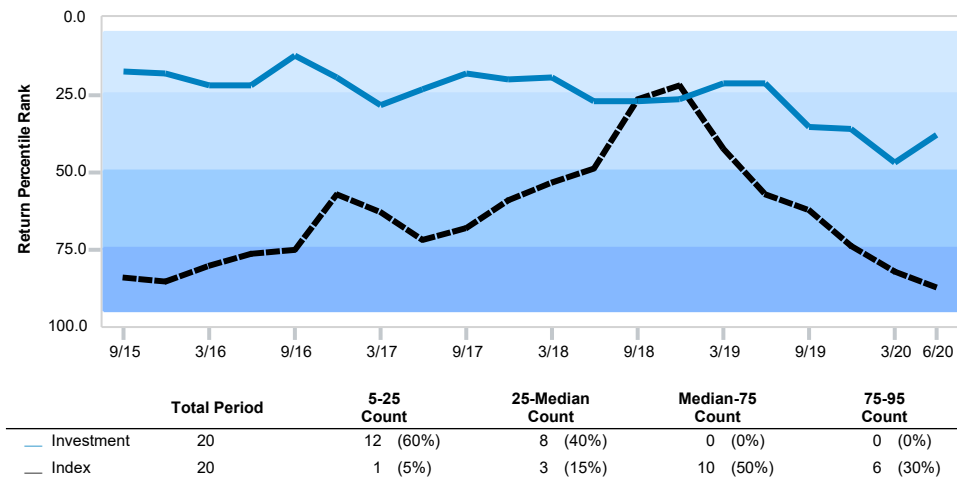
### Risk and Return 3 Years



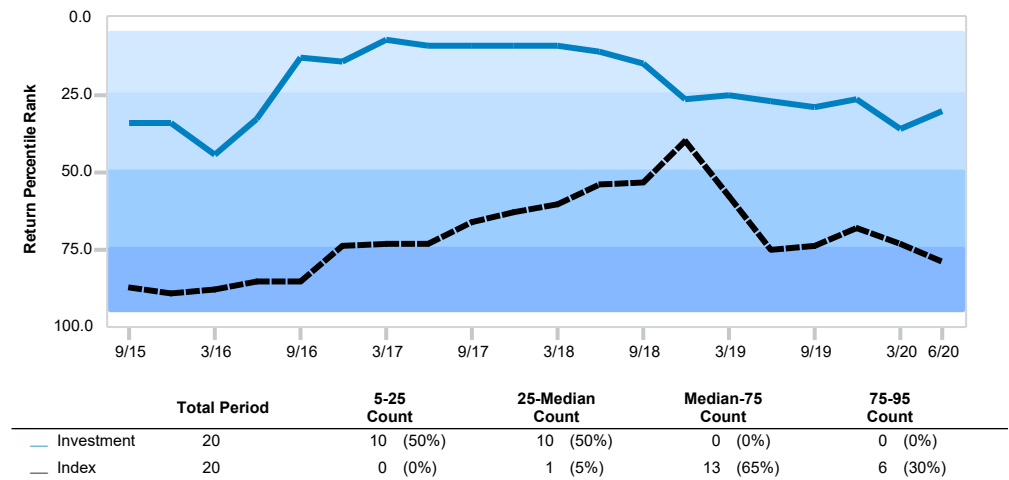
### Risk and Return 5 Years



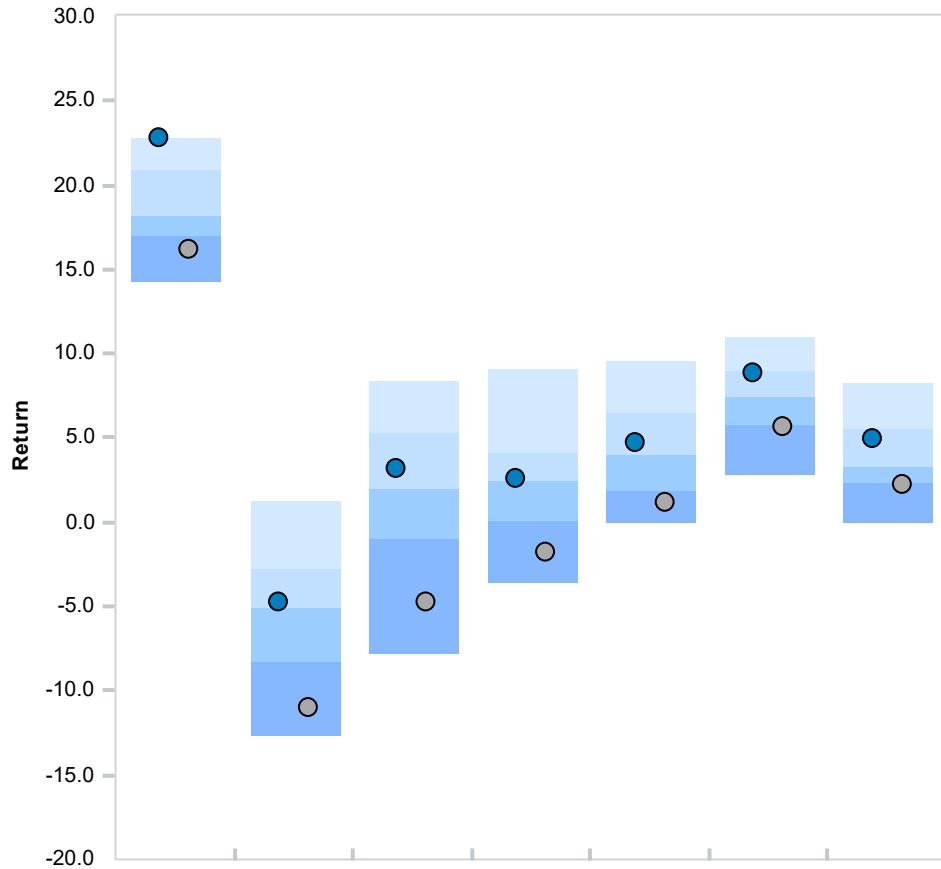
### 3 Year Rolling Percentile Rank IM International Large Cap Growth Equity (MF)



### 5 Year Rolling Percentile Rank IM International Large Cap Growth Equity (MF)



Peer Group Analysis - IM International Large Cap Growth Equity (MF)

