

Investment Performance Review  
Period Ending March 31, 2022

## **North Palm Beach Fire & Police Pension Fund**

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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.

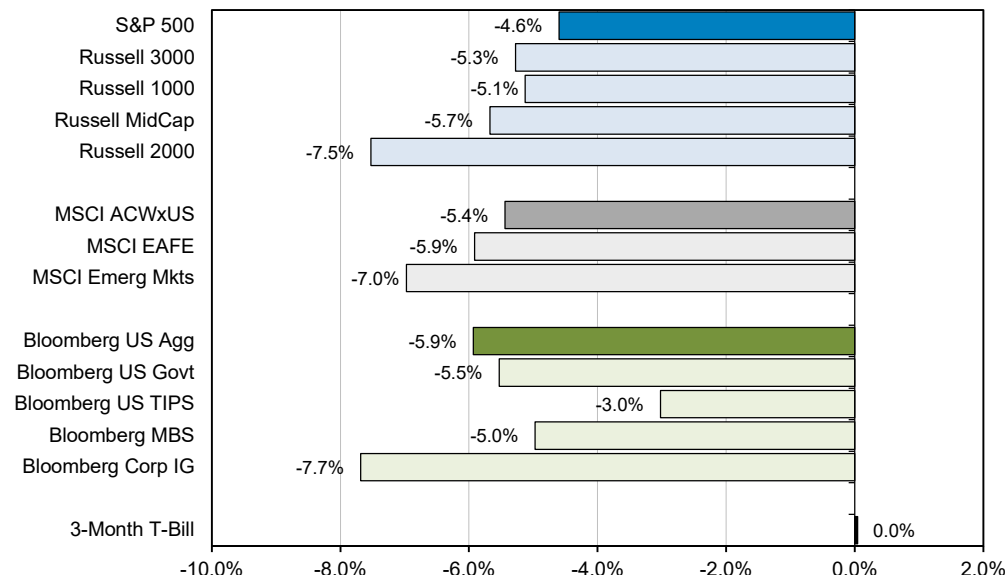
## **Market Themes**

- 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.

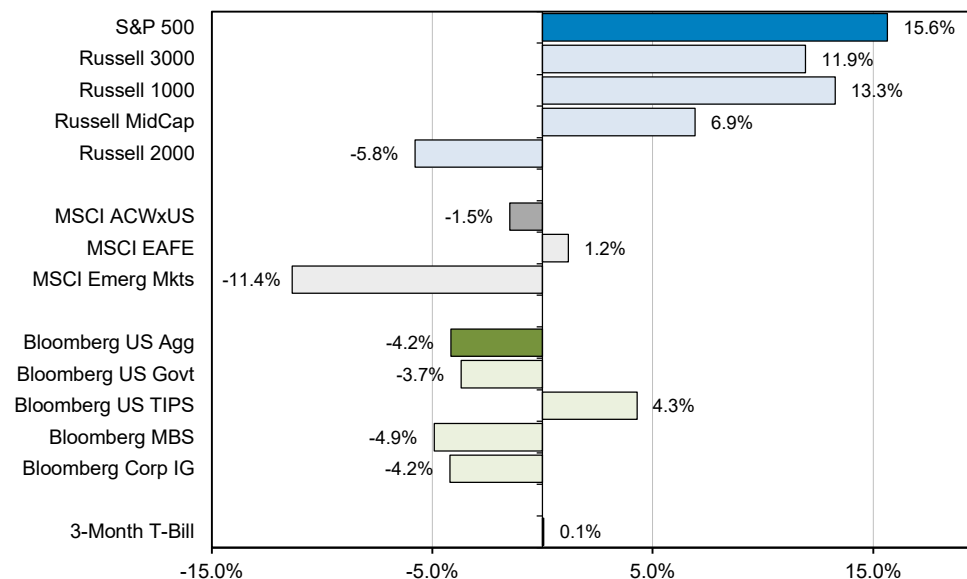


- Broad US equity markets experienced weak, negative returns during the 1st quarter of 2022. A variety of factors contributed to performance including elevated inflation, rising interest rate expectations, geopolitical events in Ukraine, and concerns related to slower economic growth. For the period, 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%.
- 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.

