

Investment Performance Review  
Period Ending September 30, 2020

# The Woodlands Firefighters' Retirement System

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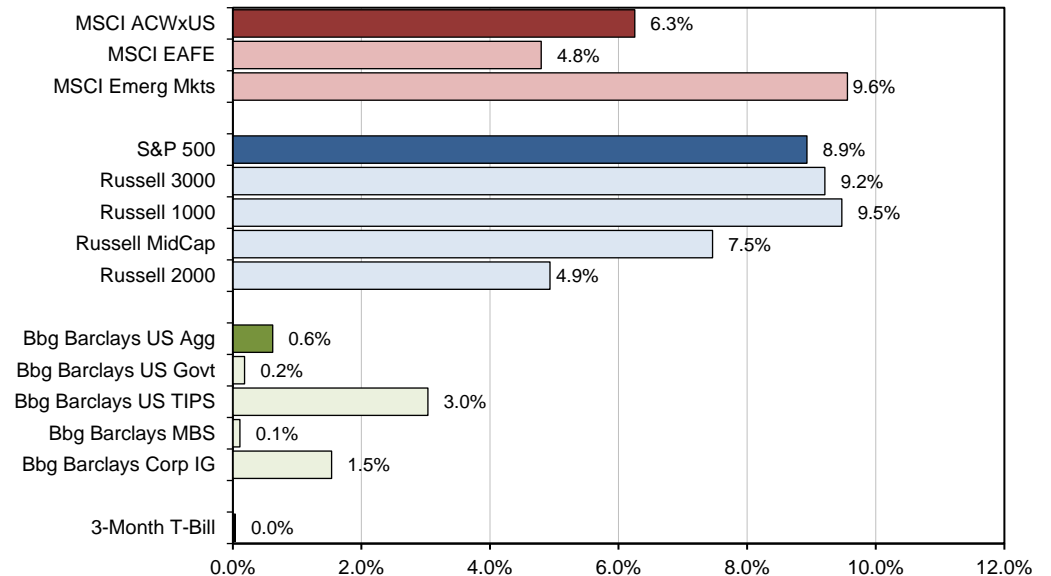


# 3rd Quarter 2020 Market Environment

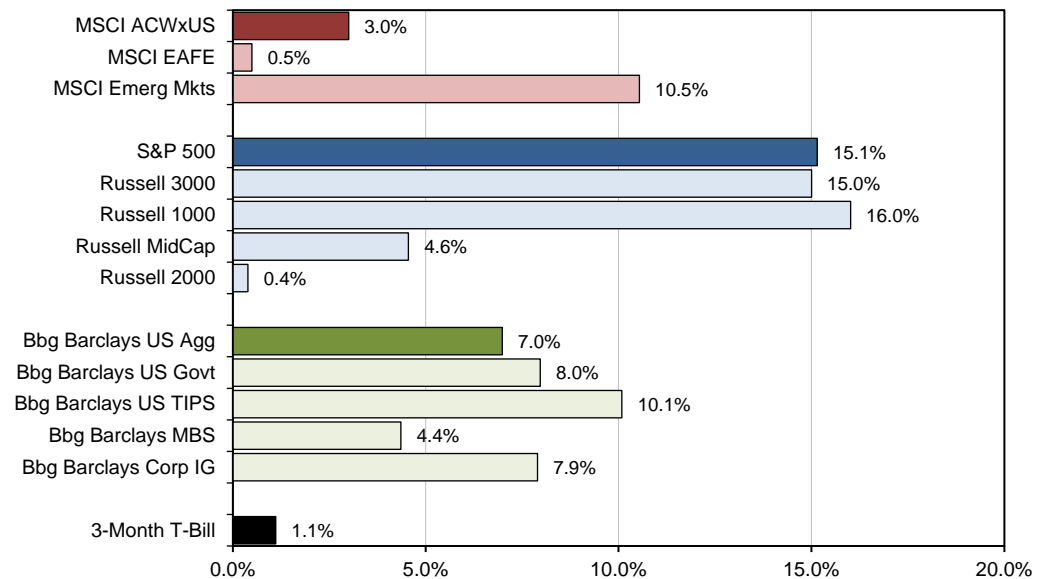


- Broad asset class returns were positive in the 3rd quarter continuing their rebound from the 2nd quarter. In general, US monetary policy remains supportive as the Federal Reserve Bank (Fed) continues to hold interest rates near zero with the goal of providing the markets with liquidity. Importantly, the Fed indicated that interest rates in the US would remain low for an extended period as GDP growth and business activity remains subdued as the COVID-19 pandemic lingers. The Fed also commented that it was comfortable allowing inflation to exceed its 2% target in the near-term with the goal of averaging its target over the long-term. The final reading of US GDP growth in the 2nd quarter showed the economy contracted by -31.4%. While expectations for growth in the 3rd quarter vary widely, the general outlook is for a strong positive reading. Within domestic equity markets, we saw a reversal during the quarter with large cap stocks outperforming small cap stocks with the S&P 500 returning 8.9% compared to 4.9% for the Russell 2000 Index. Over the trailing 1-year period, large cap stocks significantly outperformed both small and mid-cap stocks with the S&P 500 returning 15.1% while small and mid-cap stocks returned 0.4% and 4.6%, respectively.
- Similar to US markets, international markets posted strong returns for the period despite concerns about a potential "second wave" of the pandemic flowing through Europe. While neither the European Central Bank nor the Bank of England changed their policies, global central banks remain accommodative and prepared to provide additional support if required. International investors also benefited from a weakening USD which declined against most major currencies during the period. Emerging market economies continued to outperform relative to developed markets during the period with China showing signs of improvement. For the quarter, the MSCI Emerging Market Index returned 9.6% compared to 4.8% for the MSCI EAFE Index. Following the strong quarter, both developed and emerging market indices turned positive over the 1-year trailing period with the developed market index returning 0.5% and the emerging market index returning 10.5%.
- Fixed income returns were mixed during the 3rd quarter as interest rates remained relatively stable. For the quarter, the BB US Aggregate Index returned 0.6% while the BB Corporate Investment Grade Index returned 1.5%. TIPS were an area of strength during the quarter, benefiting from higher inflation expectations. For the trailing 1-year period, fixed income returns were solid with the BB US Aggregate Index returning 7.0%, while corporate bonds returned 7.9%. TIPS outperformed nominal bonds by posting a respectable 10.1% return over the trailing 1-year period as investors' inflation expectations rose.

### Quarter Performance



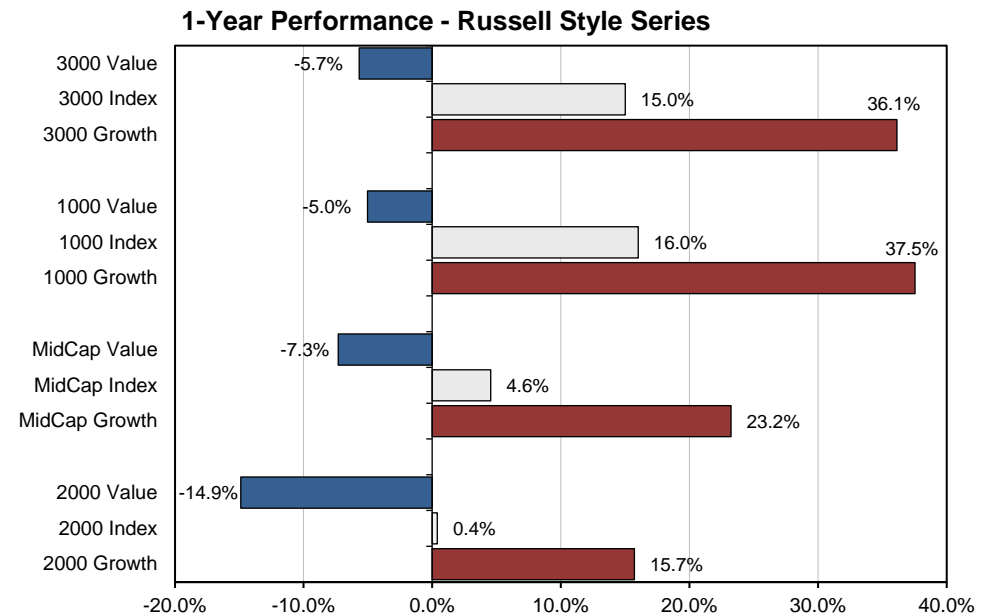
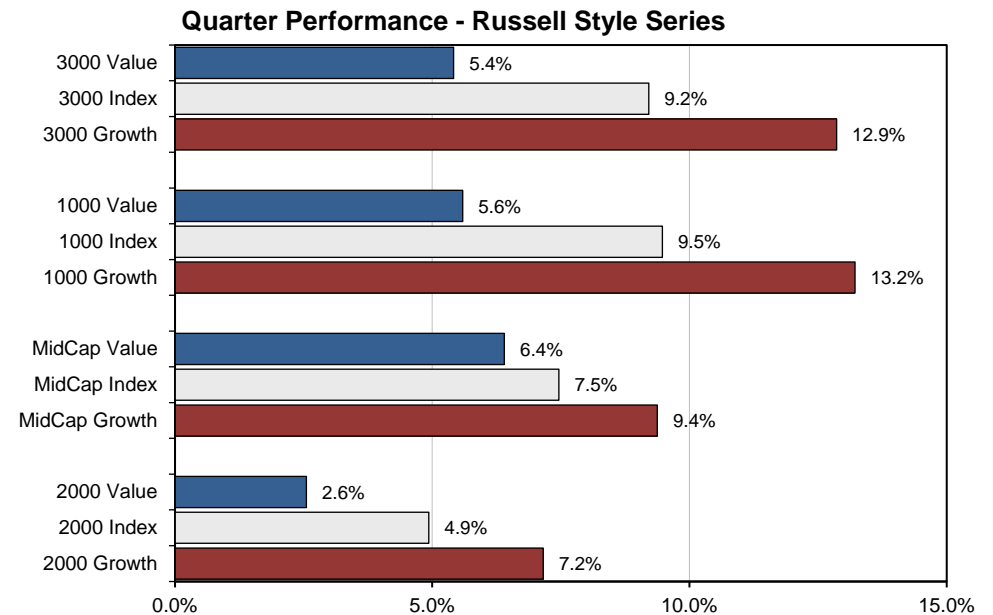
### 1-Year Performance



Source: Investment Metrics



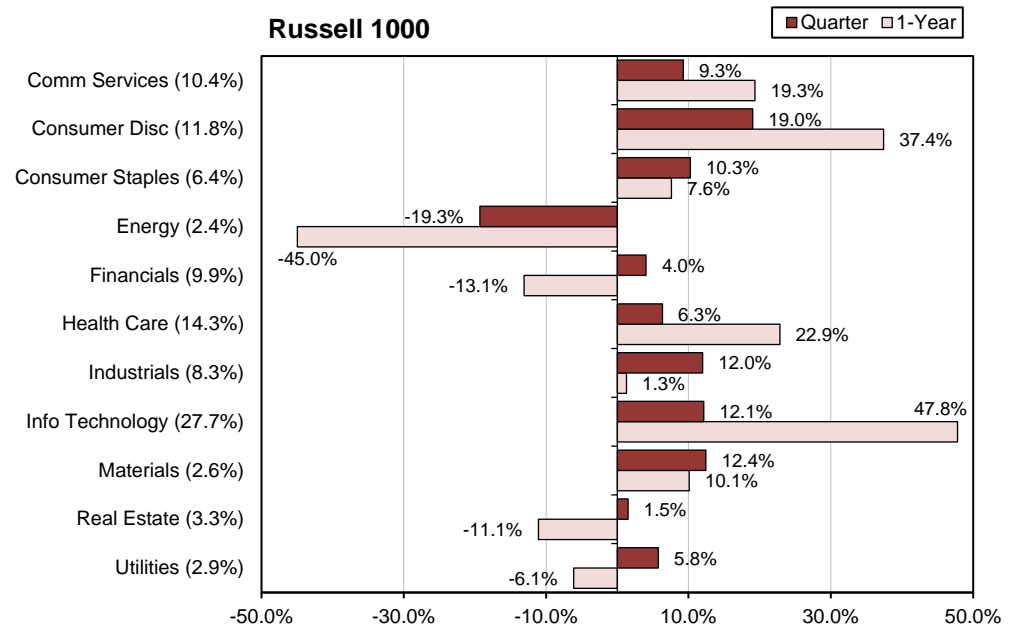
- Continuing their recent trend, US equities posted their second straight quarter of positive returns across the style and market capitalization spectrum. During the quarter, large cap stocks resumed their leadership, outpacing both mid and small-cap stocks as investors gravitated toward large companies for their relatively attractive profitability profile, lower leverage, and diversified business models. The Russell 1000 Index returned 9.5% compared with 7.5% and 4.9% for the Russell MidCap and Russell 2000 indices, respectively. While small cap stocks have historically performed well in periods following a recession, the relative uncertainty surrounding the path of global economic growth and the upcoming US Presidential election pushed investors toward the relative safety of large cap stocks.
- Growth stocks maintained their dominance relative to value-oriented stocks across all market capitalizations for the 3rd quarter. The Russell 1000 Growth Index returned 13.2% and was the best performing index across style and market capitalization for the period. The index benefitted from favorable relative weightings to consumer discretionary, materials and technology-related companies, which powered large cap returns during the period. Small cap value stocks trailed their index peers during the quarter with the Russell 2000 Value Index returning 2.6%. Exposures to financial-related companies and real estate acted as a headwind as those sectors lagged during the period.
- When viewed over the trailing 1-year period, the performance dispersion between large cap and small cap stocks across styles is glaring. While some of the difference in relative performance between market capitalizations can be attributed to the drawdown experienced during the 1st quarter, large cap stocks have benefited from investors favoring companies with healthier financial profiles that can weather a protracted period of weak growth due to the pandemic. Additionally, the sector weights within the respective indices and a tilt towards growth-oriented, higher P/E companies in large caps has acted as a tailwind for growth index performance.
- Results over the trailing 1-year reflect the continued strength of growth compared to value benchmarks with each growth index earning double digit gains while each value index posted negative results for the period. The widest performance gap was in the large cap space with the Russell 1000 Growth Index returning 37.5%, which outpaced the large cap value benchmark by more than 40% for the year. The dispersion between both mid and small cap growth benchmarks was also substantial relative to their value counterparts with each growth index outpacing its respective value benchmark by more than 30% for the year.



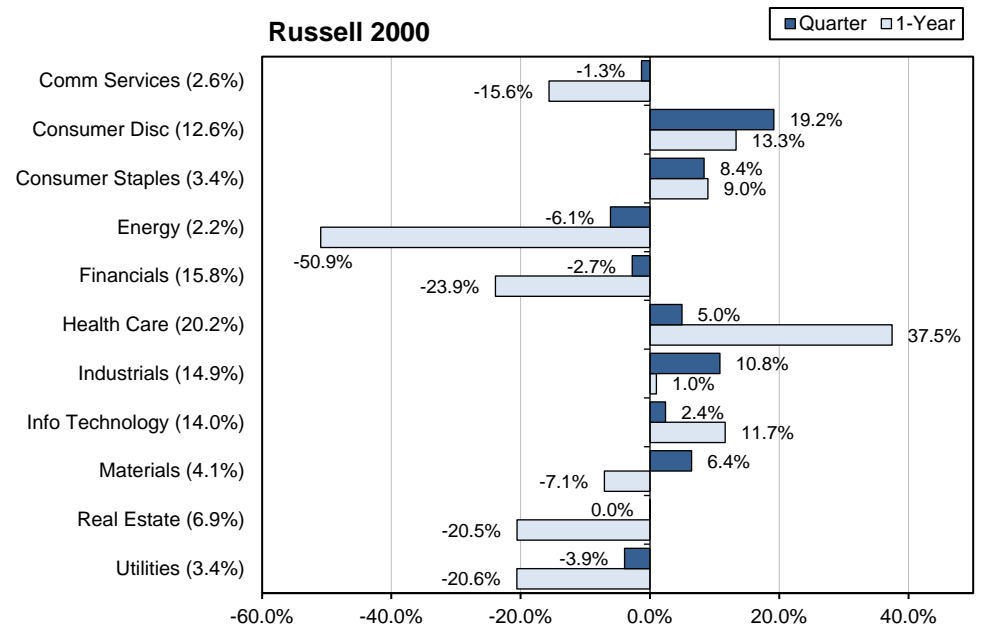
Source: Investment Metrics



- Ten of eleven economic sectors within the large cap Russell 1000 Index were positive for the 3rd quarter with only the energy sector posting a negative return. Five sectors outpaced the return of the broad index during the period. Growth-oriented sectors such as consumer discretionary, materials and technology were some of the best performers for the quarter returning 19.0%, 12.4%, and 12.1%, respectively. The energy sector continues to lag due to reduced consumption and the threat of bankruptcies resulting from stubbornly low oil prices. While the sectors were positive, financials and real estate were laggards relative to the broad index results, posting returns of 4.0% and 1.5% respectively. With the Fed indicating that interest rates will remain lower for longer, both sectors faced headwinds due to their sensitivity to US interest rates.
- Over the trailing 1-year period, technology-related and consumer discretionary stocks were the best performers returning 47.8% and 37.4% respectively. For the full-year, five sectors exceeded the return of the broad benchmark: technology, consumer discretionary, health care, communication services, and materials. In contrast, traditional value sectors such as energy, financials, real estate and utilities posted returns of -45.0%, -13.1%, -11.1%, and -6.1%, respectively, for the trailing 1-year period. This sector performance shows a staggering dispersion of more than 90% from best to worst performing sector in the large cap benchmark.



- Five of eleven small cap sectors posted returns greater than the Russell 2000 Index for the 3rd quarter. Similar to large cap stocks, sectors sensitive to the consumer and improving economic conditions were the primary drivers of return during the quarter. That said, only the consumer discretionary sector outpaced its large cap counterpart during the period, returning 19.2% compared to 19.0%.
- As previously noted, small cap stocks have significantly trailed large caps over the previous 1-year period. Specifically, energy-related companies have faced significant headwinds due primarily to low oil prices while interest rate sensitive sectors such as financials and real estate have failed to produce gains as a result of historically low US interest rates. The lone bright spot has been health care stocks which outperformed their large cap equivalents by more than 14% over the period (37.5% versus 22.9%).



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



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

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	6.04%	27.2%	108.9%	Information Technology
Microsoft Corp	5.02%	3.6%	53.0%	Information Technology
Amazon.com Inc	4.25%	14.1%	81.4%	Consumer Discretionary
Facebook Inc A	2.00%	15.3%	47.1%	Communication Services
Alphabet Inc A	1.40%	3.4%	20.0%	Communication Services
Alphabet Inc Class C	1.39%	4.0%	20.6%	Communication Services
Berkshire Hathaway Inc Class B	1.32%	19.3%	2.4%	Financials
Johnson & Johnson	1.25%	6.6%	18.2%	Health Care
Procter & Gamble Co	1.08%	17.0%	14.6%	Consumer Staples
Visa Inc Class A	1.08%	3.7%	17.0%	Information Technology

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Penn National Gaming Inc	0.59%	138.0%	290.3%	Consumer Discretionary
Sunrun Inc	0.49%	290.8%	361.4%	Industrials
Caesars Entertainment Inc	0.41%	39.9%	40.6%	Consumer Discretionary
MyoKardia Inc	0.37%	41.1%	161.4%	Health Care
Novavax Inc	0.35%	30.0%	2058.4%	Health Care
iRhythm Technologies Inc	0.35%	105.5%	221.3%	Health Care
LHC Group Inc	0.34%	21.9%	87.2%	Health Care
Mirati Therapeutics Inc	0.33%	45.4%	113.1%	Health Care
Churchill Downs Inc	0.33%	23.0%	33.3%	Consumer Discretionary
Momenta Pharmaceuticals Inc	0.33%	57.7%	304.9%	Health Care

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Immunomedics Inc	0.06%	139.9%	541.3%	Health Care
L Brands Inc	0.02%	112.5%	67.3%	Consumer Discretionary
Tesla Inc	1.01%	98.7%	790.5%	Consumer Discretionary
NovoCure Ltd	0.04%	87.7%	48.8%	Health Care
Pinterest Inc	0.05%	87.2%	56.9%	Communication Services
Livongo Health Inc	0.02%	86.3%	703.0%	Health Care
Carvana Co Class A	0.04%	85.6%	238.0%	Consumer Discretionary
Zoom Video Communications Inc	0.25%	85.4%	516.9%	Information Technology
FedEx Corp	0.19%	79.9%	75.8%	Industrials
Zillow Group Inc A	0.02%	76.7%	243.7%	Communication Services

Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Whiting Petroleum Corp	0.00%	1430.1%	115.3%	Energy
Seres Therapeutics Inc	0.08%	494.7%	606.0%	Health Care
Vivint Solar Inc	0.11%	327.8%	547.6%	Industrials
Tupperware Brands Corp	0.05%	324.4%	27.0%	Consumer Discretionary
Eastman Kodak Co	0.01%	295.5%	234.1%	Information Technology
Sunrun Inc	0.49%	290.8%	361.4%	Industrials
Cassava Sciences Inc	0.01%	273.7%	859.2%	Health Care
Owens & Minor Inc	0.08%	229.6%	332.8%	Health Care
Gogo Inc	0.03%	192.4%	53.2%	Communication Services
Pacific Biosciences of California Inc	0.09%	186.1%	91.3%	Health Care

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Occidental Petroleum Corp	0.03%	-45.2%	-75.5%	Energy
Coty Inc Class A	0.00%	-39.6%	-73.8%	Consumer Staples
Biomarin Pharmaceutical Inc	0.04%	-38.3%	12.9%	Health Care
Reata Pharmaceuticals Inc A	0.01%	-37.6%	21.3%	Health Care
Murphy Oil Corp	0.00%	-34.8%	-58.0%	Energy
Agios Pharmaceuticals Inc	0.01%	-34.6%	8.0%	Health Care
Marathon Oil Corp	0.01%	-33.2%	-66.4%	Energy
Kirby Corp	0.01%	-32.5%	-56.0%	Industrials
HollyFrontier Corp	0.01%	-31.6%	-61.8%	Energy
Alteryx Inc Class A	0.02%	-30.9%	5.7%	Information Technology