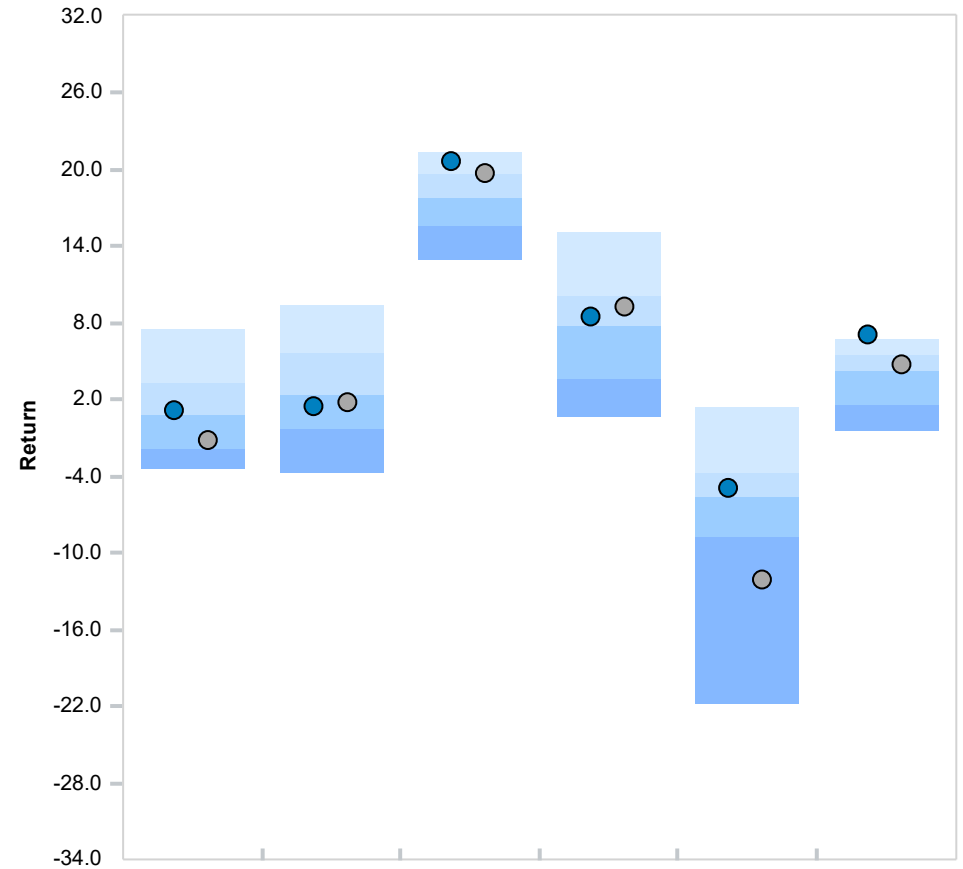


	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	22.77 (6)	-4.77 (41)	3.17 (34)	2.54 (48)	4.76 (38)	8.87 (27)	4.90 (30)
● Index	16.12 (86)	-11.00 (91)	-4.80 (91)	-1.80 (91)	1.13 (87)	5.65 (76)	2.26 (79)
Median	18.13	-5.09	2.00	2.48	3.99	7.47	3.30

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
Investment	-22.43 (78)	10.09 (23)	-1.59 (57)	3.87 (72)	13.20 (25)	-12.59 (42)
Index	-23.36 (89)	8.92 (53)	-1.80 (72)	2.98 (93)	10.31 (95)	-11.46 (25)
Median	-20.57	9.00	-1.46	4.44	12.52	-12.70

Peer Group Analysis - IM International Large Cap Growth Equity (MF)



	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
● Investment	1.14 (44)	1.47 (60)	20.63 (8)	8.52 (38)	-4.93 (34)	6.98 (2)
● Index	-1.23 (68)	1.76 (57)	19.61 (26)	9.26 (33)	-12.16 (89)	4.77 (38)
Median	0.81	2.28	17.85	7.77	-5.68	4.23

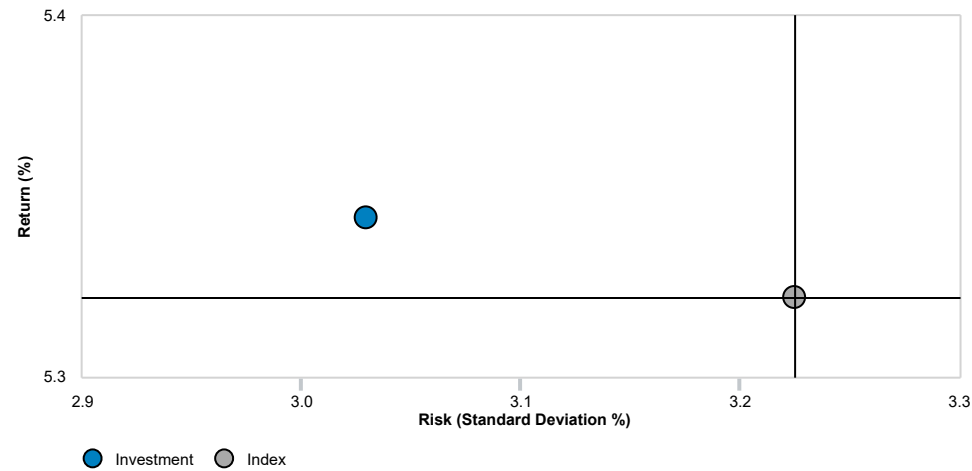
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.34	3.03	1.14	93.29	9	75.82	3
Index	5.32	3.23	1.09	100.00	10	100.00	2

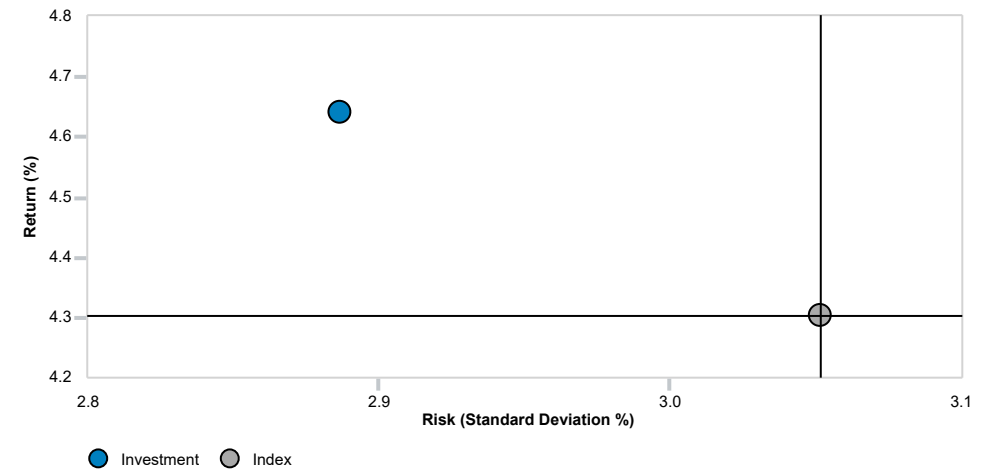
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	4.64	2.89	1.18	96.80	15	75.01	5
Index	4.30	3.05	1.03	100.00	16	100.00	4