### Quarter Performance



### 1-Year Performance

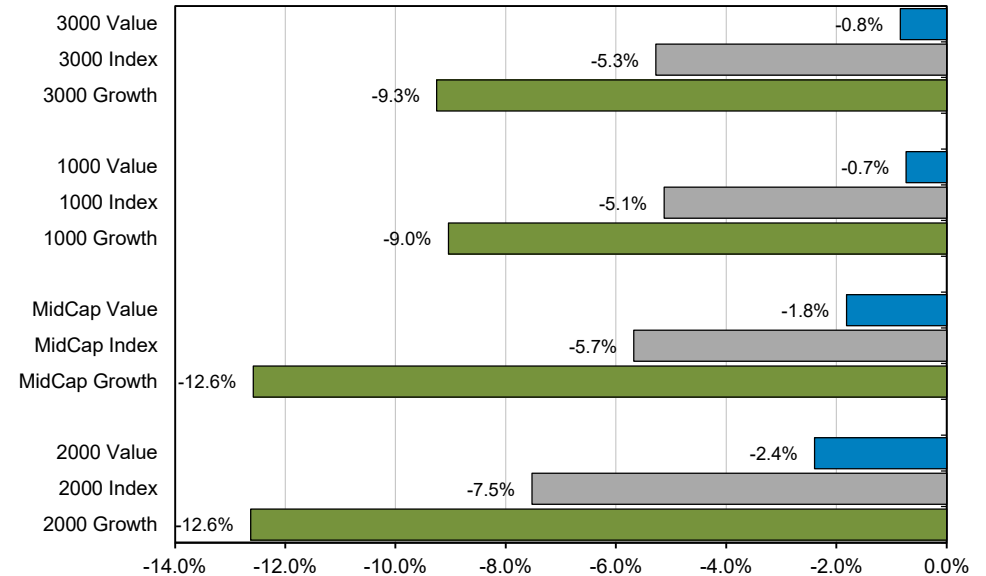


Source: Investment Metrics

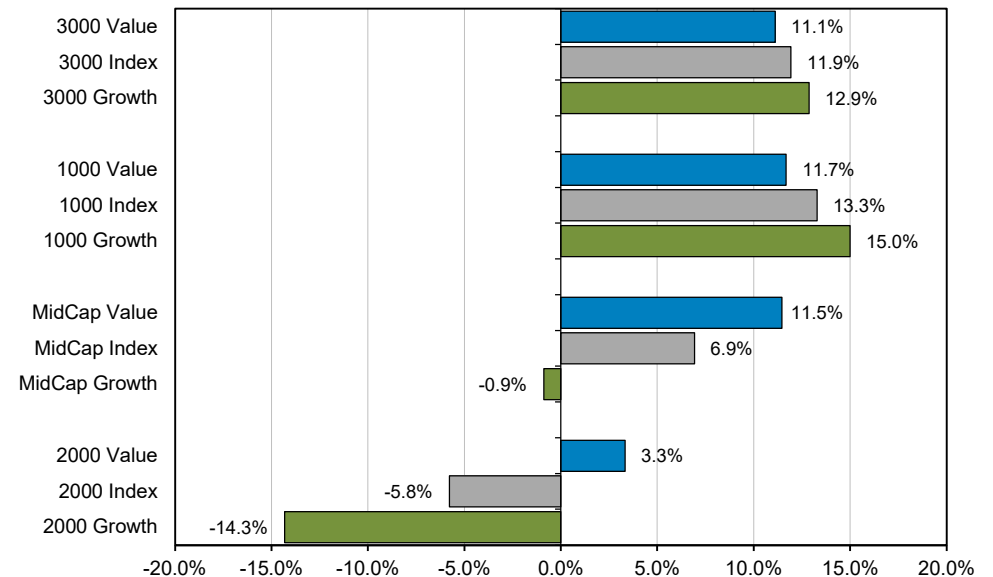


- Momentum shifted during the 1st quarter as each broad US equity benchmark posted negative results across both the style and market capitalization spectrums. Large cap stocks continued their leadership, followed by mid and small cap issues. The Russell 1000 Index declined by -5.1% for the quarter while 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%.
- 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%.

