

Investment Performance Review  
Period Ending March 31, 2022

## **Miami Springs Police & Fire Retirement System**

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# 1st Quarter 2022 Market Environment



## The Economy

- The global economy faced headwinds as Russia invaded Ukraine in February. Despite their small percentage of the global GDP, both Russia and Ukraine play significant roles in the global economy. Russia provides most of Europe's energy supplies and combined, both countries account for a large percentage of food supplies.
- Prior to the crisis in Ukraine, the global and US economies were already expected to grow at a slower rate in the 1st quarter. For the 4th quarter 2021, the US GDP grew at an annual rate of 6.9%. Estimates for the 1st quarter 2022 vary significantly, ranging between 0.5% and 2.0%.
- The US labor market remained a source of strength during the 1st quarter with the unemployment rate falling to 3.6% in March. The pace of job growth accelerated during the quarter with a three-month average of roughly +562,000. Importantly, the number of workers re-entering the workforce increased during the quarter with strong wage growth as the likely catalyst.
- The US Federal Reserve Bank (the Fed) began the process of normalizing interest rates by raising the Fed Funds rate by 0.25%. Additionally, the Fed signaled it was ready to begin the process of shrinking its balance sheet by not reinvesting up to \$95 billion of maturing bonds into new securities each month. This process is referred to as "quantitative tightening" and is meant to drain liquidity from the economy with the goal of slowing inflation.

## Equity (Domestic and International)

- US equities declined during the 1st quarter as concerns regarding the conflict in Ukraine and the potential for a slowing global economy acted as headwinds. Large cap value was the best performing domestic segment of the equity market relative to other US market capitalizations and styles during the period while small cap growth performed the worst.
- International stocks also struggled during the 1st quarter. The primary driver of performance was the conflict in Ukraine which significantly affected western Europe and emerging markets. Another contributor to poor performance was the continued strength of the US dollar, which rose against both the Euro and Yen developed market currencies and most emerging market currencies during the period. Finally, China was negatively impacted by a rise in Covid-19 infections which resulted in new restrictions in Shanghai.

## Fixed Income

- Continued concerns about rising inflation, combined with the Fed beginning to raise interest rates acted as headwinds for fixed income performance during the quarter. US interest rates moved significantly higher during the quarter with the US 10-Year Treasury bond rising 83 basis points to close at 2.34%.
- Performance across most bond market sectors was negative during the quarter, with US high yield corporate bonds and US Treasury Inflation-Protected Securities (TIPS) down the least.
- The combination of higher coupons and a shorter maturity profile relative to high quality government bonds was the primary driver of the relative outperformance of high yield bonds during the period.
- TIPS continued their strong relative performance against all other bond market sectors during the quarter. Investors' expectations of higher future US inflation remained strong as inflation remained well above the Fed's stated 2% long-term target average.

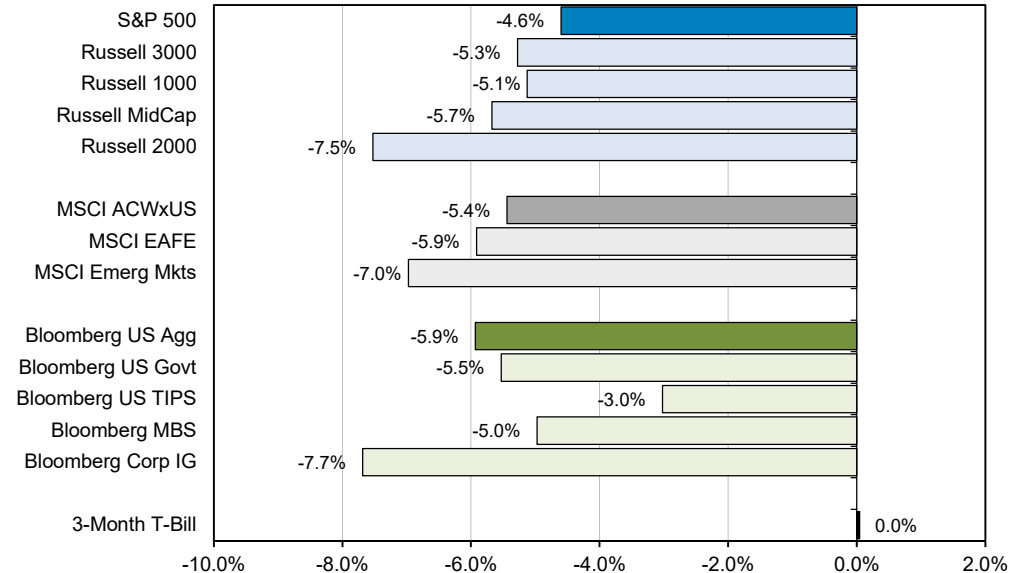
## Market Themes

- The tone of global central bank monetary policy shifted during the quarter as the Fed and the Bank of England both raised interest rates during the period. Additionally, the European Central Bank announced it would begin tightening monetary policy by slowing its bond purchases.
- The crisis in Ukraine will likely be a drag on global economic growth for the foreseeable future. Restrictions on Russian energy exports, especially to western Europe, will likely result in a material slowdown of those economies as a result of higher prices.
- US equity markets experienced their first down quarter since the onset of the pandemic in the 1st quarter of 2020. Growth-oriented stocks underperformed value stocks as investors' concerns about future economic growth increased. Historically, value stocks have outperformed growth stocks during economic slowdowns marked by recession.
- Interest rates rose across the Treasury yield curve during the quarter in anticipation of the Fed raising interest rates. As a result of their maturity profile, longer-dated bonds significantly underperformed shorter-dated bonds despite yields rising only modestly in comparison. Lower quality corporate bonds outperformed given their higher coupons and shorter maturity profiles despite concerns about widening credit spreads as economic conditions deteriorate.



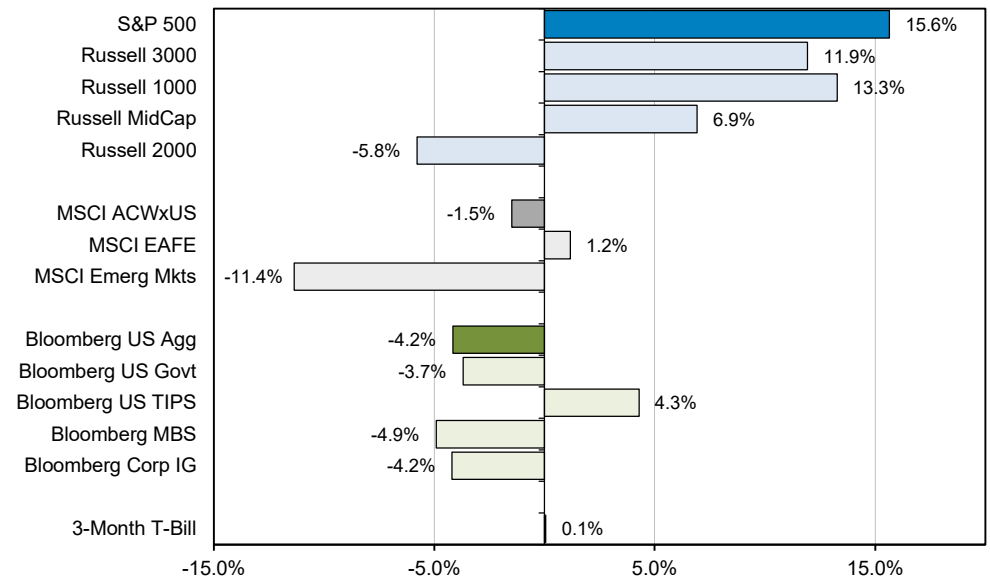
- Broad US equity markets experienced weak, negative returns during the 1st quarter of 2022. A variety of factors contributed to performance including elevated inflation, rising interest rate expectations, geopolitical events in Ukraine, and concerns related to slower economic growth. For the period, the S&P 500 large cap benchmark returned -4.6%, compared to -5.7% for mid-cap and -7.5% for small cap indices.
- Developed markets international equities also suffered negative results for the 1st quarter. Europe was negatively impacted by the crisis in Ukraine, rising energy costs, and continued rising inflation. Emerging markets were also negatively impacted by Russia's invasion of Ukraine. Emerging markets were also impacted by the rise of Covid-19 cases in China and resulting restrictions. During the period, the MSCI EAFE Index returned -5.9% while the MSCI Emerging Markets Index declined by -7.0%
- For the quarter, performance of the bond market was broadly negative due to increasing inflation and expectations that global central banks would begin the process of raising interest rates. The Bloomberg (BB) US Aggregate Index returned -5.9%, for the period while Investment Grade Corporate bonds posted a return of -7.7%. The best performing sector on a relative basis was US TIPS which declined by -3.0%.

### Quarter Performance



- Despite the recent poor performance, developed equity markets posted strong returns over the trailing 1-year period. The primary drivers of return during the period were economic growth and an accommodative monetary policy support from global central banks. The S&P 500 large cap stock index led equity market performance for the year with a return of 15.6%. The outlier was the Russell 2000 small cap index which declined by -5.8% for the year.
- Over the trailing 1-year period performance across international markets diverged with the developed market MSCI EAFE Index returning 1.2% while the MSCI Emerging Markets Index fell by -11.4%. While economic growth improved throughout the year, emerging markets were negatively impacted by geopolitical events related to Russia, Ukraine, and China.
- Bond market returns disappointed over the trailing 1-year period due to rising inflation and the expectation of multiple interest rates increases. TIPS were the lone bright spot in the bond market with the TIPS Index returning 4.3% for the year.

### 1-Year Performance

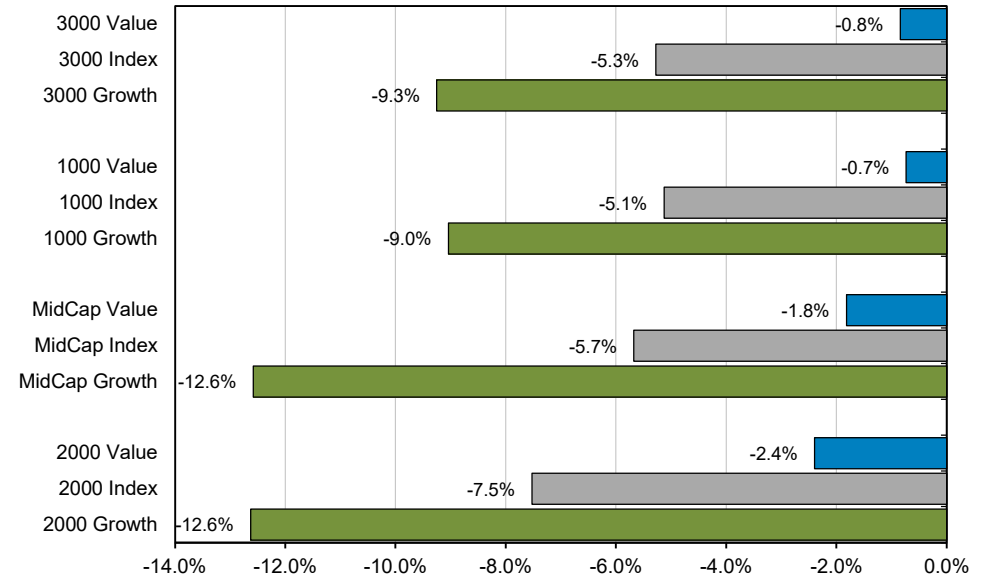


Source: Investment Metrics



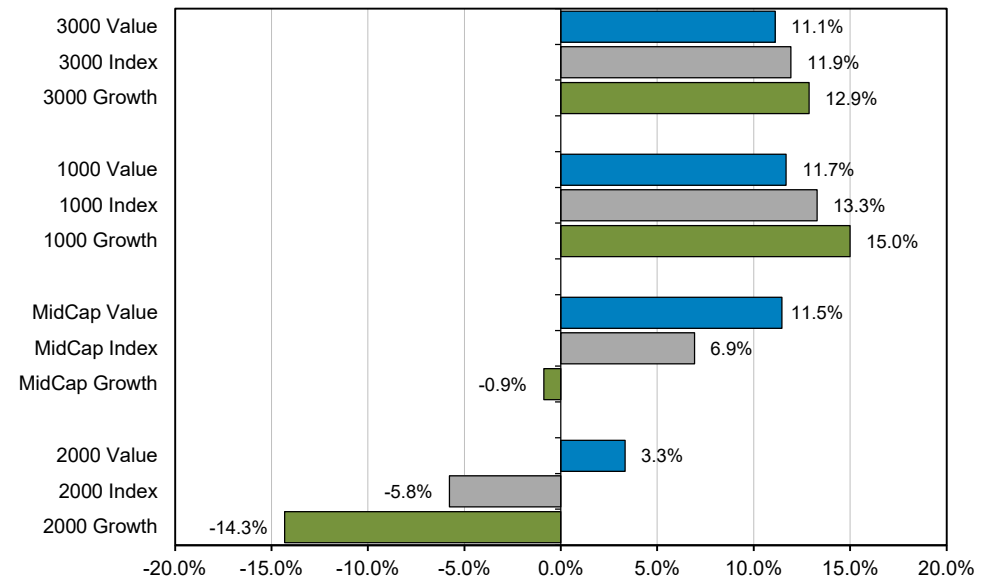
- Momentum shifted during the 1st quarter as each broad US equity benchmark posted negative results across both the style and market capitalization spectrums. Large cap stocks continued their leadership, followed by mid and small cap issues. The Russell 1000 Index declined by -5.1% for the quarter while the Russell Mid Cap Index and the Russell 2000 Index fell by -5.7% and -7.5%, respectively.
- Performance across styles and market capitalizations was disparate during the quarter. Large, Mid, Small cap value stocks all sizably outpaced their growth counterparts. For the period, the Russell 1000 Value Index was the best relative performing style index, posting a return of -0.7%. Mid cap and small cap growth stocks were the laggards during the period with both the Mid Cap Growth Index and Russell 2000 Growth Index returning a weak -12.6%.

Quarter Performance - Russell Style Series



- Performance across most market capitalizations and styles was positive over the trailing 1-year period. Much like the 1st quarter, large cap stocks outperformed mid and small cap stocks for the year. The Russell 1000 Index return of 13.3% for the year, significantly outperformed both its mid and small cap growth index counterparts. The outlier during the period was the Russell 2000 Index which returned -5.8%.
- While the dispersion across large cap styles was relatively narrow for the year, there was wide performance dispersion across mid and small style-based indexes. Within mid and small cap benchmark results, value dominated growth by double digits. The Russell Mid Cap Value Index returned 11.5% while the Russell 2000 Value Index returned 3.3% for the period. In comparison, the Russell Mid Cap Growth Index returned -0.9%, while the Russell 2000 Growth Index declined by -14.3%.

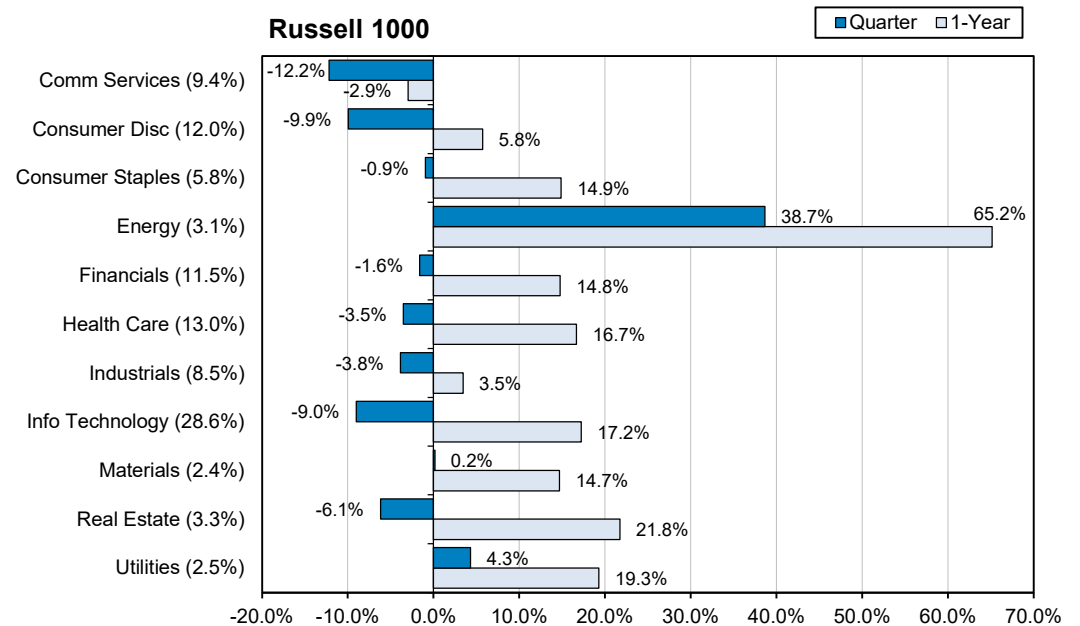
1-Year Performance - Russell Style Series



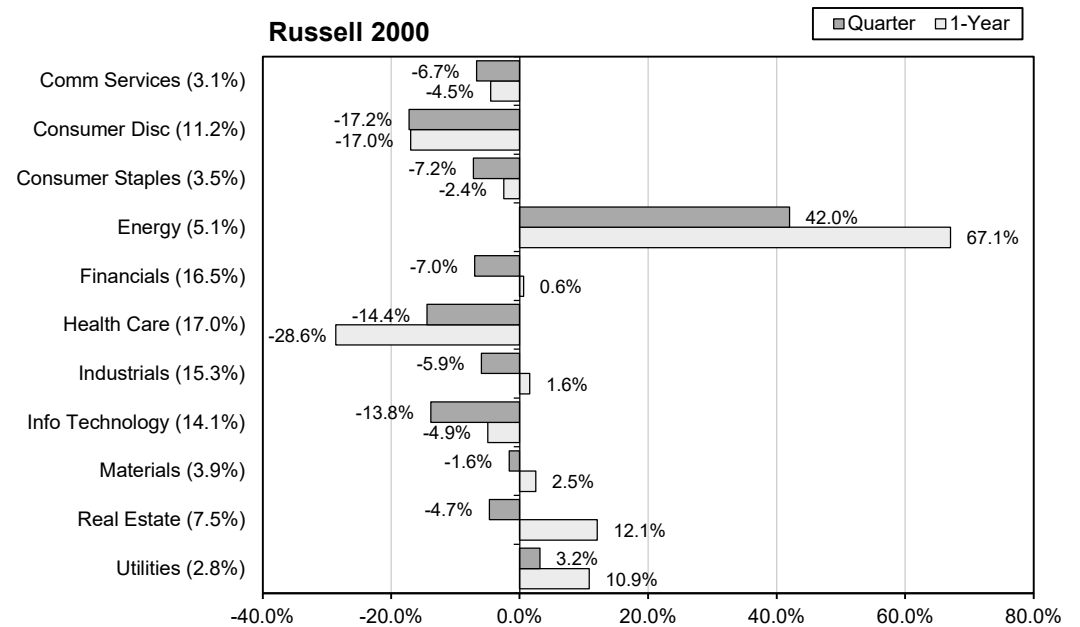
Source: Investment Metrics



- Economic sector performance was negative across eight of the eleven large cap economic sectors for the 1st quarter. However, the three positive sectors represent less than 10% of the index. Four additional sectors outpaced the return of the broad index on a relative basis during the period.
- Energy (38.7%), utilities (4.3%), and materials (0.2%) were the best performing sectors for the quarter. Energy continued its relative outperformance during the quarter as the price of oil remained elevated. Economically sensitive sectors such as communication services (-12.2%), consumer discretionary (-9.9%), and information technology (-9.0%) significantly underperformed the broader index for the quarter.
- For the full year, eight sectors exceeded the return of the broad large cap benchmark: energy (65.2%), real estate (21.8%), utilities (19.3%), information technology (17.2%), health care (16.7%), consumer staples (14.9%), financials (14.8%), and materials (14.7%). The weakest economic sector performance in the Russell 1000 for the year was communication services, which was the lone sector to deliver negative returns (-2.9%).



- Small cap sector performance was also mixed with two economic sectors posting positive performance and an additional five outpacing the return of the broader Russell 2000 Index (-7.5%) on a relative basis. Energy (42.0%) was the best performing sector for the period. Utilities (3.2%) was the only other sector posting a positive return for the quarter.
- For the trailing 1-year period, nine of the eleven sectors outpaced the broad benchmark's return. Not surprisingly, sector performance was led by energy (67.1%), real estate (12.1%), utilities (10.9%), materials (2.5%), industrials (1.6%), and financials (0.6%). Consumer staples (-2.4%), communication services (-4.5%), and information technology (-4.9%) outpaced the core benchmark on a relative basis but were negative in absolute terms. The weakest sector over the full year was health care which fell -28.6%.