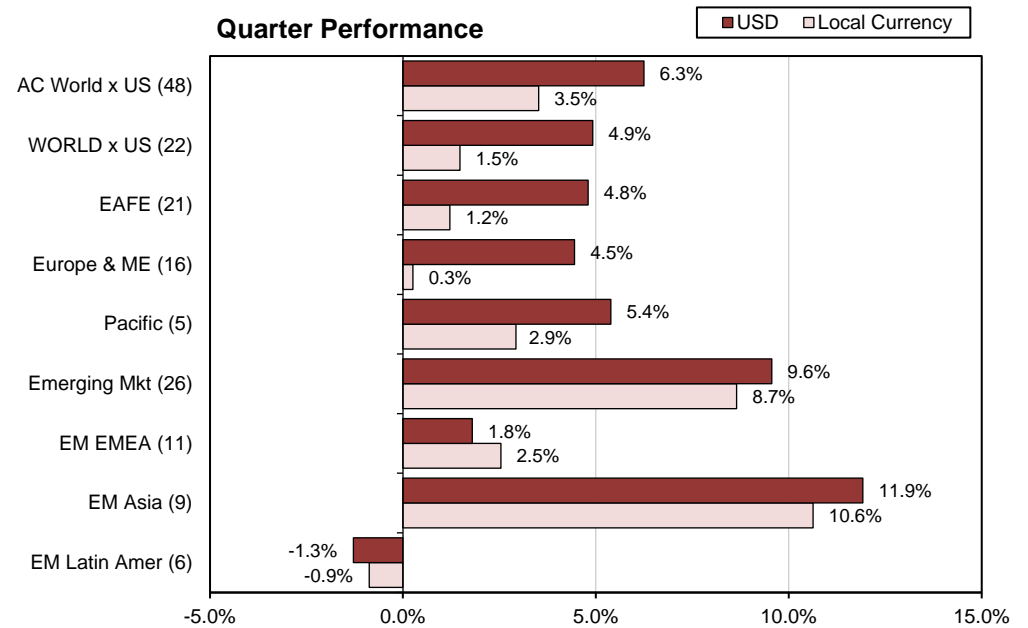
Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Satsuma Pharmaceuticals Inc Ord. Shr.	0.00%	-86.5%	-74.1%	Health Care
Akebia Therapeutics Inc	0.02%	-81.5%	-36.0%	Health Care
Corbus Pharmaceuticals Holdings Inc	0.01%	-78.5%	-63.0%	Health Care
Odonate Therapeutics Inc	0.01%	-68.3%	-48.4%	Health Care
Tricida Inc	0.01%	-67.0%	-70.7%	Health Care
Abeona Therapeutics Inc	0.00%	-65.0%	-54.9%	Health Care
Mallinckrodt PLC	0.00%	-63.7%	-59.6%	Health Care
Nemauro Medical Inc	0.00%	-61.6%	-51.4%	Health Care
Express, Inc.	0.00%	-60.4%	-82.3%	Consumer Discretionary
Unity Biotechnology Inc	0.01%	-60.1%	-43.3%	Health Care

Source: Morningstar Direct



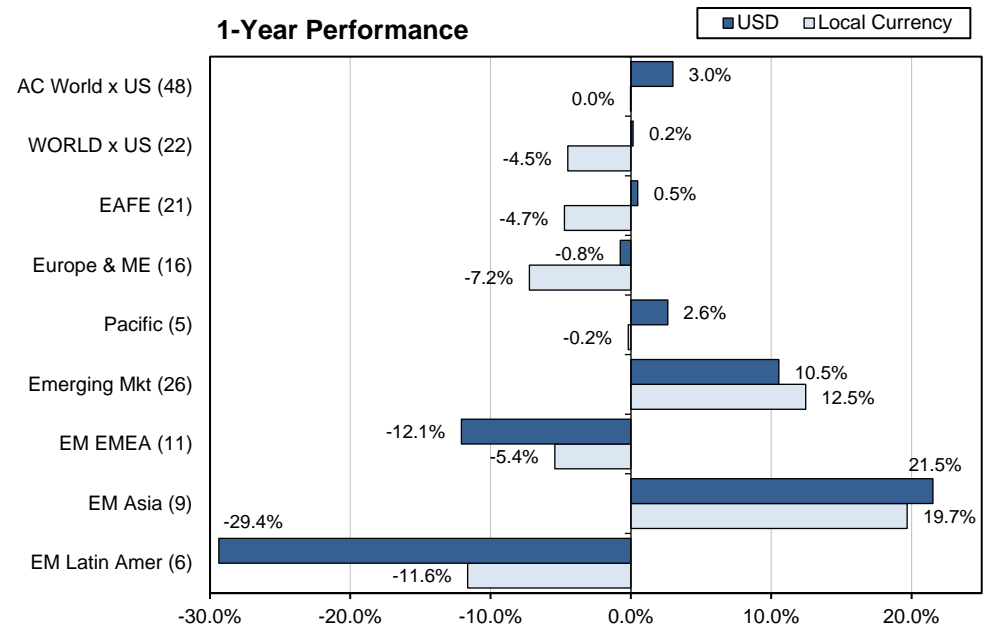
- Nearly all broad international equity indices posted positive returns in both USD and local currency terms for the 3rd quarter. Similar to US markets, international markets continued to benefit from sustained monetary and fiscal stimulus in addition to economic recovery following the onset of the pandemic. Importantly, US investors benefited from the foreign exchange element of investing internationally as the USD declined relative to most developed market currencies during the quarter.
- For the 3rd quarter, emerging markets outperformed developed markets by nearly 5%. The MSCI Emerging Markets Index gained 9.6% in USD and 8.7% in local currency terms for the period. Emerging markets were led higher by China (12.5% for the quarter) which showed signs of accelerating economic growth during the quarter and represents more than 10% of 26 country emerging market benchmark. Developed international markets also delivered solid returns during the period with the MSCI EAFE Index rising by 4.8% in USD and 1.2% in local currency returns.

**Quarter Performance**



- Trailing 1-year returns for international developed markets were mixed both in terms of USD and local currency returns. In contrast, emerging market returns were broadly positive during the period despite both EMEA and Latin America posting negative returns in both USD and local currency terms. For the year, the MSCI EAFE Index returned 0.5% in USD and -4.7% in local currency returns while the MSCI Emerging Markets Index returned 10.5% and 12.5%, respectively.
- During the trailing 1-year period, the USD weakened against most major international developed and emerging market currencies which positively contributed to returns in USD terms. Despite this, emerging markets in Latin America were adversely affected as a result of the decisions by Argentina and Ecuador to restructure their sovereign debt which resulted in local currency weakness and declining asset values.

**1-Year Performance**



Source: MSCI Global Index Monitor (Returns are Net)



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

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.5%	4.1%	1.4%
Consumer Discretionary	11.9%	9.7%	3.4%
Consumer Staples	11.9%	4.5%	0.7%
Energy	2.8%	-13.4%	-42.7%
Financials	15.1%	-1.3%	-16.9%
Health Care	14.4%	2.9%	20.4%
Industrials	15.2%	10.3%	5.3%
Information Technology	8.6%	8.1%	23.7%
Materials	7.6%	10.8%	10.9%
Real Estate	3.1%	2.9%	-15.5%
Utilities	4.0%	3.0%	5.9%
<b>Total</b>	<b>100.0%</b>	<b>4.8%</b>	<b>0.5%</b>

MSCI - ACWixUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.5%	3.3%	11.8%
Consumer Discretionary	13.8%	16.5%	18.1%
Consumer Staples	9.7%	4.6%	0.2%
Energy	4.2%	-7.6%	-33.5%
Financials	16.9%	-0.2%	-17.2%
Health Care	10.5%	2.6%	22.2%
Industrials	11.7%	9.9%	4.5%
Information Technology	11.7%	13.4%	34.6%
Materials	7.9%	11.1%	12.0%
Real Estate	2.7%	2.3%	-14.1%
Utilities	3.4%	2.0%	0.2%
<b>Total</b>	<b>100.0%</b>	<b>6.3%</b>	<b>3.0%</b>

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	12.7%	2.5%	25.4%
Consumer Discretionary	20.2%	26.8%	48.4%
Consumer Staples	6.1%	4.3%	-2.7%
Energy	5.4%	-0.5%	-19.2%
Financials	17.2%	-0.5%	-19.0%
Health Care	4.3%	1.9%	47.0%
Industrials	4.4%	2.9%	-6.7%
Information Technology	18.5%	20.5%	41.9%
Materials	6.9%	11.6%	8.0%
Real Estate	2.4%	0.9%	-7.8%
Utilities	2.0%	-4.4%	-18.4%
<b>Total</b>	<b>100.0%</b>	<b>9.6%</b>	<b>10.5%</b>

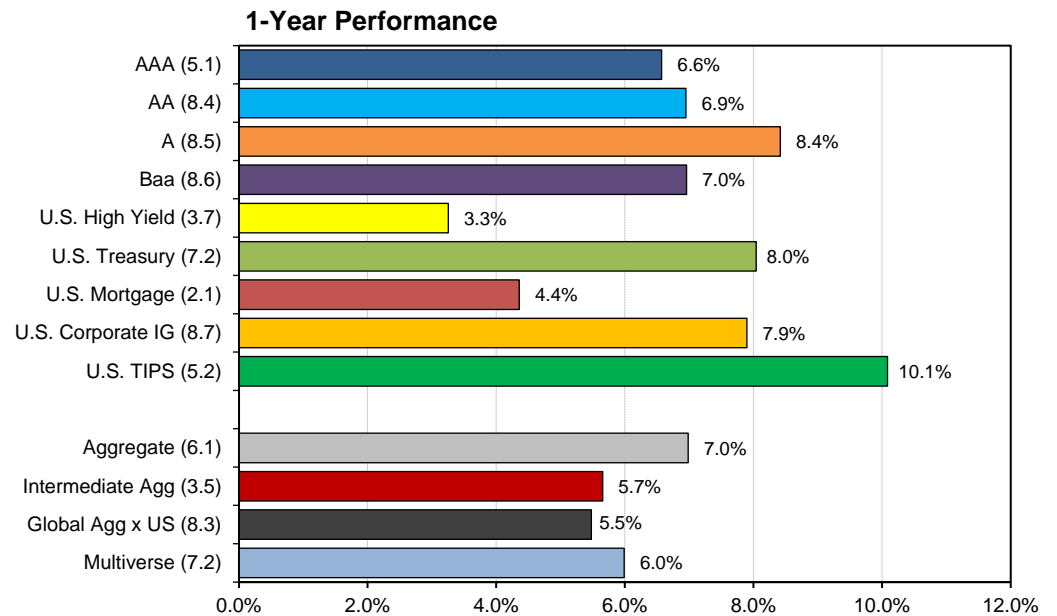
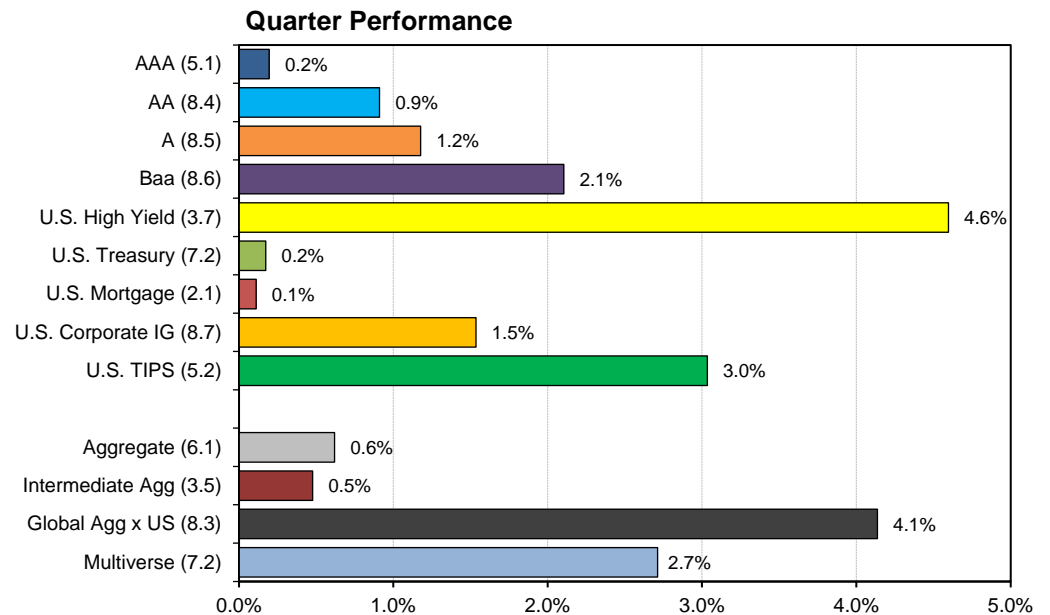
Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	25.8%	16.5%	6.9%	6.9%
United Kingdom	13.3%	8.5%	-0.2%	-15.8%
France	10.7%	6.8%	2.8%	-6.2%
Switzerland	10.4%	6.6%	5.1%	11.0%
Germany	9.6%	6.2%	8.3%	10.0%
Australia	6.6%	4.2%	2.8%	-7.7%
Netherlands	4.4%	2.8%	5.9%	12.6%
Sweden	3.3%	2.1%	14.6%	22.4%
Hong Kong	3.3%	2.1%	1.6%	-1.6%
Denmark	2.5%	1.6%	15.3%	42.5%
Spain	2.3%	1.4%	-3.8%	-21.0%
Italy	2.2%	1.4%	1.3%	-10.1%
Finland	1.1%	0.7%	11.9%	12.7%
Singapore	1.0%	0.7%	-1.0%	-16.4%
Belgium	1.0%	0.6%	2.0%	-23.2%
Ireland	0.7%	0.5%	14.5%	20.7%
Israel	0.6%	0.4%	-2.0%	3.5%
Norway	0.6%	0.4%	8.2%	-13.8%
New Zealand	0.3%	0.2%	-1.0%	24.4%
Portugal	0.2%	0.1%	-3.4%	2.3%
Austria	0.2%	0.1%	-4.8%	-29.1%
<b>Total EAFE Countries</b>	<b>100.0%</b>	<b>63.8%</b>	<b>4.8%</b>	<b>0.5%</b>
Canada		6.5%	6.2%	-3.0%
<b>Total Developed Countries</b>		<b>70.3%</b>	<b>4.9%</b>	<b>0.2%</b>
China		12.5%	12.5%	33.6%
Taiwan		3.8%	16.5%	35.0%
Korea		3.6%	12.8%	18.6%
India		2.5%	15.0%	0.5%
Brazil		1.4%	-3.3%	-32.5%
South Africa		1.1%	3.7%	-11.1%
Russia		0.9%	-4.7%	-16.0%
Saudi Arabia		0.8%	9.3%	-2.9%
Thailand		0.5%	-14.1%	-30.2%
Malaysia		0.5%	2.6%	-2.9%
Mexico		0.5%	4.6%	-20.5%
Indonesia		0.4%	-6.9%	-25.4%
Qatar		0.2%	7.5%	-2.6%
Philippines		0.2%	-2.7%	-18.7%
Poland		0.2%	-0.9%	-20.9%
United Arab Emirates		0.2%	6.2%	-11.8%
Chile		0.2%	-4.2%	-33.0%
Turkey		0.1%	-15.7%	-30.0%
Peru		0.1%	3.5%	-22.2%
Hungary		0.1%	-8.9%	-22.5%
Colombia		0.1%	-1.3%	-37.6%
Argentina		0.0%	6.7%	7.3%
Greece		0.0%	3.3%	-29.3%
Czech Republic		0.0%	-6.2%	-22.1%
Egypt		0.0%	4.6%	-13.8%
Pakistan		0.0%	12.4%	-2.6%
<b>Total Emerging Countries</b>		<b>29.7%</b>	<b>9.6%</b>	<b>10.5%</b>
<b>Total ACWixUS Countries</b>		<b>100.0%</b>	<b>6.3%</b>	<b>3.0%</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.





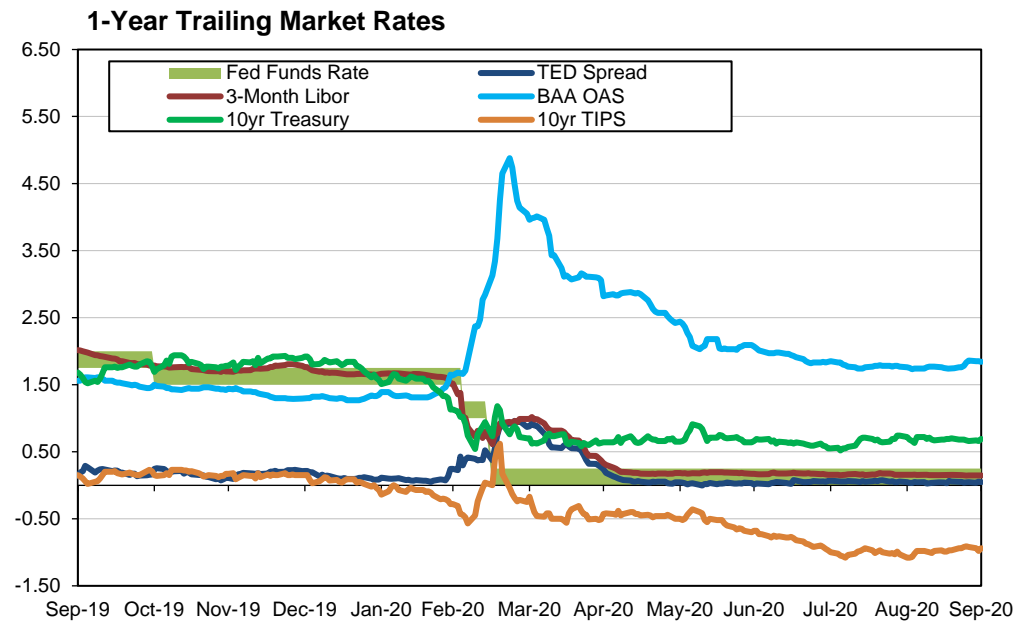
- During the 3rd quarter, each fixed income benchmark posted positive results and returns were led by lower quality high yield bonds, international bonds and TIPS. During the period, US interest rates were roughly unchanged as investors vacillated between concerns related to the pandemic and a positive outlook on future economic growth. Despite declining during the month of September, US high yield bonds delivered strong returns for the quarter with the Bloomberg Barclays (BB) US High Yield Index returning 4.6%. High quality global bonds outperformed US bonds during the period largely due to a declining USD.
- During the quarter, the broad Bloomberg Barclays (BB) US Aggregate Index returned 0.6%. The primary contributor of performance to the index during the period were US Corporate IG bonds which delivered 1.5%. Despite near-record issuance, investors continue to gravitate towards corporate credit for its higher return potential as US interest rates look to remain low for some time. US TIPS also performed well during the quarter with the BB US TIPS Index returning 3.0% as investors remained concerned about the potential for rising US inflation as a result of the fiscal and monetary stimulus provided to combat the pandemic.
- Over the trailing 1-year period, each of the domestic and international fixed income indices delivered positive absolute returns. Longer duration, higher quality investment grade bonds outperformed lower quality, shorter duration high yield bonds as global interest rates fell while investors looked for less volatile assets. US TIPS were the best performing bonds with the BB US TIPS Index returning 10.1% followed by US Treasury bonds which returned 8.0%. High Yield bonds performed worst, returning 3.3% during the period as they continued to recover from the spread-widening drawdown during the 1st quarter.
- For the full year, both domestic and global bonds performed well. The US BB Aggregate Bond Index returned 7.0% compared to 5.5% for the BB Global Aggregate ex-US Index. Despite lower interest rates in both Europe and Japan, global bonds delivered solid returns primarily due to a decline in the USD compared to most major developed currencies.



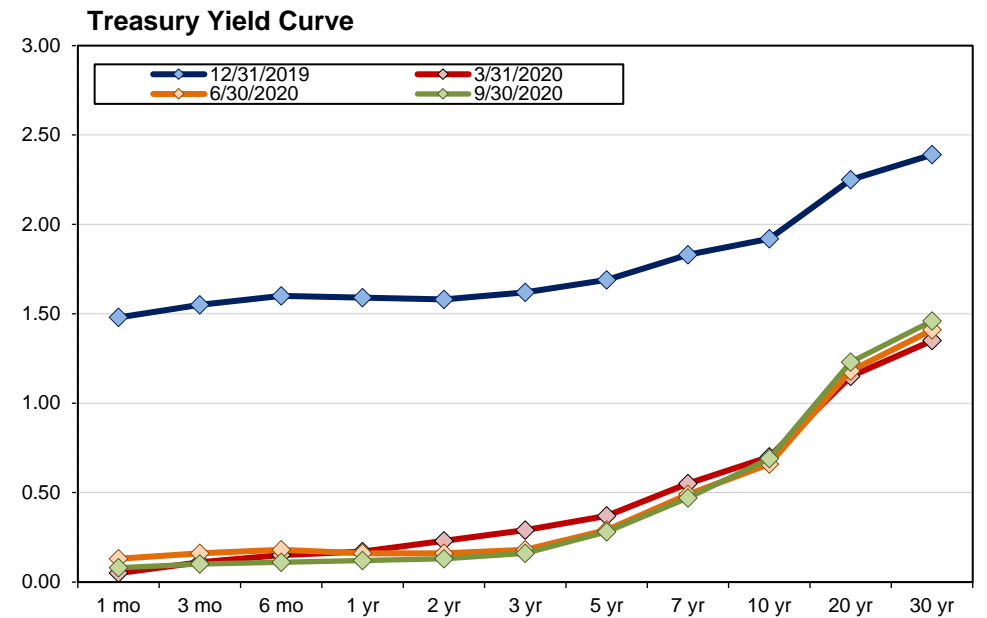
Source: Bloomberg



- 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 1.5%, to a low of roughly 0.5% before ending the quarter at roughly 0.7%. A decline in yields acts as a tailwind for 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 the dramatic increase in credit spreads in early 2020 as investors required additional compensation to hold riskier credit assets following the onset of the pandemic. Since that time, spreads have steadily declined as markets have largely normalized following the aggressive actions taken by the Treasury and Fed. During the quarter, the BB US High Yield OAS spread fell by roughly 1.1% but is still wider than pre-pandemic levels. Similar to Treasury yield declines, spread tightening in corporate bonds is equivalent to an interest rate decrease, which causes bond prices to rise. The green band across the graph illustrates the Fed Funds Rate. Following the onset of the pandemic, the Fed began aggressively cutting interest rates during the 1st quarter to between 0.0% to 0.25%, where it has remained since then.



- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. US interest rates were broadly higher at the end of 2019. Following the onset of the pandemic, interest rates fell dramatically as the Fed took unprecedented action to stimulate the economy. While short-term interest rates have remained anchored near 0.0%, intermediate-term interest rates between 2-years and 7-years declined as concerns over future US economic growth increased. Additionally, the Fed has indicated that US interest rates will remain low for the foreseeable future in an effort to provide the market with liquidity. Longer-term US Treasury interest rates moved slightly higher during the most recent quarter as investors balanced the Fed's statements with the need to increase the amount of US Treasury bond issuance to fund both the annual budget deficit and additional stimulus.

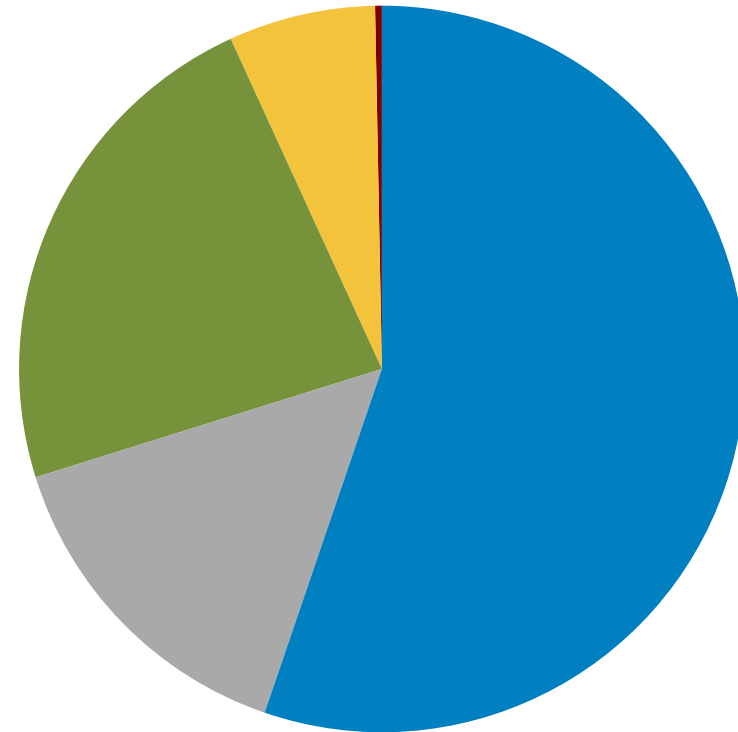
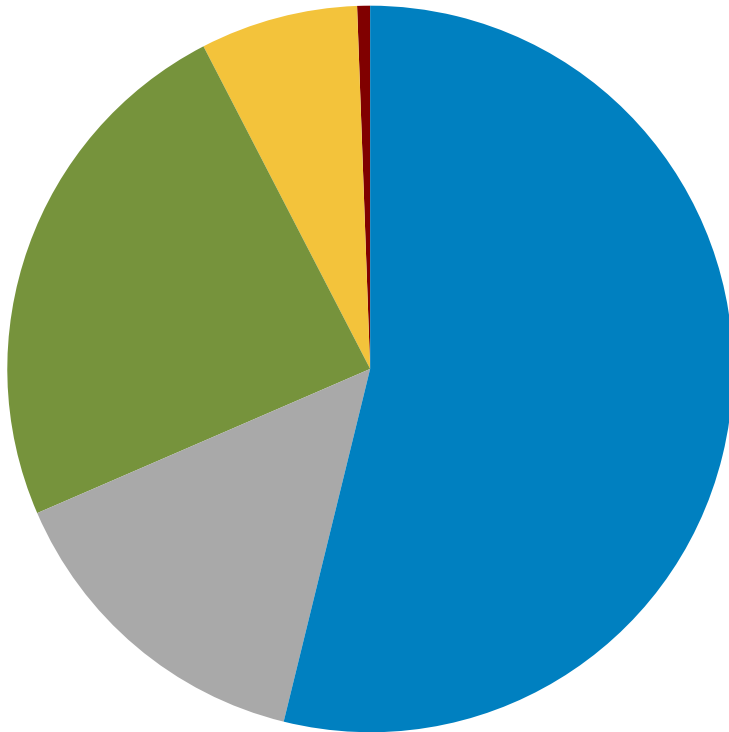


Source: US Department of Treasury, FRED (Federal Reserve of St. Louis)



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

Asset Allocation By Segment as of  
 September 30, 2020 : \$46,044,204

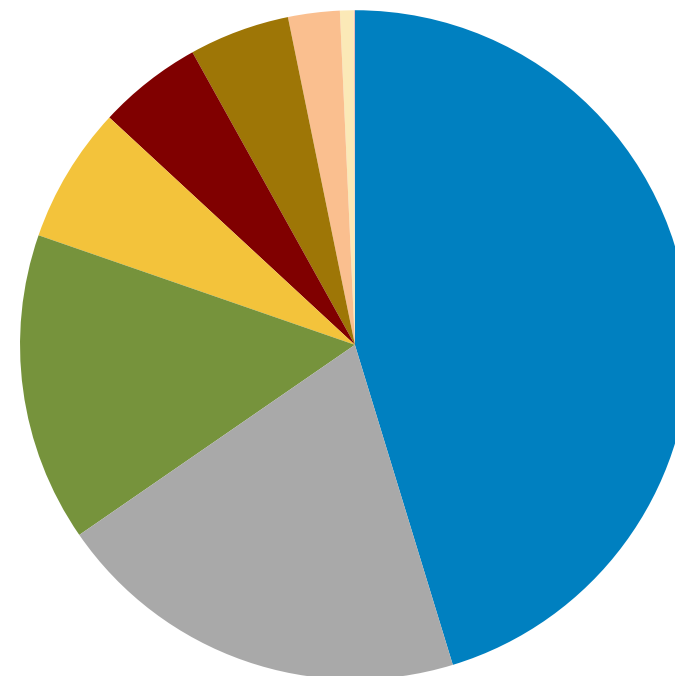
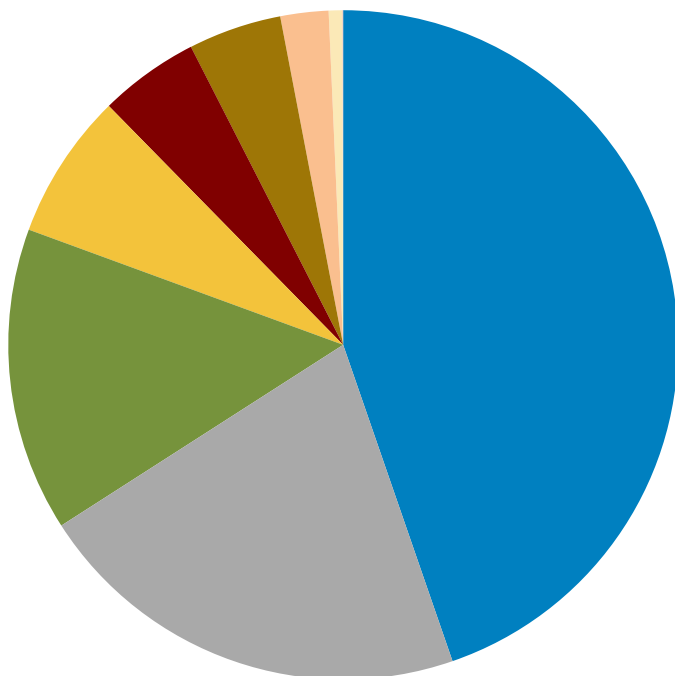


Allocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
■ Domestic Equity	23,016,596	53.8	■ Domestic Equity	25,434,284	55.2
■ International Equity	6,273,136	14.7	■ International Equity	6,879,104	14.9
■ Domestic Fixed Income	10,218,045	23.9	■ Domestic Fixed Income	10,576,854	23.0
■ Real Estate	3,002,056	7.0	■ Real Estate	3,013,823	6.5
■ Cash Equivalent	246,971	0.6	■ Cash Equivalent	140,139	0.3



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

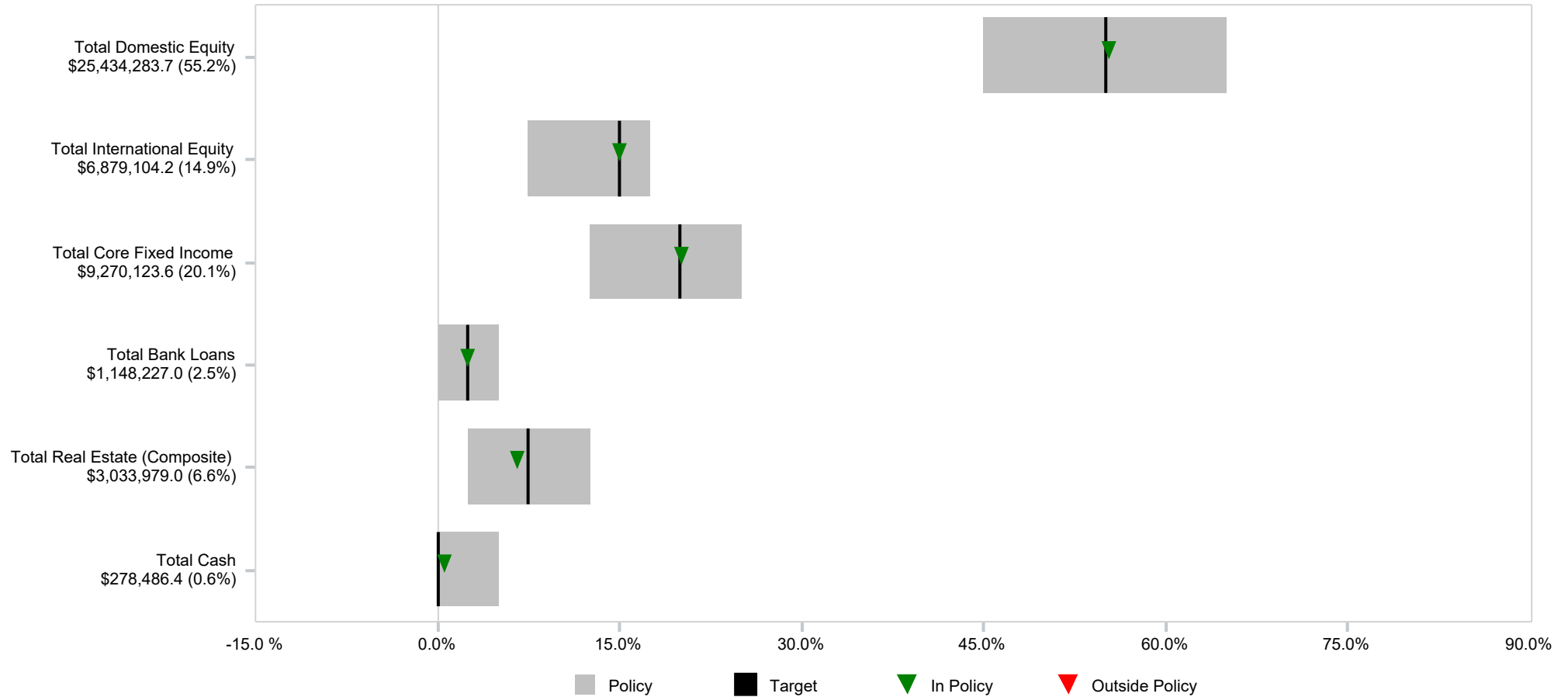
Asset Allocation By Manager as of  
September 30, 2020 : \$46,044,204



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Vanguard Total Stock Index (VITSX)	19,114,195	44.7	Vanguard Total Stock Index (VITSX)	20,872,538	45.3
Garcia Hamilton	9,071,125	21.2	Garcia Hamilton	9,270,124	20.1
EuroPacific Growth R6 (RERGX)	6,273,136	14.7	EuroPacific Growth R6 (RERGX)	6,879,104	14.9
Clarion (Core Real Estate)	3,021,868	7.1	Clarion (Core Real Estate)	3,033,979	6.6
Conestoga Small Cap I (CCALX)	2,063,838	4.8	Conestoga Small Cap I (CCALX)	2,324,540	5.0
American Beacon SC Value R6 (AASRX)	1,922,398	4.5	American Beacon SC Value R6 (AASRX)	2,237,206	4.9
Pacific Funds Floating Rate (PLFRX)	993,236	2.3	Pacific Funds Floating Rate (PLFRX)	1,148,227	2.5
Mutual Fund Cash	278,144	0.7	Mutual Fund Cash	305,666	0.7
Frost Bank Cash Account	18,864	0.0	Frost Bank Cash Account	-27,180	-0.1



**Executive Summary**



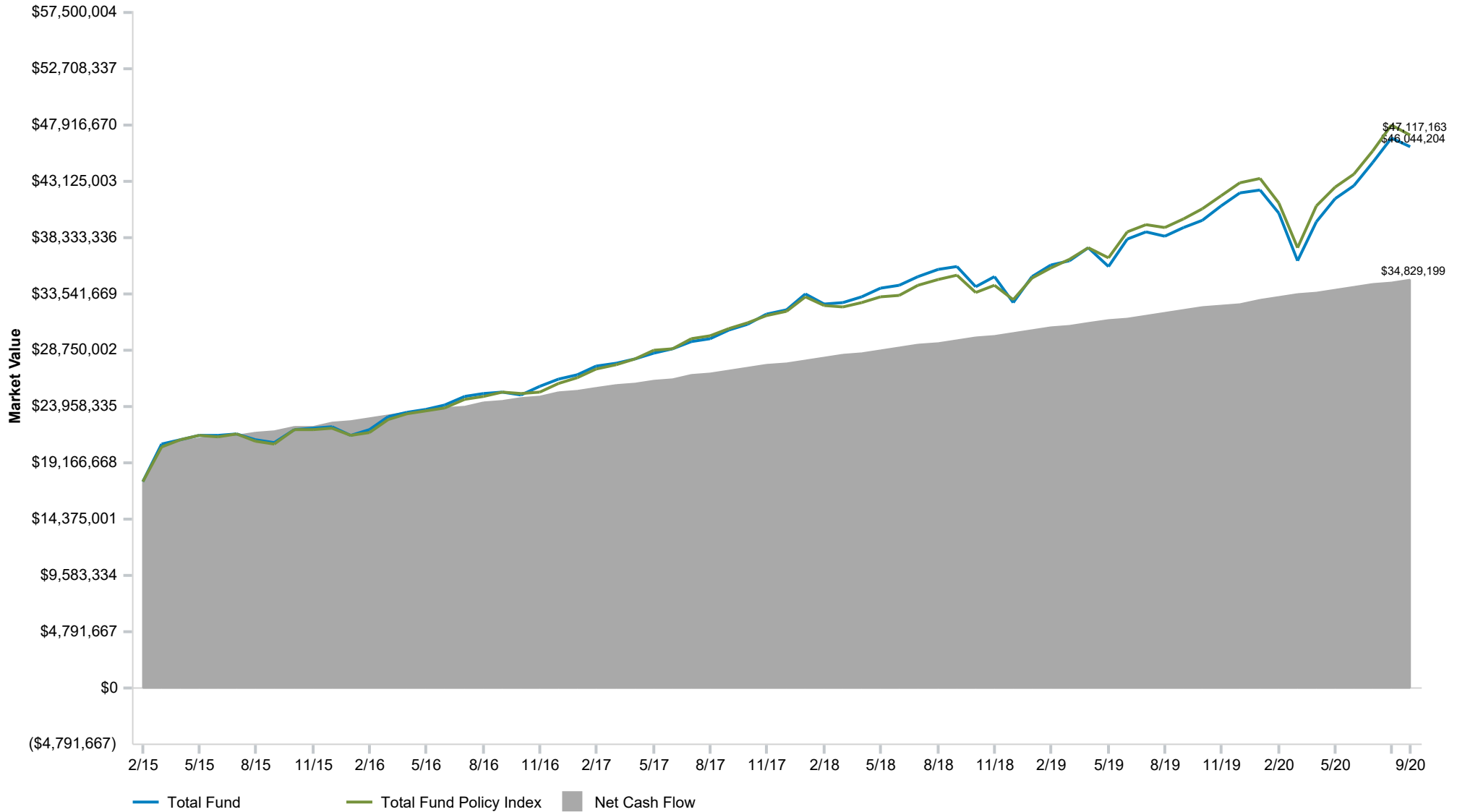
**Asset Allocation Compliance**

	Asset Allocation \$	Current Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebal. (\$000)
Total Fund	46,044,204	100.0	N/A	N/A	100.0	-
Total Domestic Equity	25,434,284	55.2	45.0	65.0	55.0	-109,972
Total International Equity	6,879,104	14.9	7.5	17.5	15.0	27,526
Total Core Fixed Income	9,270,124	20.1	12.5	25.0	20.0	-61,283
Total Bank Loans	1,148,227	2.5	0.0	5.0	2.5	2,878
Total Real Estate (Composite)	3,033,979	6.6	2.5	12.5	7.5	419,336
Total Cash	278,486	0.6	0.0	5.0	0.0	-278,486



**Schedule of Investable Assets**  
**Total Fund**  
 Since Inception Ending September 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	17,287,874	46,044,204



The Woodlands Firefighters' Retirement System

Financial Reconciliation

1 Quarter Ending September 30, 2020

Financial Reconciliation One Quarter									
	Market Value 07/01/2020	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 09/30/2020
<b>Total Fund</b>	<b>42,756,804</b>	<b>-</b>	<b>743,025</b>	<b>-44,750</b>	<b>-8,000</b>	<b>-18,153</b>	<b>49,290</b>	<b>2,565,987</b>	<b>46,044,204</b>
<b>Total Domestic Equity</b>	<b>23,100,432</b>	<b>450,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,883,851</b>	<b>25,434,284</b>
Vanguard Total Stock Index (VITSX)	19,114,195	-	-	-	-	-	-	1,758,342	20,872,538
American Beacon SC Value R6 (AASRX)	1,922,398	250,000	-	-	-	-	-	64,807	2,237,206
Conestoga Small Cap I (CCALX)	2,063,838	200,000	-	-	-	-	-	60,702	2,324,540
<b>Total International Developed Equity</b>	<b>6,273,136</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>605,968</b>	<b>6,879,104</b>
EuroPacific Growth R6 (RERGX)	6,273,136	-	-	-	-	-	-	605,968	6,879,104
<b>Total Core Fixed Income</b>	<b>9,071,125</b>	<b>125,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-685</b>	<b>39,639</b>	<b>35,045</b>	<b>9,270,124</b>
Garcia Hamilton	9,071,125	125,000	-	-	-	-685	39,639	35,045	9,270,124
<b>Total Bank Loans</b>	<b>993,236</b>	<b>125,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9,608</b>	<b>20,384</b>	<b>1,148,227</b>
Pacific Funds Floating Rate (PLFRX)	993,236	125,000	-	-	-	-	9,608	20,384	1,148,227
<b>Total Real Estate</b>	<b>3,021,868</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-8,000</b>	<b>-</b>	<b>-</b>	<b>20,111</b>	<b>3,033,979</b>
Clarion	3,021,868	-	-	-	-8,000	-	-	20,111	3,033,979
<b>Total Cash</b>	<b>297,008</b>	<b>-700,000</b>	<b>743,025</b>	<b>-44,750</b>	<b>-</b>	<b>-17,468</b>	<b>44</b>	<b>628</b>	<b>278,486</b>
Frost Bank Cash Account	18,864	-	-	-44,750	-	-1,280	1	-15	-27,180
Mutual Fund Cash	278,144	-700,000	743,025	-	-	-16,188	42	643	305,666



The Woodlands Firefighters' Retirement System  
Financial Reconciliation

Year To Date Ending September 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 09/30/2020
<b>Total Fund</b>	<b>42,170,963</b>	<b>-</b>	<b>2,344,675</b>	<b>-142,644</b>	<b>-29,142</b>	<b>-82,301</b>	<b>329,759</b>	<b>1,452,895</b>	<b>46,044,204</b>
<b>Total Domestic Equity</b>	<b>23,369,775</b>	<b>1,200,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>156,801</b>	<b>707,708</b>	<b>25,434,284</b>
Vanguard Total Stock Index (VITSX)	19,195,004	500,000	-	-	-	-	156,801	1,020,732	20,872,538
American Beacon SC Value R6 (AASRX)	2,153,209	500,000	-	-	-	-	-	-416,003	2,237,206
Conestoga Small Cap I (CCALX)	2,021,562	200,000	-	-	-	-	-	102,979	2,324,540
<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>315,929</b>	<b>6,879,104</b>
EuroPacific Growth R6 (RERGX)	6,413,175	150,000	-	-	-	-	-	315,929	6,879,104
<b>Total Core Fixed Income</b>	<b>8,219,146</b>	<b>450,000</b>	<b>-</b>	<b>-</b>	<b>-5,136</b>	<b>-1,761</b>	<b>139,373</b>	<b>468,502</b>	<b>9,270,124</b>
Garcia Hamilton	8,219,146	450,000	-	-	-5,136	-1,761	139,373	468,502	9,270,124
<b>Total Bank Loans</b>	<b>1,036,835</b>	<b>125,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>27,872</b>	<b>-41,479</b>	<b>1,148,227</b>
Pacific Funds Floating Rate (PLFRX)	1,036,835	125,000	-	-	-	-	27,872	-41,479	1,148,227
<b>Total Real Estate</b>	<b>3,051,667</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-24,006</b>	<b>-</b>	<b>-</b>	<b>6,318</b>	<b>3,033,979</b>
Clarion	3,051,667	-	-	-	-24,006	-	-	6,318	3,033,979
<b>Total Cash</b>	<b>80,365</b>	<b>-1,925,000</b>	<b>2,344,675</b>	<b>-142,644</b>	<b>-</b>	<b>-80,540</b>	<b>5,713</b>	<b>-4,083</b>	<b>278,486</b>
Frost Bank Cash Account	64,029	40,000	-	-127,644	-	-3,891	276	51	-27,180
Mutual Fund Cash	16,337	-1,965,000	2,344,675	-15,000	-	-76,649	5,437	-4,134	305,666