**Quarter Performance - Russell Style Series**



**1-Year Performance - Russell Style Series**

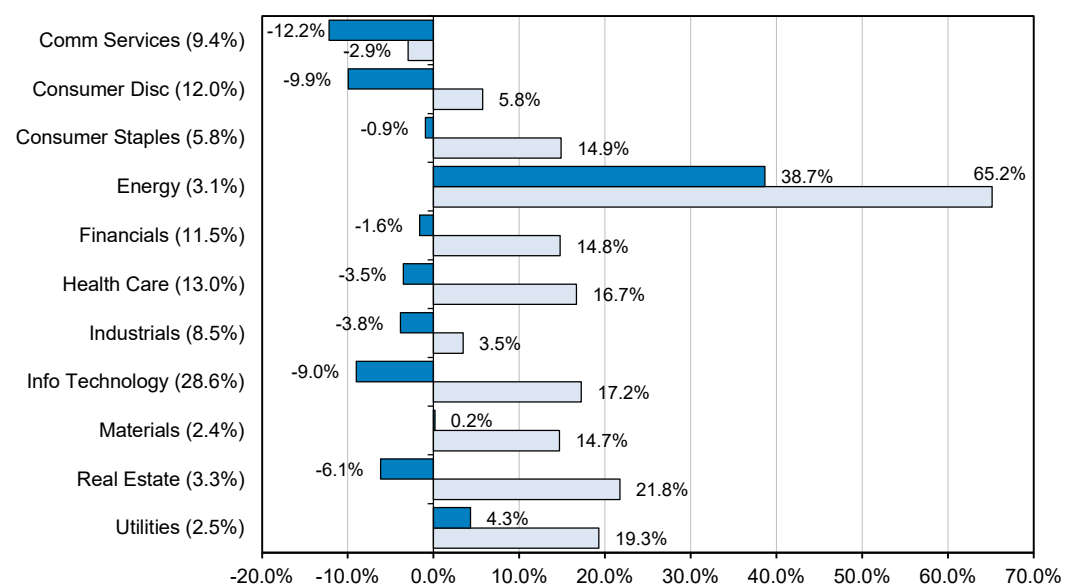


Source: Investment Metrics

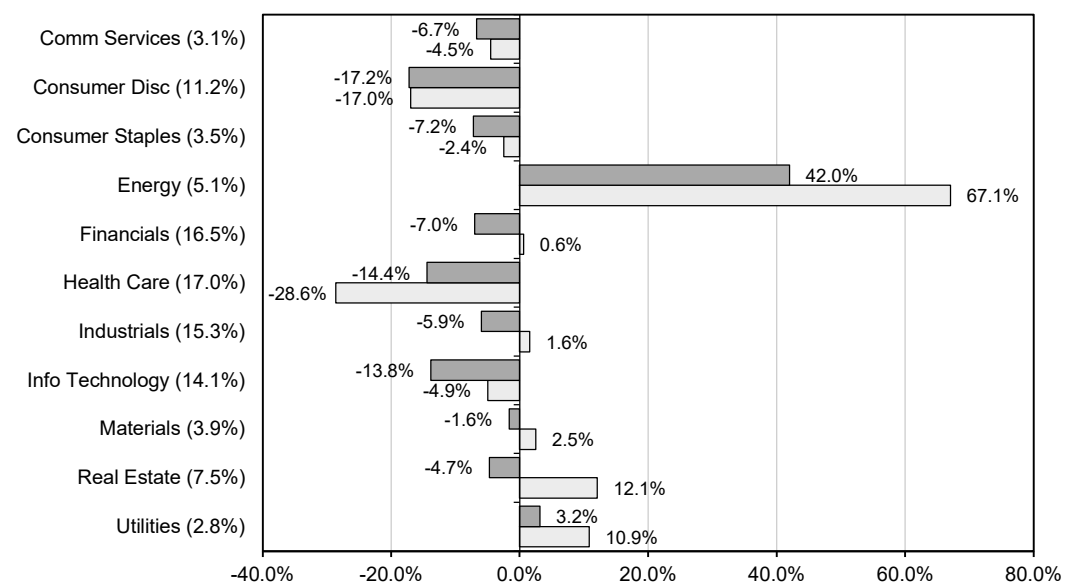


- Economic sector performance was negative across eight of the eleven large cap economic sectors for the 1st quarter. However, the three positive sectors represent less than 10% of the index. Four additional sectors outpaced the return of the broad index on a relative basis during the period.
- Energy (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%.