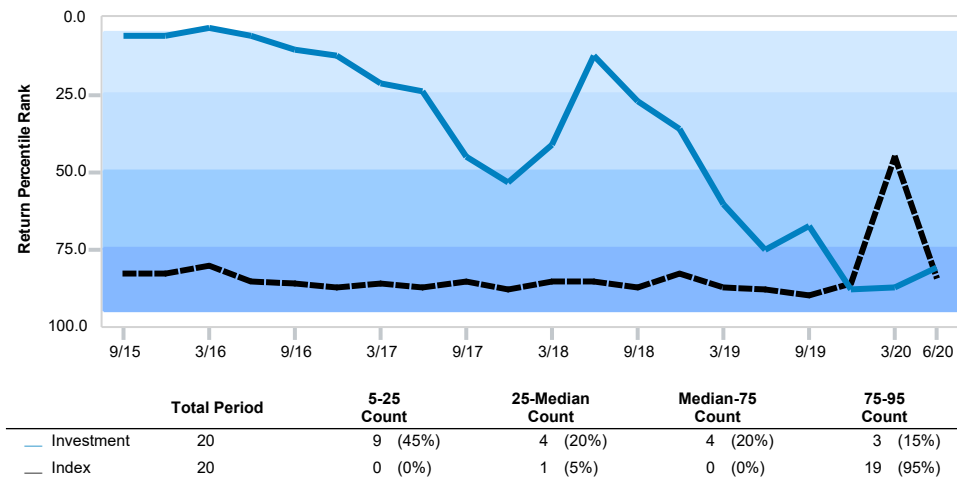
### Risk and Return 3 Years



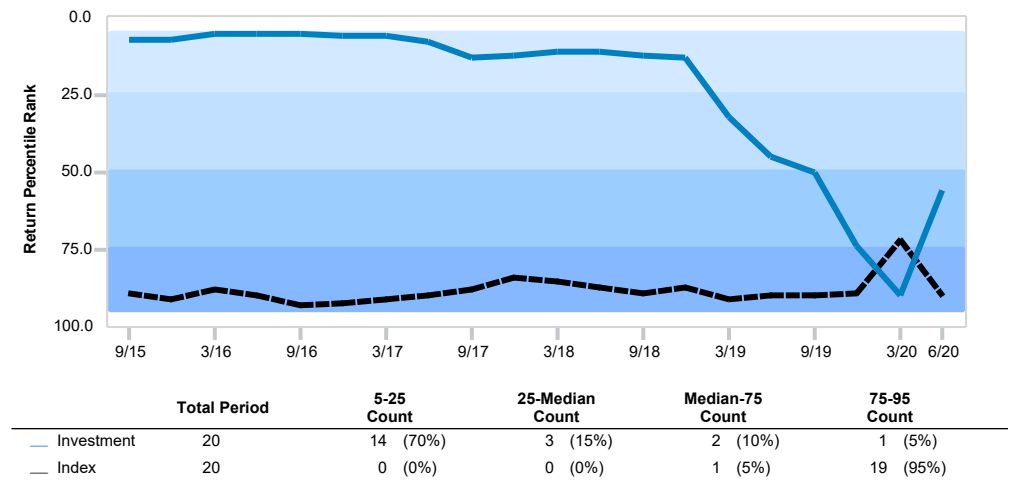
### Risk and Return 5 Years



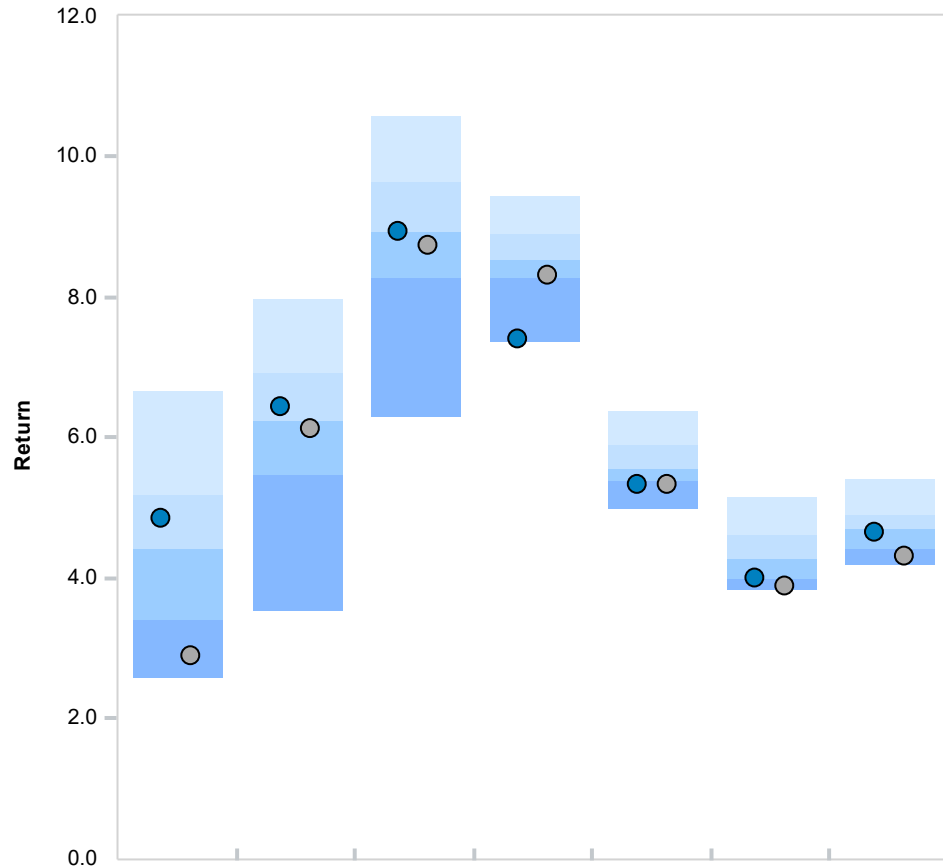
### 3 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (SA+CF)



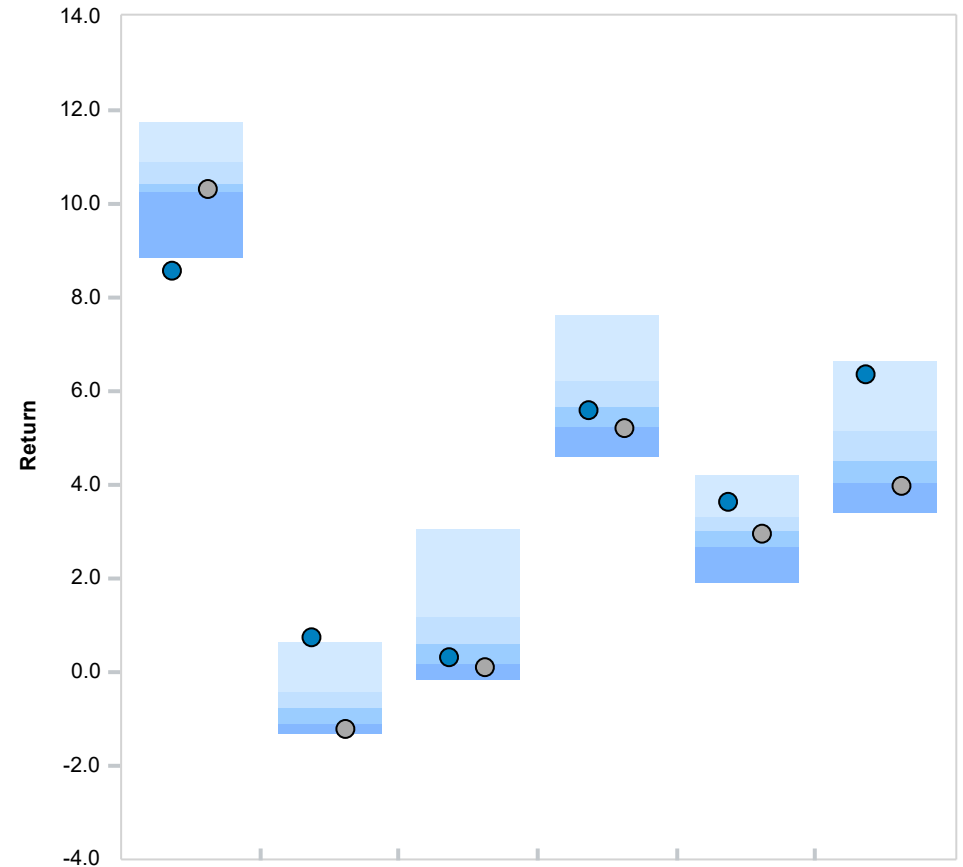
### 5 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (SA+CF)