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 March 31, 2022

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	6.38%	-1.5%	43.8%	Information Technology
Microsoft Corp	5.50%	-8.1%	31.8%	Information Technology
Amazon.com Inc	3.35%	-2.2%	5.4%	Consumer Discretionary
Tesla Inc	2.12%	2.0%	61.3%	Consumer Discretionary
Alphabet Inc Class A	1.98%	-4.0%	34.9%	Communication Services
Alphabet Inc Class C	1.83%	-3.5%	35.0%	Communication Services
NVIDIA Corp	1.54%	-7.2%	104.6%	Information Technology
Berkshire Hathaway Inc Class B	1.53%	18.0%	38.1%	Financials
Meta Platforms Inc Class A	1.21%	-33.9%	-24.5%	Communication Services
UnitedHealth Group Inc	1.13%	1.9%	38.9%	Health Care

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Occidental Petroleum Corp	0.11%	96.2%	113.9%	Energy
New Fortress Energy Inc Class A	0.00%	77.1%	-6.0%	Energy
The Mosaic Co	0.06%	69.6%	112.2%	Materials
Halliburton Co	0.08%	66.2%	78.2%	Energy
United States Steel Corp	0.02%	58.9%	44.9%	Materials
EQT Corp	0.02%	58.6%	86.2%	Energy
APA Corp	0.04%	54.3%	133.0%	Energy
Marathon Oil Corp	0.05%	53.4%	138.6%	Energy
Baker Hughes Co Class A	0.06%	52.4%	73.5%	Energy
Alcoa Corp	0.04%	51.3%	178.0%	Materials

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Vroom Inc Ordinary Shares	0.00%	-75.3%	-93.2%	Consumer Discretionary
GoHealth Inc Ordinary Shares - Class A	0.00%	-68.9%	-89.9%	Financials
TuSimple Hldgs Inc Ord Shrs - Class A	0.00%	-66.0%	N/A	Industrials
Fluence Energy Inc	0.00%	-63.1%	N/A	Industrials
Nektar Therapeutics	0.00%	-60.1%	-73.1%	Health Care
Skillz Inc Ordinary Shares - Class A	0.00%	-59.7%	-84.2%	Communication Services
Natera Inc	0.01%	-56.4%	-59.9%	Health Care
EPAM Systems Inc	0.04%	-55.6%	-25.2%	Information Technology
Trex Co Inc	0.02%	-51.6%	-28.6%	Industrials
Rivian Automotive Inc Class A	0.02%	-51.5%	N/A	Consumer Discretionary

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Ovintiv Inc	0.52%	61.4%	130.9%	Energy
AMC Entertainment Hldgs Inc Class A	0.47%	-9.4%	141.3%	Communication Services
Avis Budget Group Inc	0.40%	27.0%	263.0%	Industrials
BJ's Wholesale Club Holdings Inc	0.34%	1.0%	50.7%	Consumer Staples
Chesapeake Energy Corp Ord Shrs	0.33%	37.6%	108.8%	Energy
Tenet Healthcare Corp	0.33%	5.2%	65.3%	Health Care
Tetra Tech Inc	0.33%	-2.7%	22.2%	Industrials
Antero Resources Corp	0.32%	74.5%	199.3%	Energy
Lattice Semiconductor Corp	0.30%	-20.9%	35.4%	Information Technology
EastGroup Properties Inc	0.30%	-10.3%	44.8%	Real Estate

Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
NexTier Oilfield Solutions Inc	0.06%	160.3%	148.4%	Energy
Peabody Energy Corp	0.08%	143.6%	701.6%	Energy
RPC Inc	0.03%	135.0%	97.6%	Energy
SOC Telemed Inc Ord Shrs - Class A	0.01%	133.6%	-52.5%	Health Care
Kosmos Energy Ltd	0.12%	107.8%	134.2%	Energy
Tidewater Inc	0.03%	103.0%	73.5%	Energy
Team Inc	0.00%	102.8%	-80.8%	Industrials
Golar LNG Ltd	0.09%	100.0%	142.2%	Energy
US Silica Holdings Inc	0.05%	98.5%	51.8%	Energy
Intrepid Potash Inc	0.03%	92.2%	152.3%	Materials

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Kodiak Sciences Inc	0.01%	-90.9%	-93.2%	Health Care
Aligos Therapeutics Inc Ord Shares	0.00%	-81.9%	-90.5%	Health Care
MEI Pharma Inc	0.00%	-77.4%	-82.4%	Health Care
Applied Therapeutics Inc	0.00%	-76.4%	-88.7%	Health Care
Annexon Inc Ordinary Shares	0.00%	-76.2%	-90.2%	Health Care
BioAtla Inc Ordinary Shares	0.00%	-74.5%	-90.2%	Health Care
Accelerate Diagnostics Inc	0.00%	-72.4%	-82.7%	Health Care
Laird Superfood Inc Ordinary Shares	0.00%	-72.3%	-90.4%	Consumer Staples
Society Pass Inc	0.00%	-71.5%	N/A	Communication Services
89bio Inc Ordinary Shares	0.00%	-71.2%	-84.1%	Health Care

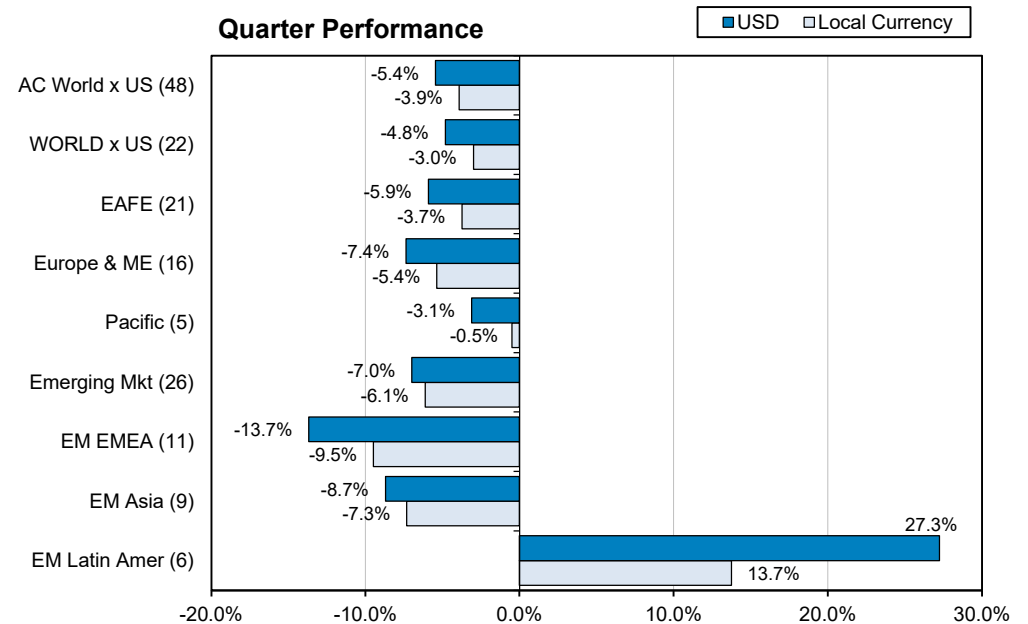
Source: Morningstar Direct





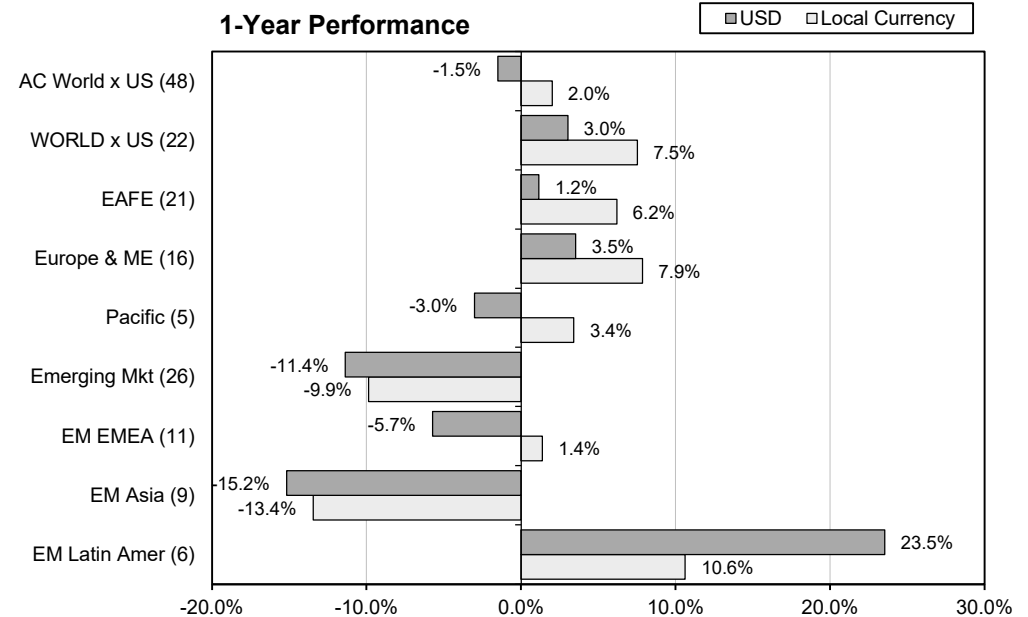
- Most developed market international equity indexes tracked in the chart posted negative returns in both US dollar (USD) and local currency (LC) terms for the 1st quarter. The outlier during the period was the Latin America region. This strong performance was led by Brazil which benefited from rising commodity prices. The developed market MSCI EAFE Index returned -5.9% in USD and -3.7% in LC terms for the period, while the MSCI Emerging Markets Index declined by -7.0% in USD and -6.1% in LC terms.

**Quarter Performance**



- The trailing 1-year results for international developed markets were broadly positive across most regions and currencies. The MSCI EAFE Index returned 1.2% in USD for the year and 6.2% in LC terms. In contrast, returns across emerging markets were broadly lower with the exception being Latin America. While the MSCI Emerging Markets Index declined by -11.4% in USD and -9.9% in LC terms, the Latin America regional index's return was a solid 23.5% in USD and 10.6% in LC term. In contrast, performance in the Asia regional benchmarks detracted from emerging market index performance with the EM Asia Index returning -15.2% in USD and -13.4% in LC term, largely due to concerns related to slowing growth in China and the recent rise in infections related to the pandemic.

**1-Year Performance**



Source: MSCI Global Index Monitor (Returns are Net)



**The Market Environment**  
**US Dollar International Index Attribution & Country Detail**  
As of March 31, 2022

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	4.9%	-1.7%	-10.8%
Consumer Discretionary	11.5%	-13.6%	-9.6%
Consumer Staples	10.2%	-7.7%	1.7%
Energy	4.1%	17.0%	30.0%
Financials	17.7%	-1.1%	5.1%
Health Care	13.1%	-3.7%	8.9%
Industrials	15.4%	-10.7%	-3.8%
Information Technology	8.6%	-16.1%	-1.0%
Materials	8.2%	3.3%	8.4%
Real Estate	2.9%	-2.7%	-1.2%
Utilities	3.4%	-4.1%	-1.7%
<b>Total</b>	<b>100.0%</b>	<b>-5.9%</b>	<b>1.2%</b>

MSCI - ACWixUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	6.2%	-6.1%	-16.6%
Consumer Discretionary	11.1%	-14.3%	-21.2%
Consumer Staples	8.4%	-7.2%	0.2%
Energy	5.4%	6.9%	22.9%
Financials	20.6%	1.6%	9.1%
Health Care	9.4%	-5.1%	2.3%
Industrials	12.2%	-8.6%	-1.9%
Information Technology	12.2%	-15.1%	-5.4%
Materials	8.9%	5.2%	9.5%
Real Estate	2.5%	-2.8%	-8.1%
Utilities	3.2%	-2.4%	2.0%
<b>Total</b>	<b>100.0%</b>	<b>-5.4%</b>	<b>-1.5%</b>

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	10.1%	-11.3%	-23.6%
Consumer Discretionary	12.3%	-16.4%	-38.8%
Consumer Staples	5.8%	-7.9%	-9.9%
Energy	4.8%	-20.7%	-6.7%
Financials	22.1%	5.7%	10.7%
Health Care	3.9%	-14.0%	-27.8%
Industrials	5.4%	-2.7%	2.7%
Information Technology	21.6%	-11.2%	-6.8%
Materials	9.4%	3.2%	3.4%
Real Estate	2.1%	-1.8%	-27.6%
Utilities	2.6%	-0.2%	10.2%
<b>Total</b>	<b>100.0%</b>	<b>-7.0%</b>	<b>-11.4%</b>

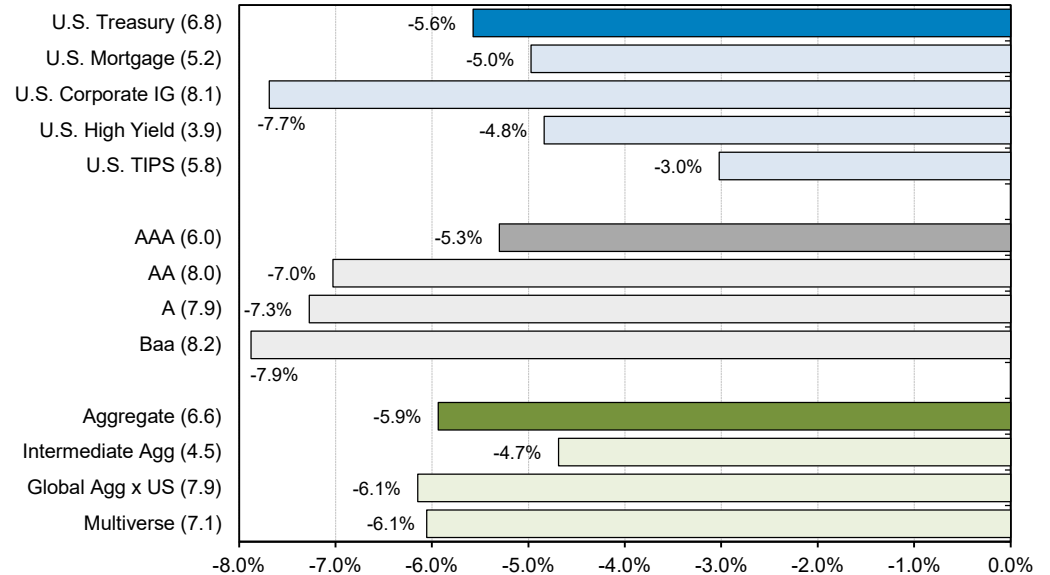
Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	22.3%	14.1%	-6.6%	-6.5%
United Kingdom	15.3%	9.6%	1.8%	13.6%
France	11.4%	7.2%	-8.7%	4.5%
Switzerland	10.4%	6.6%	-6.4%	13.9%
Germany	8.2%	5.2%	-12.9%	-12.0%
Australia	8.2%	5.1%	7.3%	13.5%
Netherlands	4.4%	2.8%	-17.4%	-5.2%
Sweden	3.6%	2.2%	-15.5%	-7.4%
Hong Kong	2.9%	1.8%	-1.8%	-12.0%
Denmark	2.7%	1.7%	-6.4%	14.9%
Italy	2.4%	1.5%	-10.1%	-2.7%
Spain	2.3%	1.5%	-4.1%	-3.7%
Singapore	1.5%	0.9%	-1.7%	-4.6%
Finland	1.0%	0.6%	-11.9%	-2.6%
Belgium	0.9%	0.6%	-4.9%	-0.3%
Norway	0.8%	0.5%	10.2%	21.1%
Israel	0.7%	0.5%	-6.9%	7.6%
Ireland	0.6%	0.4%	-20.1%	-17.7%
Portugal	0.2%	0.1%	2.3%	7.1%
Austria	0.2%	0.1%	-20.0%	3.6%
New Zealand	0.2%	0.1%	-8.7%	-15.2%
<b>Total EAFE Countries</b>	<b>100.0%</b>	<b>63.1%</b>	<b>-5.9%</b>	<b>1.2%</b>
Canada		8.3%	4.6%	20.2%
<b>Total Developed Countries</b>		<b>71.4%</b>	<b>-4.8%</b>	<b>3.0%</b>
China		8.6%	-14.2%	-32.5%
Taiwan		4.6%	-6.6%	6.3%
India		3.7%	-1.9%	17.9%
Korea		3.6%	-9.6%	-18.5%
Brazil		1.7%	35.9%	24.7%
Saudi Arabia		1.2%	17.3%	38.7%
South Africa		1.2%	20.3%	11.1%
Mexico		0.7%	8.6%	27.7%
Thailand		0.5%	4.2%	-1.6%
Indonesia		0.5%	9.6%	21.0%
Malaysia		0.4%	2.0%	1.5%
United Arab Emirates		0.4%	21.2%	58.1%
Qatar		0.3%	19.5%	34.4%
Kuwait		0.2%	19.4%	45.7%
Philippines		0.2%	2.2%	9.9%
Poland		0.2%	-9.8%	5.8%
Chile		0.2%	29.5%	-8.3%
Peru		0.1%	34.9%	20.9%
Turkey		0.1%	12.9%	1.6%
Colombia		0.1%	33.8%	39.3%
Greece		0.1%	1.1%	7.6%
Hungary		0.1%	-19.4%	-10.0%
Czech Republic		0.0%	3.1%	51.5%
Egypt		0.0%	-23.4%	-14.3%
<b>Total Emerging Countries</b>		<b>28.6%</b>	<b>-7.0%</b>	<b>-11.4%</b>
<b>Total ACWixUS Countries</b>		<b>100.0%</b>	<b>-5.4%</b>	<b>-1.5%</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.

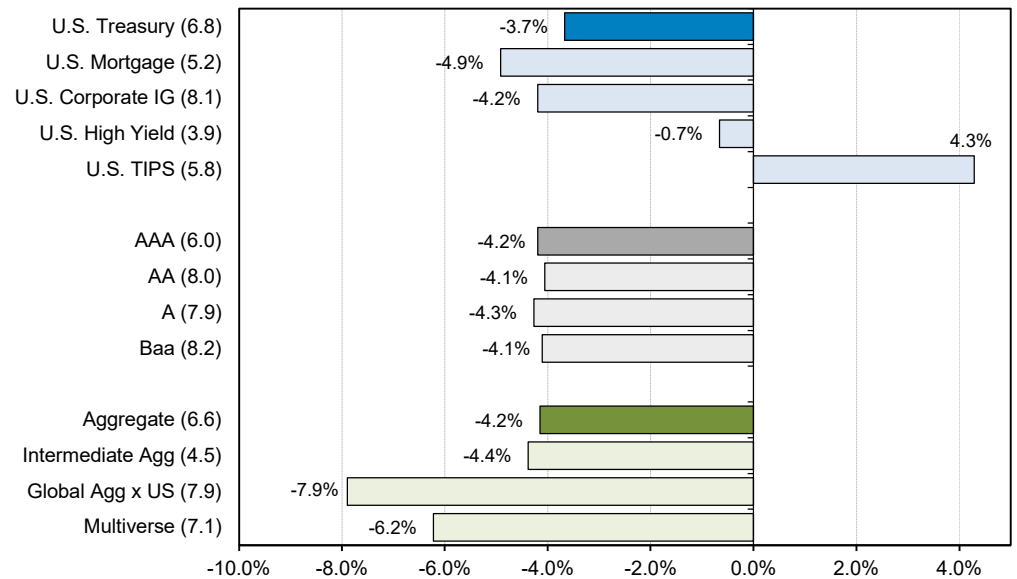


- Fixed income market results were broadly negative during the 1st quarter. Investors' concerns about rising inflation, combined with expectations of higher US interest rates, detracted from performance. US Treasury yields were higher across the maturity curve but remained below their long-term averages.
- The return for the BB US Aggregate Bond Index, the bellwether investment grade benchmark, was down -5.9% for the period.
- Performance across the investment grade index's segments was also negative during the period with the US Corporate Investment Grade bonds returning -7.7% and the US Mortgage index component posting a return of -5.0%.
- US TIPS posted the quarter's strongest relative bond performance with a return of -3.0%. High yield bonds outperformed their investment grade counterparts, but still declined by -4.8%.
- Outside of domestic markets, the BB Global Aggregate ex US Index posted a return of -6.1% for the quarter. Like international stocks, global bond index performance was negatively impacted by the strengthening USD, which acted as a drag on domestic index returns.
- Over the trailing 1-year period, domestic investment grade benchmark performance was negative, led lower by mortgage-backed bonds (-4.9%) and investment grade corporate bonds (-4.2%). The only sector of the market that generated positive performance for the year was US TIPS (4.3%). The bellwether Bloomberg US Aggregate Bond Index (-4.2%) declined for the year.
- Lower quality high yield corporate bonds outperformed their investment grade counterparts on a relative basis with the Bloomberg US High Yield Index returning -0.7% for the period.
- Performance for non-US bonds was broadly negative for the year with the developed market Bloomberg Global Aggregate ex US Index falling by -7.9%. The combination of rising interest rates overseas, a longer maturity profile, and USD strength hindered index performance for the year.