**Russell 1000**



**Russell 2000**



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

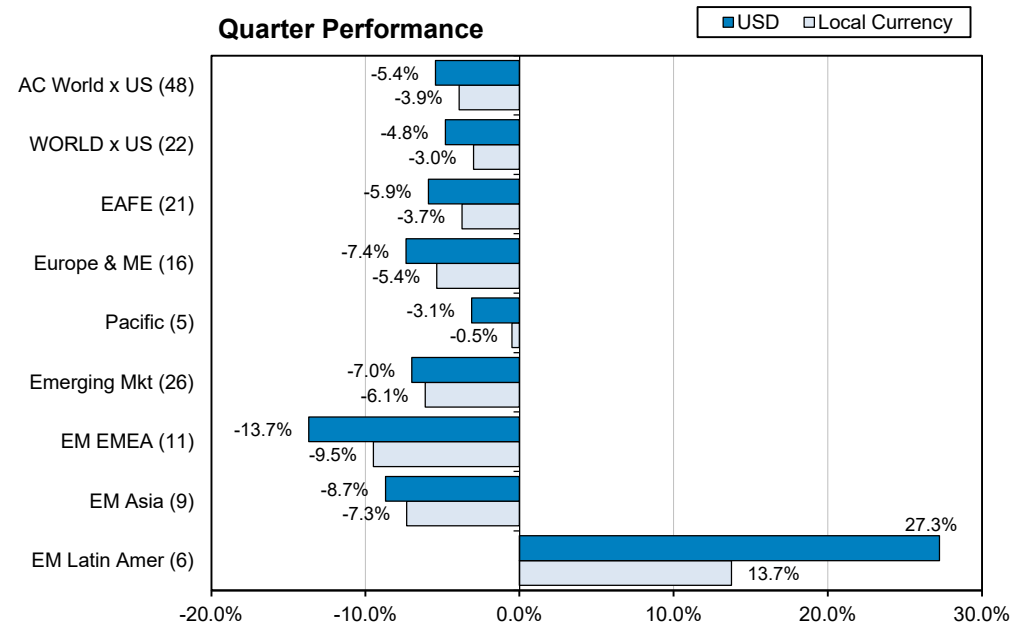




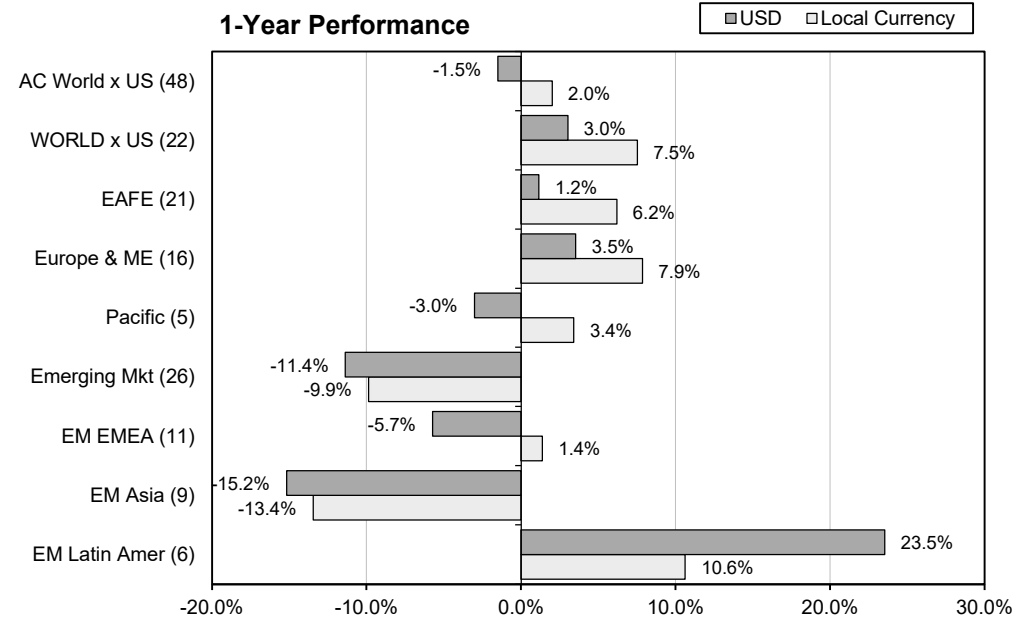
- Most developed market international equity indexes tracked in the chart posted negative returns in both US dollar (USD) and local currency (LC) terms for the 1st quarter. The outlier during the period was the Latin America region. This strong performance was led by Brazil which benefited from rising 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.

- 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.

### Quarter Performance



### 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>

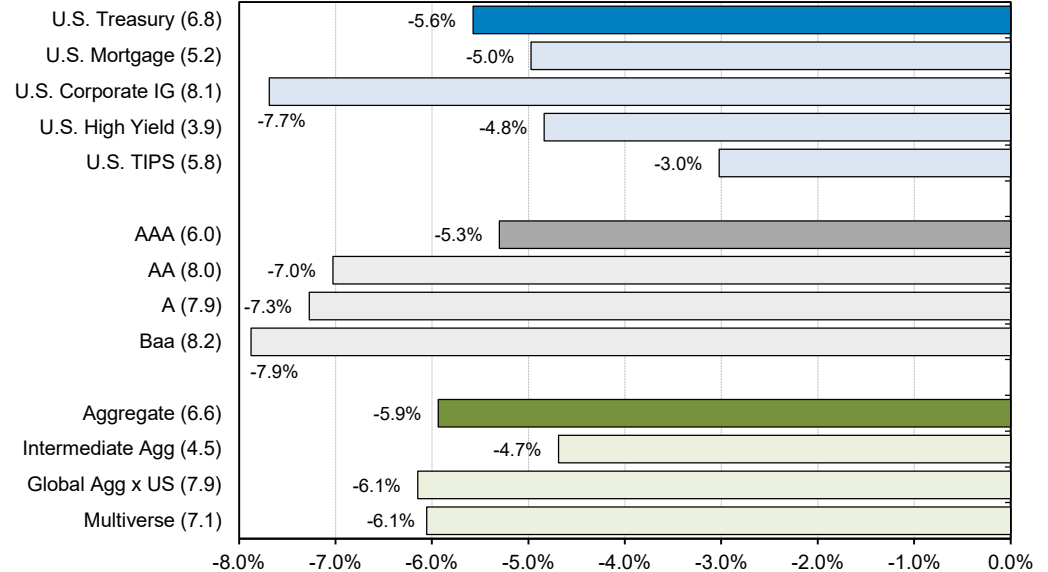
Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	22.3%	14.1%	-6.6%	-6.5%
United Kingdom	15.3%	9.6%	1.8%	13.6%
France	11.4%	7.2%	-8.7%	4.5%
Switzerland	10.4%	6.6%	-6.4%	13.9%
Germany	8.2%	5.2%	-12.9%	-12.0%
Australia	8.2%	5.1%	7.3%	13.5%
Netherlands	4.4%	2.8%	-17.4%	-5.2%
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.