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



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



**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
Investment	1.53 (59)	-0.05 (89)	2.39 (36)	2.31 (96)	2.43 (96)	1.16 (71)
Index	3.15 (23)	0.18 (58)	2.27 (70)	3.08 (70)	2.94 (82)	1.64 (25)
Median	1.93	0.22	2.33	3.13	3.22	1.40

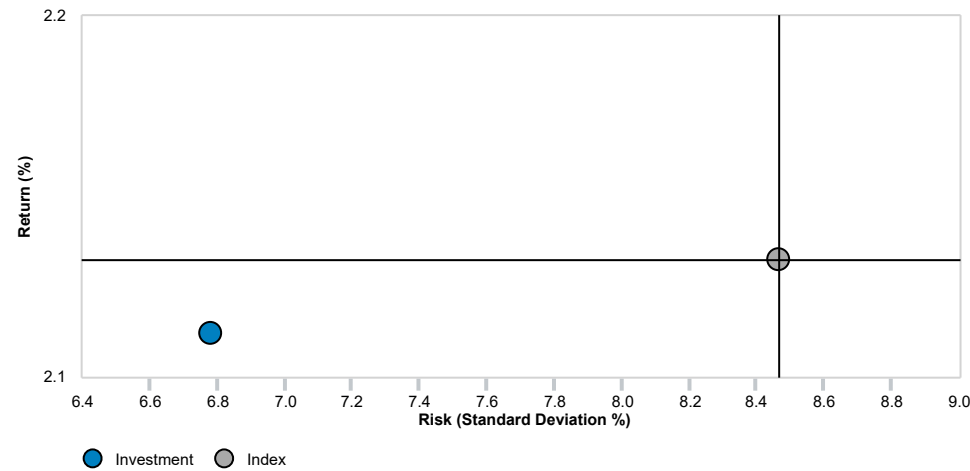
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.11	6.78	0.08	84.90	10	81.36	2
Index	2.13	8.47	0.09	100.00	10	100.00	2

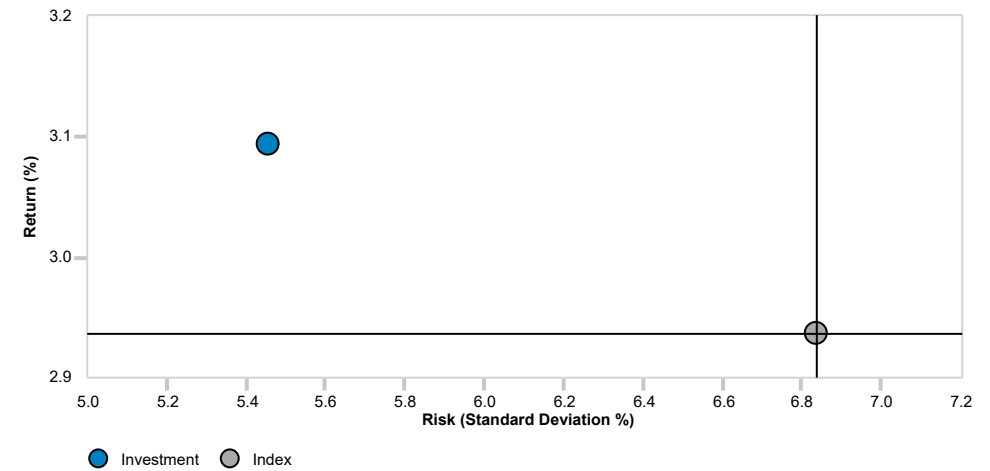
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.09	5.46	0.37	85.25	16	73.74	4
Index	2.94	6.84	0.29	100.00	16	100.00	4

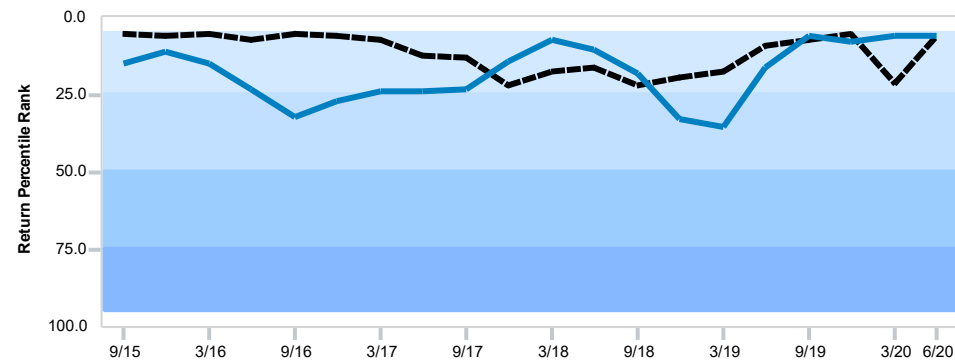
### Risk and Return 3 Years



### Risk and Return 5 Years

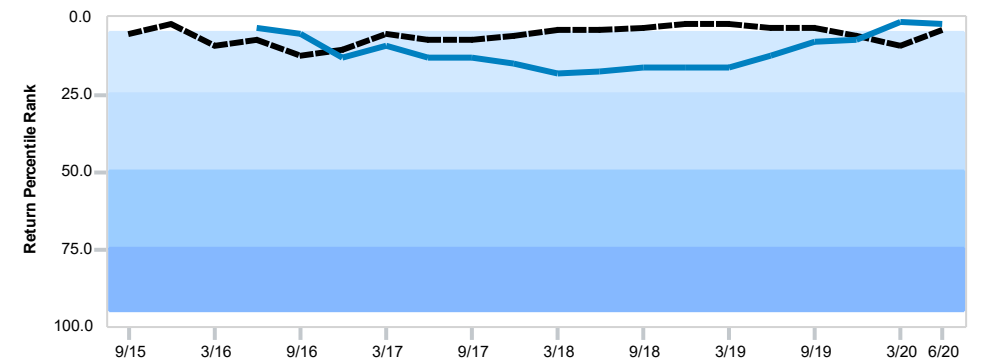


### 3 Year Rolling Percentile Rank IM U.S. Bank Loans (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	16 (80%)	4 (20%)	0 (0%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)