**The Woodlands Firefighters' Retirement System**  
**Asset Allocation & Performance Trailing Returns**  
As of September 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>46,044,204</b>	<b>100.0</b>	<b>6.09</b>	<b>(18)</b>	<b>3.80</b>	<b>(34)</b>	<b>10.17</b>	<b>(26)</b>	<b>5.87</b>	<b>(58)</b>	<b>6.96</b>	<b>(44)</b>	<b>7.77</b>	<b>(64)</b>	<b>6.00</b>	<b>(59)</b>	<b>03/01/2015</b>
Total Fund Policy Index			6.21	(14)	4.23	(28)	10.96	(18)	8.45	(8)	7.73	(25)	8.44	(39)	6.45	(37)	
All Public Plans-Total Fund (Net)			5.27		2.82		8.22		6.11		6.73		8.15		6.18		
<b>New Portfolio Structure 10/1/19</b>	<b>46,044,204</b>	<b>100.0</b>	<b>6.09</b>		<b>3.80</b>		<b>10.17</b>		-		-		-		<b>10.17</b>		<b>10/01/2019</b>
Total Fund Policy Index			6.21		4.23		10.96		8.45		7.73		8.44		10.96		
<b>Total Equity</b>	<b>32,313,388</b>	<b>70.2</b>	<b>8.45</b>		<b>3.38</b>		<b>12.30</b>		<b>6.24</b>		<b>8.37</b>		<b>10.45</b>		<b>7.86</b>		<b>03/01/2015</b>
<b>Total Domestic Equity</b>	<b>25,434,284</b>	<b>55.2</b>	<b>8.12</b>		<b>3.06</b>		<b>11.55</b>		-		-		-		<b>9.56</b>		<b>07/01/2019</b>
Vanguard Total Stock Index (VITSX)	20,872,538	45.3	9.20	(29)	5.53	(26)	15.04	(22)	-		-		-		12.84	(23)	07/01/2019
CRSP U.S. Total Market TR Index			9.20	(29)	5.49	(26)	14.99	(23)	8.78	(-)	11.65	(-)	13.69	(-)	12.81	(24)	
IM U.S. Multi-Cap Core Equity (MF) Median			7.96		2.11		10.21		-		-		-		8.95		
American Beacon SC Value R6 (AASRX)	2,237,206	4.9	3.28	(36)	-22.29	(62)	-15.04	(52)	-		-		-		-12.99	(54)	07/01/2019
Russell 2000 Value Index			2.56	(48)	-21.54	(54)	-14.88	(50)	-11.62	(-)	-5.13	(-)	4.11	(-)	-12.50	(51)	
IM U.S. Small Cap Value Equity (MF) Median			2.48		-21.43		-14.93		-		-		-		-12.46		
Conestoga Small Cap I (CCALX)	2,324,540	5.0	2.73	(98)	4.88	(62)	10.53	(73)	-		-		-		5.18	(77)	07/01/2019
Russell 2000 Growth Index			7.16	(64)	3.88	(64)	15.71	(58)	2.26	(-)	8.18	(-)	11.42	(-)	8.62	(57)	
IM U.S. Small Cap Growth Equity (MF) Median			8.49		8.36		18.09		-		-		-		9.38		
<b>Total International Developed Equity</b>	<b>6,879,104</b>	<b>14.9</b>	<b>9.66</b>		<b>4.53</b>		<b>15.08</b>		-		-		-		<b>10.47</b>		<b>07/01/2019</b>
EuroPacific Growth R6 (RERGX)	6,879,104	14.9	9.66	(7)	4.43	(8)	14.97	(9)	-		-		-		10.38	(9)	07/01/2019
MSCI AC World ex USA (Net)			6.25	(31)	-5.44	(38)	3.00	(38)	0.86	(-)	1.16	(-)	6.23	(-)	0.92	(38)	
IM International Large Cap Core Equity (MF) Median			5.40		-6.39		0.99		-		-		-		-0.73		

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



The Woodlands Firefighters' Retirement System  
Asset Allocation & Performance Trailing Returns

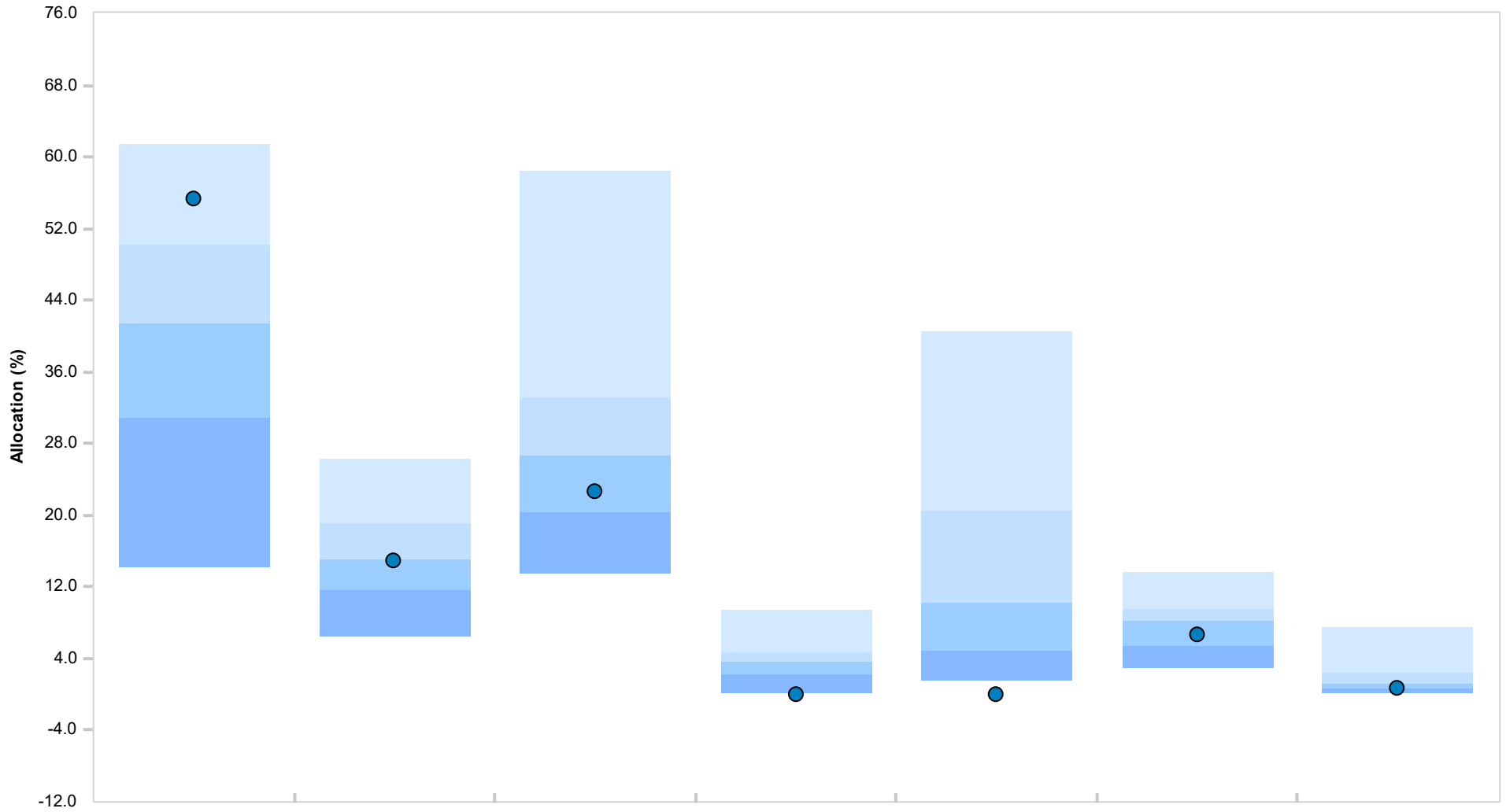
As of September 30, 2020

	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 Fixed Income</b>	<b>10,418,351</b>	<b>22.6</b>	<b>1.04</b>	<b>6.20</b>	<b>6.27</b>	<b>6.10</b>	<b>4.26</b>	<b>3.18</b>	<b>3.04</b>	<b>03/01/2015</b>
<b>Total Core Fixed Income</b>	<b>9,270,124</b>	<b>20.1</b>	<b>0.83</b>	<b>7.12</b>	<b>7.01</b>	-	-	-	<b>7.56</b>	<b>07/01/2019</b>
Garcia Hamilton	9,270,124	20.1	0.83 (69)	7.19 (56)	7.15 (63)	-	-	-	7.67 (62)	07/01/2019
Blmbg. Barc. U.S. Aggregate Index			0.62 (86)	6.79 (73)	6.98 (77)	8.63 (-)	5.24 (-)	4.18 (-)	7.46 (78)	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			1.11	7.33	7.55	-	-	-	7.99	
<b>Total Bank Loans</b>	<b>1,148,227</b>	<b>2.5</b>	<b>2.96</b>	<b>-1.37</b>	<b>0.02</b>	-	-	-	<b>1.00</b>	<b>07/01/2019</b>
Pacific Funds Floating Rate (PLFRX)	1,148,227	2.5	2.96 (83)	-1.37 (30)	0.02 (32)	-	-	-	1.01 (26)	07/01/2019
Credit Suisse Leveraged Loan Index			4.12 (14)	-0.82 (16)	0.83 (15)	1.96 (-)	3.16 (-)	4.03 (-)	1.40 (17)	
IM U.S. Bank Loans (MF) Median			3.54	-2.15	-0.58	-	-	-	0.33	
<b>Total Real Estate</b>	<b>3,033,979</b>	<b>6.6</b>	<b>0.67 (44)</b>	<b>0.21 (39)</b>	<b>2.20 (34)</b>	-	-	-	<b>2.20 (34)</b>	<b>10/01/2019</b>
NCREIF Fund Index-Open End Diversified Core (EW)			0.57 (50)	0.20 (40)	1.73 (50)	3.93 (-)	5.53 (-)	6.99 (-)	1.73 (50)	
IM U.S. Open End Private Real Estate (SA+CF) Median			0.55	0.13	1.73	-	-	-	1.73	
Clarion	3,033,979	6.6	0.67 (44)	0.21 (39)	2.20 (34)	-	-	-	2.20 (34)	10/01/2019
NCREIF Fund Index-Open End Diversified Core (EW)			0.57 (50)	0.20 (40)	1.73 (50)	3.93 (-)	5.53 (-)	6.99 (-)	1.73 (50)	
IM U.S. Open End Private Real Estate (SA+CF) Median			0.55	0.13	1.73	-	-	-	1.73	
<b>Total Cash</b>	<b>278,486</b>	<b>0.6</b>	<b>0.23</b>	<b>0.66</b>	<b>1.02</b>	-	-	-	<b>1.29</b>	<b>07/01/2019</b>
Frost Bank Cash Account	-27,180	-0.1	0.00	0.69	0.99	-	-	-	1.21	07/01/2019
Mutual Fund Cash	305,666	0.7	0.25	0.61	1.02	-	-	-	1.29	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**



	<b>US Equity</b>	<b>Intl. Equity</b>	<b>US Fixed Income</b>	<b>Intl. Fixed Income</b>	<b>Alternative Inv.</b>	<b>Real Estate</b>	<b>Cash</b>
● Total Fund	55.24 (12)	14.94 (51)	22.63 (66)	0.00	0.00	6.59 (66)	0.60 (75)
5th Percentile	61.34	26.22	58.35	9.42	40.54	13.56	7.53
1st Quartile	50.15	19.16	33.13	4.72	20.51	9.65	2.40
Median	41.32	15.02	26.69	3.63	10.30	8.22	1.19
3rd Quartile	30.92	11.67	20.36	2.22	4.83	5.45	0.59
95th Percentile	14.12	6.53	13.48	0.08	1.51	2.87	0.07

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



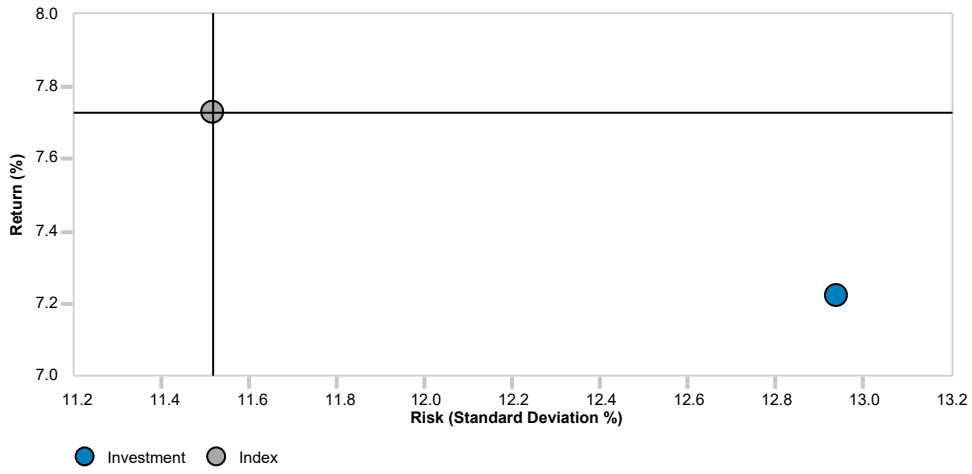
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.22	12.94	0.47	108.74	9	117.64	3
Index	7.73	11.52	0.56	100.00	9	100.00	3

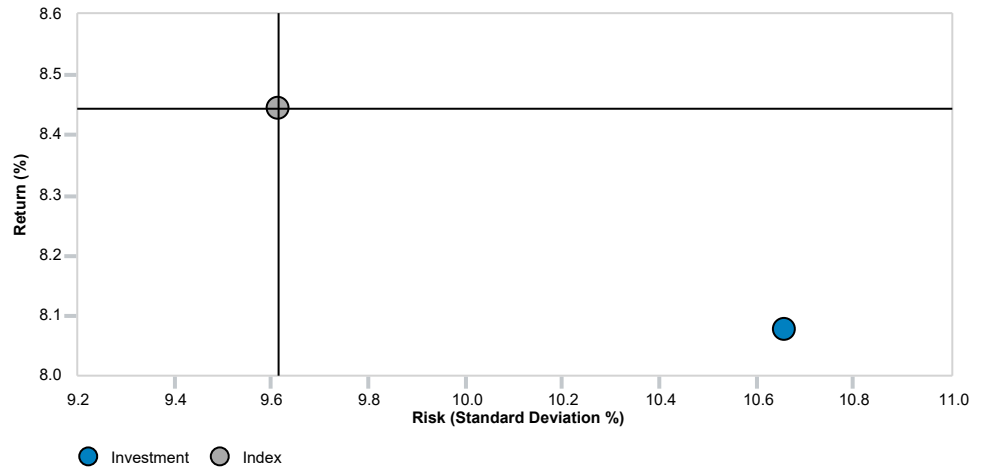
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.07	10.66	0.67	104.50	17	112.19	3
Index	8.44	9.62	0.77	100.00	17	100.00	3

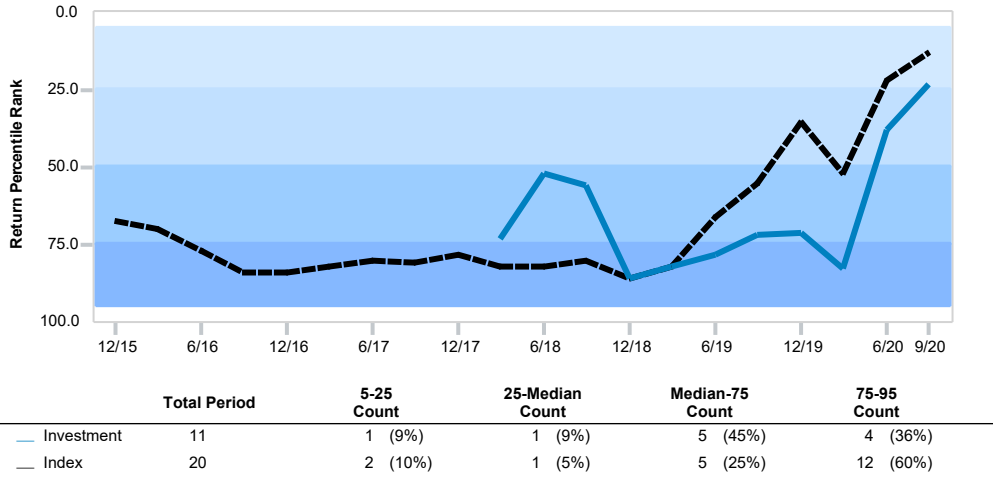
**Risk and Return 3 Years**



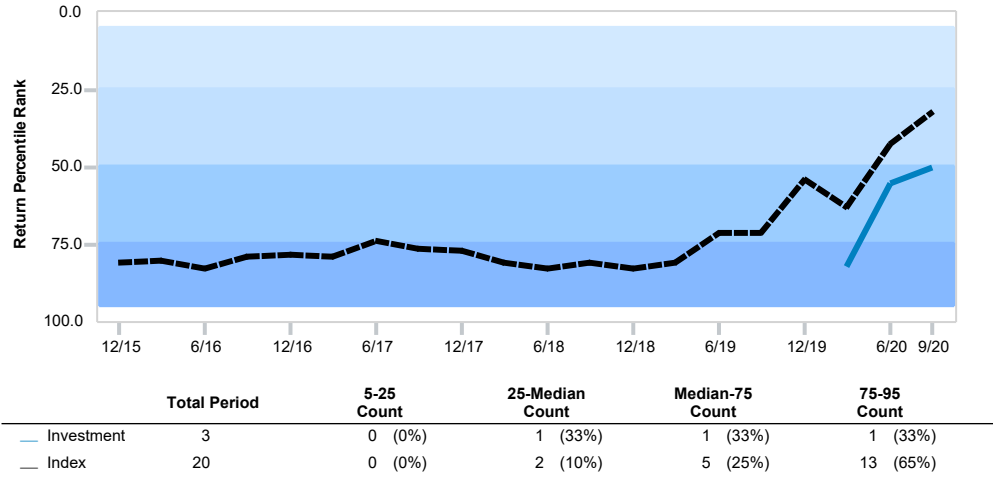
**Risk and Return 5 Years**



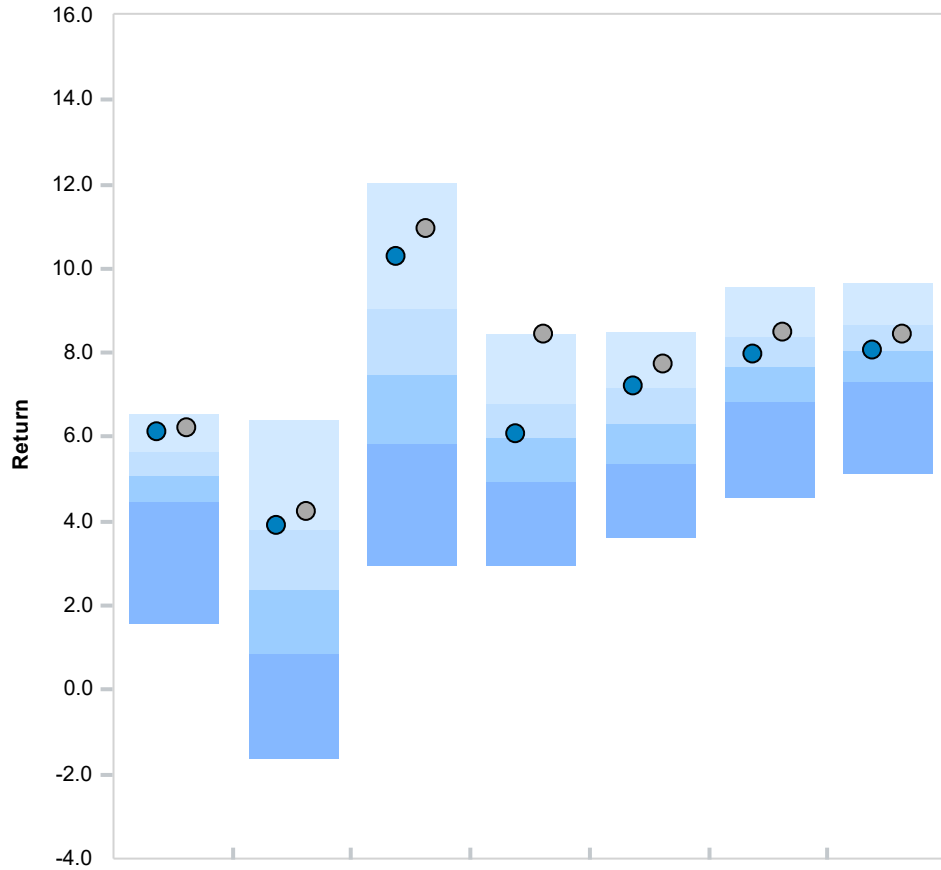
**3 Year Rolling Percentile Rank All Public Plans-Total Fund**



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

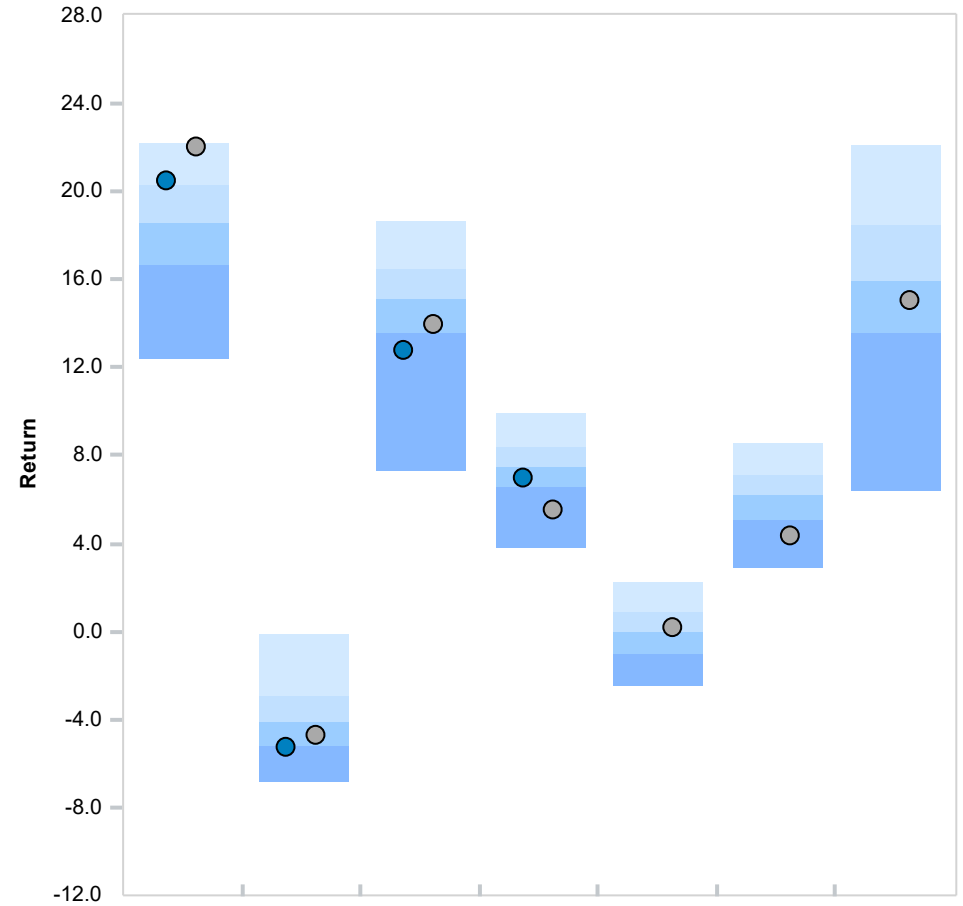


**Peer Group Analysis - All Public Plans-Total Fund**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	6.11 (11)	3.88 (24)	10.29 (14)	6.08 (46)	7.22 (23)	7.97 (38)	8.07 (50)
● Index	6.21 (10)	4.23 (20)	10.96 (10)	8.45 (5)	7.73 (13)	8.46 (24)	8.44 (32)
Median	5.06	2.39	7.49	5.96	6.30	7.66	8.07