**Quarter Performance**



**1-Year Performance**

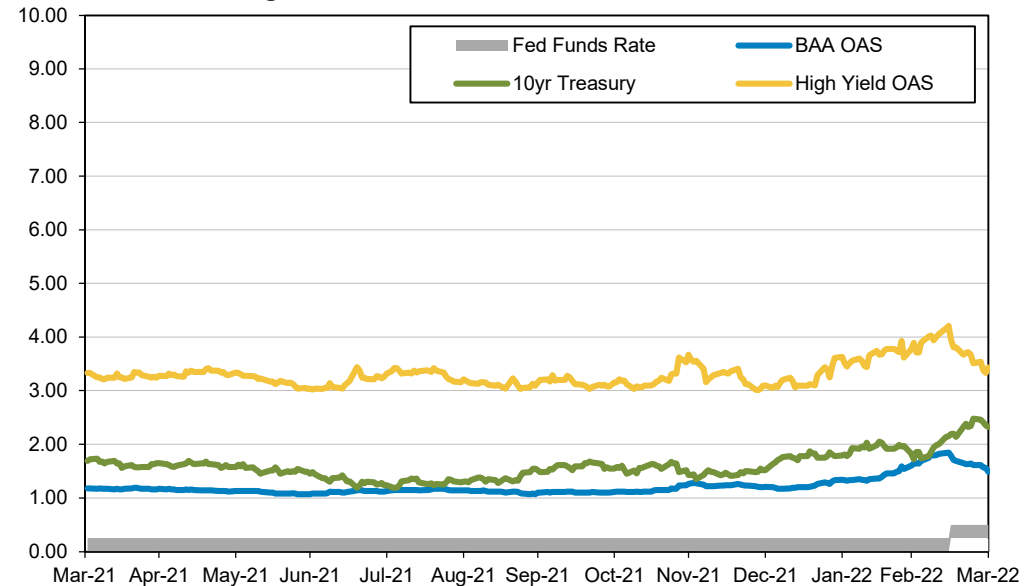


Source: Bloomberg

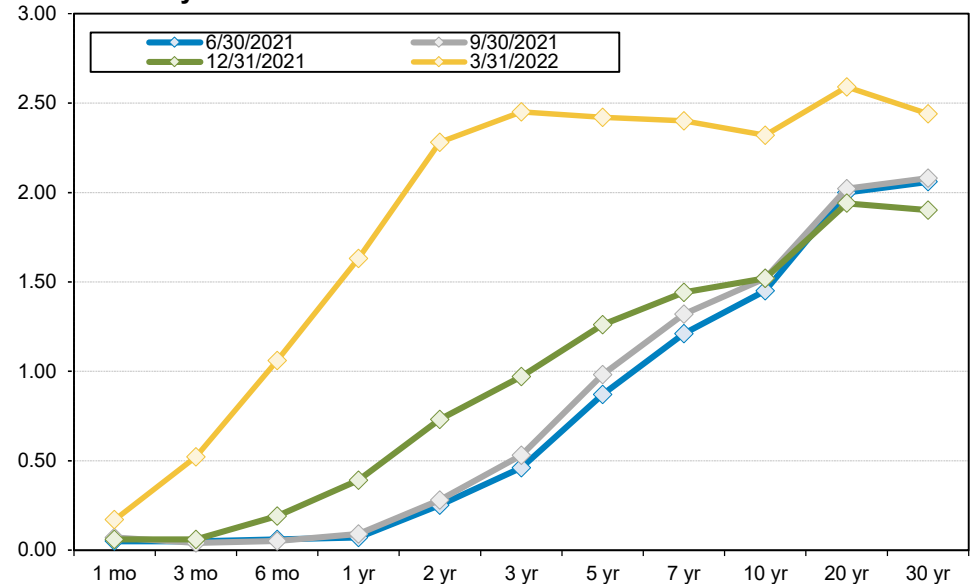


- The gray band across the graph illustrates the range of the current Fed Funds Rate. In the 1st quarter this year, the Fed raised its target rate range from 0.25% to 0.50%. During its recent March meeting, the Federal Open Market Committee (FOMC) stated it intends to begin removing liquidity from the market by also allowing bonds held on its balance sheet to mature without reinvesting those proceeds. Importantly, the FOMC also stated that it will react to data and could potentially raise rates at a faster pace if inflation does not subside.
- The yield on the US 10-year Treasury (green line) ended the period higher as concerns over the pace of inflation, combined with the Fed's announced rate increase, drove yields higher. After reaching a high of 2.47% during the latter part of March 2022, interest rates traded lower for the remainder of the quarter. The yield on the US 10-year Treasury was 2.34% on March 31st.
- 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-US Treasury investment grade issues. For the full year, the spread widened slightly from 1.18% to 1.49%. High Yield OAS was largely unchanged during the year as spreads rose from 3.33% to 3.43%. High Yield spreads briefly exceeded 4.00% following the onset of the crisis in Ukraine, but quickly retreated.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four quarters. Short-term rates rose dramatically during the 1st quarter of 2022 in anticipation that the FOMC would begin raising rates to combat rising inflation. Longer-term rates were modestly higher, albeit less dramatically than either short- or intermediate-term interest rates. While not shown in the chart, 10-Year rates briefly traded below the 2-year rates. Historically, a persistent inversion of these two key rates has been an indication of a future recession withing 6- to 24-months. As of the end of the quarter, the spread between 2-Year and 10-Year rates was positive. However, 10-Year rates were trading lower than the intermediate 3- and 5-year rates.

1-Year Trailing Market Rates



Treasury Yield Curve



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



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<b>Total Fund Compliance:</b>	<b>Yes</b>	<b>No</b>
The total plan (Net) return equaled or exceeded the total plan benchmark over the trailing three year period.		•
The total plan (Net) return equaled or exceeded the total plan benchmark over the trailing five year period.		•
The three year return ranks in the top 50% of its peers.	•	
The five year return ranks in the top 50% of its peers.	•	
The three year standard deviation is less than the total fund benchmark's standard deviation.		•

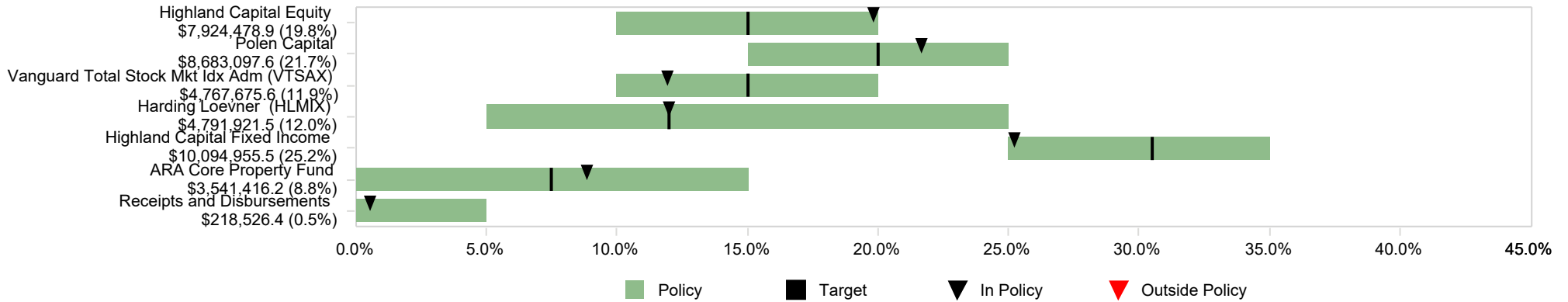
<b>Equity Compliance:</b>	<b>Yes</b>	<b>No</b>
The total equity (Net) return equaled or exceeded the benchmark over the trailing three year period.		•
The total equity (Net) return equaled or exceeded the benchmark over the trailing five year period.		•
The three year return ranks in the top 40% of its peers.		N/A
The five year return ranks in the top 40% of its peers.		N/A
The amount invested in each issuing company is less than or equal to 5% of the Fund's equity portfolio at market.	•	
The aggregate investment in any one company is less than or equal to 5% of the outstanding shares of the company.	•	
The amount invested in common stocks and convertible bonds is less than or equal to 70% of the total fund market value.	•	

<b>Fixed Income Compliance:</b>	<b>Yes</b>	<b>No</b>
The total fixed income (Gross) return equaled or exceed the benchmark over the trailing three year period.	•	
The total fixed income (Gross) return equaled or exceed the benchmark over the trailing five year period.	•	
The three year return ranks in the top 40% of its peers.	•	
The five year return ranks in the top 40% of its peers.	•	
All fixed income securities ranked at least BBB by Standard & Poors or Baa by Moody's.	•	



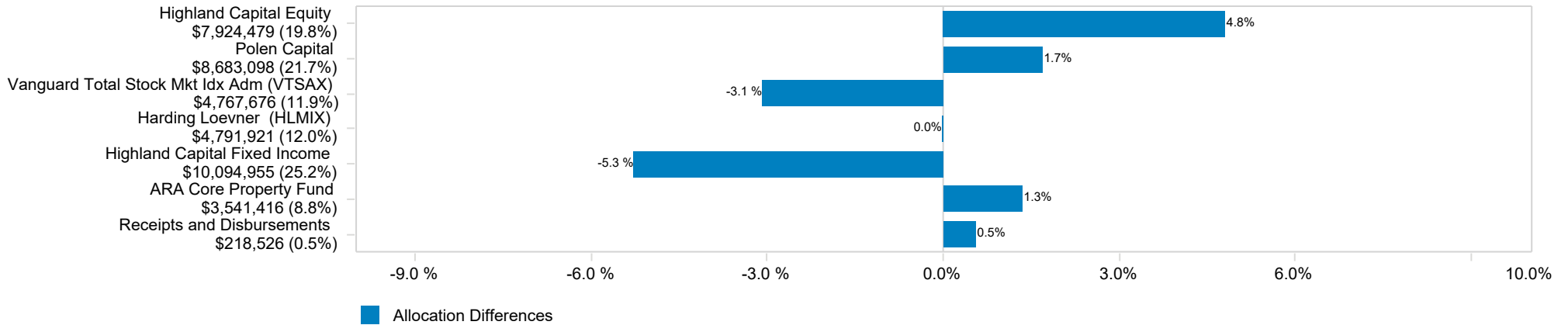
**Asset Allocation Compliance**  
**Miami Springs Police and Firefighters Retirement System Total Fund Composite**  
 As of March 31, 2022

**Executive Summary**

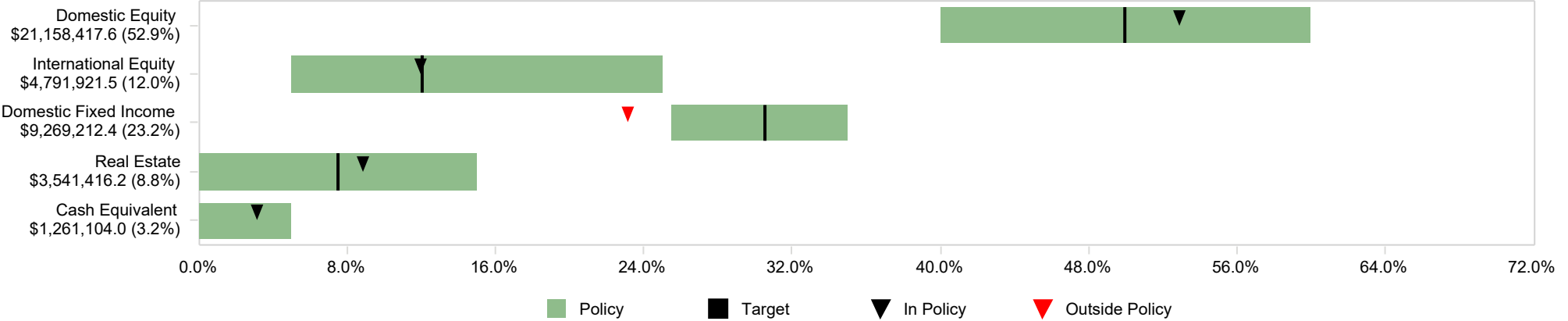


**Asset Allocation Compliance**

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
<b>Total Fund Composite</b>	<b>40,022,072</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>-</b>
Highland Capital Equity	7,924,479	19.8	15.0	4.8	-1,921,168
Polen Capital	8,683,098	21.7	20.0	1.7	-678,683
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,767,676	11.9	15.0	-3.1	1,235,635
Harding Loevner (HLMIX)	4,791,921	12.0	12.0	0.0	10,727
Highland Capital Fixed Income	10,094,955	25.2	30.5	-5.3	2,111,776
ARA Core Property Fund	3,541,416	8.8	7.5	1.3	-539,761
Receipts and Disbursements	218,526	0.5	0.0	0.5	-218,526

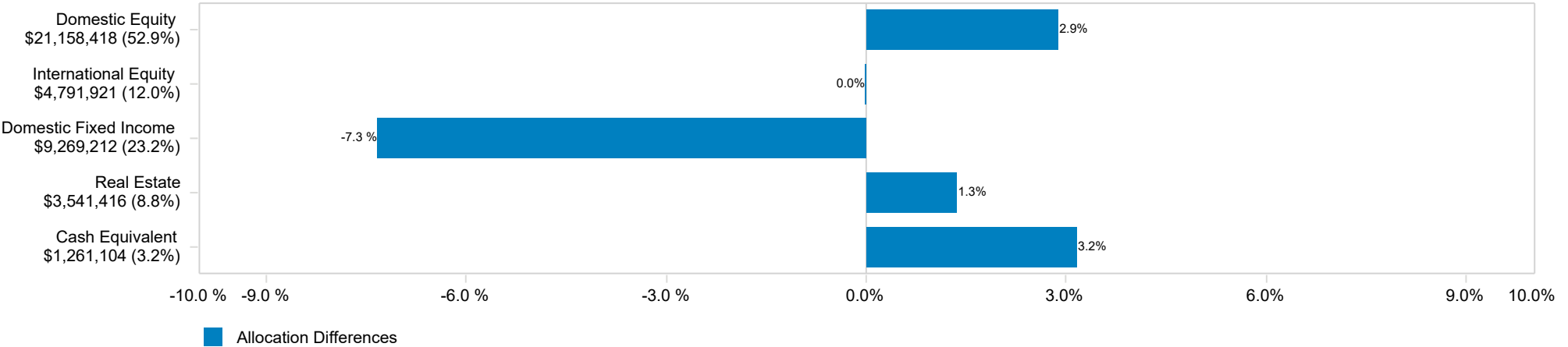


**Executive Summary**



**Asset Allocation Compliance**

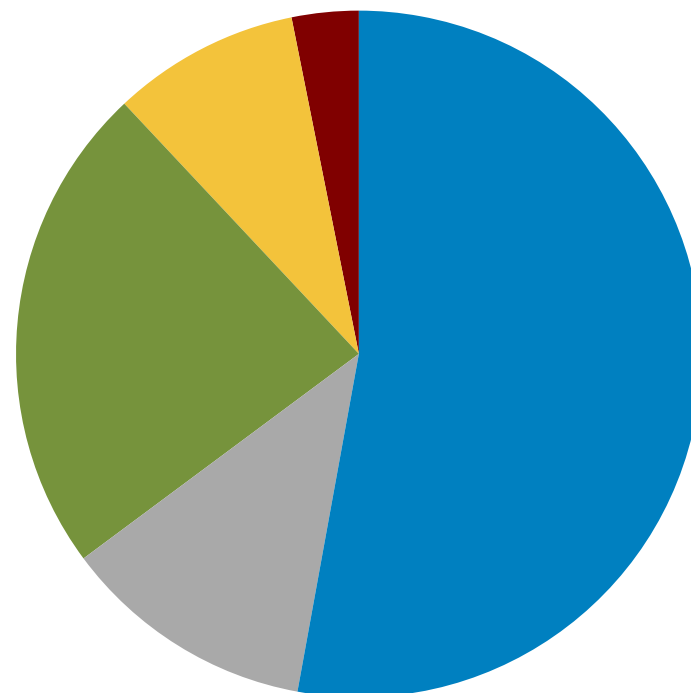
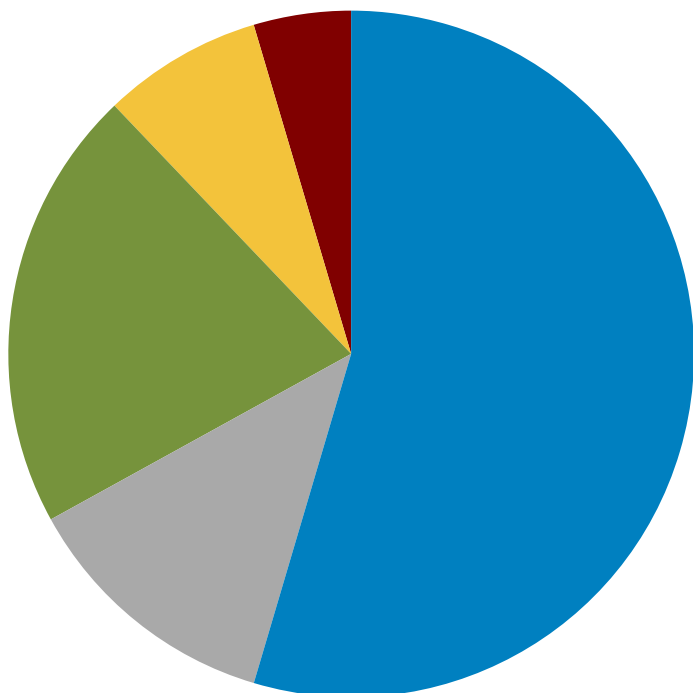
	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	21,158,418	52.9	50.0	2.9	-1,147,382
International Equity	4,791,921	12.0	12.0	0.0	10,727
Domestic Fixed Income	9,269,212	23.2	30.5	-7.3	2,937,519
Real Estate	3,541,416	8.8	7.5	1.3	-539,761
Cash Equivalent	1,261,104	3.2	0.0	3.2	-1,261,104
<b>Total Fund</b>	<b>40,022,072</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>-</b>





Asset Allocation By Segment as of  
 December 31, 2021 : \$43,374,466

Asset Allocation By Segment as of  
 March 31, 2022 : \$40,022,072

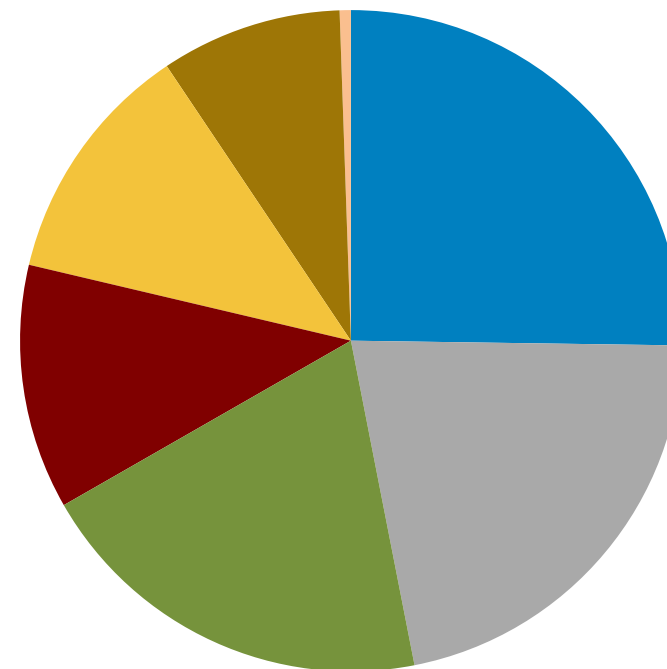
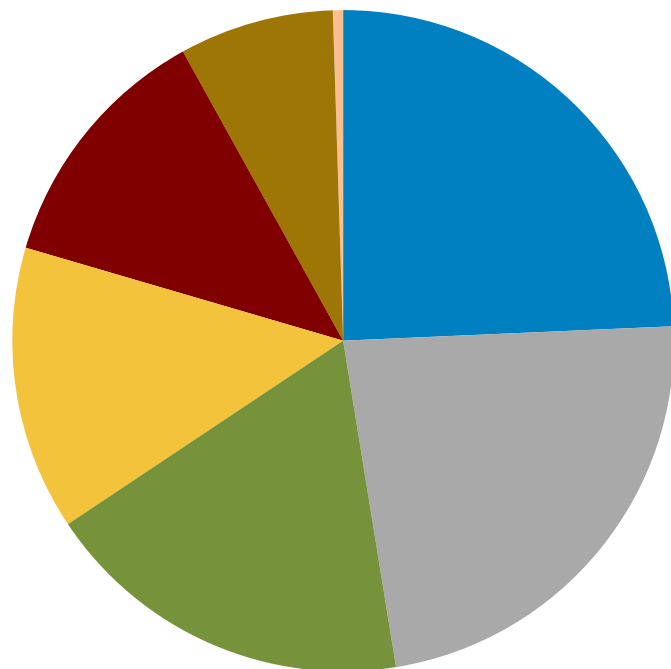


Allocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
■ Domestic Equity	23,674,835	54.6	■ Domestic Equity	21,158,418	52.9
■ International Equity	5,382,633	12.4	■ International Equity	4,791,921	12.0
■ Domestic Fixed Income	9,053,729	20.9	■ Domestic Fixed Income	9,269,212	23.2
■ Real Estate	3,274,085	7.5	■ Real Estate	3,541,416	8.8
■ Cash Equivalent	1,989,184	4.6	■ Cash Equivalent	1,261,104	3.2



Asset Allocation By Manager as of  
 December 31, 2021 : \$43,374,466

Asset Allocation By Manager as of  
 March 31, 2022 : \$40,022,072



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Highland Capital Fixed Income	10,541,394	24.3	Highland Capital Fixed Income	10,094,955	25.2
Polen Capital	10,037,349	23.1	Polen Capital	8,683,098	21.7
Highland Capital Equity	7,893,043	18.2	Highland Capital Equity	7,924,479	19.8
Vanguard Total Stock Mkt Idx Adm (VTSAX)	6,028,193	13.9	Harding Loevner (HLMIX)	4,791,921	12.0
Harding Loevner (HLMIX)	5,382,633	12.4	Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,767,676	11.9
ARA Core Property Fund	3,274,085	7.5	ARA Core Property Fund	3,541,416	8.8
Receipts and Disbursements	217,768	0.5	Receipts and Disbursements	218,526	0.5