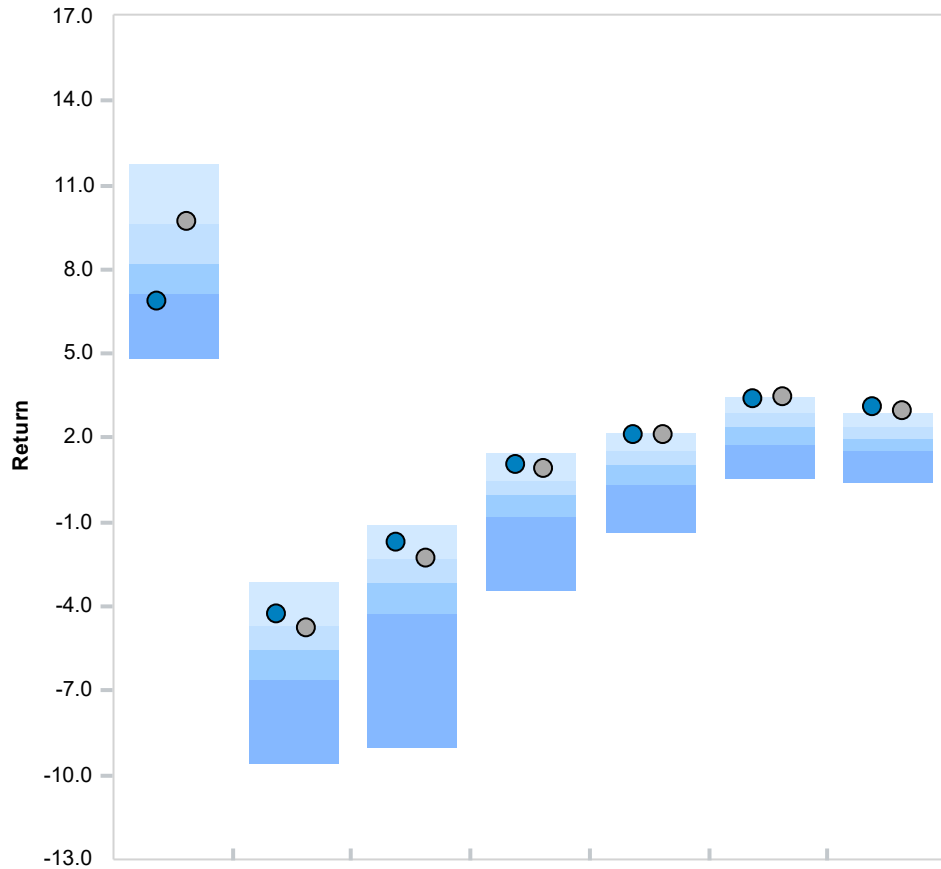
### 5 Year Rolling Percentile Rank IM U.S. Bank Loans (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	17	17 (100%)	0 (0%)	0 (0%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)



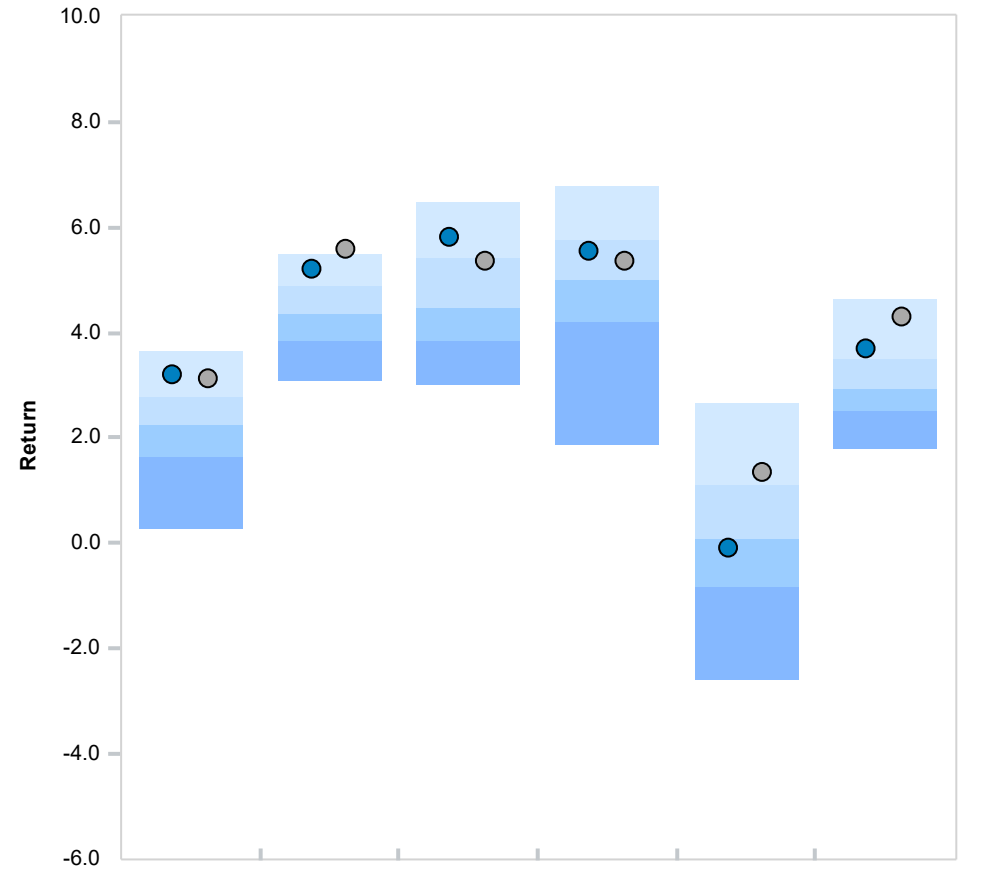
**Peer Group Analysis - IM U.S. Bank Loans (MF)**



**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
Investment	-10.39 (10)	1.38 (65)	1.26 (11)	1.64 (20)	3.79 (49)	-3.38 (34)
Index	-13.18 (54)	1.67 (29)	0.92 (41)	1.58 (25)	3.78 (51)	-3.08 (23)
Median	-13.10	1.51	0.81	1.34	3.78	-3.64

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



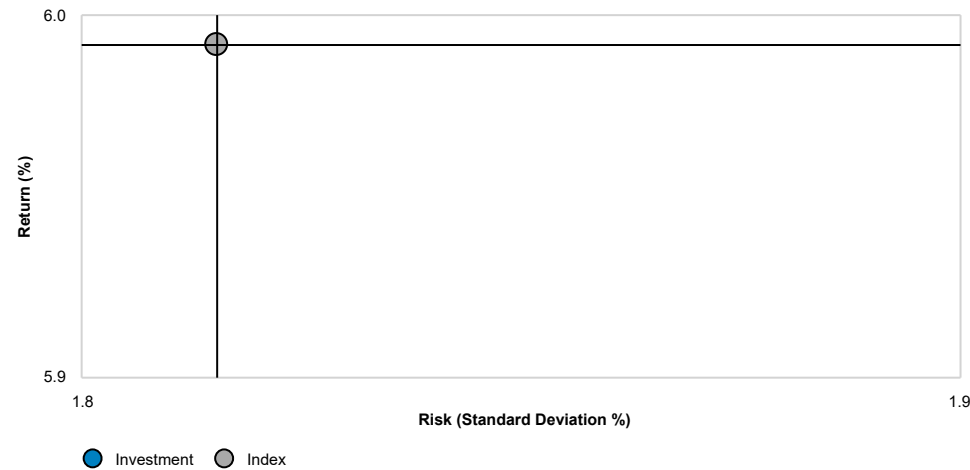
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	5.99	1.82	2.45	100.00	11	100.00	1