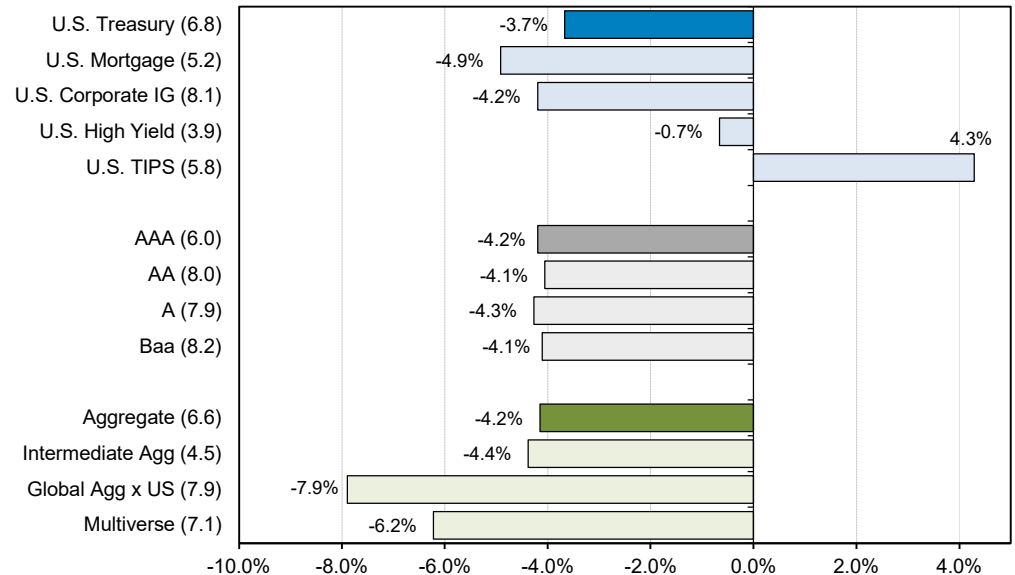


- Fixed income market results were broadly negative during the 1st quarter. Investors' concerns about rising inflation, combined with expectations of higher US interest rates, detracted from performance. US Treasury yields were higher across the maturity curve but remained below their long-term averages.
- 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.

### Quarter Performance



### 1-Year Performance

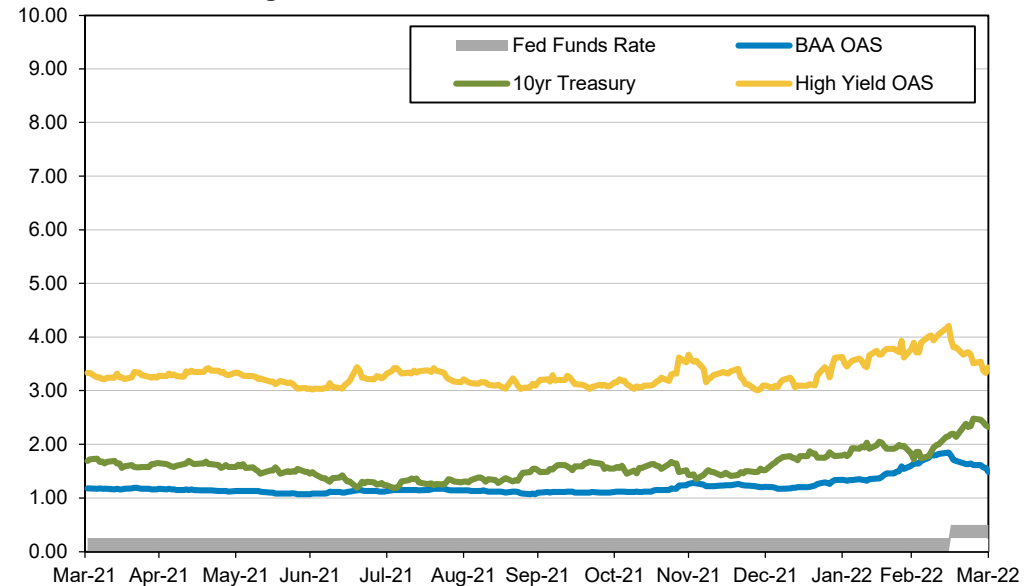


Source: Bloomberg

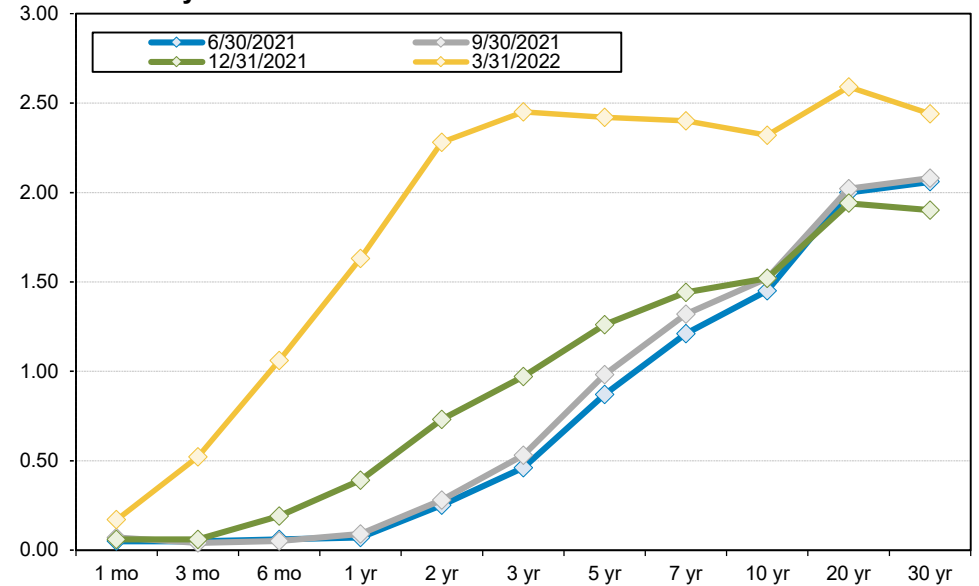


- The gray band across the graph illustrates the range of the current Fed Funds Rate. In the 1st quarter this year, the Fed raised its target rate range from 0.25% to 0.50%. During its recent March meeting, the Federal Open Market Committee (FOMC) stated it intends to begin removing liquidity from the 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 within 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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Total Fund Compliance:	Yes	No
The total plan return equaled or exceeded the total plan benchmark over the trailing three year period.		•
The total plan return equaled or exceeded the total plan 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.		•
The three year standard deviation is less than the total fund index standard deviation.		•