**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	18.58	-4.15	15.08	7.48	0.00	6.19	15.90

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	15.83 (7)	-15.48 (85)	6.17 (14)	0.65 (64)	3.43 (30)	8.99 (31)
Index	14.90 (11)	-14.59 (73)	6.46 (8)	0.99 (36)	4.73 (1)	8.37 (51)
Median	12.24	-13.15	5.25	0.83	3.26	8.43



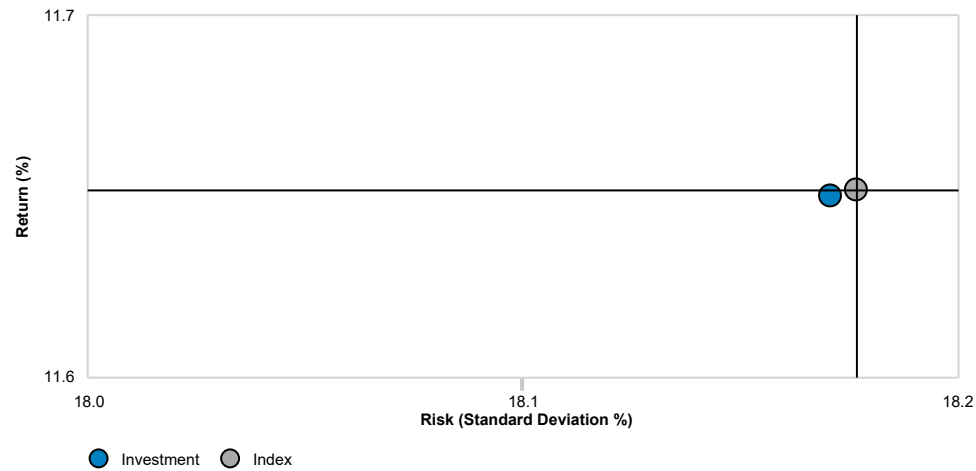
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.65	18.17	0.61	99.97	9	99.97	3
Index	11.65	18.18	0.61	100.00	9	100.00	3

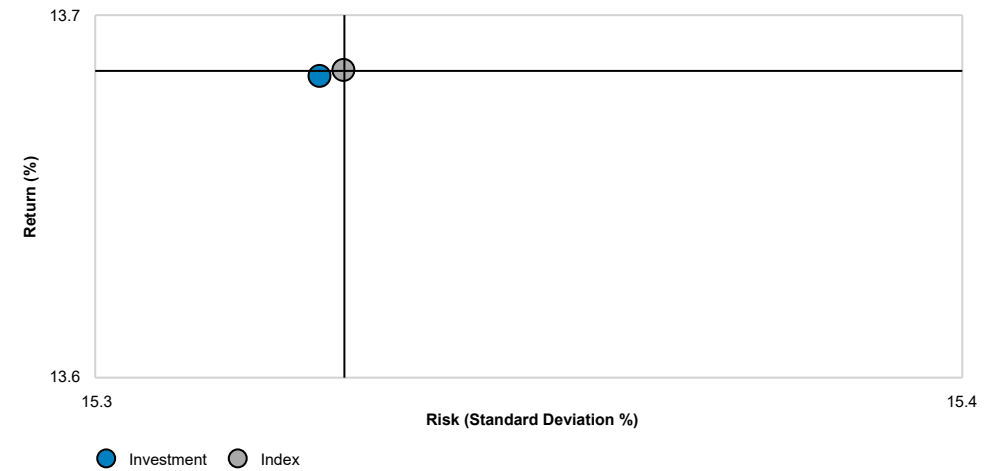
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.68	15.33	0.84	99.98	17	99.98	3
Index	13.69	15.33	0.84	100.00	17	100.00	3

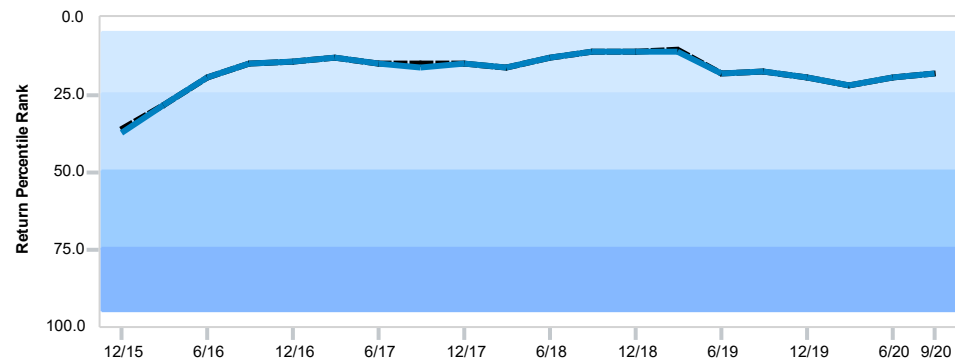
**Risk and Return 3 Years**



**Risk and Return 5 Years**

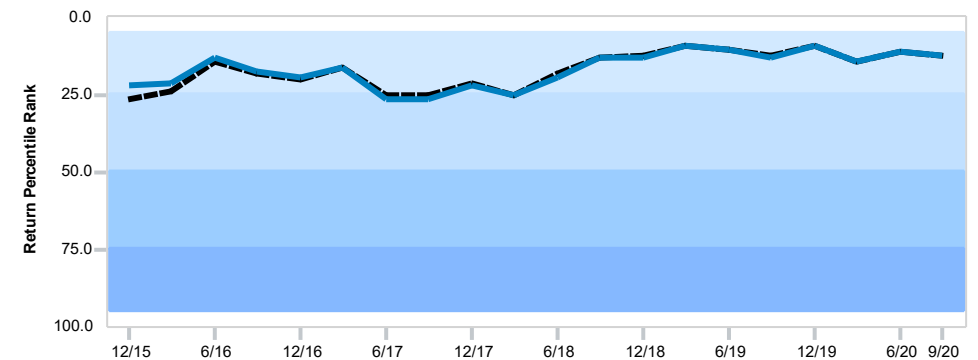


**3 Year Rolling Percentile Rank IM U.S. Multi-Cap Core Equity (MF)**



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

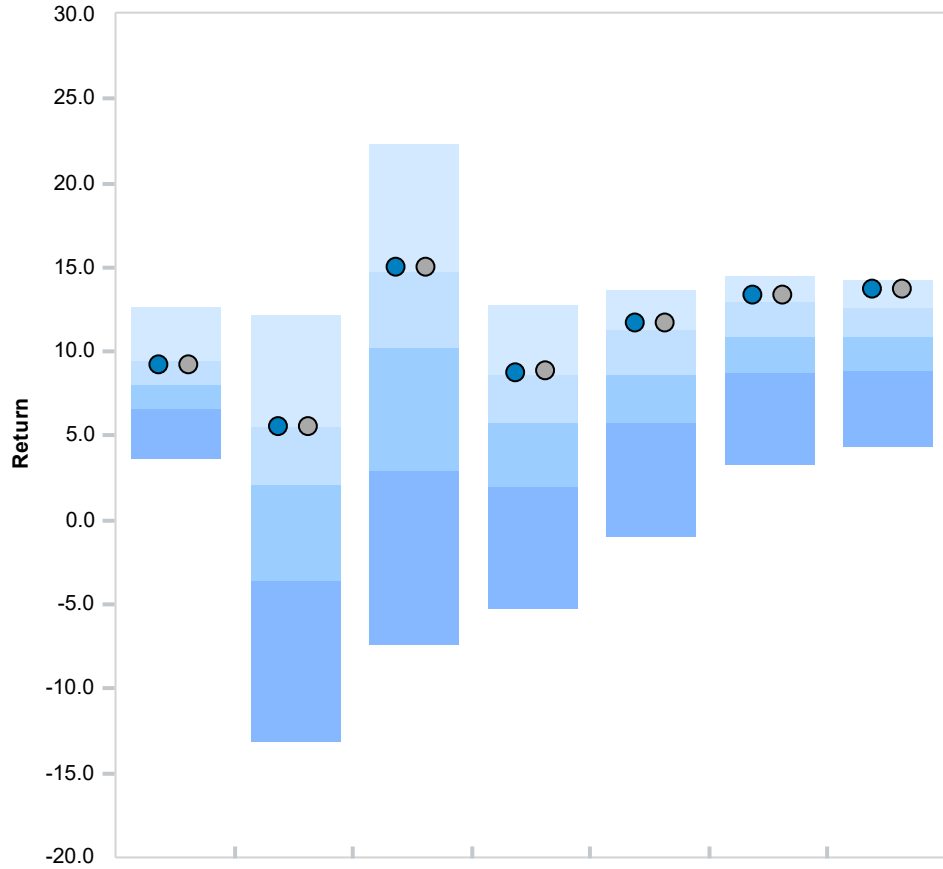
**5 Year Rolling Percentile Rank IM U.S. Multi-Cap Core Equity (MF)**



	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	19 (95%)	1 (5%)	0 (0%)	0 (0%)

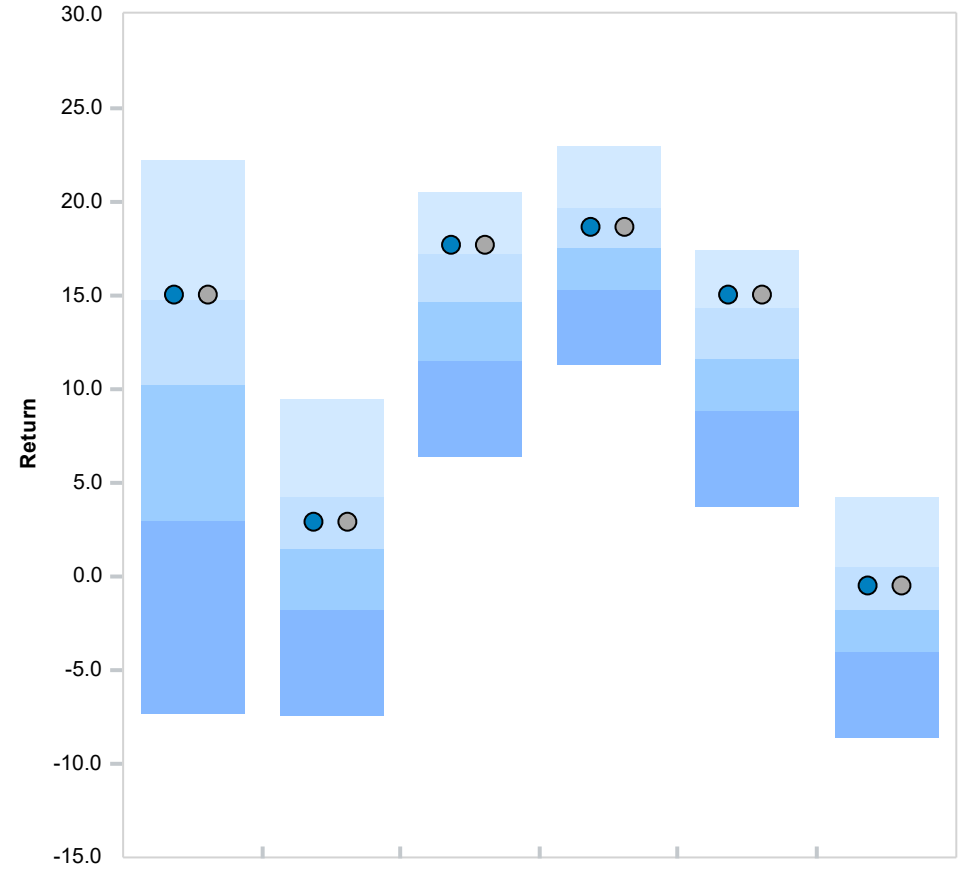


**Peer Group Analysis - IM U.S. Multi-Cap Core Equity (MF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	9.19 (30)	5.50 (26)	15.01 (22)	8.78 (22)	11.65 (18)	13.36 (18)	13.68 (12)
● Index	9.20 (29)	5.49 (26)	14.99 (23)	8.78 (22)	11.65 (18)	13.36 (17)	13.69 (12)
Median	7.96	2.11	10.21	5.83	8.64	10.80	10.86

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



	Oct-2019 To Sep-2020	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
● Investment	15.01 (22)	2.89 (38)	17.62 (18)	18.64 (38)	15.00 (16)	-0.57 (35)
● Index	14.99 (23)	2.92 (37)	17.62 (18)	18.64 (37)	14.99 (16)	-0.55 (34)
Median	10.21	1.47	14.71	17.56	11.62	-1.80

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	22.10 (38)	-20.86 (38)	9.01 (29)	1.09 (47)	4.09 (41)	14.04 (31)
Index	22.09 (38)	-20.88 (39)	9.00 (30)	1.11 (45)	4.08 (43)	14.06 (31)
Median	21.51	-21.69	8.07	1.00	3.87	13.29



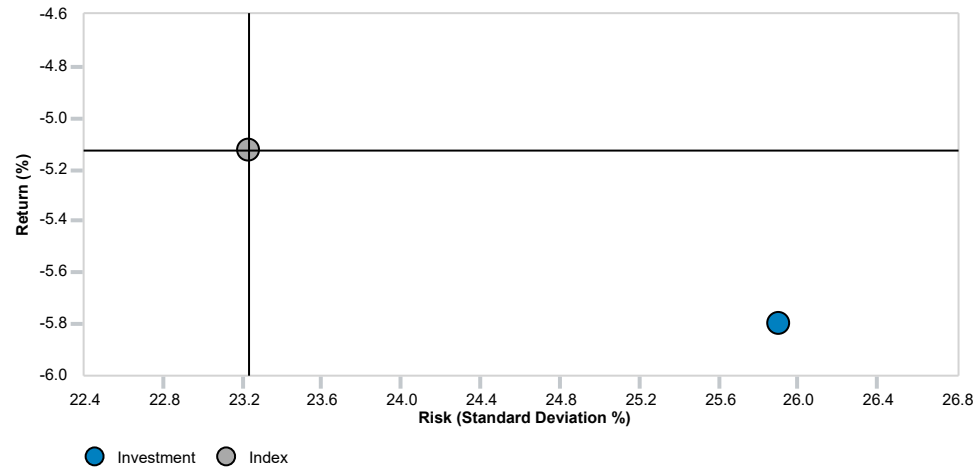
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-5.80	25.91	-0.15	112.80	8	111.71	4
Index	-5.13	23.23	-0.17	100.00	8	100.00	4

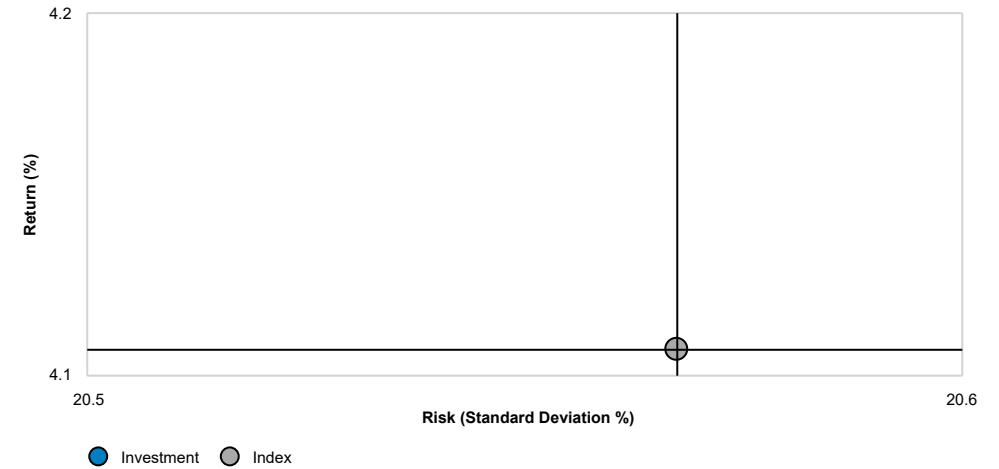
**Historical Statistics 5 Years**

	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	4.11	20.57	0.25	100.00	15	100.00	5

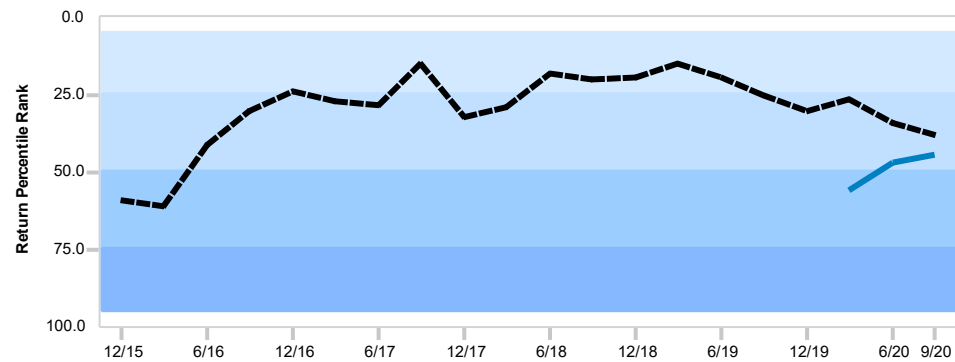
**Risk and Return 3 Years**



**Risk and Return 5 Years**

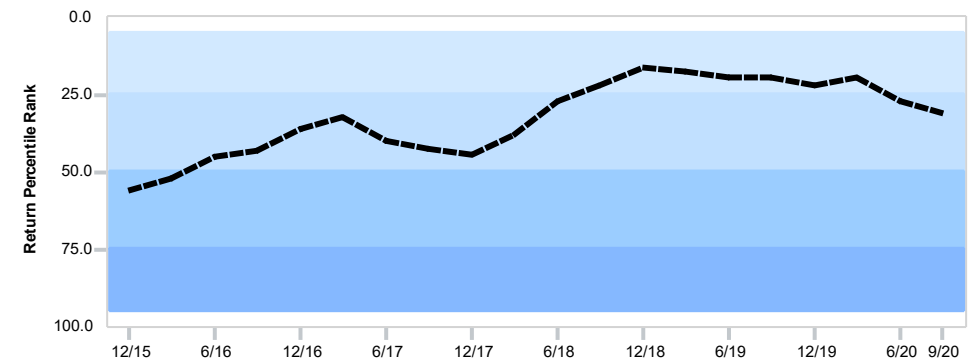


**3 Year Rolling Percentile Rank IM U.S. Small Cap Value Equity (MF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	3	0 (0%)	2 (67%)	1 (33%)	0 (0%)
Index	20	8 (40%)	10 (50%)	2 (10%)	0 (0%)

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

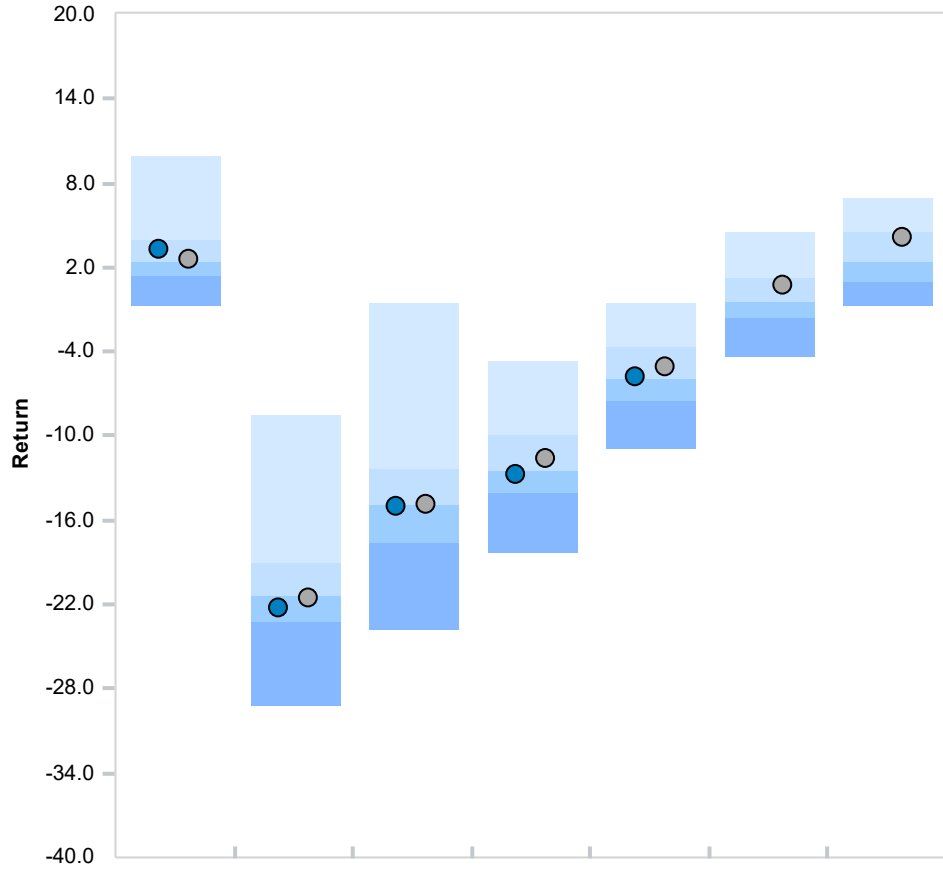


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	7 (35%)	11 (55%)	2 (10%)	0 (0%)