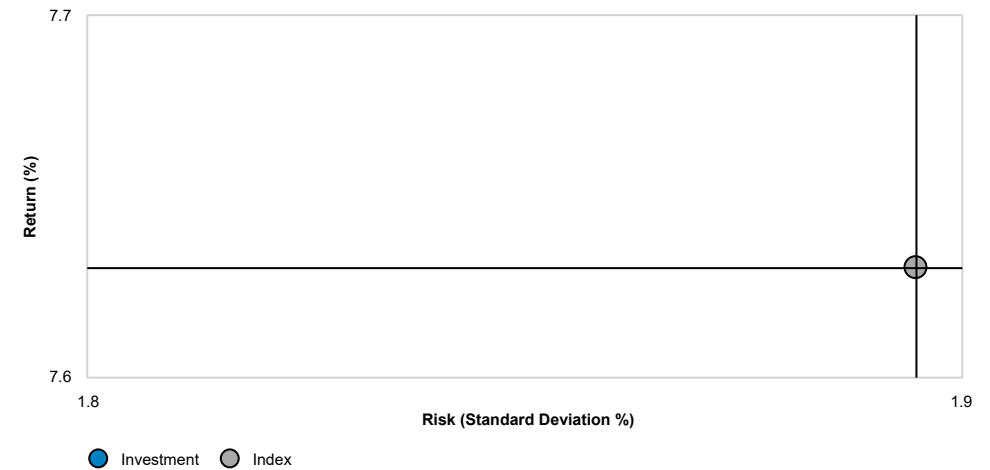
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	7.63	1.90	3.05	100.00	19	100.00	1

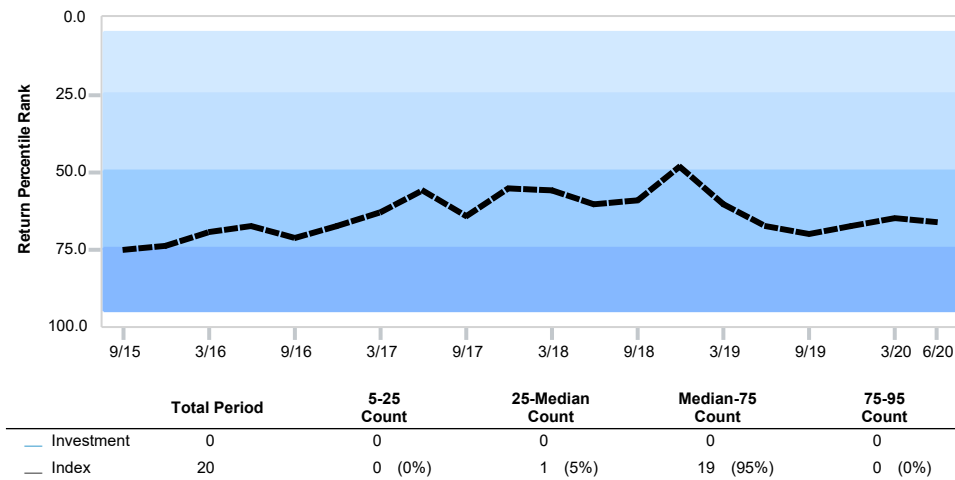
### Risk and Return 3 Years



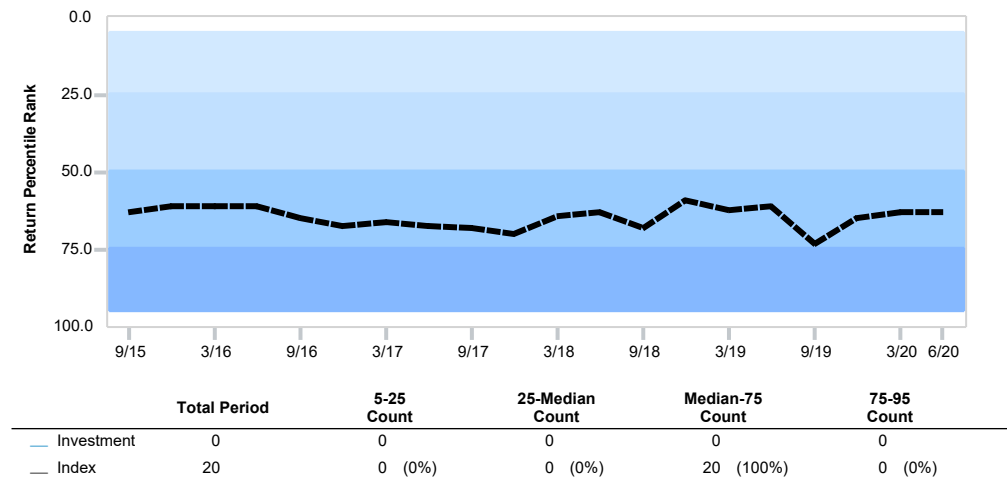
### Risk and Return 5 Years



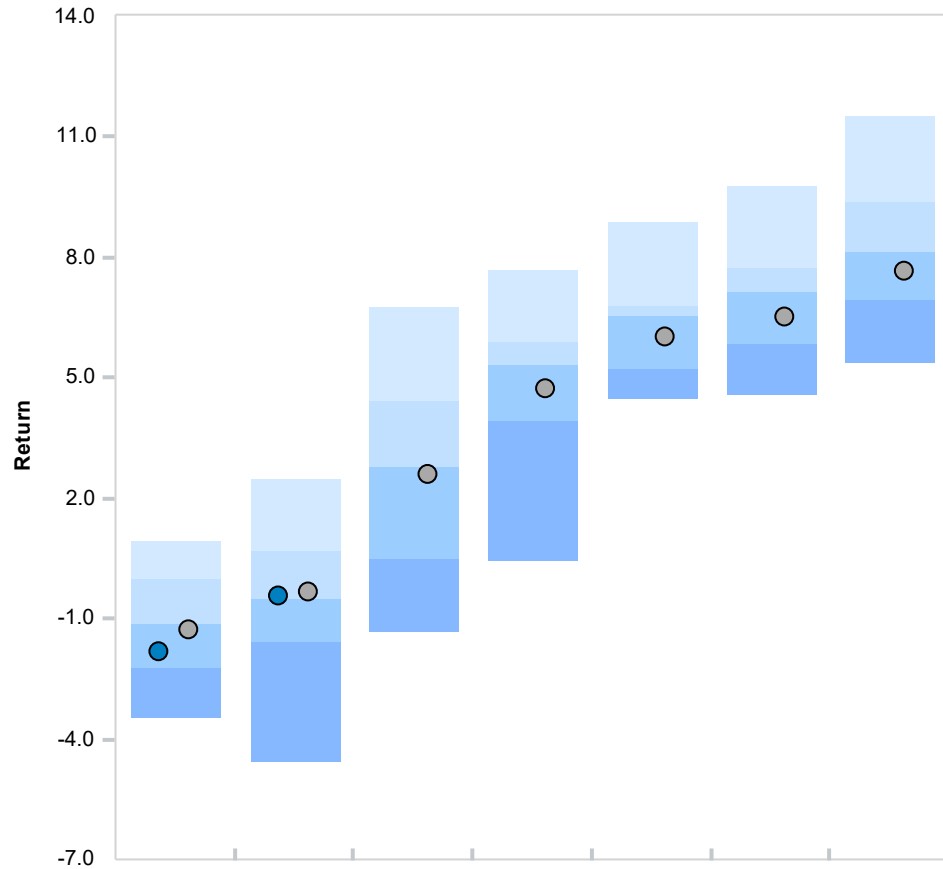
### 3 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)