Total Equity Compliance:	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.		•
The return equaled or exceeded the benchmark over the trailing five year period.		•
The amount invested in common stocks and convertible bonds is less than 65% of the total fund.	•	

Highland LCV	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.	•	
The return equaled or exceeded 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.		•
The three year standard deviation is less than the index standard deviation.		•

Highland LCG	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.		•
The return equaled or exceeded 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.		•
The three year standard deviation is less than the index standard deviation.		•

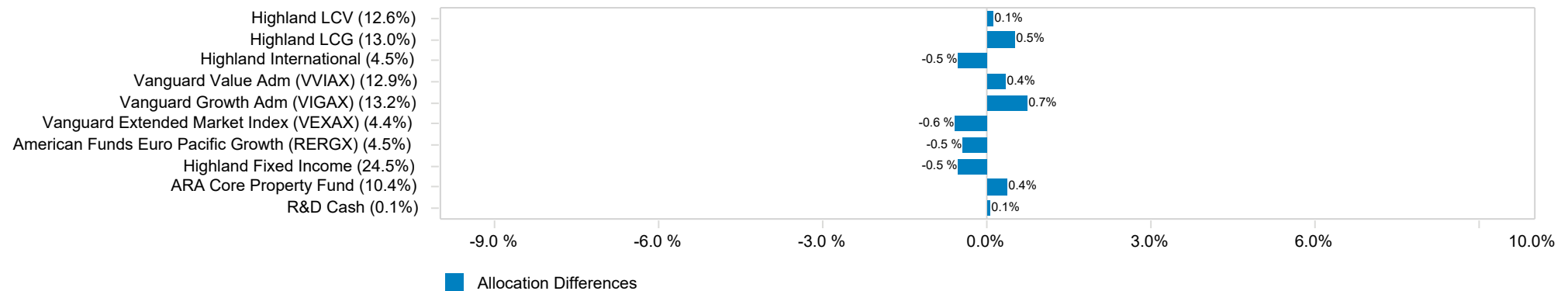
Highland International	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.	•	
The return equaled or exceeded the benchmark over the trailing five year period.	•	
The three year return ranks in the top 40% of its peers.		•
The five year return ranks in the top 40% of its peers.		•
The three year standard deviation is less than the index standard deviation.	•	

Highland Fixed Income:	Yes	No
The fixed income return equaled or exceed the benchmark over the trailing three year period.	•	
The fixed income 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.	•	
The three year standard deviation is less than the index standard deviation.	•	

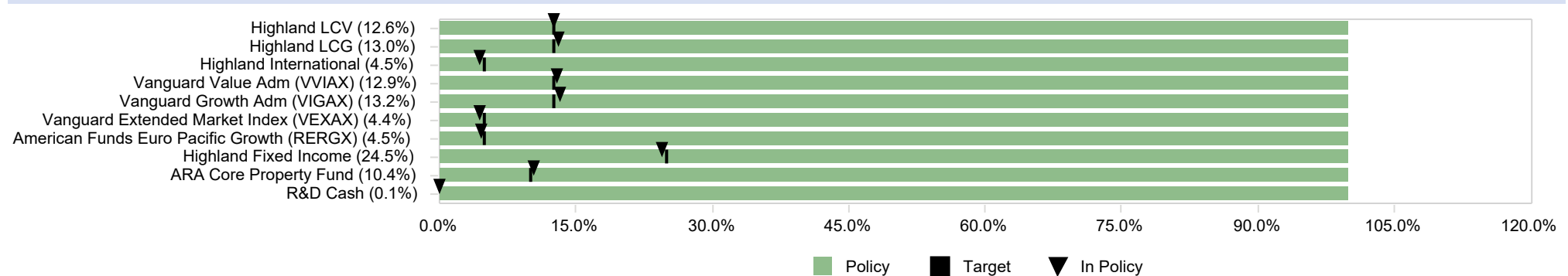
**Asset Allocation Compliance**  
**North Palm Beach Fire & Police Pension Fund Total Fund Composite**  
As of March 31, 2022

**Asset Allocation Compliance**

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
<b>Total Fund Composite</b>	<b>34,582,413</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>-</b>
Highland LCV	4,363,666	12.6	12.5	0.1	-40,864
Highland LCG	4,497,066	13.0	12.5	0.5	-174,264
Highland International	1,539,814	4.5	5.0	-0.5	189,307
Vanguard Value Adm (VVIAX)	4,445,069	12.9	12.5	0.4	-122,267
Vanguard Growth Adm (VIGAX)	4,581,012	13.2	12.5	0.7	-258,211
Vanguard Extended Market Index (VEXAX)	1,519,234	4.4	5.0	-0.6	209,886
American Funds Euro Pacific Growth (RERGX)	1,571,360	4.5	5.0	-0.5	157,761
Highland Fixed Income	8,460,795	24.5	25.0	-0.5	184,808
ARA Core Property Fund	3,582,722	10.4	10.0	0.4	-124,481
R&D Cash	21,676	0.1	0.0	0.1	-21,676