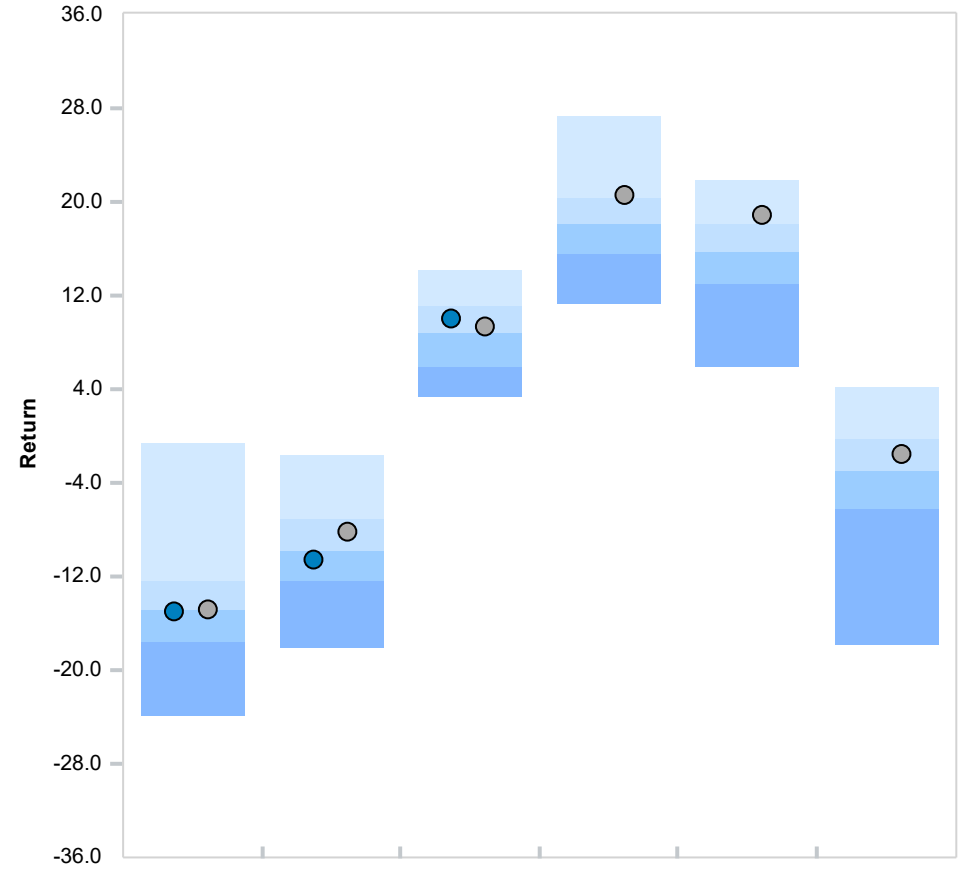




**Peer Group Analysis - IM U.S. Small Cap Value Equity (MF)**



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



**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	22.16 (48)	-38.40 (62)	9.33 (17)	-1.09 (63)	1.78 (26)	12.21 (56)
Index	18.91 (82)	-35.66 (38)	8.49 (37)	-0.57 (50)	1.38 (37)	11.93 (63)
Median	21.79	-37.33	8.16	-0.60	0.75	12.39



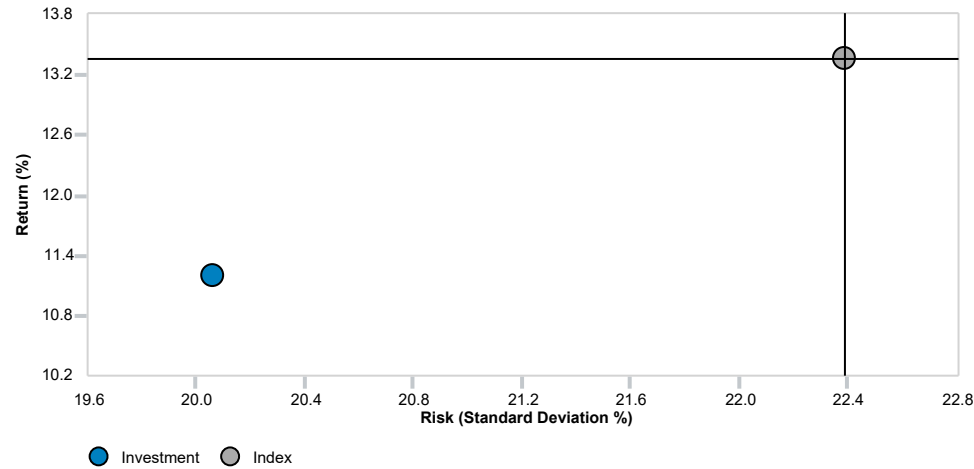
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.19	20.06	0.55	91.39	9	96.69	3
Index	13.36	22.39	0.60	100.00	9	100.00	3

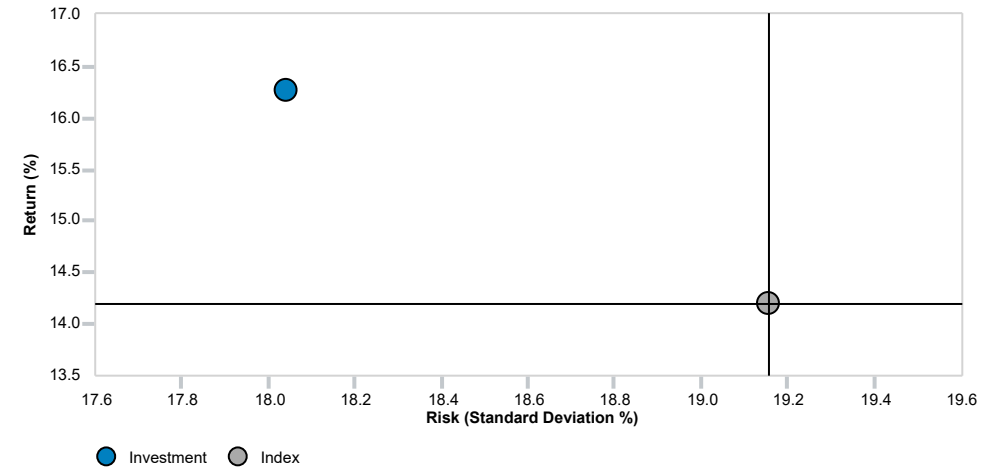
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	16.26	18.04	0.86	100.62	16	91.75	4
Index	14.19	19.16	0.73	100.00	16	100.00	4

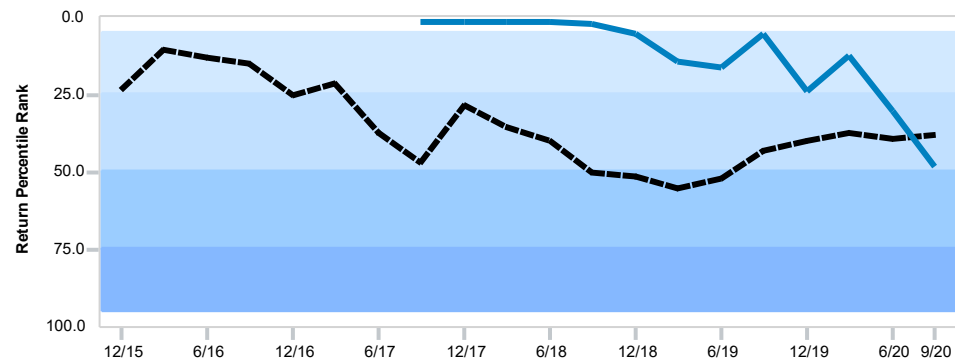
**Risk and Return 3 Years**



**Risk and Return 5 Years**

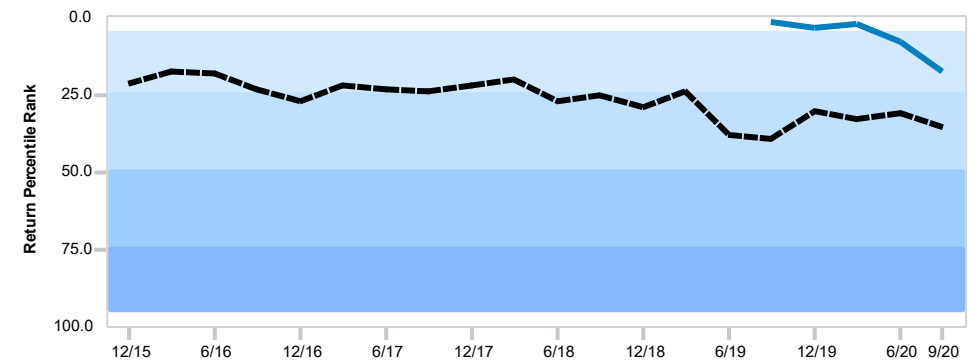


**3 Year Rolling Percentile Rank IM U.S. Small Cap Growth Equity (MF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	13	11 (85%)	2 (15%)	0 (0%)	0 (0%)
Index	20	6 (30%)	11 (55%)	3 (15%)	0 (0%)

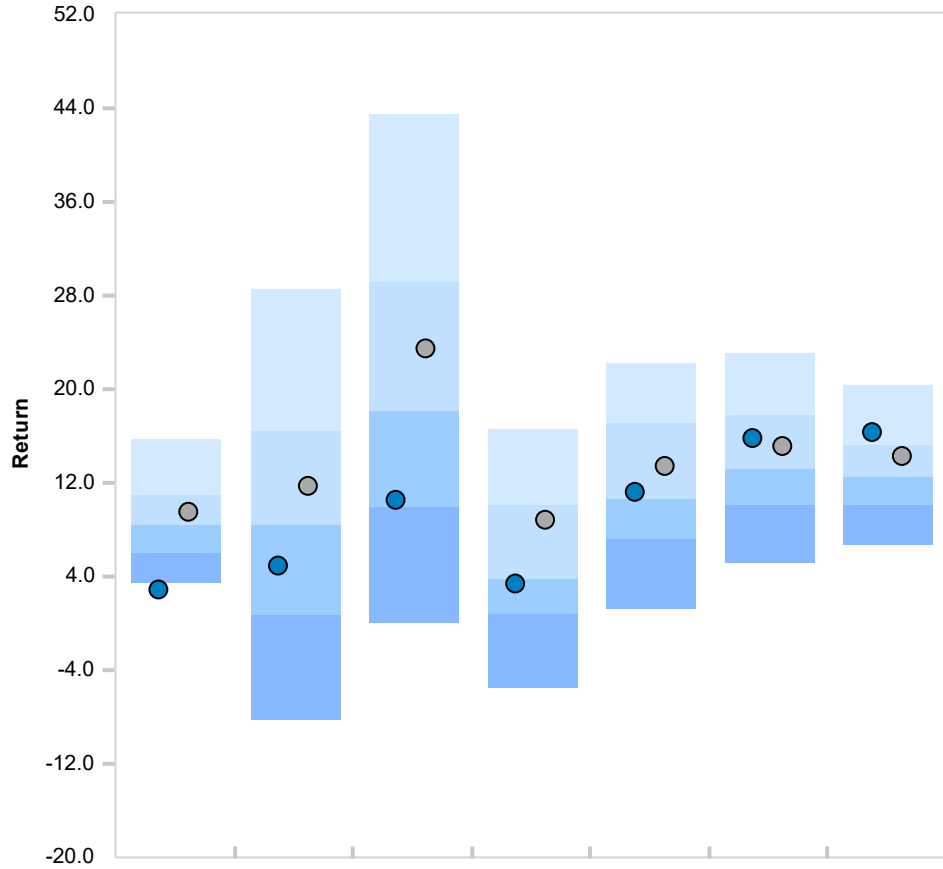
**5 Year Rolling Percentile Rank IM U.S. Small Cap Growth Equity (MF)**



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

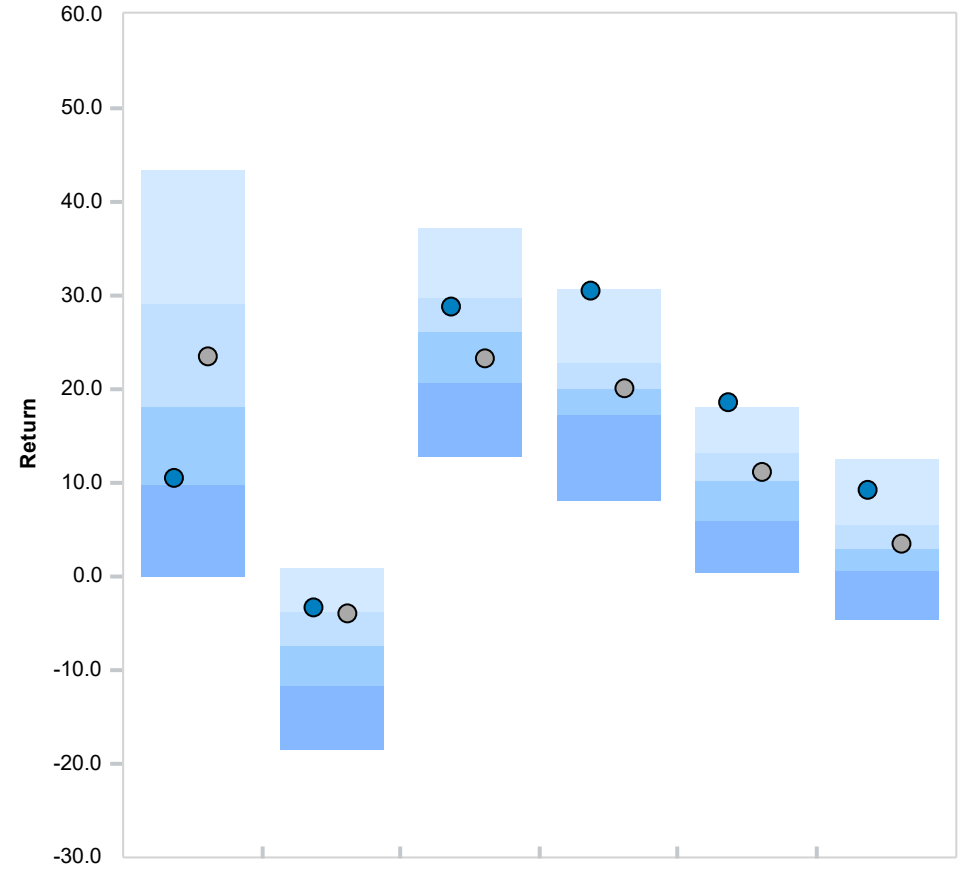


**Peer Group Analysis - IM U.S. Small Cap Growth Equity (MF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	2.73 (98)	4.88 (62)	10.53 (73)	3.34 (57)	11.19 (48)	15.72 (33)	16.26 (17)
● Index	9.37 (35)	11.58 (38)	23.37 (36)	8.76 (29)	13.36 (38)	15.00 (38)	14.19 (35)
Median	8.49	8.36	18.09	3.82	10.59	13.24	12.44

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



	Oct-2019 To Sep-2020	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
● Investment	10.53 (73)	-3.39 (22)	28.75 (33)	30.43 (6)	18.44 (4)	9.18 (11)
● Index	23.37 (36)	-4.11 (27)	23.13 (64)	20.07 (50)	11.02 (45)	3.35 (48)
Median	18.09	-7.55	26.09	20.02	10.27	3.07

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	26.46 (87)	-19.27 (11)	5.39 (97)	-3.63 (39)	9.39 (3)	12.90 (91)
Index	32.87 (39)	-23.22 (39)	10.57 (43)	-3.18 (32)	4.14 (45)	18.99 (33)
Median	31.19	-24.19	9.92	-4.47	3.74	16.89



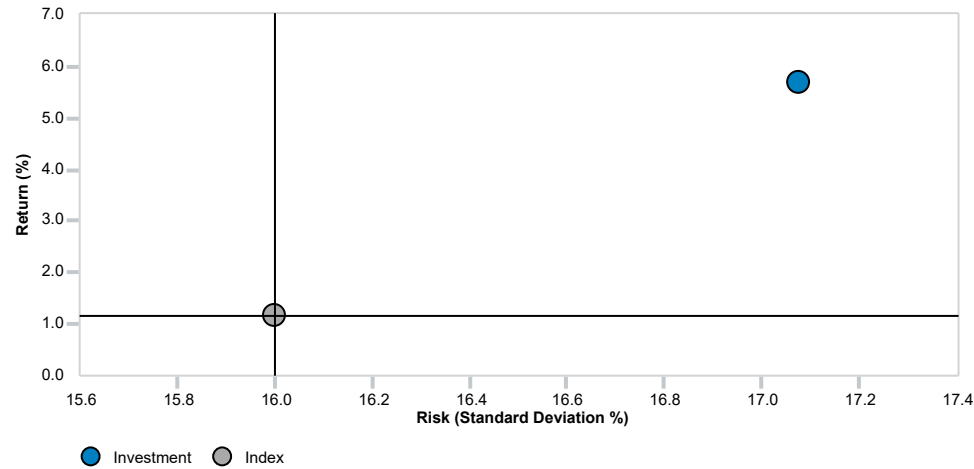
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.67	17.08	0.31	114.40	7	94.33	5
Index	1.16	16.00	0.05	100.00	7	100.00	5

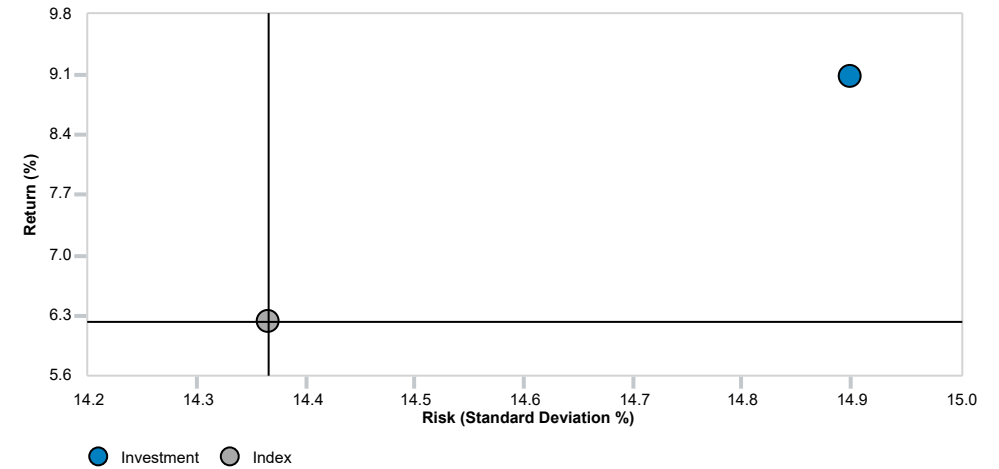
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	9.08	14.90	0.58	107.88	12	94.49	8
Index	6.23	14.37	0.41	100.00	12	100.00	8

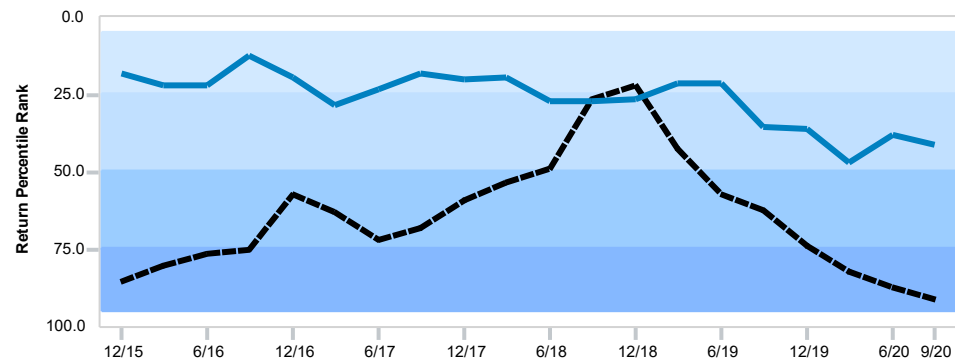
**Risk and Return 3 Years**



**Risk and Return 5 Years**

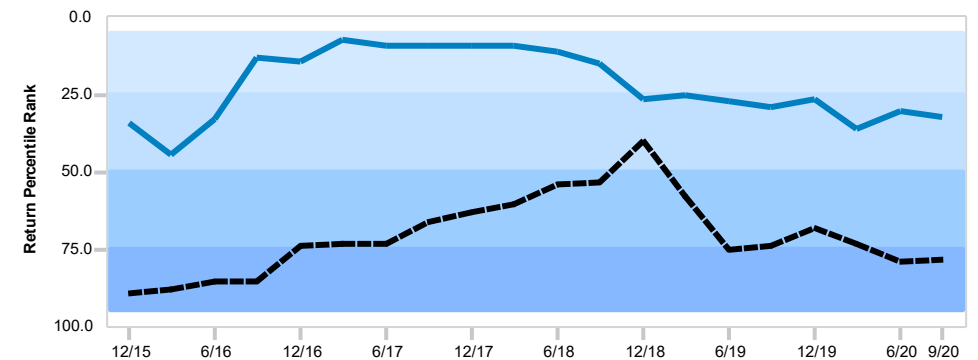


**3 Year Rolling Percentile Rank IM International Large Cap Growth Equity (MF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	11 (55%)	9 (45%)	0 (0%)	0 (0%)
Index	20	1 (5%)	3 (15%)	10 (50%)	6 (30%)

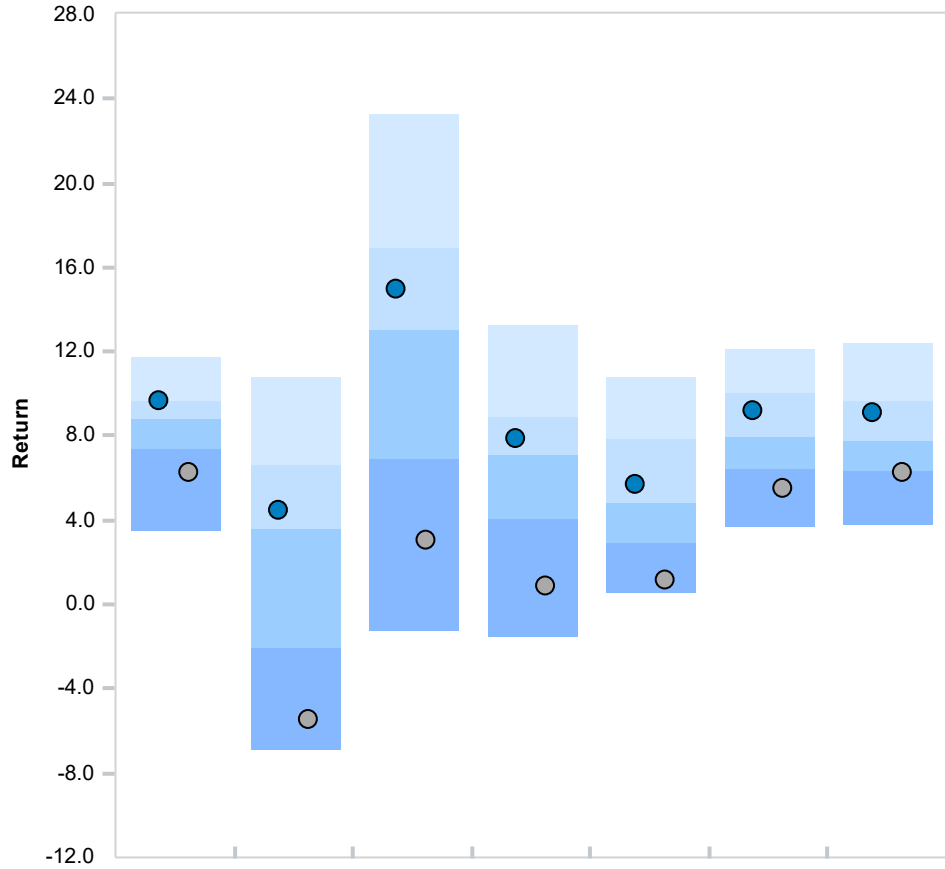
**5 Year Rolling Percentile Rank IM International Large Cap Growth Equity (MF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	10 (50%)	10 (50%)	0 (0%)	0 (0%)
Index	20	0 (0%)	1 (5%)	13 (65%)	6 (30%)