## Asset Allocation &amp; Performance

	Allocation		Performance(%)							
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR	
<b>Total Fund Composite</b>	<b>40,022,072</b>	<b>100.0</b>	<b>-5.53 (66)</b>	<b>-0.80 (49)</b>	<b>6.16 (20)</b>	<b>12.27 (6)</b>	<b>11.36 (2)</b>	<b>10.02 (1)</b>	<b>10.35 (1)</b>	
Total Fund Policy Index			-3.83 (19)	2.40 (4)	9.38 (4)	13.90 (1)	11.99 (1)	10.24 (1)	10.51 (1)	
All Public Plans-Total Fund Median			-4.99	-0.83	4.23	10.41	9.02	7.61	8.26	
<b>Total Equity Composite</b>	<b>25,950,339</b>	<b>64.8</b>	<b>-7.70</b>	<b>-1.52</b>	<b>7.04</b>	<b>16.59</b>	<b>15.42</b>	<b>13.57</b>	<b>14.60</b>	
Total Equity Index			-4.82	4.12	12.85	19.86	16.80	14.17	14.79	
<b>Total Domestic Equity Composite</b>	<b>21,375,252</b>	<b>53.4</b>	<b>-6.83 (64)</b>	<b>-0.23 (80)</b>	<b>9.62 (74)</b>	<b>17.88 (51)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
Total Domestic Equity Policy			-4.60 (44)	5.92 (41)	15.65 (19)	22.74 (9)	N/A	N/A	N/A	
IM U.S. Large Cap Equity (SA+CF+MF) Median			-5.30	4.88	12.74	17.98	15.70	13.49	14.37	
Highland Capital Equity	7,924,479	19.8	0.51 (39)	8.39 (47)	12.29 (64)	13.38 (77)	11.08 (67)	10.50 (59)	12.67 (46)	
Russell 1000 Value Index			-0.74 (58)	6.98 (59)	11.67 (71)	13.02 (82)	10.29 (84)	9.73 (78)	11.70 (77)	
S&P 500 Index			-4.60 (85)	5.92 (68)	15.65 (21)	18.92 (13)	15.99 (9)	14.01 (8)	14.64 (8)	
IM U.S. Large Cap Value Equity (SA+CF) Median			-0.34	8.05	13.47	15.10	12.12	10.81	12.55	
Polen Capital	8,683,098	21.7	-13.35 (86)	-8.78 (86)	6.22 (74)	20.03 (52)	20.93 (19)	18.14 (7)	N/A	
Russell 1000 Growth Index			-9.04 (41)	1.54 (32)	14.98 (17)	23.60 (12)	20.88 (20)	17.34 (14)	17.04 (16)	
IM U.S. Large Cap Growth Equity (SA+CF) Median			-9.88	-1.61	10.57	20.08	18.81	15.45	15.83	
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,767,676	11.9	-5.46 (47)	3.21 (46)	11.68 (37)	N/A	N/A	N/A	N/A	
Russell 3000 Index			-5.28 (42)	3.51 (40)	11.92 (32)	18.24 (20)	15.40 (13)	13.38 (7)	14.28 (10)	
IM U.S. Multi-Cap Core Equity (MF) Median			-5.69	2.82	10.37	15.76	13.22	11.01	12.53	
Harding Loevner (HLMIX)	4,791,921	12.0	-10.97 (66)	-6.90 (48)	-4.20 (49)	9.26 (23)	8.15 (22)	6.97 (16)	N/A	
MSCI EAFE Index			-5.79 (26)	-3.21 (22)	1.65 (17)	8.29 (35)	7.23 (32)	5.62 (34)	6.77 (24)	
IM International Equity (MF) Median			-8.81	-7.43	-4.45	7.02	6.17	4.90	5.64	
<b>Total Fixed Income</b>										
Highland Capital Fixed Income	10,094,955	25.2	-4.15 (33)	-4.34 (20)	-2.09 (5)	3.15 (3)	3.10 (6)	2.80 (4)	2.74 (14)	
Total Fixed Income Policy			-4.69 (88)	-4.51 (26)	-2.17 (6)	2.72 (6)	2.80 (8)	2.32 (19)	2.63 (17)	
IM U.S. Intermediate Duration (SA+CF) Median			-4.35	-4.85	-3.73	1.83	2.15	1.99	2.26	
<b>Total Real Estate Composite</b>										
ARA Core Property Fund	3,541,416	8.8	8.46 (1)	18.02 (17)	29.68 (34)	11.92 (50)	10.39 (59)	10.27 (64)	N/A	
Real Estate Policy			7.97 (13)	16.28 (25)	29.84 (31)	11.81 (54)	10.18 (68)	10.41 (58)	11.08 (56)	
IM U.S. Open End Private Real Estate (SA+CF) Median			6.61	15.01	28.27	11.92	10.65	10.86	11.57	

Historical returns prior to 07/01/2018 for Highland Capital Equity and Fixed Income do not include cash.



**Asset Allocation & Performance**  
**Total Fund Composite (Net)**  
As of March 31, 2022

Asset Allocation & Performance	Allocation		Performance(%)						
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR
<b>Total Fund Composite</b>	<b>40,022,072</b>	<b>100.0</b>	<b>-5.63</b>	<b>-1.00</b>	<b>5.78</b>	<b>11.82</b>	<b>10.87</b>	<b>9.51</b>	<b>9.83</b>
Total Fund Policy Index			-3.83	2.40	9.38	13.90	11.99	10.24	10.51
<b>Total Equity Composite</b>	<b>25,950,339</b>	<b>64.8</b>	<b>-7.70</b>	<b>-1.52</b>	<b>7.04</b>	<b>16.59</b>	<b>15.42</b>	<b>13.57</b>	<b>14.60</b>
Total Equity Index			-4.82	4.12	12.85	19.86	16.80	14.17	14.79
<b>Total Domestic Equity Composite</b>	<b>21,375,252</b>	<b>53.4</b>	<b>-6.92</b>	<b>-0.41</b>	<b>9.24</b>	<b>17.42</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Total Domestic Equity Policy			-4.60	5.92	15.65	22.74	N/A	N/A	N/A
Highland Capital Equity	7,924,479	19.8	0.41	8.17	11.84	12.97	N/A	N/A	N/A
Russell 1000 Value Index			-0.74	6.98	11.67	13.02	10.29	9.73	11.70
S&P 500 Index			-4.60	5.92	15.65	18.92	15.99	14.01	14.64
Polen Capital	8,683,098	21.7	-13.48	-9.04	5.65	19.37	20.28	17.49	N/A
Russell 1000 Growth Index			-9.04	1.54	14.98	23.60	20.88	17.34	17.04
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,767,676	11.9	-5.46	3.21	11.68	N/A	N/A	N/A	N/A
Russell 3000 Index			-5.28	3.51	11.92	18.24	15.40	13.38	14.28
Harding Loevner (HLMIX)	4,791,921	12.0	-10.97	-6.90	-4.20	9.26	8.15	6.97	N/A
MSCI EAFE Index			-5.79	-3.21	1.65	8.29	7.23	5.62	6.77
<b>Total Fixed Income</b>									
Highland Capital Fixed Income	10,094,955	25.2	-4.21	-4.46	-2.34	2.78	N/A	N/A	N/A
Total Fixed Income Policy			-4.69	-4.51	-2.17	2.72	2.80	2.32	2.63
<b>Total Real Estate Composite</b>									
ARA Core Property Fund	3,541,416	8.8	8.17	17.38	28.26	10.70	9.18	9.08	N/A
Real Estate Policy			7.97	16.28	29.84	11.81	10.18	10.41	11.08



Asset Allocation & Performance	Allocation		Performance(%)						
	Market Value \$	%	FYTD	Oct-2020 To Sep-2021	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
<b>Total Fund Composite</b>	<b>40,022,072</b>	<b>100.0</b>	<b>-0.80 (49)</b>	<b>20.74 (37)</b>	<b>11.97 (13)</b>	<b>6.39 (5)</b>	<b>12.25 (3)</b>	<b>12.53 (30)</b>	<b>10.73 (13)</b>
Total Fund Policy Index			2.40 (4)	18.50 (68)	15.43 (2)	6.21 (6)	10.91 (8)	12.25 (37)	10.78 (12)
All Public Plans-Total Fund Median			-0.83	19.74	8.67	4.01	7.83	11.62	9.32
<b>Balanced Fund</b>									
Highland Capital Balanced	-	0.0	N/A	N/A	N/A	N/A	N/A	8.48 (77)	9.81 (53)
Highland Policy Index			-0.75 (58)	12.11 (91)	11.87 (28)	8.58 (12)	7.36 (60)	8.62 (76)	10.57 (44)
IM U.S. Balanced (SA+CF) Median			0.25	20.92	9.04	4.70	8.07	11.78	10.09
<b>Total Equity Composite</b>	<b>25,950,339</b>	<b>64.8</b>	<b>-1.52</b>	<b>30.94</b>	<b>17.05</b>	<b>4.06</b>	<b>19.25</b>	<b>19.81</b>	<b>13.46</b>
Total Equity Index			4.12	29.33	21.18	3.08	18.00	19.94	13.47
<b>Total Domestic Equity Composite</b>	<b>21,375,252</b>	<b>53.4</b>	<b>-0.23 (80)</b>	<b>33.03 (36)</b>	<b>15.98 (38)</b>	<b>6.44 (20)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Total Domestic Equity Policy			5.92 (41)	30.00 (56)	26.50 (22)	4.00 (42)	N/A	N/A	N/A
IM U.S. Large Cap Equity (SA+CF+MF) Median			4.88	30.80	13.18	3.41	17.19	18.82	13.37
Highland Capital Equity	7,924,479	19.8	8.39 (47)	36.88 (52)	-6.66 (74)	2.34 (51)	12.66 (46)	18.59 (42)	14.71 (40)
Russell 1000 Value Index			6.98 (59)	35.01 (60)	-5.03 (66)	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)
S&P 500 Index			5.92 (68)	30.00 (78)	15.15 (7)	4.25 (37)	17.91 (8)	18.61 (42)	15.43 (32)
IM U.S. Large Cap Value Equity (SA+CF) Median			8.05	37.20	-3.10	2.41	11.83	17.89	13.56
Polen Capital	8,683,098	21.7	-8.78 (86)	30.63 (22)	35.22 (40)	9.99 (11)	31.18 (13)	20.81 (52)	10.63 (64)
Russell 1000 Growth Index			1.54 (32)	27.32 (52)	37.53 (29)	3.71 (52)	26.30 (37)	21.94 (39)	13.76 (23)
IM U.S. Large Cap Growth Equity (SA+CF) Median			-1.61	27.47	33.32	3.80	24.48	20.87	11.81
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,767,676	11.9	3.21 (46)	32.07 (40)	N/A	N/A	N/A	N/A	N/A
Russell 3000 Index			3.51 (40)	31.88 (42)	15.00 (22)	2.92 (36)	17.58 (20)	18.71 (36)	14.96 (17)
IM U.S. Multi-Cap Core Equity (MF) Median			2.82	30.89	10.21	1.47	14.73	17.63	11.78
Harding Loevner (HLMIX)	4,791,921	12.0	-6.90 (48)	20.50 (64)	14.04 (29)	-3.34 (62)	5.85 (10)	18.66 (57)	17.62 (13)
MSCI EAFE Index			-3.21 (22)	26.29 (35)	0.93 (69)	-0.82 (41)	3.25 (21)	19.65 (48)	7.06 (65)
IM International Equity (MF) Median			-7.43	23.13	6.64	-1.94	0.08	19.37	9.32
<b>Total Fixed Income</b>									
Highland Capital Fixed Income	10,094,955	25.2	-4.34 (20)	1.73 (17)	6.80 (32)	10.23 (3)	-1.01 (96)	0.62 (58)	6.73 (3)
Total Fixed Income Policy			-4.51 (26)	-1.13 (99)	8.03 (4)	11.32 (1)	-1.37 (99)	-0.01 (96)	5.86 (5)
IM U.S. Intermediate Duration (SA+CF) Median			-4.85	0.25	6.45	8.01	-0.38	0.69	3.89

Historical returns prior to 07/01/2018 for Highland Capital Equity and Fixed Income do not include cash.



**Asset Allocation & Performance**  
**Total Fund Composite (Gross)**  
As of March 31, 2022

	Allocation		Performance(%)							
	Market Value \$	%	FYTD	Oct-2020 To Sep-2021	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	
<b>Total Real Estate Composite</b>										
ARA Core Property Fund	3,541,416	8.8	18.02 (17)	13.51 (76)	1.62 (58)	6.81 (49)	8.50 (64)	7.52 (59)	9.05 (92)	
Real Estate Policy			16.28 (25)	15.75 (53)	1.49 (62)	5.59 (72)	8.68 (62)	7.66 (55)	10.08 (80)	
IM U.S. Open End Private Real Estate (SA+CF) Median			15.01	16.11	1.74	6.80	8.98	7.88	11.26	

Historical returns prior to 07/01/2018 for Highland Capital Equity and Fixed Income do not include cash.



Asset Allocation & Performance	Allocation		Performance(%)						
	Market Value \$	%	FYTD	Oct-2020 To Sep-2021	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
<b>Total Fund Composite</b>	<b>40,022,072</b>	<b>100.0</b>	<b>-1.00</b>	<b>20.35</b>	<b>11.51</b>	<b>5.85</b>	<b>11.70</b>	<b>11.94</b>	<b>10.05</b>
Total Fund Policy Index			2.40	18.50	15.43	6.21	10.91	12.25	10.78
<b>Balanced Fund</b>									
Highland Capital Balanced	-	0.0	N/A	N/A	N/A	N/A	N/A	7.90	9.10
Highland Policy Index			-0.75	12.11	11.87	8.58	7.36	8.62	10.57
<b>Total Equity Composite</b>	<b>25,950,339</b>	<b>64.8</b>	<b>-1.52</b>	<b>30.94</b>	<b>17.05</b>	<b>4.06</b>	<b>19.25</b>	<b>19.81</b>	<b>13.46</b>
Total Equity Index			4.12	29.33	21.18	3.08	18.00	19.94	13.47
<b>Total Domestic Equity Composite</b>	<b>21,375,252</b>	<b>53.4</b>	<b>-0.41</b>	<b>32.57</b>	<b>15.56</b>	<b>5.88</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Total Domestic Equity Policy			5.92	30.00	26.50	4.00	N/A	N/A	N/A
Highland Capital Equity	7,924,479	19.8	8.17	36.32	-6.88	1.84	N/A	N/A	N/A
Russell 1000 Value Index			6.98	35.01	-5.03	4.00	9.45	15.12	16.19
S&P 500 Index			5.92	30.00	15.15	4.25	17.91	18.61	15.43
Polen Capital	8,683,098	21.7	-9.04	29.93	34.50	9.37	30.48	20.17	10.01
Russell 1000 Growth Index			1.54	27.32	37.53	3.71	26.30	21.94	13.76
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,767,676	11.9	3.21	32.07	N/A	N/A	N/A	N/A	N/A
Russell 3000 Index			3.51	31.88	15.00	2.92	17.58	18.71	14.96
Harding Loevner (HLMIX)	4,791,921	12.0	-6.90	20.50	14.04	-3.34	5.85	18.66	17.62
MSCI EAFE Index			-3.21	26.29	0.93	-0.82	3.25	19.65	7.06
<b>Total Fixed Income</b>									
Highland Capital Fixed Income	10,094,955	25.2	-4.46	1.49	6.28	9.69	N/A	N/A	N/A
Total Fixed Income Policy			-4.51	-1.13	8.03	11.32	-1.37	-0.01	5.86
<b>Total Real Estate Composite</b>									
ARA Core Property Fund	3,541,416	8.8	17.38	12.27	0.51	5.64	7.31	6.34	7.92
Real Estate Policy			16.28	15.75	1.49	5.59	8.68	7.66	10.08



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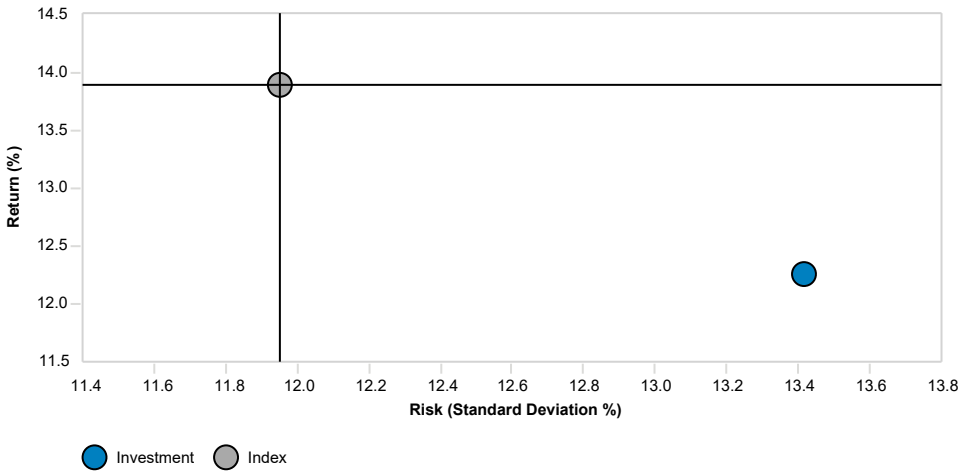
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	12.27	13.41	0.87	101.12	10	132.38	2
Index	13.90	11.95	1.08	100.00	10	100.00	2

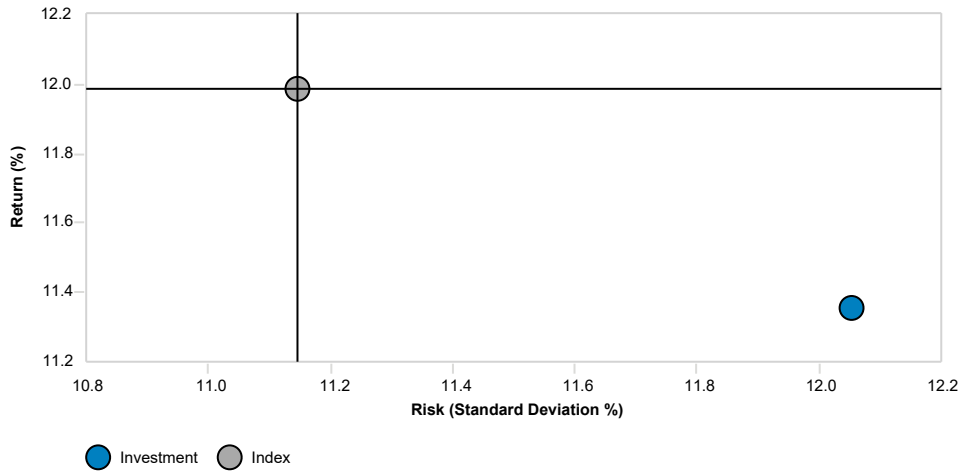
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.36	12.05	0.86	101.91	17	117.38	3
Index	11.99	11.14	0.97	100.00	16	100.00	4