### 5 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)



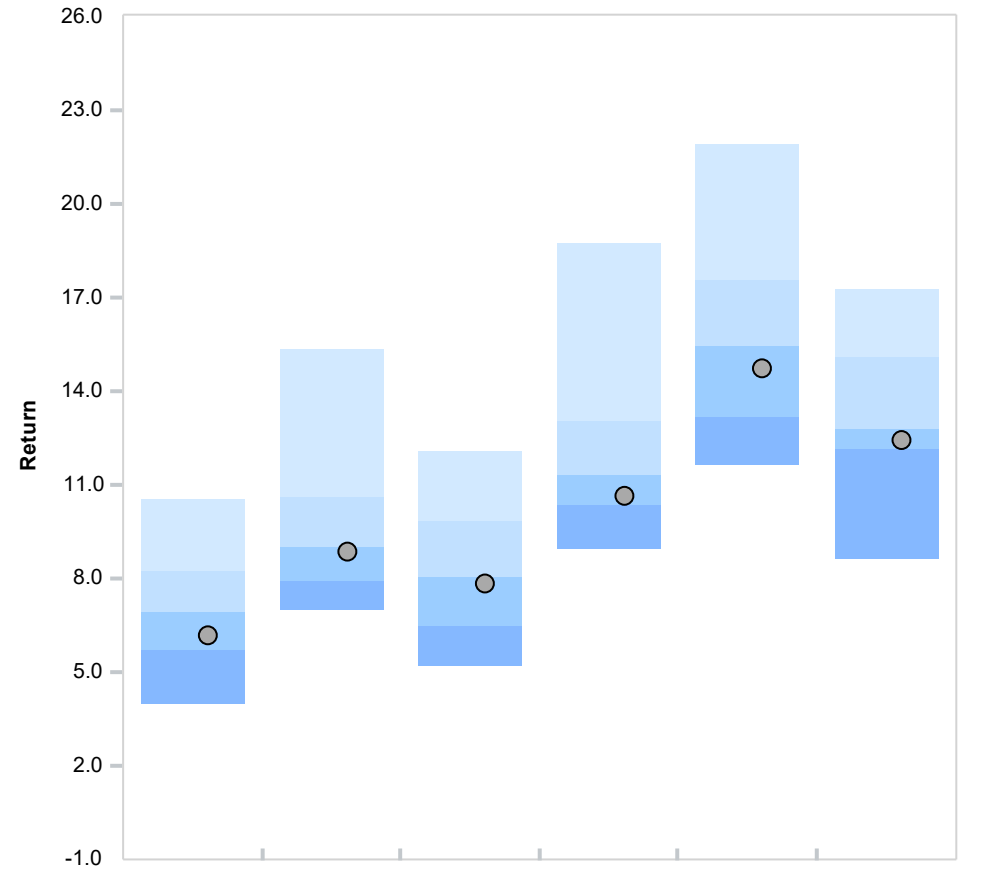
**Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF)**



**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
Investment	1.39 (47)	1.99 (35)	N/A	N/A	N/A	N/A
Index	0.92 (67)	1.53 (58)	1.39 (75)	1.34 (61)	1.69 (76)	1.62 (58)
Median	1.31	1.61	1.75	1.44	1.99	1.73

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



**The Woodlands Firefighters' Retirement System**  
**Comparative Performance Trailing Performance Composite Returns**  
As of June 30, 2020

Comparative Performance								
	QTR	YTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
<b>Domestic Equity</b>								
<b>Vanguard Total Stock Index (VITSX)</b>	<b>22.10</b>	<b>-3.38</b>	<b>6.47</b>	<b>7.73</b>	<b>10.04</b>	<b>10.03</b>	<b>7.55</b>	<b>08/01/1997</b>
CRSP U.S. Total Market TR Index	22.09	-3.40	6.47	7.72	10.04	10.03	N/A	
<b>American Beacon SC Value R6 (AASRX)</b>	<b>22.16</b>	<b>-24.75</b>	<b>-18.63</b>	<b>-13.30</b>	<b>-5.35</b>	<b>N/A</b>	<b>-5.08</b>	<b>03/01/2017</b>
Russell 2000 Value Index	18.91	-23.50	-17.48	-12.04	-4.35	1.26	-3.97	
<b>Conestoga Small Cap I (CCALX)</b>	<b>26.46</b>	<b>2.09</b>	<b>3.68</b>	<b>7.15</b>	<b>13.69</b>	<b>13.61</b>	<b>13.82</b>	<b>09/01/2014</b>
Russell 2000 Growth Index	30.58	-3.06	3.48	1.47	7.86	6.86	8.13	
<b>International Developed Equity</b>								
<b>EuroPacific Growth R6 (RERGX)</b>	<b>22.77</b>	<b>-4.77</b>	<b>3.17</b>	<b>2.54</b>	<b>4.76</b>	<b>4.90</b>	<b>7.47</b>	<b>06/01/2009</b>
MSCI AC World ex USA (Net)	16.12	-11.00	-4.80	-1.80	1.13	2.26	5.31	
<b>Core Fixed Income</b>								
<b>Garcia Hamilton (Gross of Fees)</b>	<b>4.85</b>	<b>6.45</b>	<b>8.94</b>	<b>7.41</b>	<b>5.34</b>	<b>4.64</b>	<b>6.31</b>	<b>01/01/1992</b>
Blmbg. Barc. U.S. Aggregate Index	2.90	6.14	8.74	8.30	5.32	4.30	5.58	
<b>Bank Loans</b>								
<b>Pacific Funds Floating Rate (PLFRX)</b>	<b>6.84</b>	<b>-4.25</b>	<b>-1.70</b>	<b>1.03</b>	<b>2.11</b>	<b>3.09</b>	<b>3.90</b>	<b>07/01/2011</b>
Credit Suisse Leveraged Loan Index	9.71	-4.75	-2.27	0.89	2.13	2.94	3.77	
<b>Real Estate</b>								
<b>Clarion Lion Properties Fund</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>04/01/2000</b>
NCREIF Fund Index-Open End Diversified Core (EW)	-1.27	-0.37	2.56	4.71	5.99	7.63	7.71	

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



**The Woodlands Firefighters' Retirement System**  
**Comparative Performance Calendar Year Composite Returns**  
As of June 30, 2020

Comparative Performance	2019	2018	2017	2016	2015	2014	2013
<b>Domestic Equity</b>							
<b>Vanguard Total Stock Index (VITSX)</b>	<b>30.81</b>	<b>-5.16</b>	<b>21.17</b>	<b>12.67</b>	<b>0.42</b>	<b>12.56</b>	<b>33.49</b>
CRSP U.S. Total Market TR Index	30.84	-5.17	21.19	12.68	0.40	12.58	33.64
<b>American Beacon SC Value R6 (AASRX)</b>	<b>23.50</b>	<b>-15.59</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Russell 2000 Value Index	22.39	-12.86	7.84	31.74	-7.47	4.22	34.52
<b>Conestoga Small Cap I (CCALX)</b>	<b>25.42</b>	<b>0.81</b>	<b>28.74</b>	<b>14.30</b>	<b>8.26</b>	<b>N/A</b>	<b>N/A</b>
Russell 2000 Growth Index	28.48	-9.31	22.17	11.32	-1.38	5.60	43.30
<b>International Developed Equity</b>							
<b>EuroPacific Growth R6 (RERGX)</b>	<b>27.40</b>	<b>-14.91</b>	<b>31.17</b>	<b>1.01</b>	<b>-0.48</b>	<b>-2.29</b>	<b>20.58</b>
MSCI AC World ex USA (Net)	21.51	-14.20	27.19	4.50	-5.66	-3.87	15.29
<b>Core Fixed Income</b>							
<b>Garcia Hamilton (Gross of Fees)</b>	<b>7.25</b>	<b>0.97</b>	<b>3.81</b>	<b>3.17</b>	<b>0.84</b>	<b>8.01</b>	<b>0.08</b>
Blmbg. Barc. U.S. Aggregate Index	8.72	0.01	3.54	2.65	0.55	5.97	-2.02
<b>Bank Loans</b>							
<b>Pacific Funds Floating Rate (PLFRX)</b>	<b>8.30</b>	<b>0.41</b>	<b>4.33</b>	<b>8.91</b>	<b>0.75</b>	<b>0.31</b>	<b>6.22</b>
Credit Suisse Leveraged Loan Index	8.16	1.14	4.25	9.87	-0.41	2.18	6.16
<b>Real Estate</b>							
<b>Clarion Lion Properties Fund</b>	<b>7.26</b>	<b>9.66</b>	<b>8.99</b>	<b>9.09</b>	<b>15.71</b>	<b>13.17</b>	<b>12.77</b>
NCREIF Fund Index-Open End Diversified Core (EW)	6.08	8.25	7.80	9.27	15.17	12.28	13.34