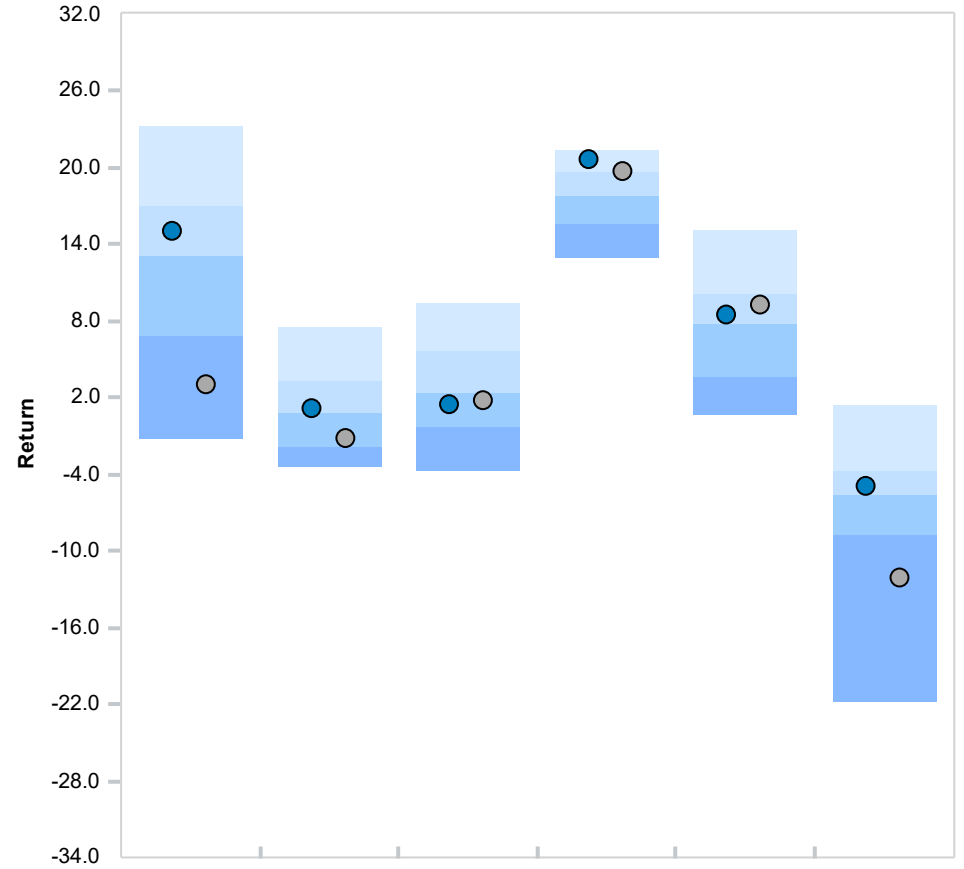


**Peer Group Analysis - IM International Large Cap Growth Equity (MF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	9.66 (25)	4.43 (35)	14.97 (35)	7.84 (40)	5.67 (41)	9.23 (33)	9.08 (32)
● Index	6.25 (90)	-5.44 (92)	3.00 (88)	0.86 (90)	1.16 (91)	5.49 (86)	6.23 (78)
Median	8.76	3.61	13.05	7.08	4.86	7.99	7.79

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



	Oct-2019 To Sep-2020	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
● Investment	14.97 (35)	1.14 (44)	1.47 (60)	20.63 (8)	8.52 (38)	-4.93 (34)
● Index	3.00 (88)	-1.23 (68)	1.76 (57)	19.61 (26)	9.26 (33)	-12.16 (89)
Median	13.05	0.81	2.28	17.85	7.77	-5.68

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	22.77 (5)	-22.43 (80)	10.09 (24)	-1.59 (57)	3.87 (72)	13.20 (25)
Index	16.12 (80)	-23.36 (90)	8.92 (53)	-1.80 (72)	2.98 (93)	10.31 (95)
Median	18.02	-20.42	9.00	-1.46	4.44	12.52



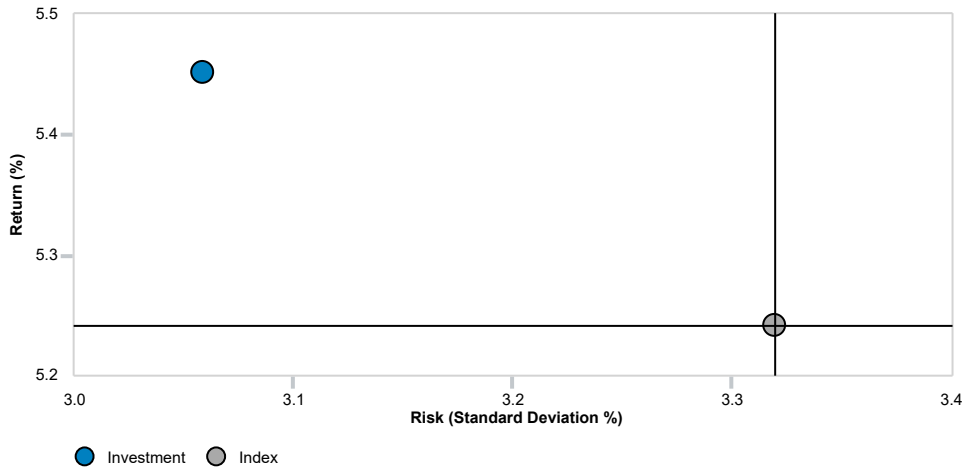
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.45	3.06	1.19	94.39	9	72.79	3
Index	5.24	3.32	1.06	100.00	10	100.00	2

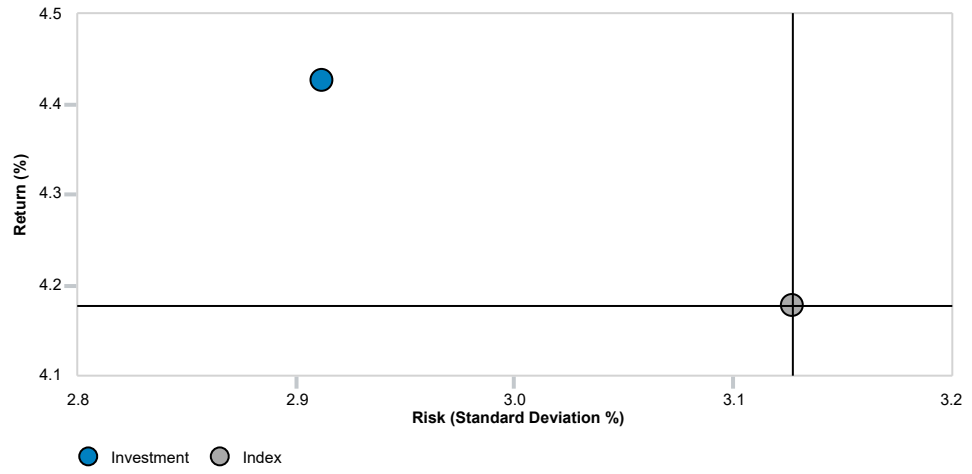
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	4.43	2.91	1.10	94.67	15	74.39	5
Index	4.18	3.13	0.96	100.00	16	100.00	4

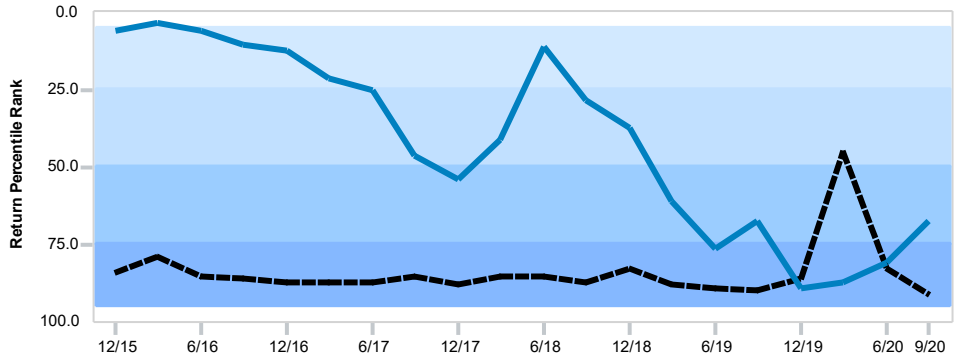
**Risk and Return 3 Years**



**Risk and Return 5 Years**

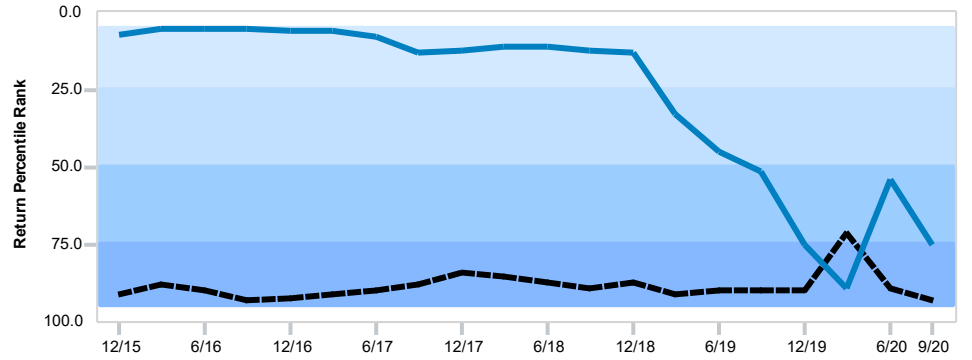


**3 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	8 (40%)	4 (20%)	4 (20%)	4 (20%)
Index	20	0 (0%)	1 (5%)	0 (0%)	19 (95%)

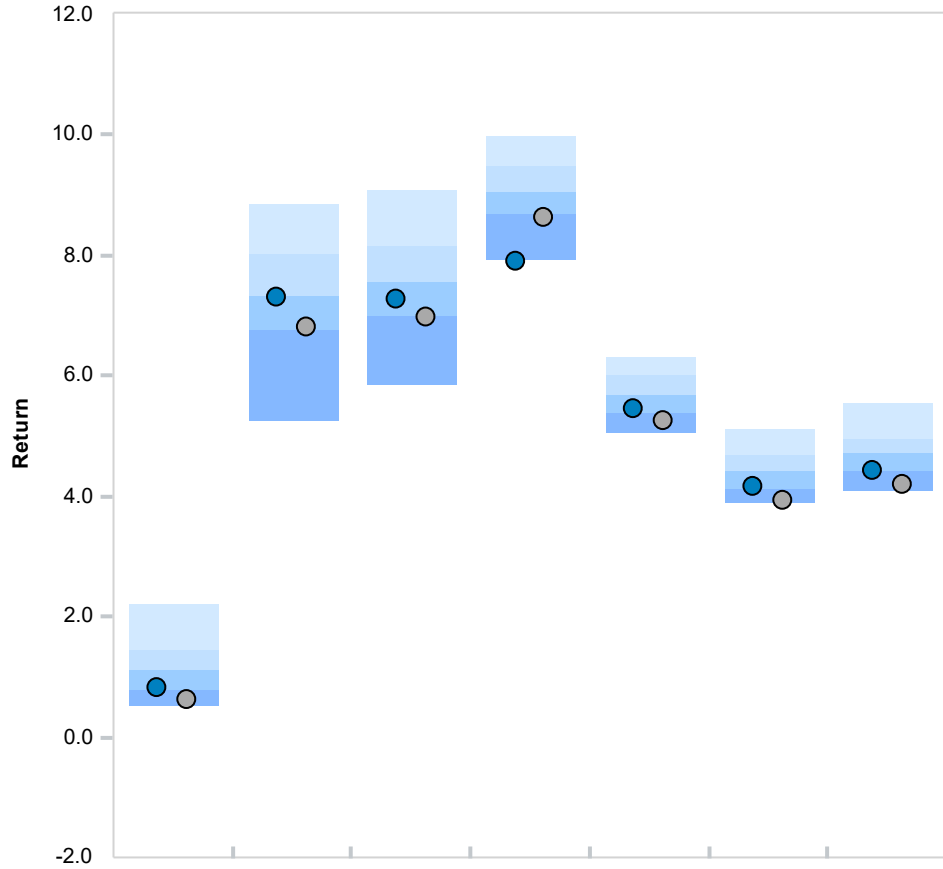
**5 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	13 (65%)	2 (10%)	4 (20%)	1 (5%)
Index	20	0 (0%)	0 (0%)	1 (5%)	19 (95%)

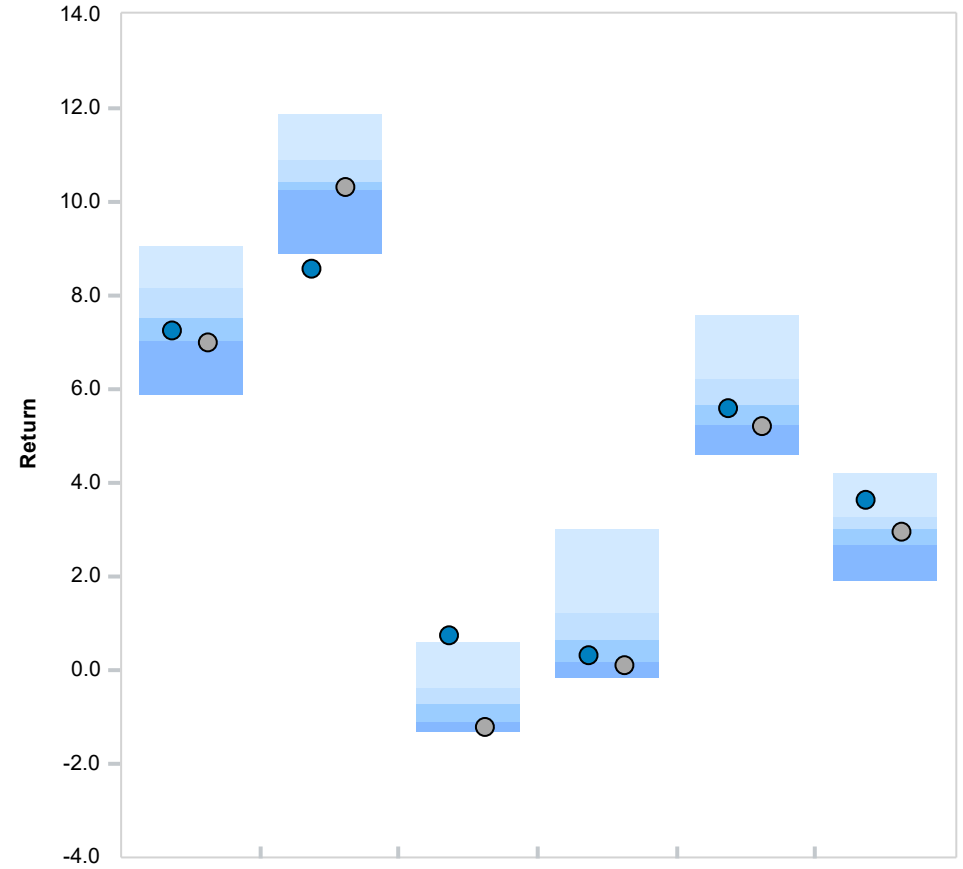


**Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (SA+CF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	0.80 (72)	7.31 (53)	7.25 (59)	7.90 (97)	5.45 (67)	4.14 (74)	4.43 (75)
● Index	0.62 (86)	6.79 (73)	6.98 (77)	8.63 (80)	5.24 (91)	3.93 (93)	4.18 (93)
Median	1.11	7.33	7.55	9.06	5.67	4.42	4.73

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



	Oct-2019 To Sep-2020	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
● Investment	7.25 (59)	8.54 (96)	0.73 (4)	0.31 (68)	5.58 (56)	3.63 (10)
● Index	6.98 (77)	10.30 (70)	-1.22 (88)	0.07 (84)	5.19 (80)	2.94 (62)
Median	7.55	10.44	-0.74	0.63	5.66	3.02

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	4.85 (33)	1.53 (60)	-0.05 (89)	2.39 (36)	2.31 (96)	2.43 (96)
Index	2.90 (89)	3.15 (24)	0.18 (57)	2.27 (70)	3.08 (70)	2.94 (82)
Median	4.37	1.94	0.22	2.33	3.13	3.21



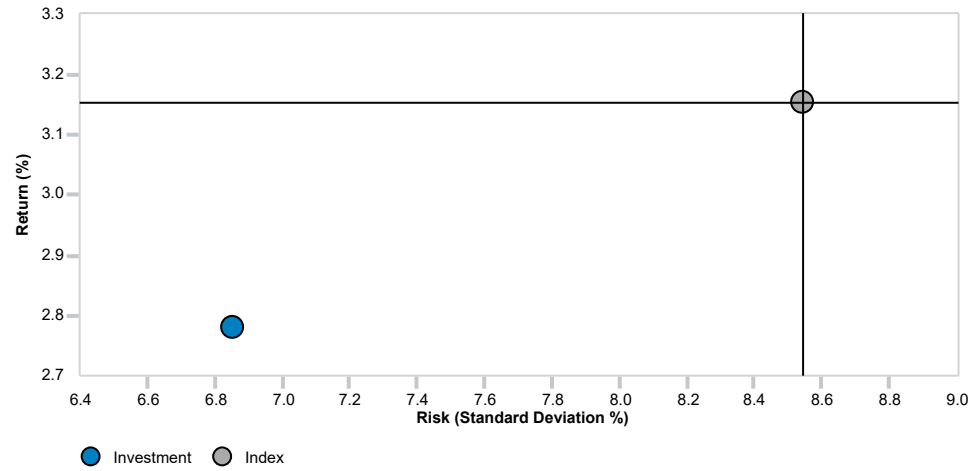
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.78	6.85	0.19	83.55	10	82.47	2
Index	3.16	8.54	0.21	100.00	10	100.00	2

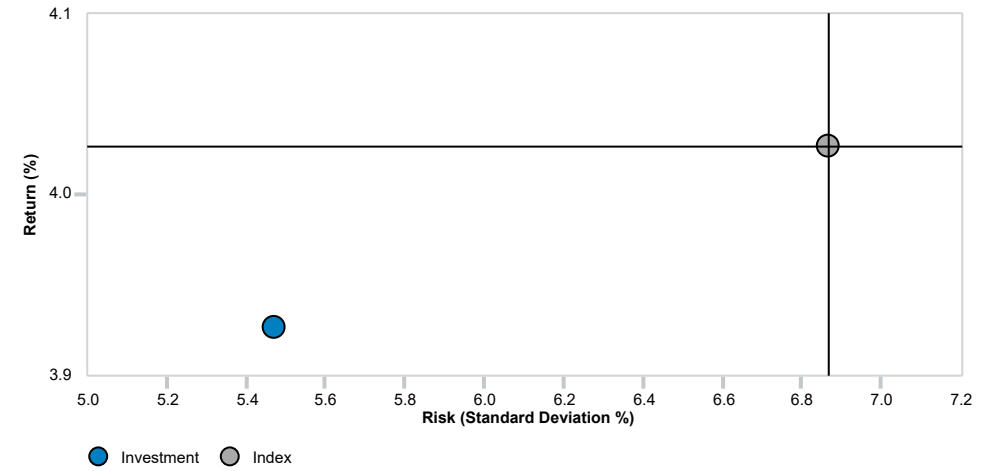
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.93	5.47	0.51	84.42	17	73.62	3
Index	4.03	6.87	0.43	100.00	17	100.00	3