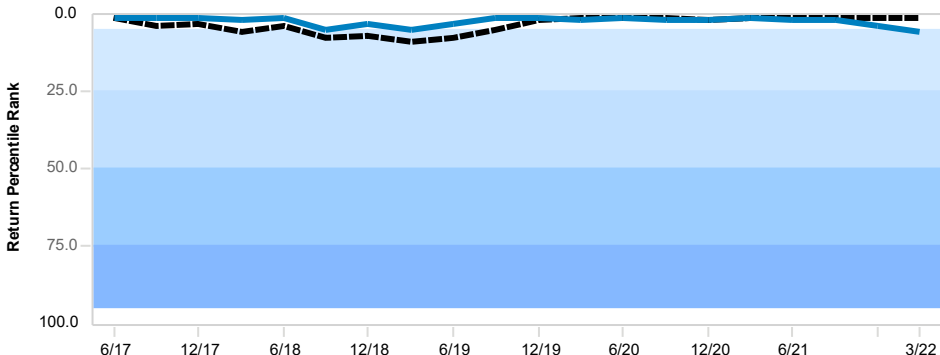
**Risk and Return 3 Years**



**Risk and Return 5 Years**

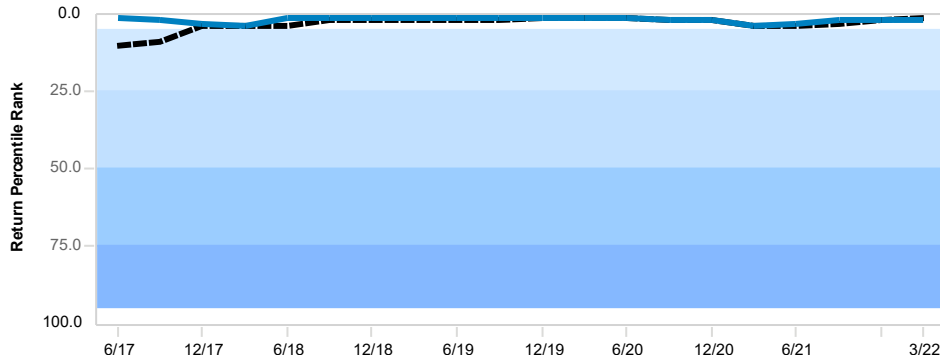


**3 Year Rolling Percentile Rank All Public Plans-Total Fund**



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

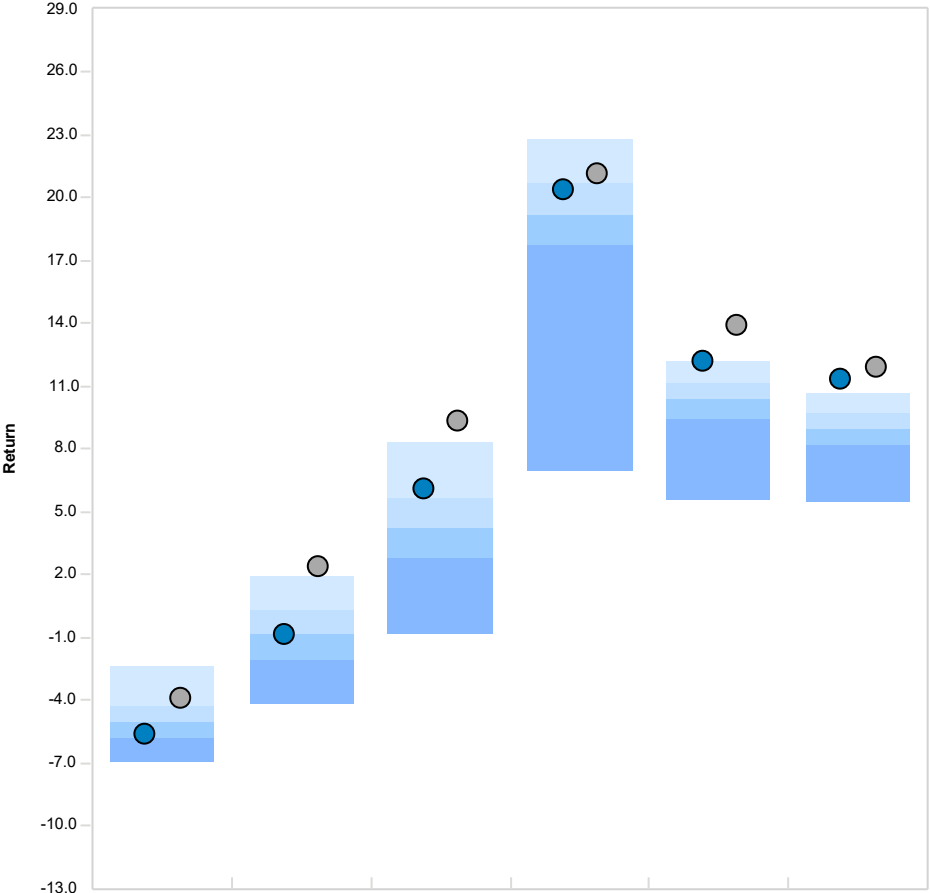
**5 Year Rolling Percentile Rank All Public Plans-Total Fund**



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

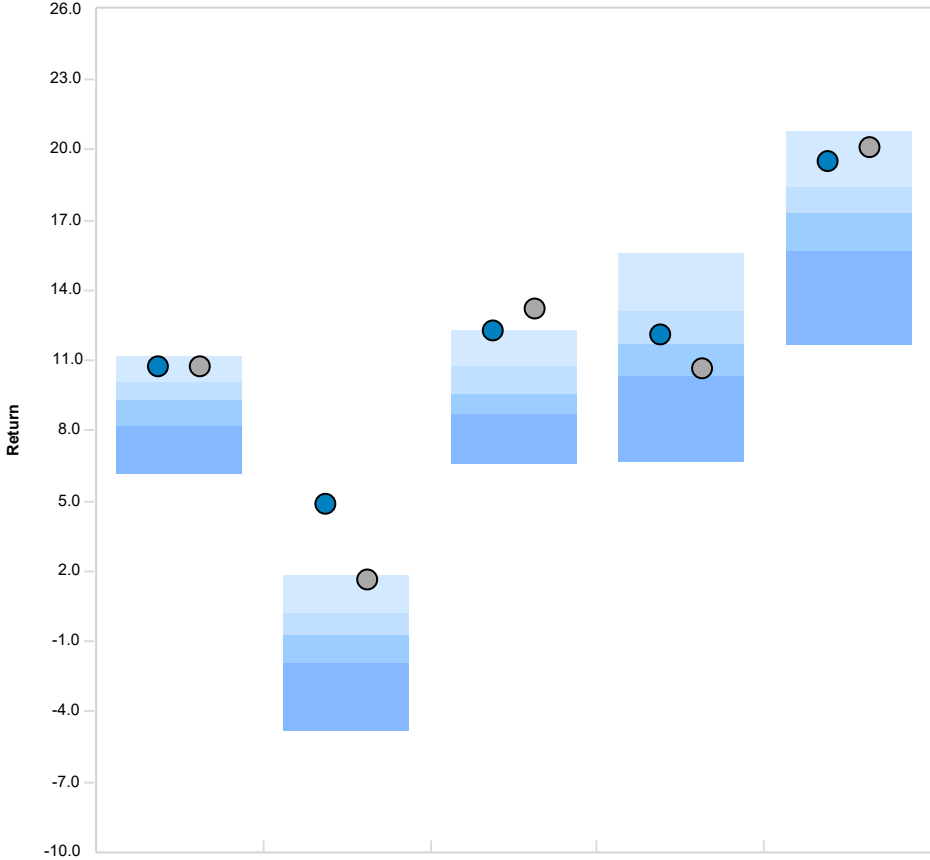


**Plan Sponsor Peer Group Analysis vs. All Public Plans-Total Fund**



	QTR	FYTD	1 YR	2 YR	3 YR	5 YR
● Investment	-5.53 (66)	-0.80 (49)	6.16 (20)	20.44 (31)	12.27 (6)	11.36 (2)
● Index	-3.83 (19)	2.40 (4)	9.38 (4)	21.20 (22)	13.90 (1)	11.99 (1)
Median	-4.99	-0.83	4.23	19.20	10.41	9.02

**Plan Sponsor Peer Group Analysis vs. All Public Plans-Total Fund**



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	10.73 (13)	4.90 (1)	12.33 (5)	12.16 (42)	19.53 (12)
● Index	10.78 (12)	1.66 (7)	13.20 (3)	10.70 (71)	20.11 (8)
Median	9.32	-0.73	9.58	11.73	17.34

**Comparative Performance**

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	5.00 (22)	0.53 (27)	6.46 (12)	3.31 (48)	9.21 (74)	5.73 (26)
Index	6.48 (2)	0.78 (21)	5.99 (23)	2.38 (77)	8.36 (86)	5.33 (45)
Median	4.26	0.02	5.43	3.23	10.24	5.21



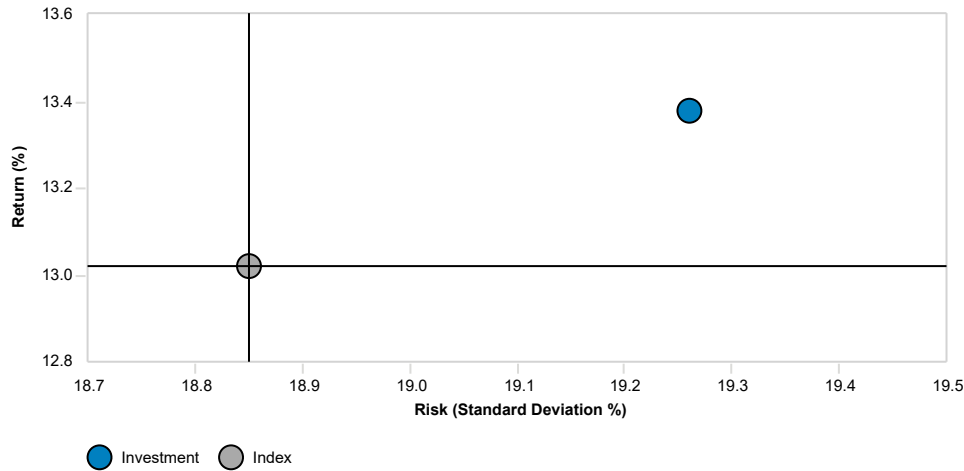
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.38	19.26	0.71	101.59	10	100.66	2
Index	13.02	18.85	0.70	100.00	9	100.00	3

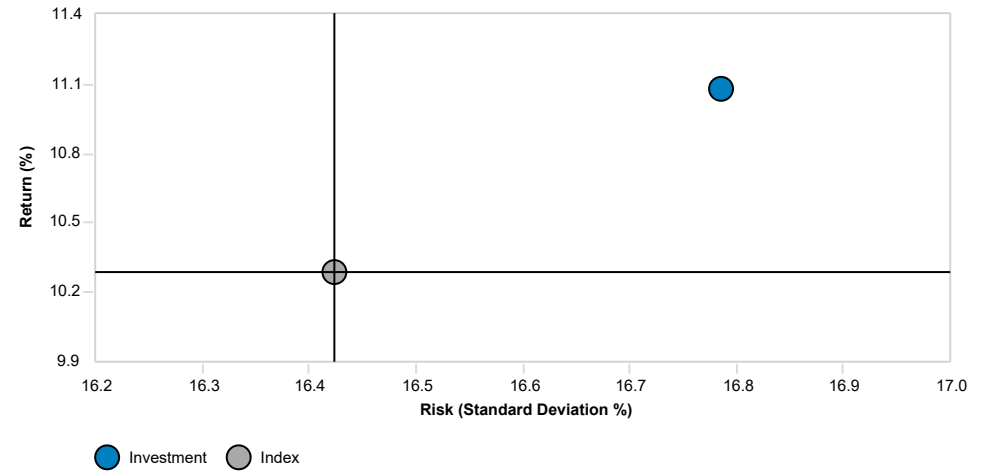
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.08	16.78	0.64	102.84	16	99.89	4
Index	10.29	16.42	0.61	100.00	15	100.00	5

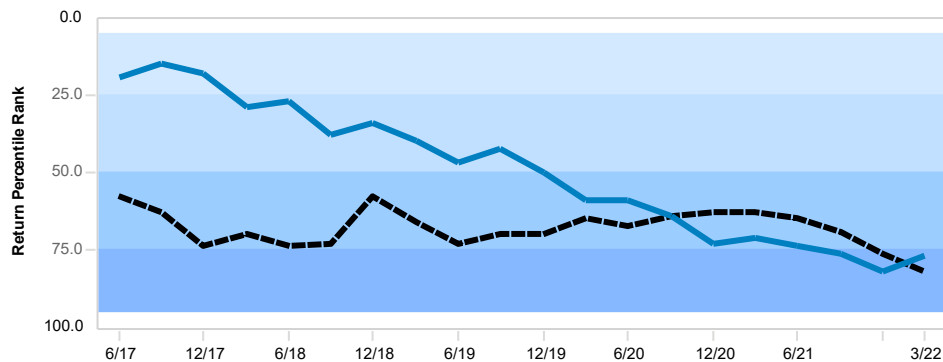
**Risk and Return 3 Years**



**Risk and Return 5 Years**

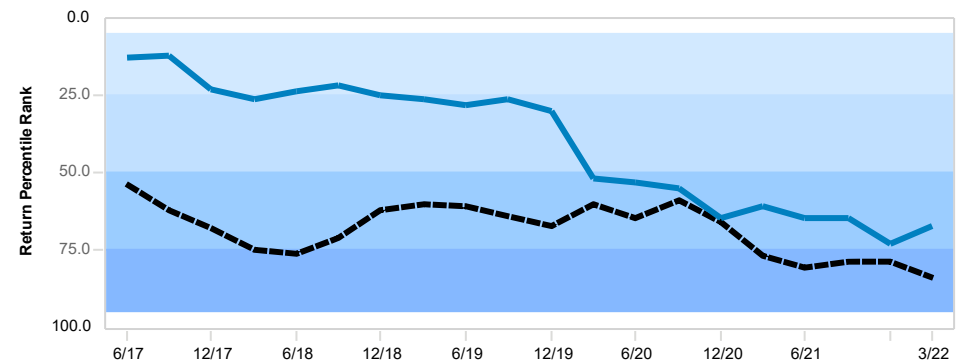


**3 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	3 (15%)	8 (40%)	6 (30%)	3 (15%)
Index	20	0 (0%)	0 (0%)	18 (90%)	2 (10%)

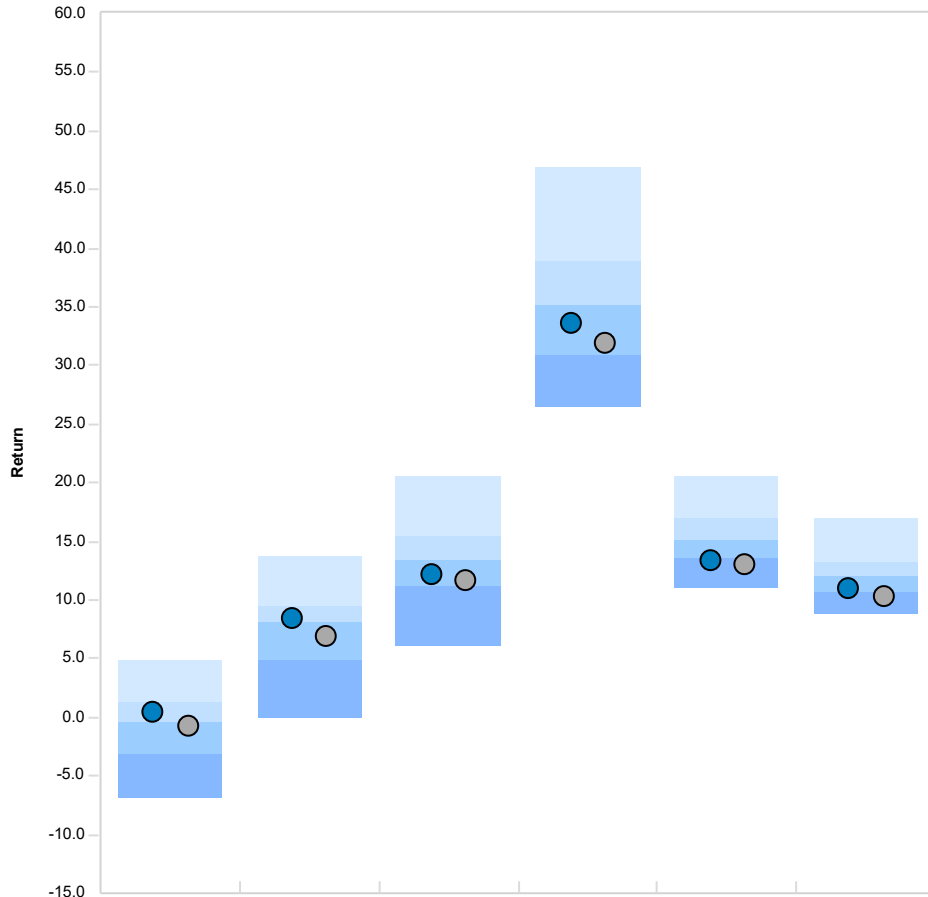
**5 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	6 (30%)	5 (25%)	9 (45%)	0 (0%)
Index	20	0 (0%)	0 (0%)	14 (70%)	6 (30%)

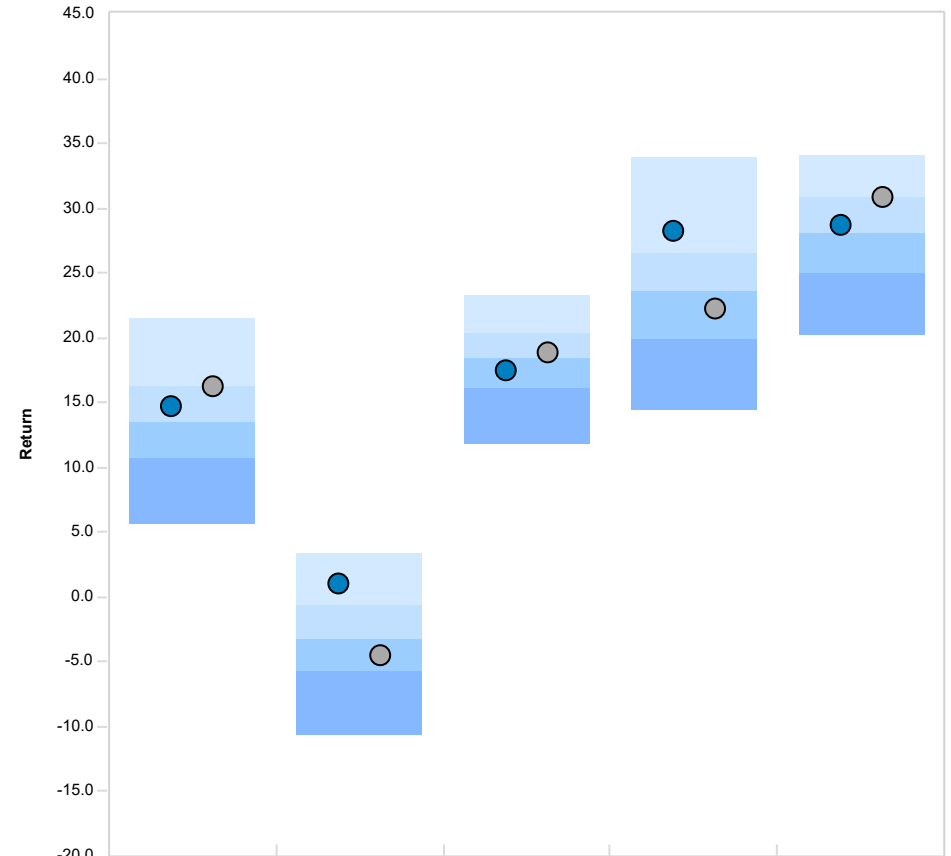


**Plan Sponsor Peer Group Analysis vs. IM U.S. Large Cap Value Equity (SA+CF)**



	QTR	FYTD	1 YR	2 YR	3 YR	5 YR
● Investment	0.51 (39)	8.39 (47)	12.29 (64)	33.62 (62)	13.38 (77)	11.08 (67)
● Index	-0.74 (58)	6.98 (59)	11.67 (71)	32.02 (71)	13.02 (82)	10.29 (84)
Median	-0.34	8.05	13.47	35.10	15.10	12.12

**Plan Sponsor Peer Group Analysis vs. IM U.S. Large Cap Value Equity (SA+CF)**



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	14.71 (40)	1.04 (13)	17.46 (61)	28.23 (19)	28.76 (45)
● Index	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (59)	30.92 (25)
Median	13.56	-3.29	18.38	23.65	28.06

**Comparative Performance**

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	7.83 (59)	-1.34 (76)	5.00 (73)	13.92 (28)	15.98 (52)	4.73 (63)
Index	7.77 (60)	-0.78 (60)	5.21 (65)	11.26 (55)	16.25 (49)	5.59 (48)
Median	8.26	-0.58	5.86	11.53	16.04	5.43



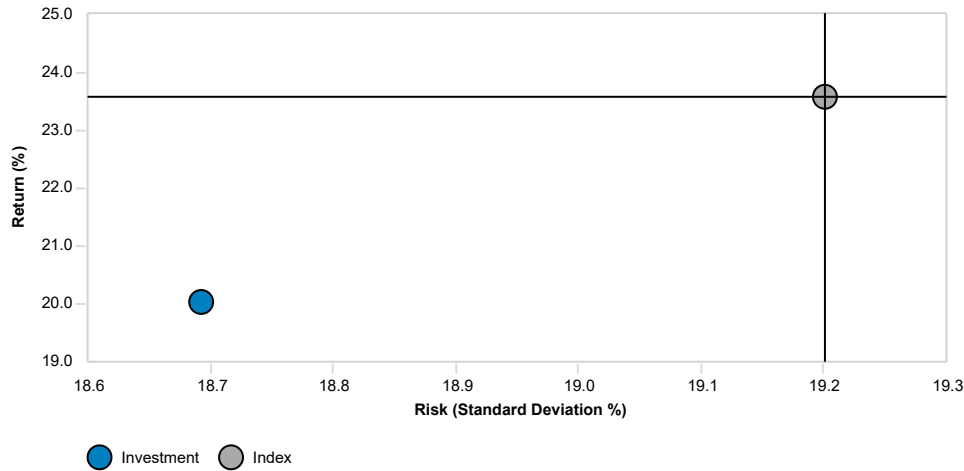
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	20.03	18.69	1.03	88.63	10	91.10	2
Index	23.60	19.20	1.16	100.00	10	100.00	2