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



**Woodlands Fire Retirement System**  
**Fee Analysis**  
As of June 30, 2020

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Vanguard Total Stock Index (VITSX)	0.03	19,114,195	5,734	0.03 % of Assets
American Beacon SC Value R6 (AASRX)	0.78	1,922,398	14,995	0.78 % of Assets
Conestoga Small Cap I (CCALX)	0.90	2,063,838	18,575	0.90 % of Assets
<b>Total Domestic Equity</b>	<b>0.17</b>	<b>23,100,432</b>	<b>39,304</b>	
EuroPacific Growth R6 (RERGX)	0.49	6,273,136	30,738	0.49 % of Assets
<b>Total International Equity</b>	<b>0.49</b>	<b>6,273,136</b>	<b>30,738</b>	
Garcia Hamilton	0.25	9,071,125	22,678	0.25 % of First \$25 M 0.20 % of Next \$25 M 0.18 % of Next \$50 M 0.15 % of Next \$100 M 0.12 % Thereafter
Pacific Funds Floating Rate (PLFRX)	0.72	993,236	7,151	0.72 % of Assets
<b>Total Fixed Income</b>	<b>0.30</b>	<b>10,064,361</b>	<b>29,829</b>	
Clarion (Core Real Estate)	1.25	3,021,868	37,773	1.25 % of Assets
<b>Total Real Estate</b>	<b>1.25</b>	<b>3,021,868</b>	<b>37,773</b>	
Frost Bank Cash Account		18,864	-	
Mutual Fund Cash		278,144	-	
<b>Total Cash</b>		<b>297,008</b>	<b>-</b>	
<b>Total Fund</b>	<b>0.32</b>	<b>42,756,804</b>	<b>137,644</b>	

Total Fund Compliance:																	Yes	No	N/A																	
1. The Total Plan return equaled or exceeded the 7% actuarial earnings assumption over the trailing three year period.																		✓																		
2. The Total Plan return equaled or exceeded the 7% actuarial earnings assumption over the trailing five year period.																		✓																		
3. The Total Plan return equaled or exceeded the 7% actuarial earnings assumption over the trailing ten year period.																			✓																	
4. The Total Plan return equaled or exceeded the total plan benchmark over the trailing three year period.																		✓																		
5. The Total Plan return equaled or exceeded the total plan benchmark over the trailing five year period.																		✓																		
6. The Total Plan return equaled or exceeded the total plan benchmark over the trailing ten year period.																			✓																	
7. The Total Plan return ranked within the top 50th percentile of its peer group over the trailing three year period.																		✓																		
8. The Total Plan return ranked within the top 50th percentile of its peer group over the trailing five year period.																		✓																		
9. The Total Plan return ranked within the top 50th percentile of its peer group over the trailing ten year period.																			✓																	
Equity Compliance:																	Yes	No	N/A																	
1. All investments are U.S. dollar denominated except for certain equities and sovereign foreign bonds as delineated in Permitted Asset Classes.																	✓																			
2. Less than or equal to 5% of the voting securities of any corporation are owned.																	✓																			
3. Securities have not been purchased on margin or leverage excluding alternative investments.																	✓																			
4. Short sale transactions have not been executed except by approved alternative investment managers.																	✓																			
5. Transactions in financial futures have not been executed unless used to equitize cash, reduce risk, or by approved alternative investment managers.																	✓																			
6. Less than or equal to 30% of the aggregated equity portfolio is invested in any one sector of the MSCI World at market.																	✓																			
7. Less than or equal to 5% of the aggregated equity portfolio is invested in securities of any one company at market.																	✓																			
8. Privately held securities are not included in the Plan except by approved alternative investment managers.																	✓																			
9. Options have not been traded except for covered calls or put hedges on a one to one ratio.																	✓																			
Fixed Income Compliance:																	Yes	No	N/A																	
1. All investments are U.S. dollar denominated except for certain equities and sovereign foreign bonds as delineated in Permitted Asset Classes.																	✓																			
2. Commercial paper rated P1 by Moody's or A1 or A2 by Standard & Poor's.																			✓																	
3. Privately held securities are not included in the Plan except by approved alternative investment managers.																	✓																			
Manager Compliance*:																	Vang. Total Stk**			Am. Beacon			Conestoga			EuroPacific			Garcia Hamilton			Pacific Funds				
																	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A		
1. Manager outperformed the index over the trailing three year period.																			✓			✓			✓			✓			✓			✓		
2. Manager outperformed the index over the trailing five year period.																			✓			✓			✓			✓			✓			✓		
3. Manager ranked above the 50th percentile over the trailing three year period.																			✓			✓			✓			✓			✓			✓		
4. Manager ranked above the 50th percentile over the trailing five year period.																			✓			✓			✓			✓			✓			✓		
5. Less than four consecutive quarters of under performance relative to the benchmark.																			✓			✓			✓			✓			✓			✓		
6. Three year volatility less than the index, as measured by standard deviation.																			✓			✓			✓			✓			✓			✓		
7. Five year volatility less than the index, as measured by standard deviation.																			✓			✓			✓			✓			✓			✓		

\*Historical manager data was used to complete this portion of the questionnaire being that funds have performance history of less than 3 years.

\*\* Index Fund



## Historical Hybrid Composition

Allocation Mandate	Weight (%)
<b>Jan-1973</b>	
MSCI World (net)	60.00
Bloomberg Barclays Intermediate US Govt/Credit Idx	40.00
<b>Jun-2019</b>	
Russell 3000 Index	62.50
MSCI AC World ex USA (Net)	15.00
Blmbg. Barc. U.S. Aggregate Index	22.50
NCREIF Fund Index-Open End Diversified Core (EW)	0.00
<b>Oct-2019</b>	
Russell 3000 Index	55.00
MSCI AC World ex USA (Net)	15.00
Blmbg. Barc. U.S. Aggregate Index	22.50
NCREIF Fund Index-Open End Diversified Core (EW)	7.50



- Historical data through April 2019 was provided by South Texas Money Management.
- Assets were transferred to Frost Bank as the new custodian in the months of May, June and July 2019.
- Performance and cash flow data as of May 2019 is calculated by AndCo using custodial statements from Pershing and Frost Bank.

<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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AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

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