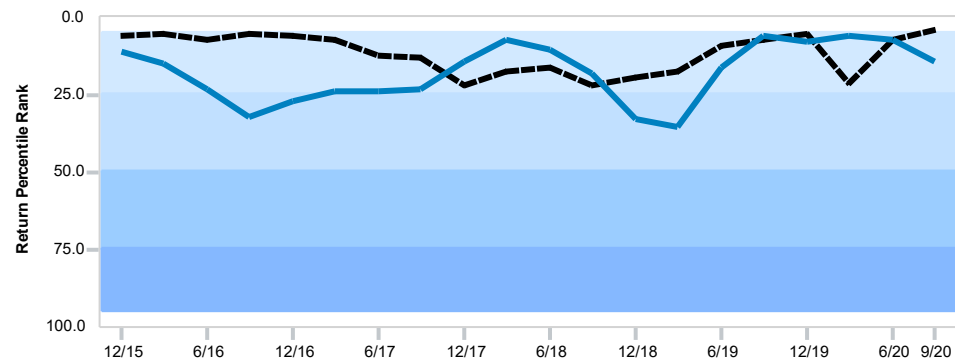
**Risk and Return 3 Years**



**Risk and Return 5 Years**

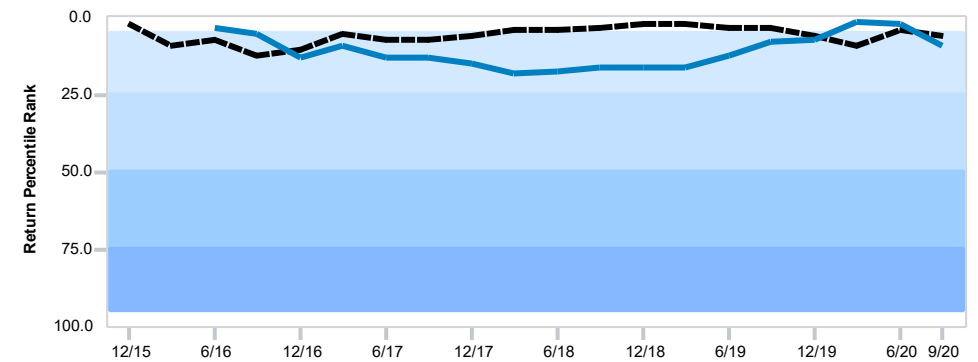


**3 Year Rolling Percentile Rank IM U.S. Bank Loans (MF)**



	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)**

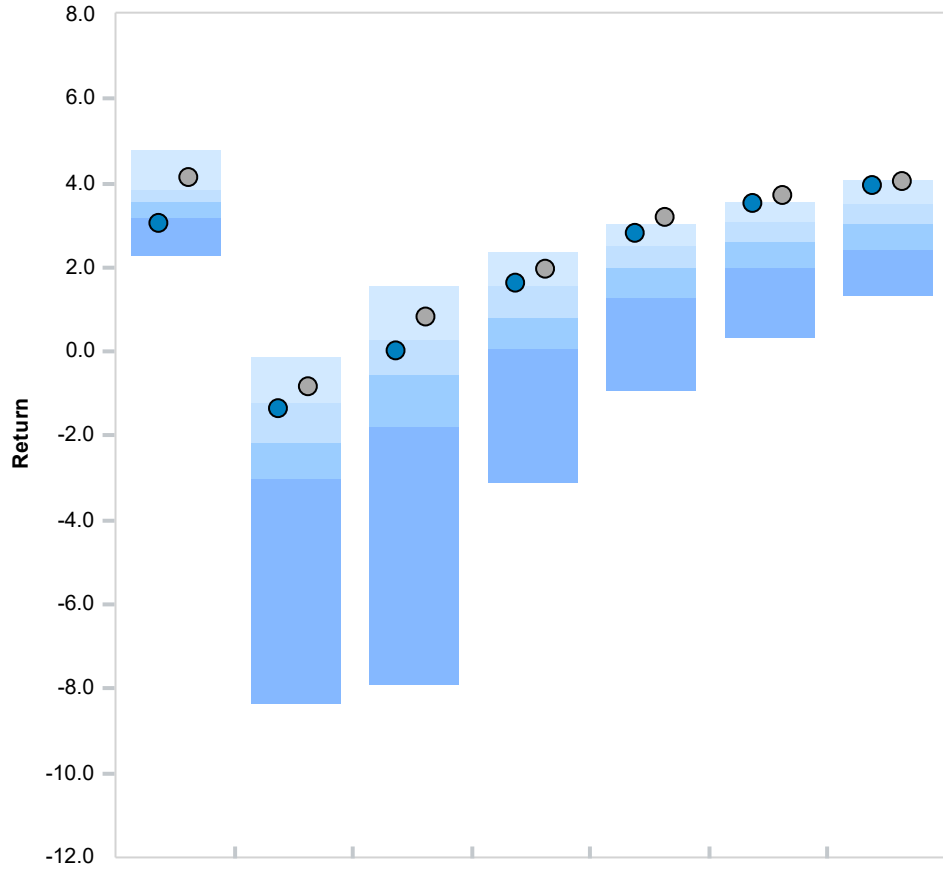


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	18	18 (100%)	0 (0%)	0 (0%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)



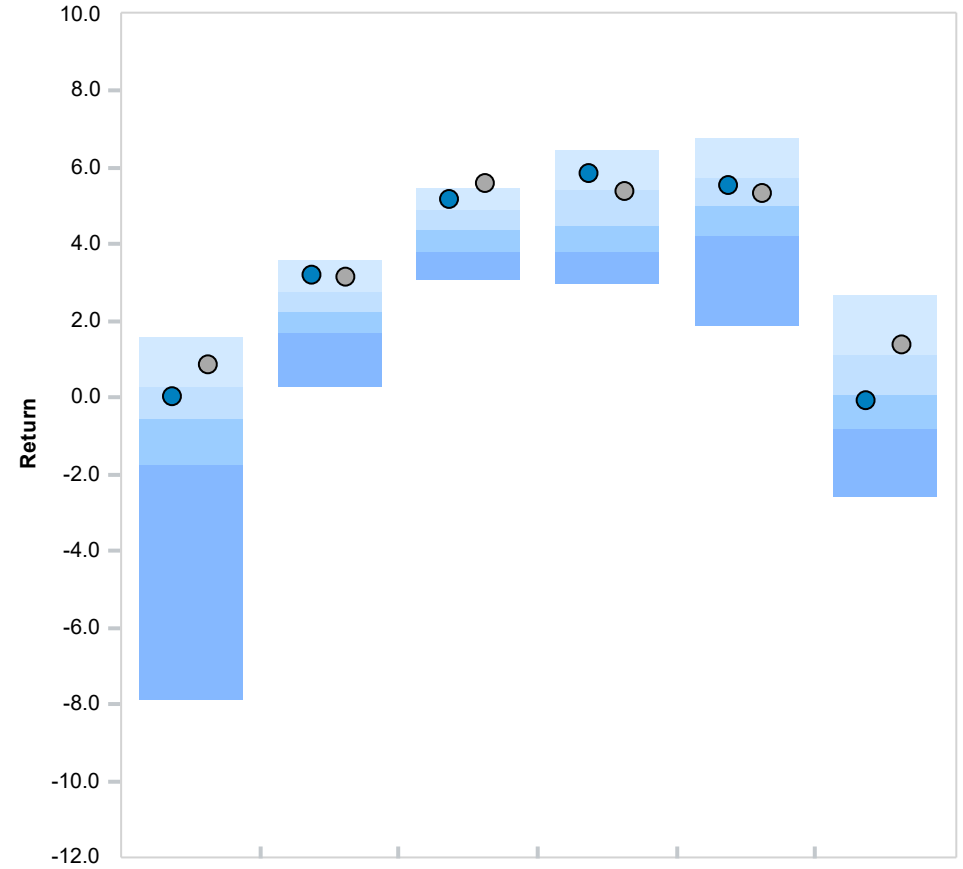


**Peer Group Analysis - IM U.S. Bank Loans (MF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	3.03 (80)	-1.35 (29)	0.01 (32)	1.60 (23)	2.78 (14)	3.53 (6)	3.93 (9)
● Index	4.12 (14)	-0.82 (16)	0.83 (15)	1.96 (13)	3.16 (4)	3.70 (4)	4.03 (6)
Median	3.54	-2.15	-0.58	0.81	1.99	2.59	3.03

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



	Oct-2019 To Sep-2020	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
● Investment	0.01 (32)	3.21 (15)	5.18 (13)	5.81 (17)	5.53 (33)	-0.10 (59)
● Index	0.83 (15)	3.11 (18)	5.58 (5)	5.36 (26)	5.34 (38)	1.34 (22)
Median	-0.58	2.24	4.37	4.48	5.01	0.08

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	6.84 (79)	-10.39 (10)	1.38 (65)	1.26 (11)	1.64 (20)	3.79 (49)
Index	9.71 (23)	-13.18 (54)	1.67 (29)	0.92 (41)	1.58 (25)	3.78 (51)
Median	8.22	-13.10	1.51	0.81	1.34	3.78



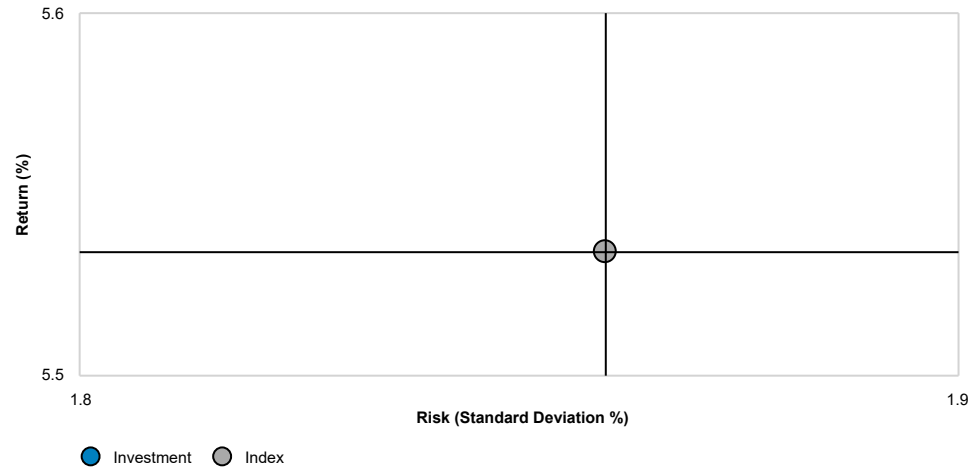
**Historical Statistics 3 Years**

	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	5.53	1.86	2.26	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	6.99	1.79	3.02	100.00	19	100.00	1

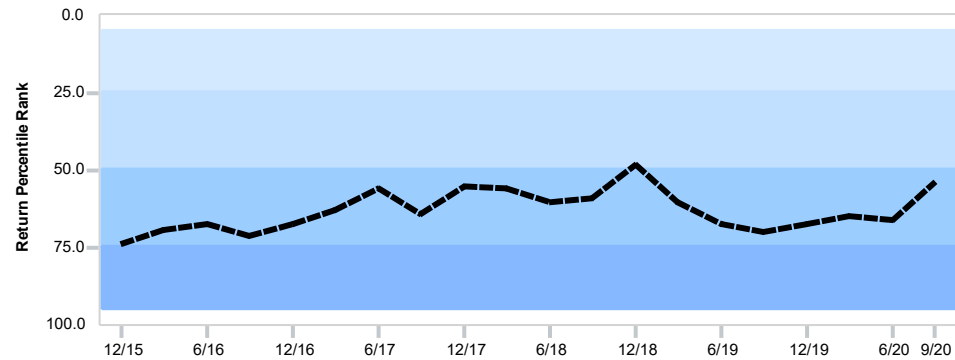
**Risk and Return 3 Years**



**Risk and Return 5 Years**

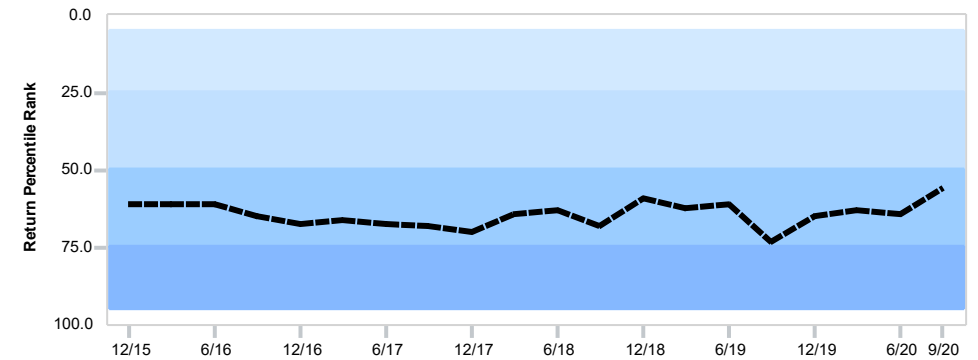


**3 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	0 (0%)	1 (5%)	19 (95%)	0 (0%)

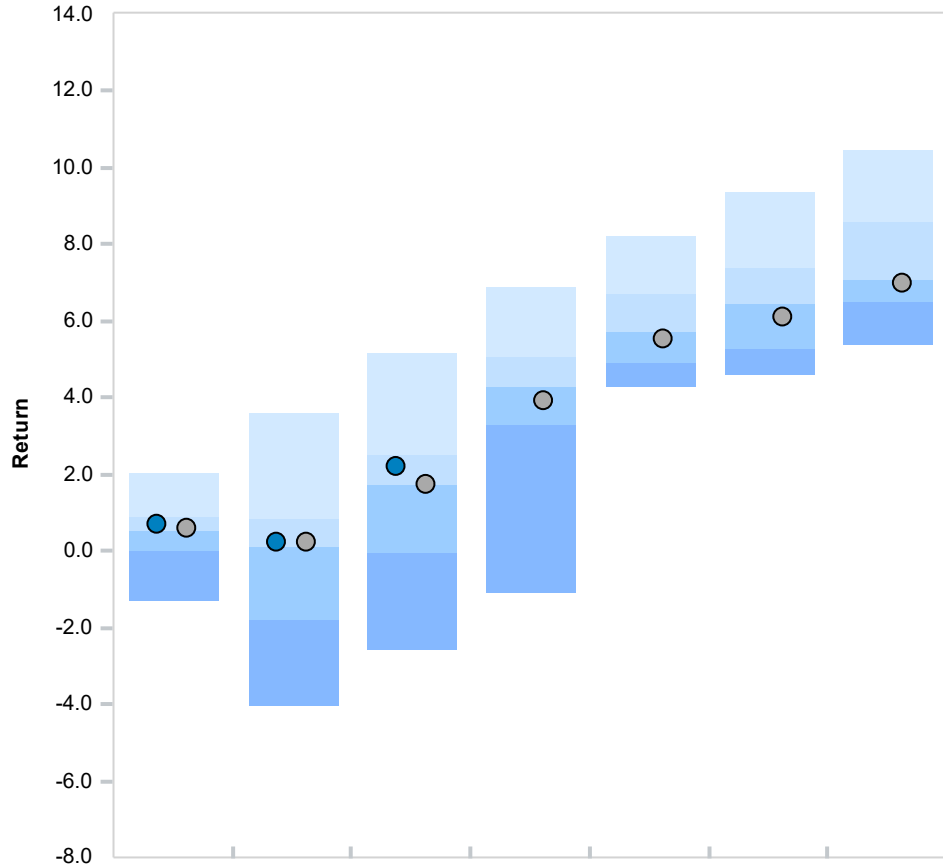
**5 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)**



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

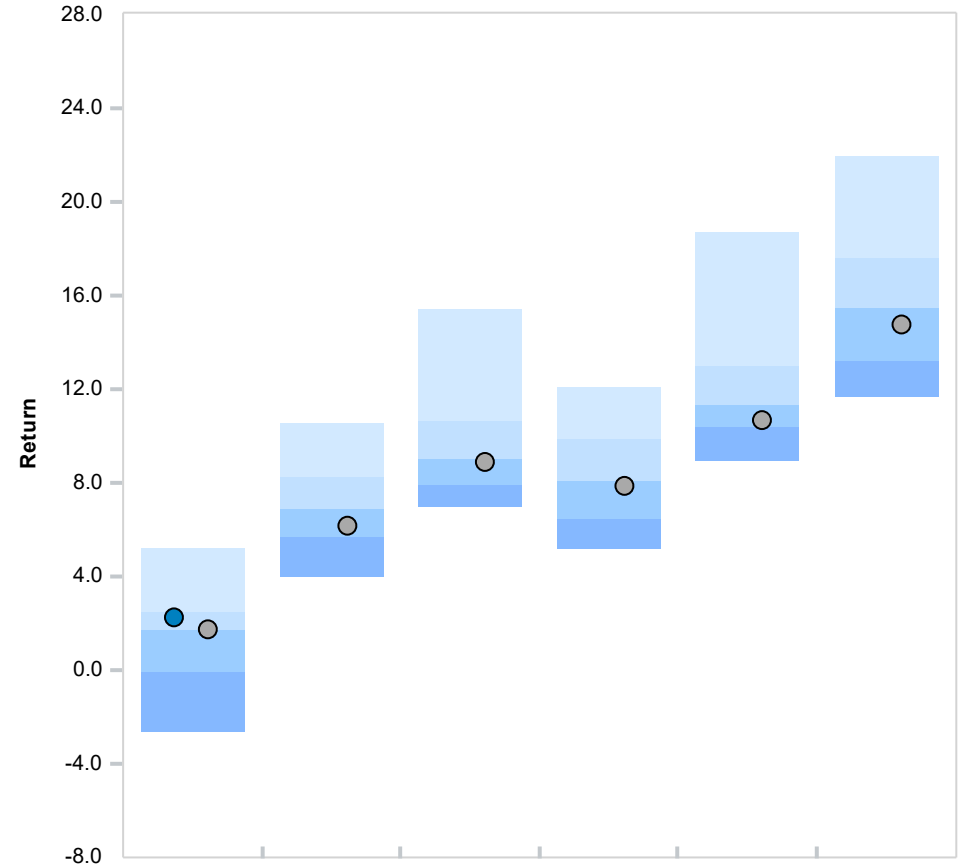


**Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF)**



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	0.67 (44)	0.21 (39)	2.20 (34)	N/A	N/A	N/A	N/A
● Index	0.57 (50)	0.20 (40)	1.73 (50)	3.93 (68)	5.53 (54)	6.10 (58)	6.99 (56)
Median	0.55	0.13	1.73	4.27	5.75	6.46	7.07

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



	Oct-2019 To Sep-2020	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
● Investment	2.20 (34)	N/A	N/A	N/A	N/A	N/A
● Index	1.73 (50)	6.17 (72)	8.82 (59)	7.81 (56)	10.62 (68)	14.71 (61)
Median	1.73	6.89	9.04	8.05	11.32	15.45

**Comparative Performance**

	1 Qtr Ending Jun-2020	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
Investment	-1.82 (67)	1.39 (47)	1.99 (35)	N/A	N/A	N/A
Index	-1.27 (59)	0.92 (67)	1.53 (58)	1.39 (75)	1.34 (61)	1.69 (76)
Median	-1.22	1.31	1.61	1.75	1.44	1.99



**The Woodlands Firefighters' Retirement System**  
**Comparative Performance Trailing Performance Composite Returns**  
As of September 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>9.19</b>	<b>5.50</b>	<b>15.01</b>	<b>8.78</b>	<b>11.65</b>	<b>13.68</b>	<b>7.88</b>	<b>08/01/1997</b>
CRSP U.S. Total Market TR Index	9.20	5.49	14.99	8.78	11.65	13.69	N/A	
<b>American Beacon SC Value R6 (AASRX)</b>	<b>3.28</b>	<b>-22.29</b>	<b>-15.04</b>	<b>-12.83</b>	<b>-5.80</b>	<b>N/A</b>	<b>-3.87</b>	<b>03/01/2017</b>
Russell 2000 Value Index	2.56	-21.54	-14.88	-11.62	-5.13	4.11	-3.02	
<b>Conestoga Small Cap I (CCALX)</b>	<b>2.73</b>	<b>4.88</b>	<b>10.53</b>	<b>3.34</b>	<b>11.19</b>	<b>16.26</b>	<b>13.72</b>	<b>09/01/2014</b>
Russell 2000 Growth Index	7.16	3.88	15.71	2.26	8.18	11.42	9.02	
<b>International Developed Equity</b>								
<b>EuroPacific Growth R6 (RERGX)</b>	<b>9.66</b>	<b>4.43</b>	<b>14.97</b>	<b>7.84</b>	<b>5.67</b>	<b>9.08</b>	<b>8.18</b>	<b>06/01/2009</b>
MSCI AC World ex USA (Net)	6.25	-5.44	3.00	0.86	1.16	6.23	5.75	
<b>Core Fixed Income</b>								
<b>Garcia Hamilton (Gross of Fees)</b>	<b>0.80</b>	<b>7.31</b>	<b>7.25</b>	<b>7.90</b>	<b>5.45</b>	<b>4.43</b>	<b>6.29</b>	<b>01/01/1992</b>
Blmbg. Barc. U.S. Aggregate Index	0.62	6.79	6.98	8.63	5.24	4.18	5.56	
<b>Bank Loans</b>								
<b>Pacific Funds Floating Rate (PLFRX)</b>	<b>3.03</b>	<b>-1.35</b>	<b>0.01</b>	<b>1.60</b>	<b>2.78</b>	<b>3.93</b>	<b>4.13</b>	<b>07/01/2011</b>
Credit Suisse Leveraged Loan Index	4.12	-0.82	0.83	1.96	3.16	4.03	4.12	
<b>Real Estate</b>								
<b>Clarion Lion Properties Fund</b>	<b>0.67</b>	<b>0.21</b>	<b>2.20</b>	<b>4.72</b>	<b>6.36</b>	<b>7.69</b>	<b>7.47</b>	<b>04/01/2000</b>
NCREIF Fund Index-Open End Diversified Core (EW)	0.57	0.20	1.73	3.93	5.53	6.99	7.64	

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 September 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 September 30, 2020

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Vanguard Total Stock Index (VITSX)	0.03	20,872,538	6,262	0.03 % of Assets
American Beacon SC Value R6 (AASRX)	0.78	2,237,206	17,450	0.78 % of Assets
Conestoga Small Cap I (CCALX)	0.90	2,324,540	20,921	0.90 % of Assets
<b>Total Domestic Equity</b>	<b>0.18</b>	<b>25,434,284</b>	<b>44,633</b>	
EuroPacific Growth R6 (RERGX)	0.49	6,879,104	33,708	0.49 % of Assets
<b>Total International Equity</b>	<b>0.49</b>	<b>6,879,104</b>	<b>33,708</b>	
Garcia Hamilton	0.25	9,270,124	23,175	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	1,148,227	8,267	0.72 % of Assets
<b>Total Fixed Income</b>	<b>0.30</b>	<b>10,418,351</b>	<b>31,443</b>	
Clarion (Core Real Estate)	1.25	3,033,979	37,925	1.25 % of Assets
<b>Total Real Estate</b>	<b>1.25</b>	<b>3,033,979</b>	<b>37,925</b>	
Frost Bank Cash Account		-27,180	-	
Mutual Fund Cash		305,666	-	
<b>Total Cash</b>		<b>278,486</b>	<b>-</b>	
<b>Total Fund</b>	<b>0.32</b>	<b>46,044,204</b>	<b>147,708</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.

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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.



AndCo compiled this report for the sole use of the client for which it was prepared. AndCo is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. AndCo uses the results from this evaluation to make observations and recommendations to the client.

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.

This performance report is based on data obtained by the client's custodian(s), investment fund administrator, or other sources believed to be reliable. While these sources are believed to be reliable, the data providers are responsible for the accuracy and completeness of their statements. Clients are encouraged to compare the records of their custodian(s) to ensure this report fairly and accurately reflects their various asset positions.

The strategies listed may not be suitable for all investors. We believe the information provided here is reliable, but do not warrant its accuracy or completeness. Past performance is not an indication of future performance. Any information contained in this report is for informational purposes only and should not be construed to be an offer to buy or sell any securities, investment consulting, or investment management services.

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