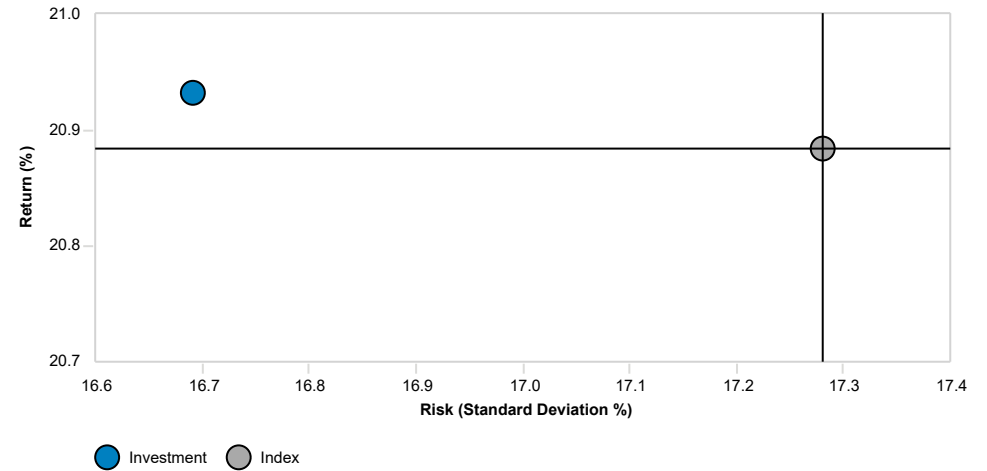
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	20.93	16.69	1.16	94.79	17	88.06	3
Index	20.88	17.28	1.12	100.00	17	100.00	3

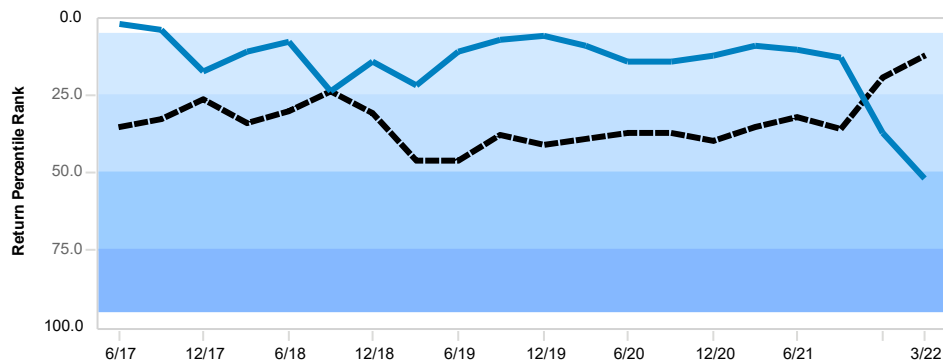
**Risk and Return 3 Years**



**Risk and Return 5 Years**

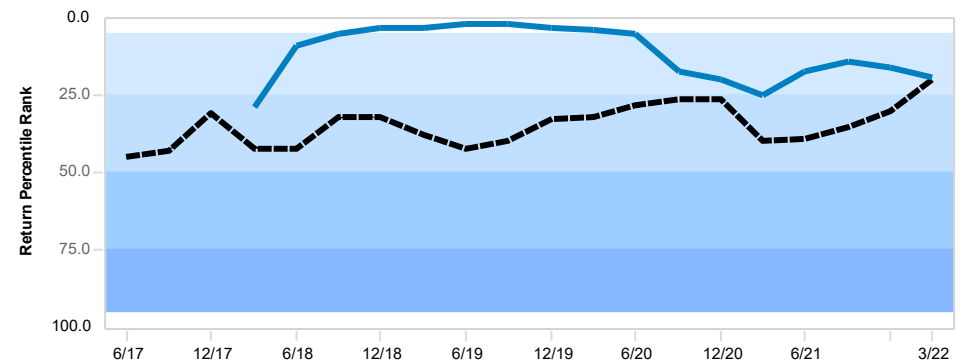


**3 Year Rolling Percentile Rank IM U.S. Large Cap Growth Equity (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	18 (90%)	1 (5%)	1 (5%)	0 (0%)
Index	20	3 (15%)	17 (85%)	0 (0%)	0 (0%)

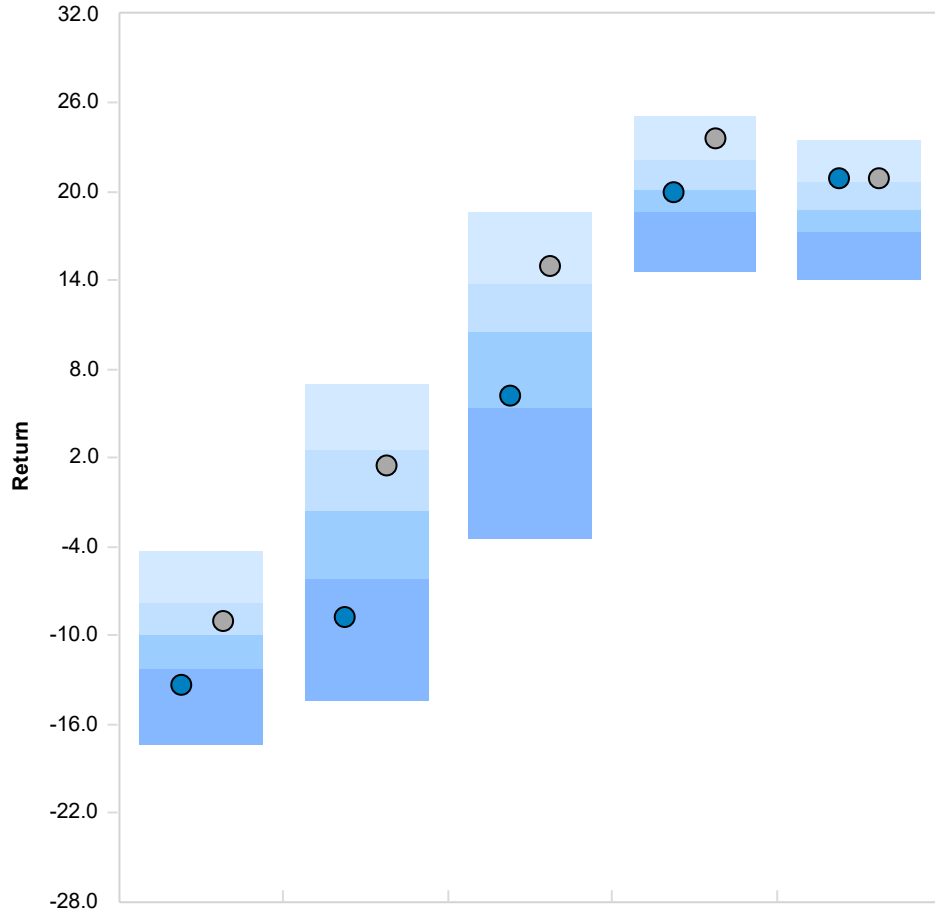
**5 Year Rolling Percentile Rank IM U.S. Large Cap Growth Equity (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	17	16 (94%)	1 (6%)	0 (0%)	0 (0%)
Index	20	1 (5%)	19 (95%)	0 (0%)	0 (0%)

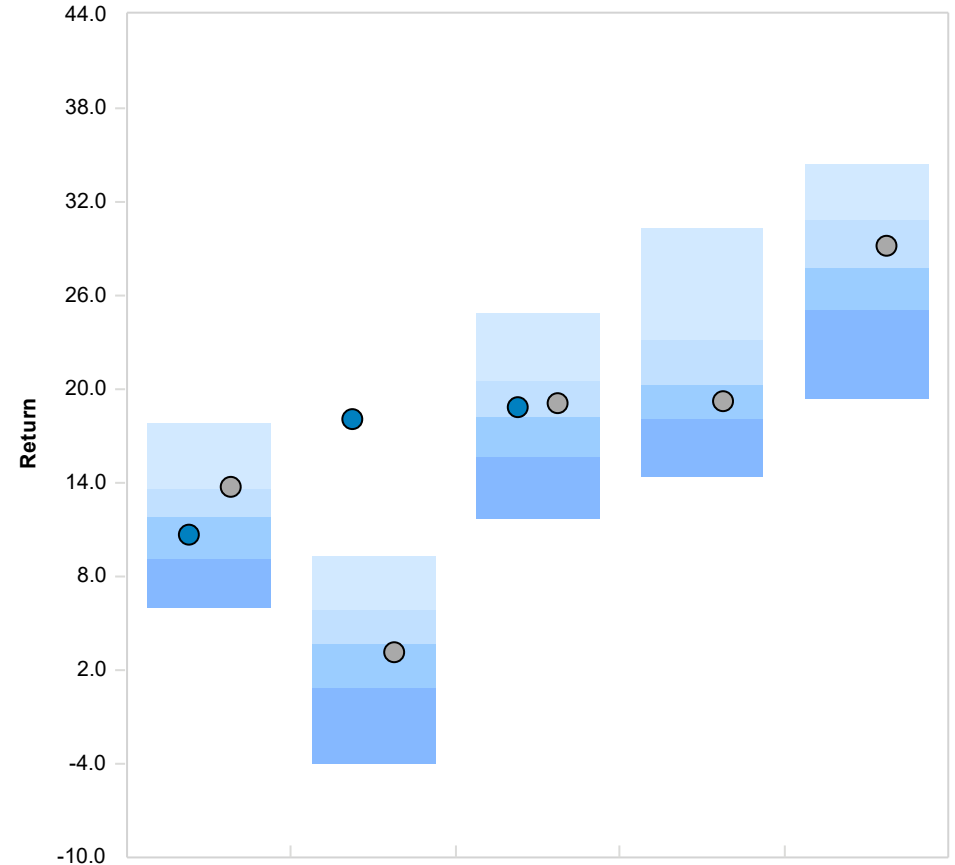


**Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF)**



	QTR	FYTD	1 YR	3 YR	5 YR
● Investment	-13.35 (86)	-8.78 (86)	6.22 (74)	20.03 (52)	20.93 (19)
● Index	-9.04 (41)	1.54 (32)	14.98 (17)	23.60 (12)	20.88 (20)
Median	-9.88	-1.61	10.57	20.08	18.81

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



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	10.63 (64)	18.10 (1)	18.82 (43)	N/A	N/A
● Index	13.76 (23)	3.17 (55)	19.15 (40)	19.27 (64)	29.19 (39)
Median	11.81	3.61	18.18	20.29	27.82

**Comparative Performance**

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	5.27 (82)	2.80 (9)	13.27 (12)	1.79 (58)	10.20 (71)	10.02 (72)
Index	11.64 (24)	1.16 (36)	11.93 (31)	0.94 (72)	11.39 (54)	13.22 (24)
Median	9.32	0.69	10.92	2.30	11.59	11.15



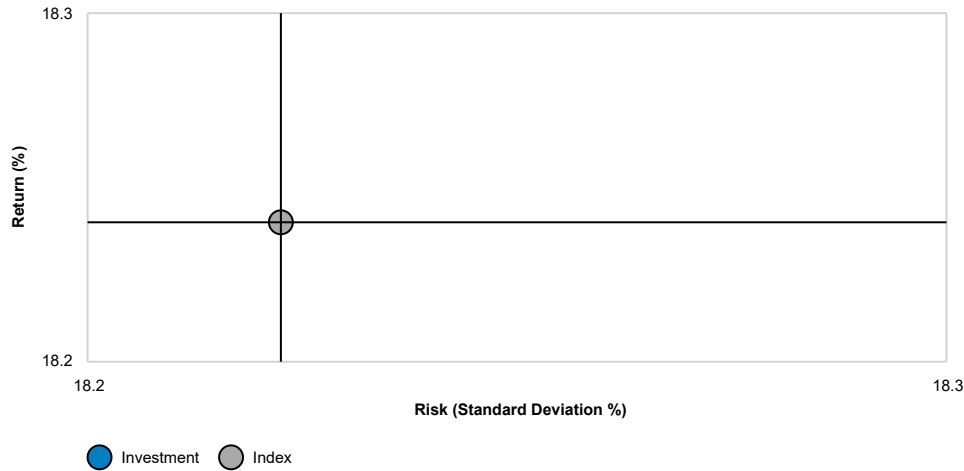
**Historical Statistics 3 Years**

	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	18.24	18.22	0.97	100.00	9	100.00	3

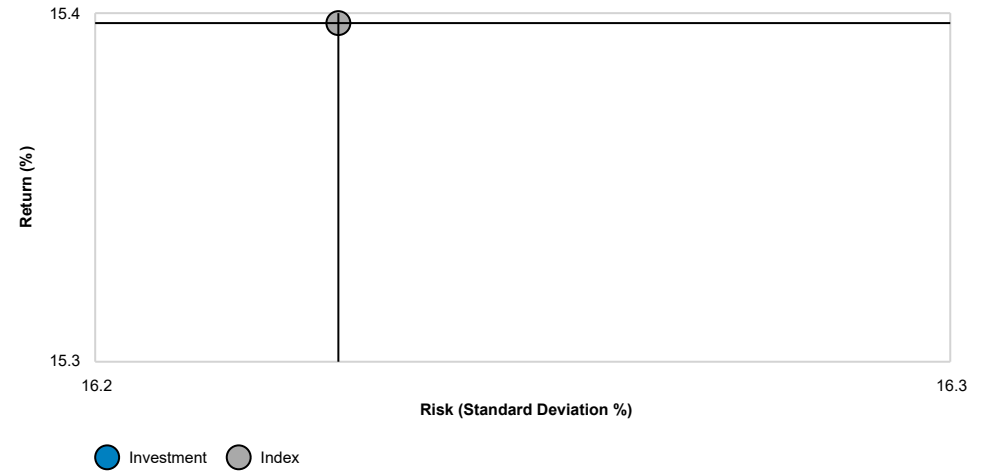
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	15.40	16.23	0.90	100.00	15	100.00	5

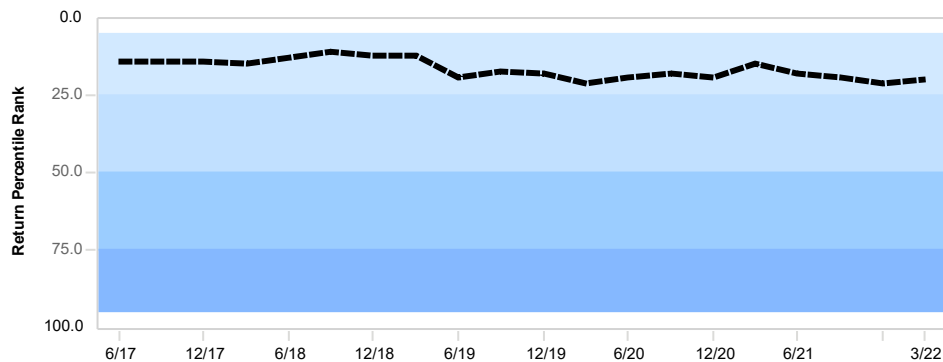
**Risk and Return 3 Years**



**Risk and Return 5 Years**

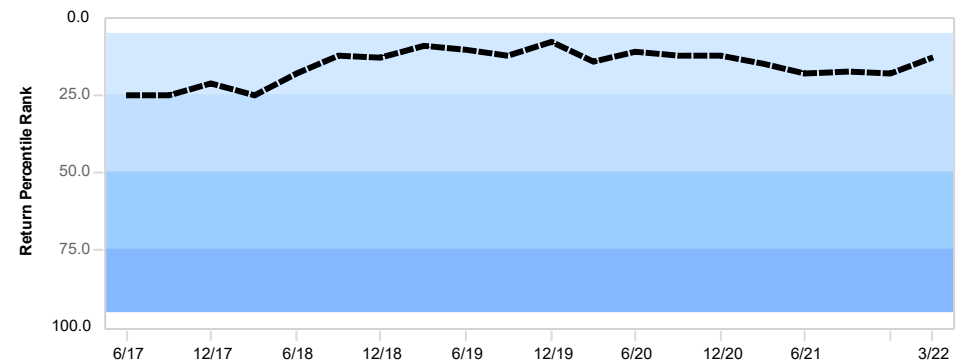


**3 Year Rolling Percentile Rank IM U.S. Multi-Cap Core Equity (MF)**



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

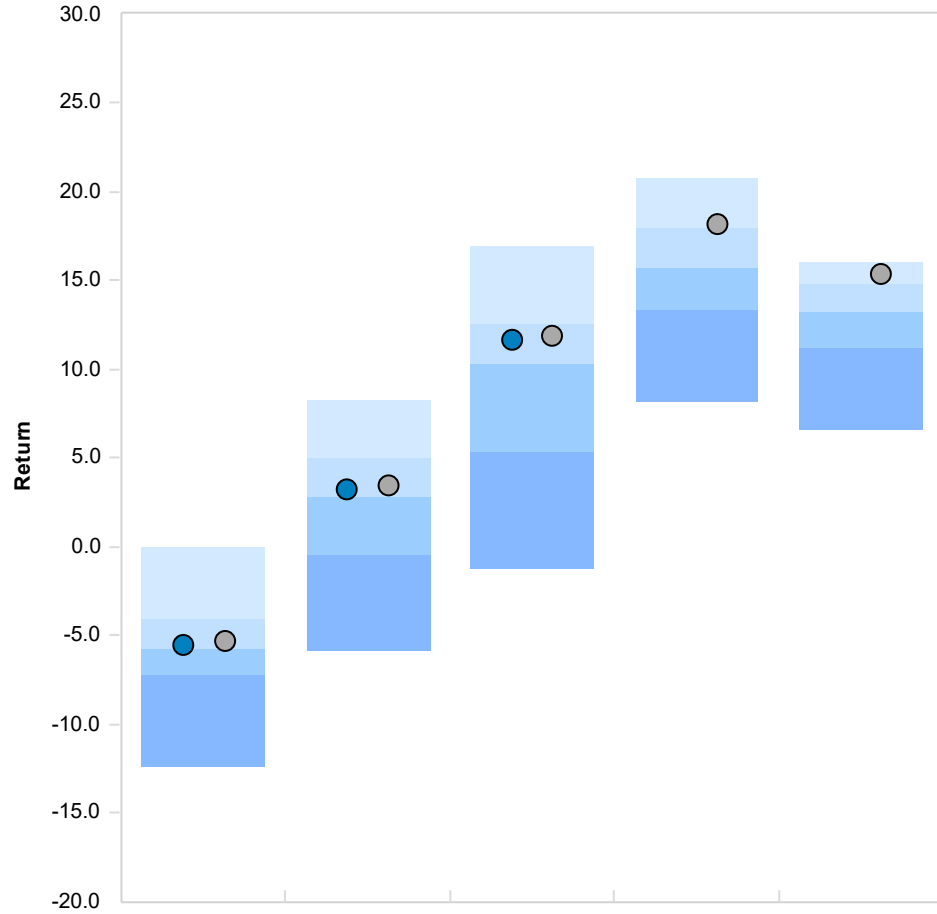
**5 Year Rolling Percentile Rank IM U.S. Multi-Cap Core Equity (MF)**



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

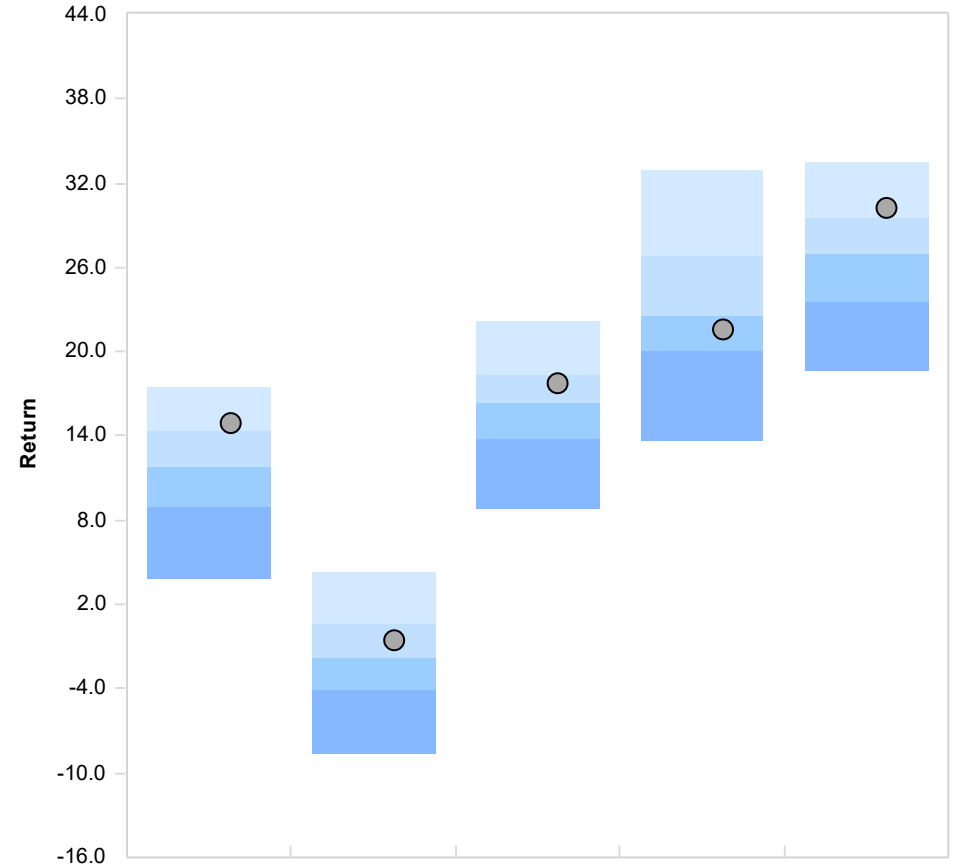


**Peer Group Analysis - IM U.S. Multi-Cap Core Equity (MF)**



	QTR	FYTD	1 YR	3 YR	5 YR
● Investment	-5.46 (47)	3.21 (46)	11.68 (37)	N/A	N/A
● Index	-5.28 (42)	3.51 (40)	11.92 (32)	18.24 (20)	15.40 (13)
Median	-5.69	2.82	10.37	15.76	13.22