**Executive Summary**

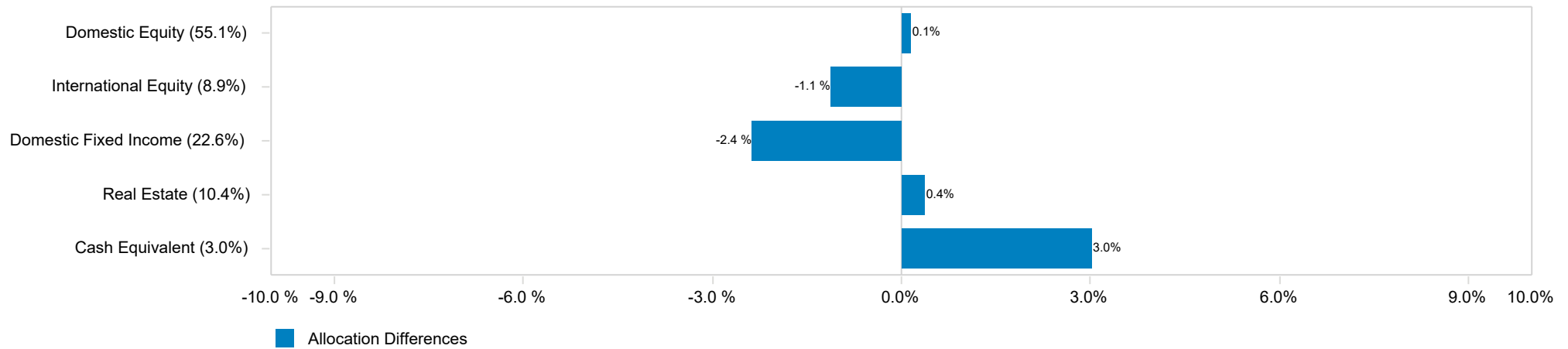




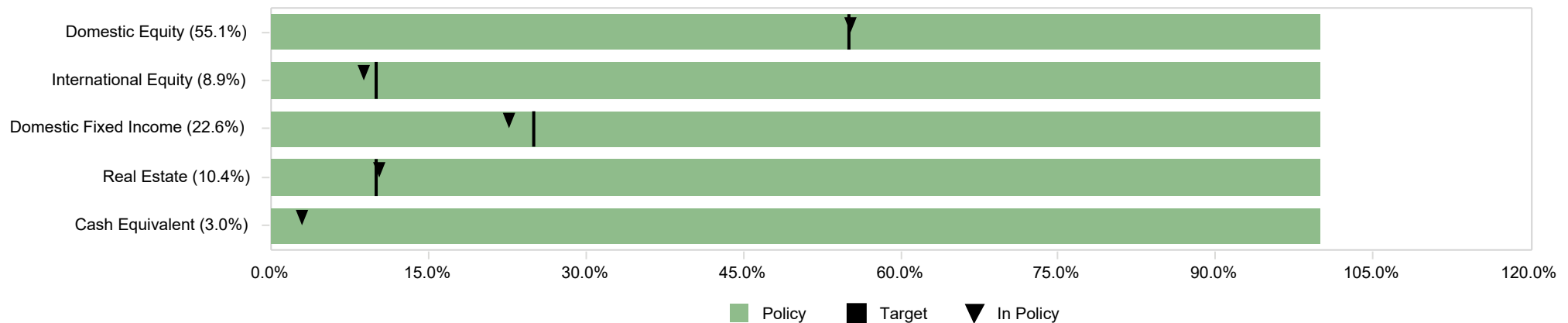
**Asset Allocation Compliance**  
**North Palm Beach Fire & Police Pension Fund Total Fund Composite**  
As of March 31, 2022

**Asset Allocation Compliance**

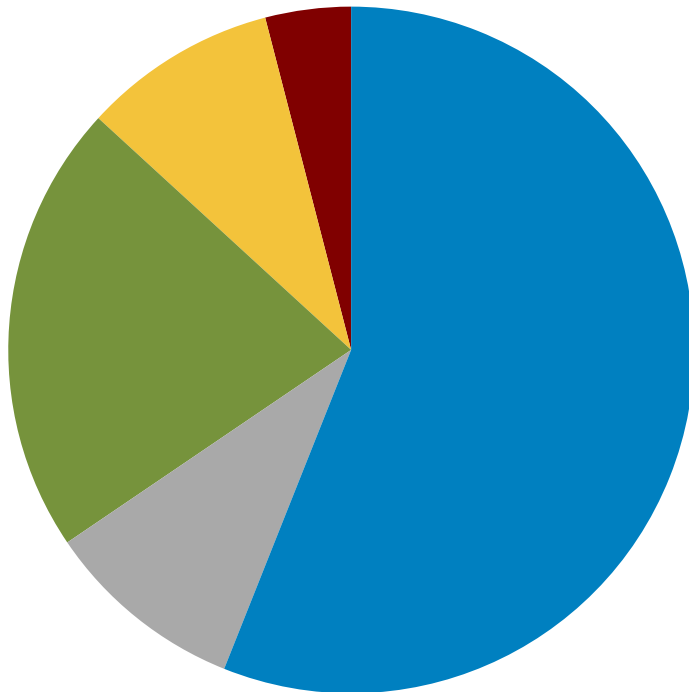
	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	19,070,524	55.1	55.0	0.1	-50,197
International Equity	3,071,037	8.9	10.0	-1.1	387,204
Domestic Fixed Income	7,818,468	22.6	25.0	-2.4	827,136
Real Estate	3,582,722	10.4	10.0	0.4	-124,481
Cash Equivalent	1,039,662	3.0	0.0	3.0	-1,039,662
<b>Total Fund</b>	<b>34,582,413</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>-</b>