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



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	N/A	N/A	N/A	N/A	N/A
● Index	14.96 (17)	-0.49 (33)	17.76 (32)	21.60 (59)	30.20 (18)
Median	11.78	-1.80	16.35	22.62	27.03

**Comparative Performance**

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	9.16 (40)	-0.07 (43)	8.28 (29)	6.43 (54)	14.68 (39)	9.21 (29)
Index	9.28 (36)	-0.10 (45)	8.24 (31)	6.35 (56)	14.68 (39)	9.21 (29)
Median	8.66	-0.22	7.52	6.63	13.82	7.96





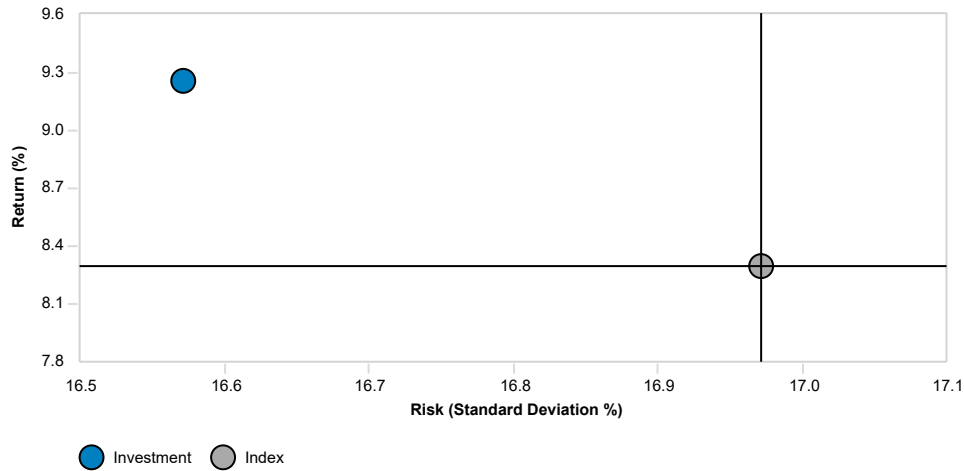
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	9.26	16.57	0.57	102.70	8	99.58	4
Index	8.29	16.97	0.51	100.00	8	100.00	4

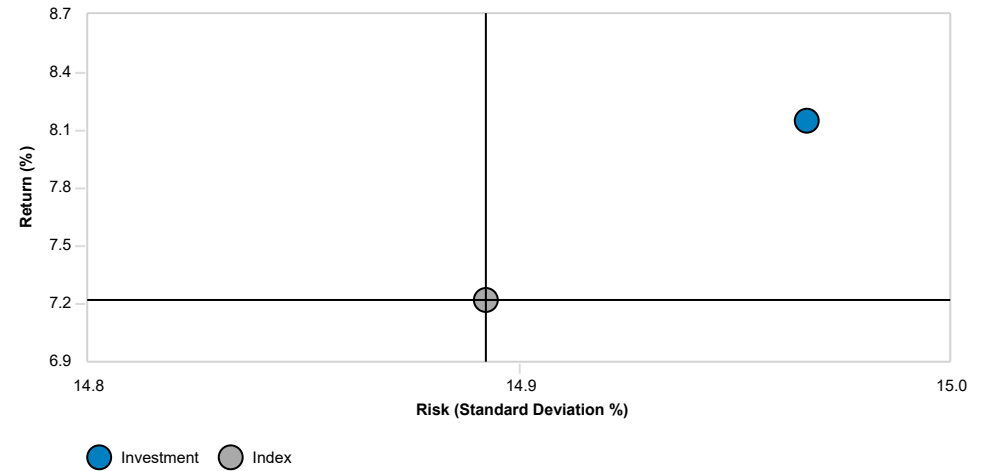
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.15	14.97	0.52	102.46	14	98.24	6
Index	7.23	14.89	0.47	100.00	13	100.00	7

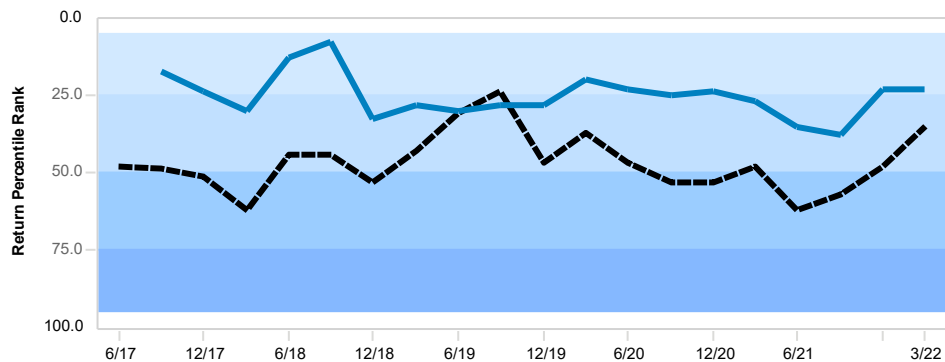
**Risk and Return 3 Years**



**Risk and Return 5 Years**

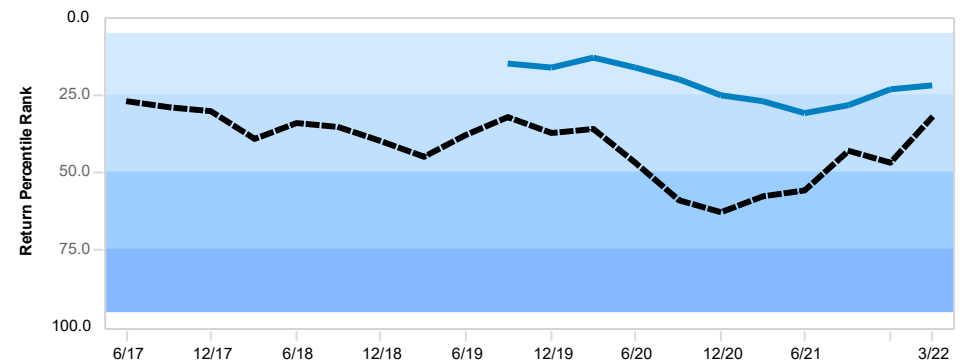


**3 Year Rolling Percentile Rank IM International Equity (MF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	19	10 (53%)	9 (47%)	0 (0%)	0 (0%)
Index	20	1 (5%)	12 (60%)	7 (35%)	0 (0%)

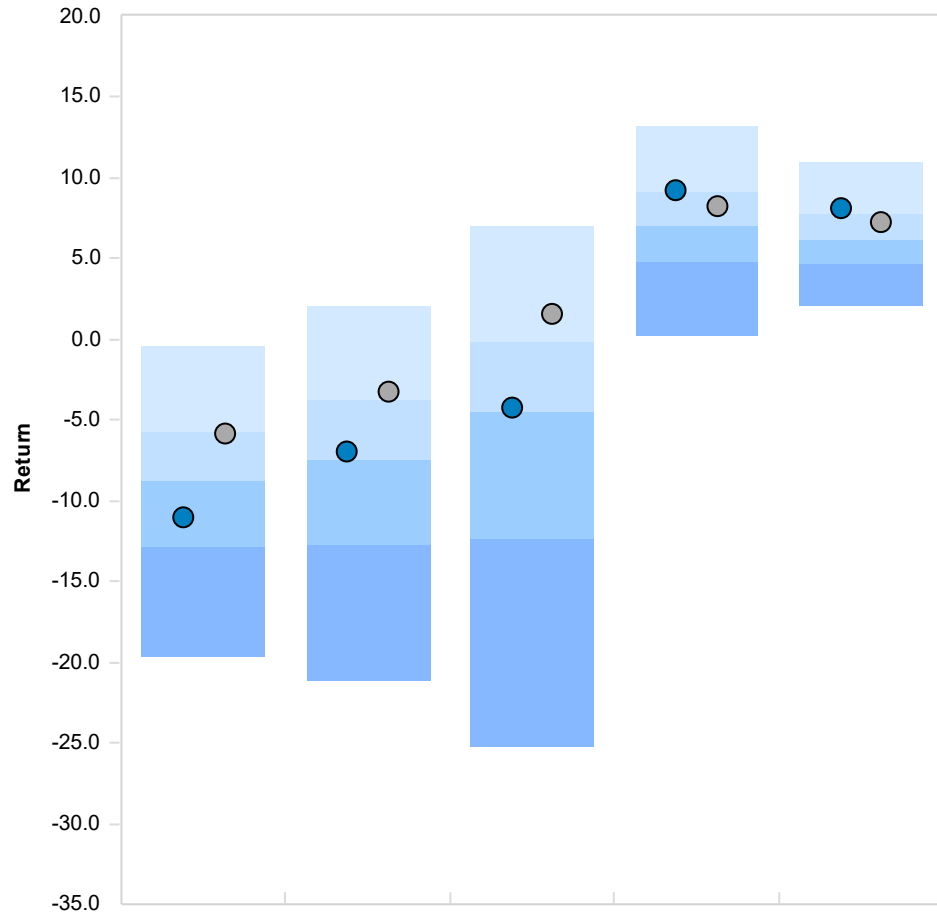
**5 Year Rolling Percentile Rank IM International Equity (MF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	11	8 (73%)	3 (27%)	0 (0%)	0 (0%)
Index	20	0 (0%)	16 (80%)	4 (20%)	0 (0%)

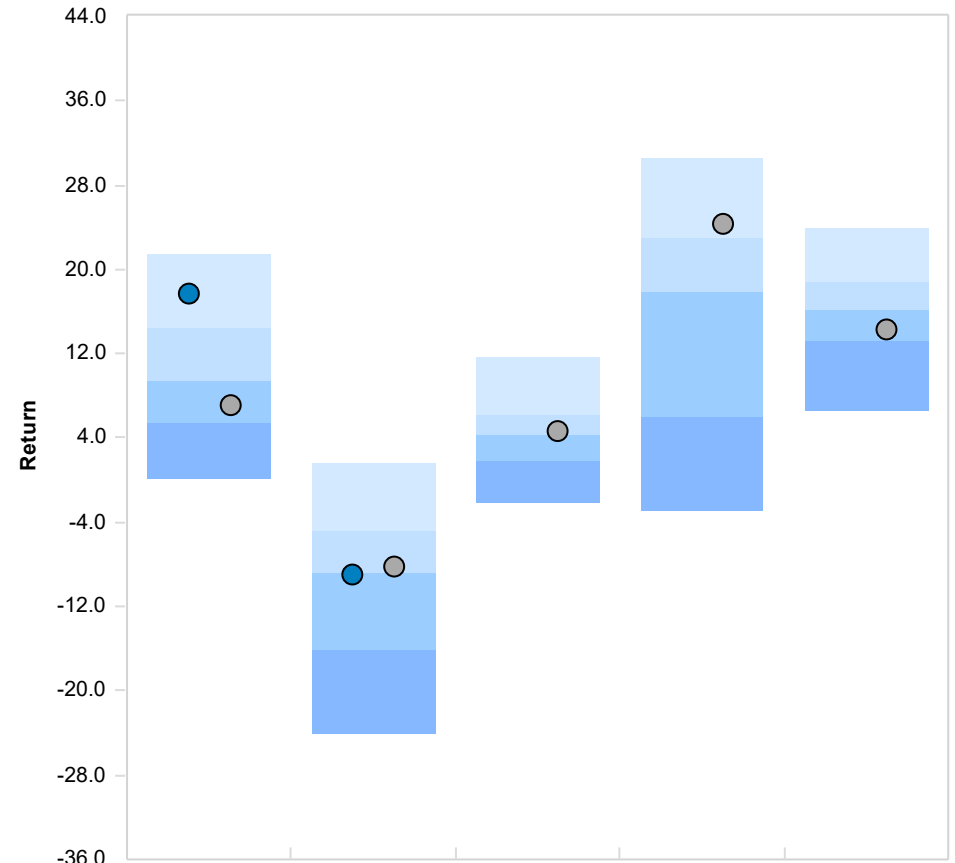


Peer Group Analysis - IM International Equity (MF)



	QTR	FYTD	1 YR	3 YR	5 YR
● Investment	-10.97 (66)	-6.90 (48)	-4.20 (49)	9.26 (23)	8.15 (22)
● Index	-5.79 (26)	-3.21 (22)	1.65 (17)	8.29 (35)	7.23 (32)
Median	-8.81	-7.43	-4.45	7.02	6.17

Peer Group Analysis - IM International Equity (MF)



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	17.62 (13)	-9.04 (52)	N/A	N/A	N/A
● Index	7.06 (65)	-8.27 (47)	4.70 (44)	24.29 (19)	14.33 (66)
Median	9.32	-8.75	4.26	17.81	16.20

Comparative Performance

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	4.58 (10)	-2.38 (49)	5.41 (48)	0.84 (75)	16.13 (57)	8.64 (43)
Index	2.74 (32)	-0.35 (22)	5.38 (48)	3.60 (44)	16.09 (58)	4.88 (76)
Median	1.23	-2.46	5.32	3.18	16.91	7.88



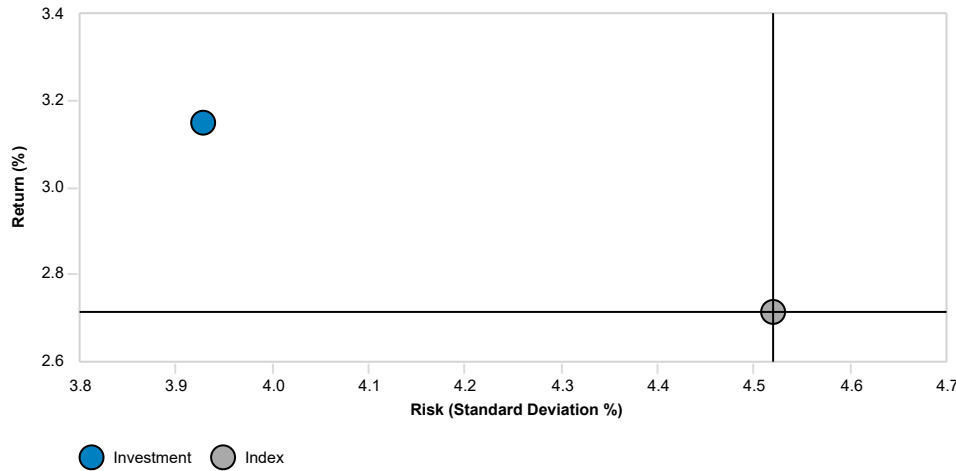
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.15	3.93	0.61	88.88	9	74.36	3
Index	2.72	4.52	0.45	100.00	9	100.00	3

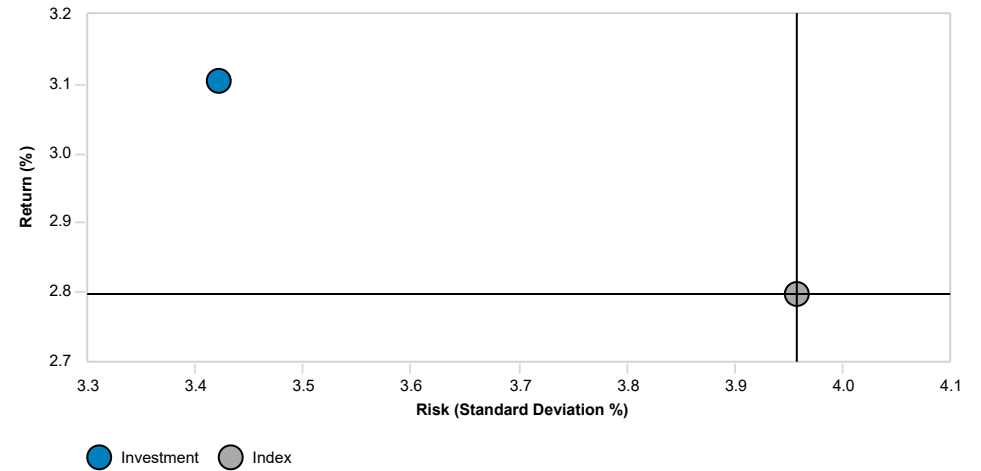
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.10	3.42	0.59	88.70	16	73.86	4
Index	2.80	3.96	0.44	100.00	15	100.00	5

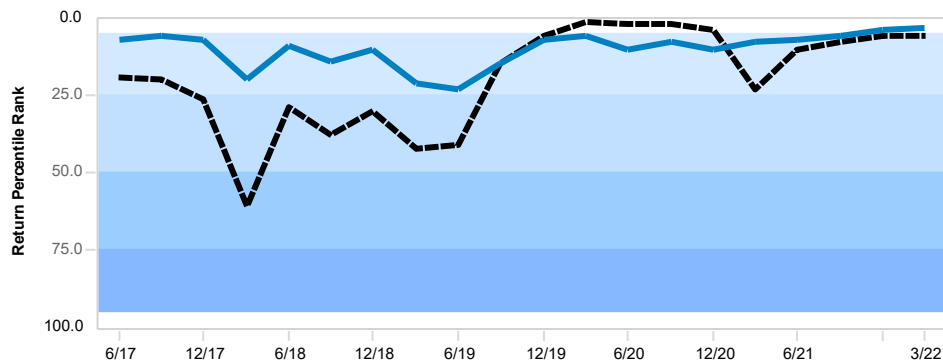
**Risk and Return 3 Years**



**Risk and Return 5 Years**

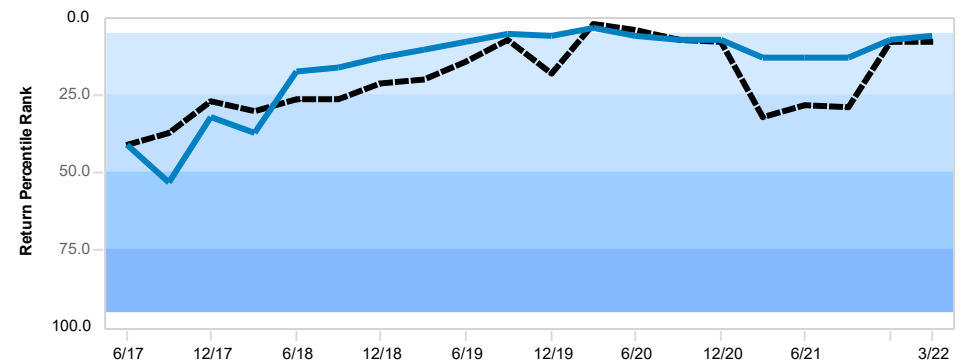


**3 Year Rolling Percentile Rank IM U.S. Intermediate Duration (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)
Index	20	13 (65%)	6 (30%)	1 (5%)	0 (0%)

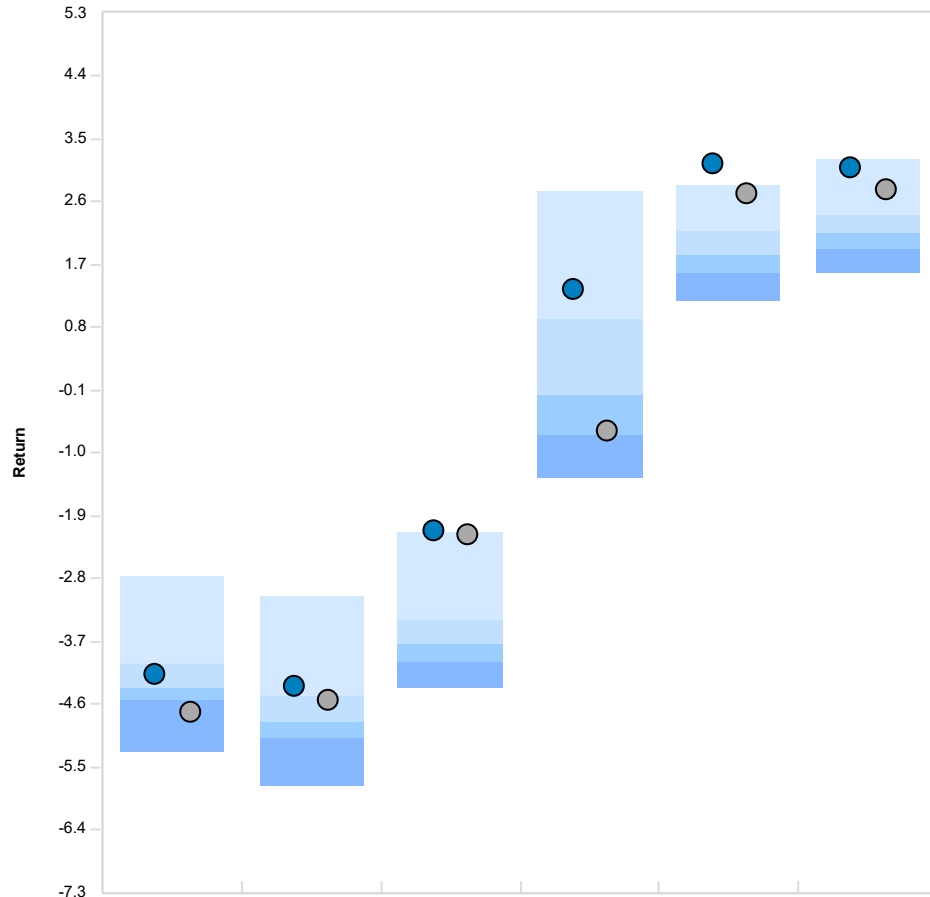
**5 Year Rolling Percentile Rank IM U.S. Intermediate Duration (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	16 (80%)	3 (15%)	1 (5%)	0 (0%)
Index	20	11 (55%)	9 (45%)	0 (0%)	0 (0%)

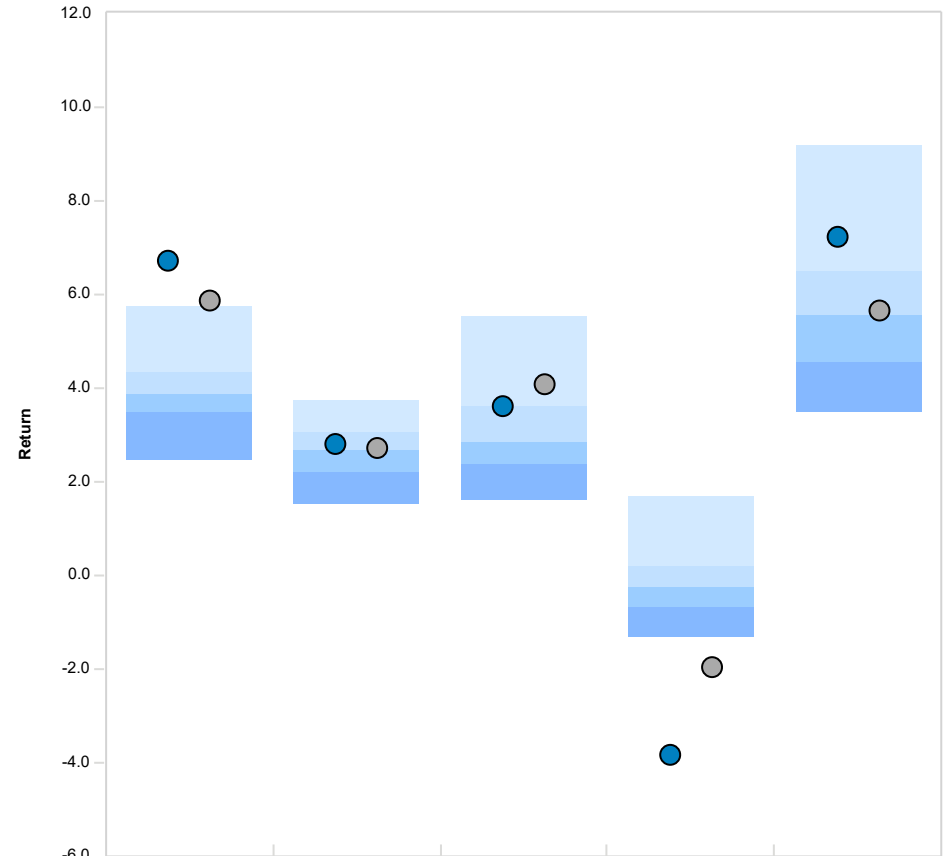


**Plan Sponsor Peer Group Analysis vs. IM U.S. Intermediate Duration (SA+CF)**



	QTR	FYTD	1 YR	2 YR	3 YR	5 YR
● Investment	-4.15 (33)	-4.34 (20)	-2.09 (5)	1.36 (11)	3.15 (3)	3.10 (6)
● Index	-4.69 (88)	-4.51 (26)	-2.17 (6)	-0.66 (73)	2.72 (6)	2.80 (8)
Median	-4.35	-4.85	-3.73	-0.15	1.83	2.15

**Plan Sponsor Peer Group Analysis vs. IM U.S. Intermediate Duration (SA+CF)**



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	6.73 (3)	2.80 (43)	3.62 (25)	-3.82 (100)	7.21 (15)
● Index	5.86 (5)	2.73 (47)	4.08 (14)	-1.96 (100)	5.66 (46)
Median	3.89	2.70	2.87	-0.26	5.56

**Comparative Performance**

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	-0.20 (9)	0.18 (17)	2.16 (5)	-2.04 (92)	1.47 (15)	1.43 (14)
Index	0.18 (3)	0.04 (67)	2.42 (2)	-4.28 (100)	0.82 (44)	0.78 (57)
Median	-0.52	0.07	1.05	-1.60	0.71	0.86



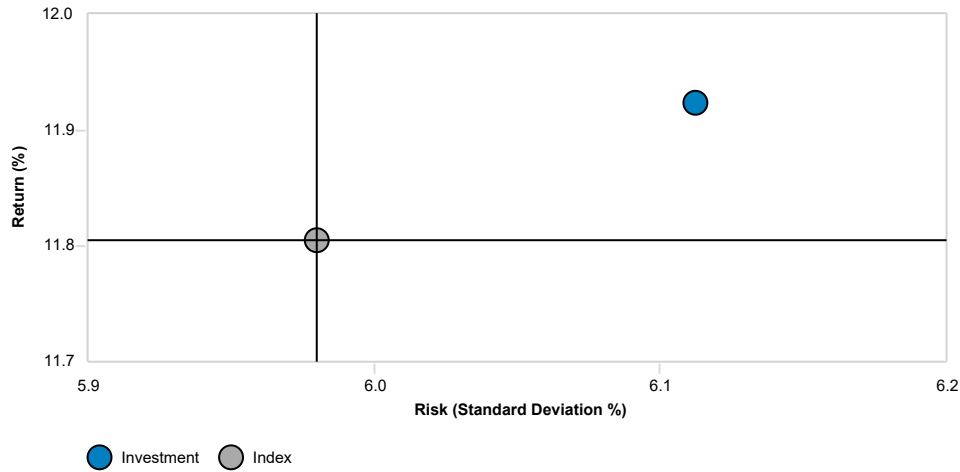
**Historical Statistics 3 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.92	6.11	1.71	100.06	10	79.04	2
Index	11.81	5.98	1.72	100.00	11	100.00	1

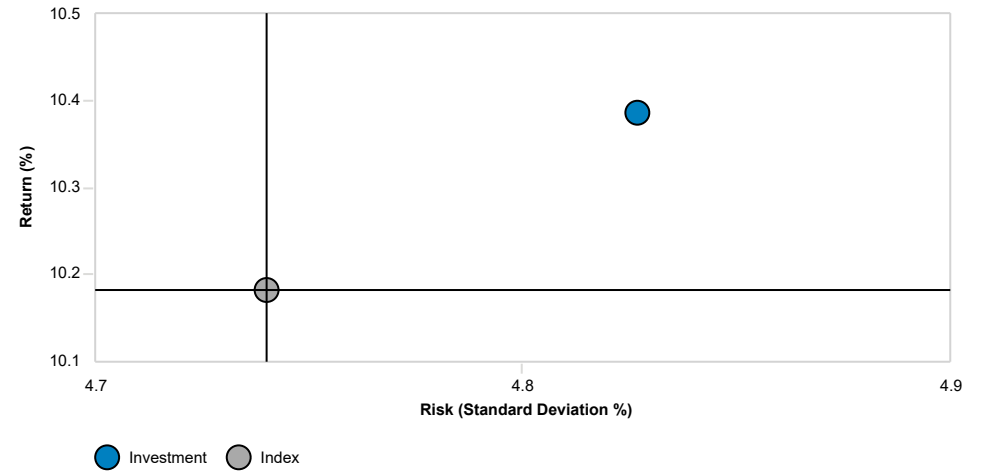
**Historical Statistics 5 Years**

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.39	4.83	1.79	101.25	18	79.04	2
Index	10.18	4.74	1.77	100.00	19	100.00	1

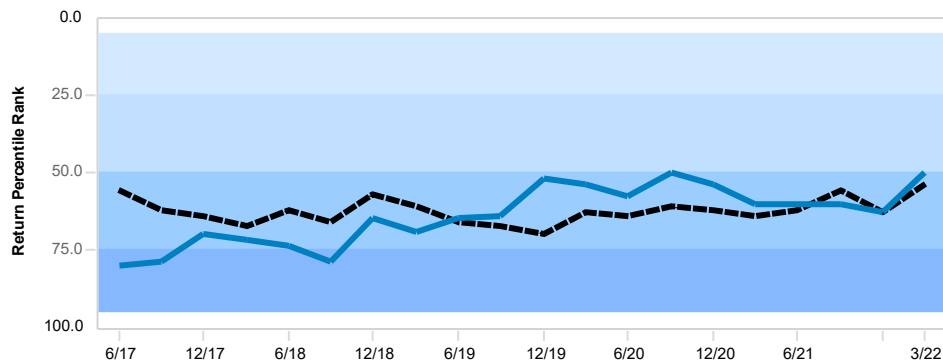
**Risk and Return 3 Years**



**Risk and Return 5 Years**

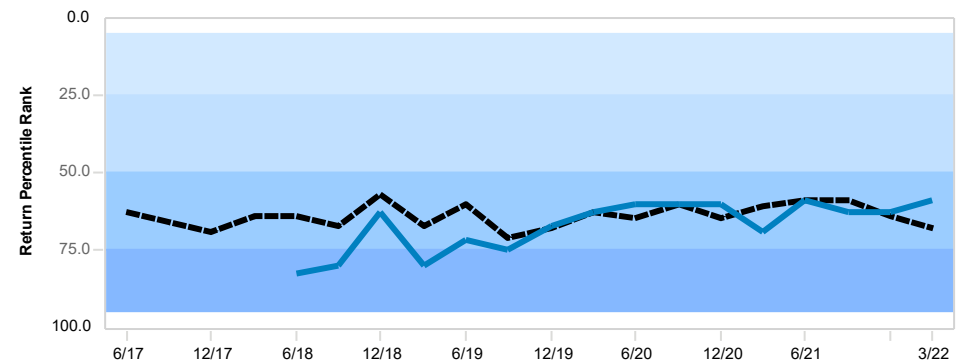


**3 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	2 (10%)	15 (75%)	3 (15%)
Index	20	0 (0%)	0 (0%)	20 (100%)	0 (0%)

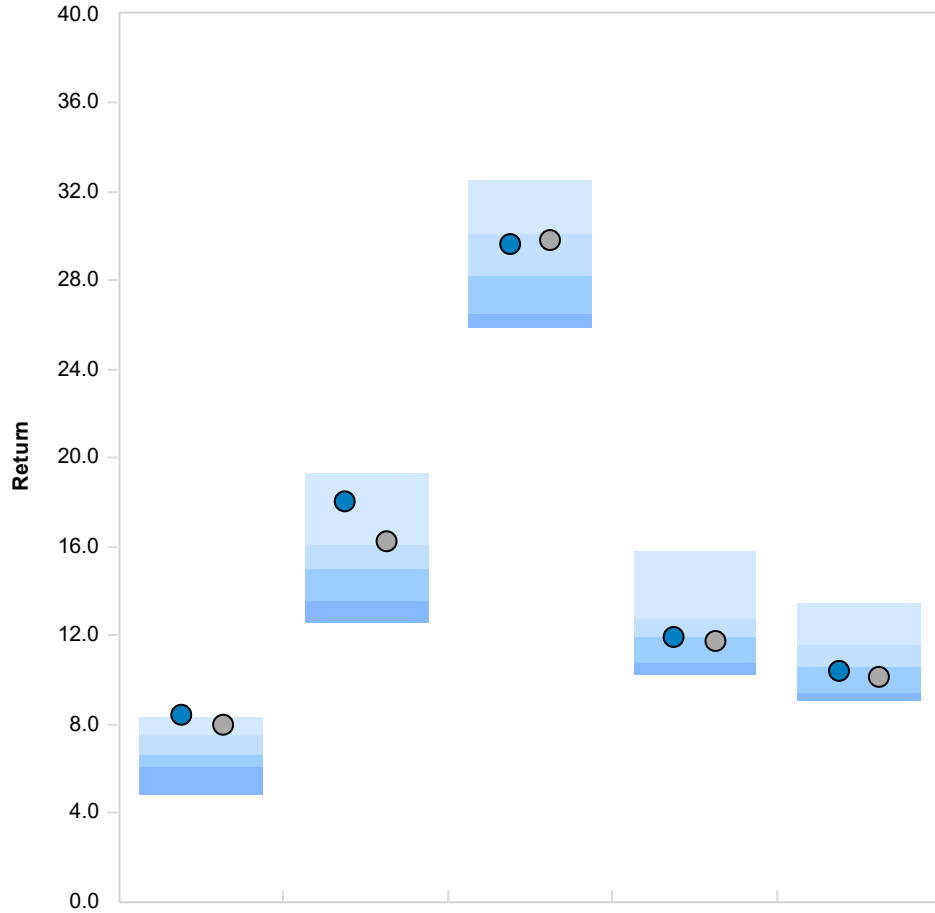
**5 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)**



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	16	0 (0%)	0 (0%)	13 (81%)	3 (19%)
Index	20	0 (0%)	0 (0%)	20 (100%)	0 (0%)

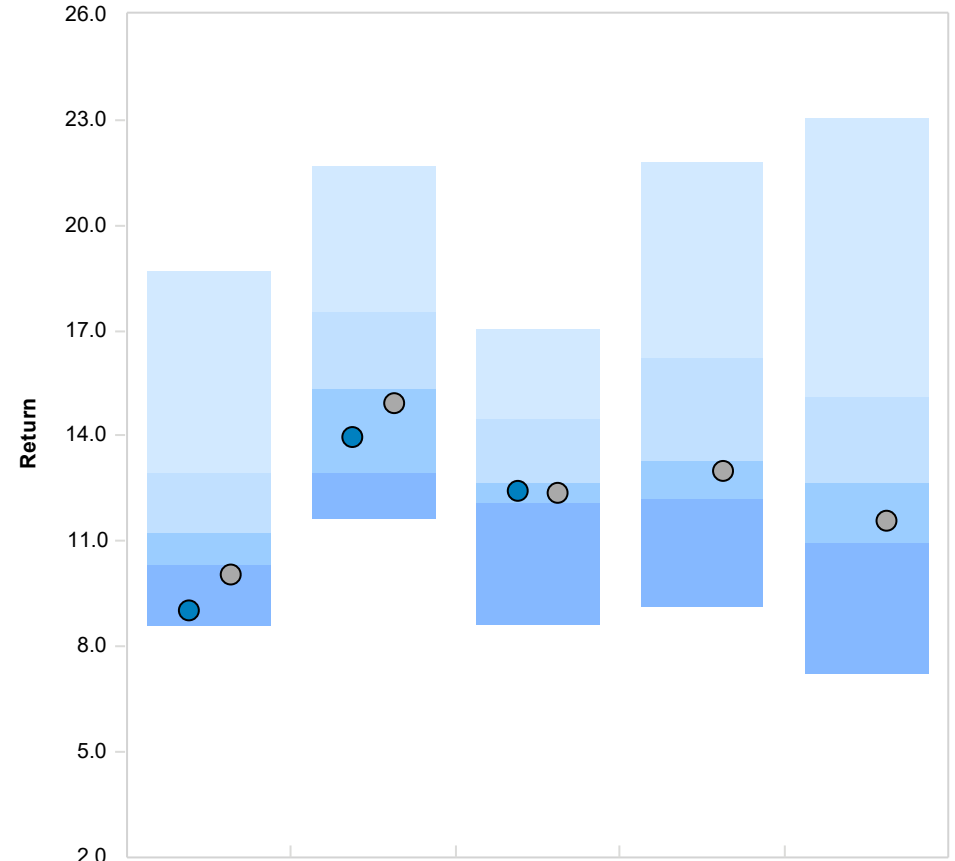


**Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF)**



	QTR	FYTD	1 YR	3 YR	5 YR
● Investment	8.46 (1)	18.02 (17)	29.68 (34)	11.92 (50)	10.39 (59)
● Index	7.97 (13)	16.28 (25)	29.84 (31)	11.81 (54)	10.18 (68)
Median	6.61	15.01	28.27	11.92	10.65

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



	4 Quarters Ending Sep-2016	4 Quarters Ending Sep-2015	4 Quarters Ending Sep-2014	4 Quarters Ending Sep-2013	4 Quarters Ending Sep-2012
● Investment	9.05 (92)	13.97 (64)	12.43 (65)	N/A	N/A
● Index	10.08 (80)	14.93 (57)	12.40 (66)	13.04 (56)	11.61 (64)
Median	11.26	15.32	12.68	13.28	12.64

**Comparative Performance**

	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	8.81 (30)	5.62 (80)	4.03 (56)	1.87 (56)	1.42 (58)	-0.14 (81)
Index	7.70 (44)	6.96 (35)	4.39 (41)	2.28 (40)	1.36 (59)	0.57 (48)
Median	7.57	6.33	4.17	2.10	1.63	0.49



**Miami Springs Police and Fire  
Fee Analysis  
As of March 31, 2022**

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
<b>Total Fund Composite</b>	<b>0.46</b>	<b>40,022,072</b>	<b>183,411</b>	
Highland Capital Equity	0.40	7,924,479	31,698	0.40 % of Assets
Polen Capital	0.55	8,683,098	47,757	0.55 % of Assets
Vanguard Total Stock Mkt Idx Adm (VTSAX)	0.04	4,767,676	1,907	0.04 % of Assets
Harding Loevner (HLMIX)	0.79	4,791,921	37,856	0.79 % of Assets
Highland Capital Fixed Income	0.25	10,094,955	25,237	0.25 % of Assets
ARA Core Property Fund	1.10	3,541,416	38,956	1.10 % of Assets



**Benchmark History**  
**Investment Policy Benchmarks**  
As of March 31, 2022

Total Fund Historical Hybrid Composition		Total Equity Historical Hybrid Composition	
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
<b>Jan-1973</b>		<b>Jan-1996</b>	
S&P 500 Index	50.00	S&P 500 Index	100.00
Blmbg. U.S. Gov't/Credit	50.00		
<b>Jan-2007</b>		<b>Jan-2013</b>	
S&P 500 Index	60.00	S&P 500 Index	58.00
Blmbg. U.S. Gov't/Credit	40.00	Russell 1000 Growth Index	42.00
<b>Jan-2013</b>		<b>Oct-2014</b>	
S&P 500 Index	35.00	S&P 500 Index	50.00
Russell 1000 Growth Index	25.00	Russell 1000 Growth Index	33.30
Blmbg. U.S. Gov't/Credit	40.00	MSCI EAFE Index	16.70
<b>Oct-2014</b>		<b>Jul-2018</b>	
S&P 500 Index	30.00	S&P 500 Index	40.30
Russell 1000 Growth Index	20.00	Russell 1000 Growth Index	40.30
MSCI EAFE Index	10.00	MSCI EAFE Index	19.40
Blmbg. U.S. Gov't/Credit	32.50		
NCREIF Fund Index-ODCE (VW)	7.50	<b>Sep-2020</b>	
<b>Jul-2018</b>		S&P 500 Index	80.60
S&P 500 Index	25.00	MSCI EAFE Index	19.40
Russell 1000 Growth Index	25.00		
MSCI EAFE Index	12.00	<b>Highland Capital Historical Hybrid Composition</b>	
Blmbg. U.S. Gov't/Credit	30.50	<b>Allocation Mandate</b>	
NCREIF Fund Index-ODCE (VW)	7.50	<b>Weight (%)</b>	
<b>Sep-2020</b>		<b>Jan-1973</b>	
S&P 500 Index	50.00	S&P 500 Index	50.00
MSCI EAFE Index	12.00	Blmbg. U.S. Gov't/Credit	50.00
Blmbg. U.S. Gov't/Credit	30.50	<b>Jan-2007</b>	
NCREIF Fund Index-Open End Diversified Core (EW)	7.50	S&P 500 Index	60.00
90 Day U.S. Treasury Bill	0.00	Blmbg. U.S. Gov't/Credit	40.00
<b>Jan-2022</b>		<b>Oct-2014</b>	
S&P 500 Index	50.00	S&P 500 Index	48.00
MSCI EAFE Index	12.00	Blmbg. U.S. Gov't/Credit	52.00
Bloomberg Intermed Aggregate Index	30.50	<b>Jul-2018</b>	
NCREIF Fund Index-Open End Diversified Core (EW)	7.50	S&P 500 Index	45.00
90 Day U.S. Treasury Bill	0.00	Blmbg. U.S. Gov't/Credit	55.00





<b>Total Domestic Equity Policy</b>	
<b>Allocation Mandate</b>	<b>Weight (%)</b>
<b>Jul-2018</b>	
S&P 500 Index	50.00
Russell 1000 Growth Index	50.00
<b>Sep-2020</b>	
S&P 500 Index	100.00

<b>Total Fixed Income Policy</b>	
<b>Allocation Mandate</b>	<b>Weight (%)</b>
<b>Jan-1973</b>	
Blmbg. U.S. Gov't/Credit	100.00
<b>Jan-2022</b>	
Bloomberg Intermed Aggregate Index	100.00



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



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