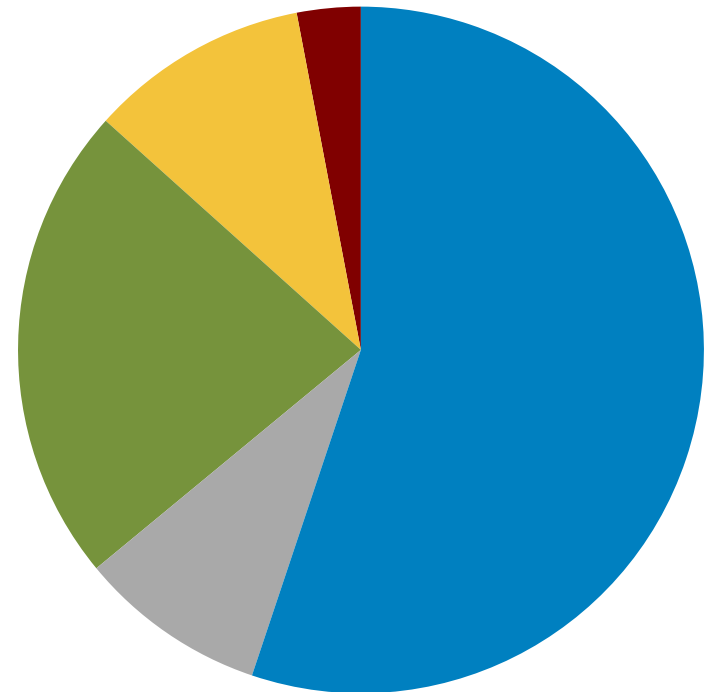
**Executive Summary**



**Asset Allocation By Segment as of  
December 31, 2021 : \$36,157,028**

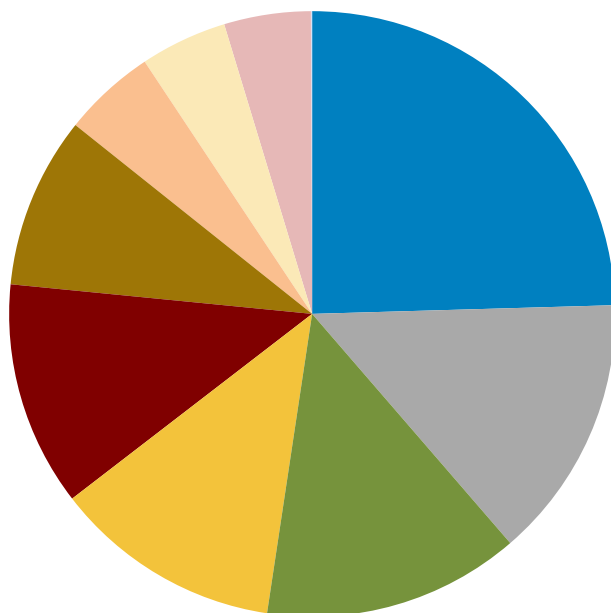


**Asset Allocation By Segment as of  
March 31, 2022 : \$34,582,413**

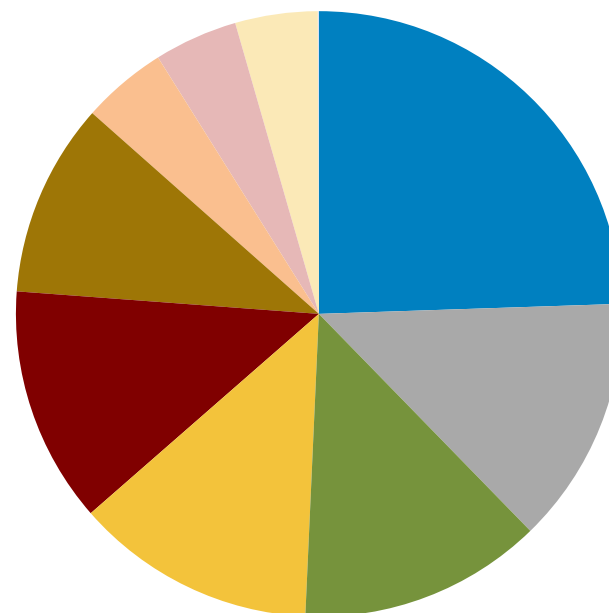


Allocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
Domestic Equity	20,263,237	56.0	Domestic Equity	19,070,524	55.1
International Equity	3,427,944	9.5	International Equity	3,071,037	8.9
Domestic Fixed Income	7,694,220	21.3	Domestic Fixed Income	7,818,468	22.6
Real Estate	3,312,273	9.2	Real Estate	3,582,722	10.4
Cash Equivalent	1,459,354	4.0	Cash Equivalent	1,039,662	3.0

Asset Allocation By Manager as of  
December 31, 2021 : \$36,157,028



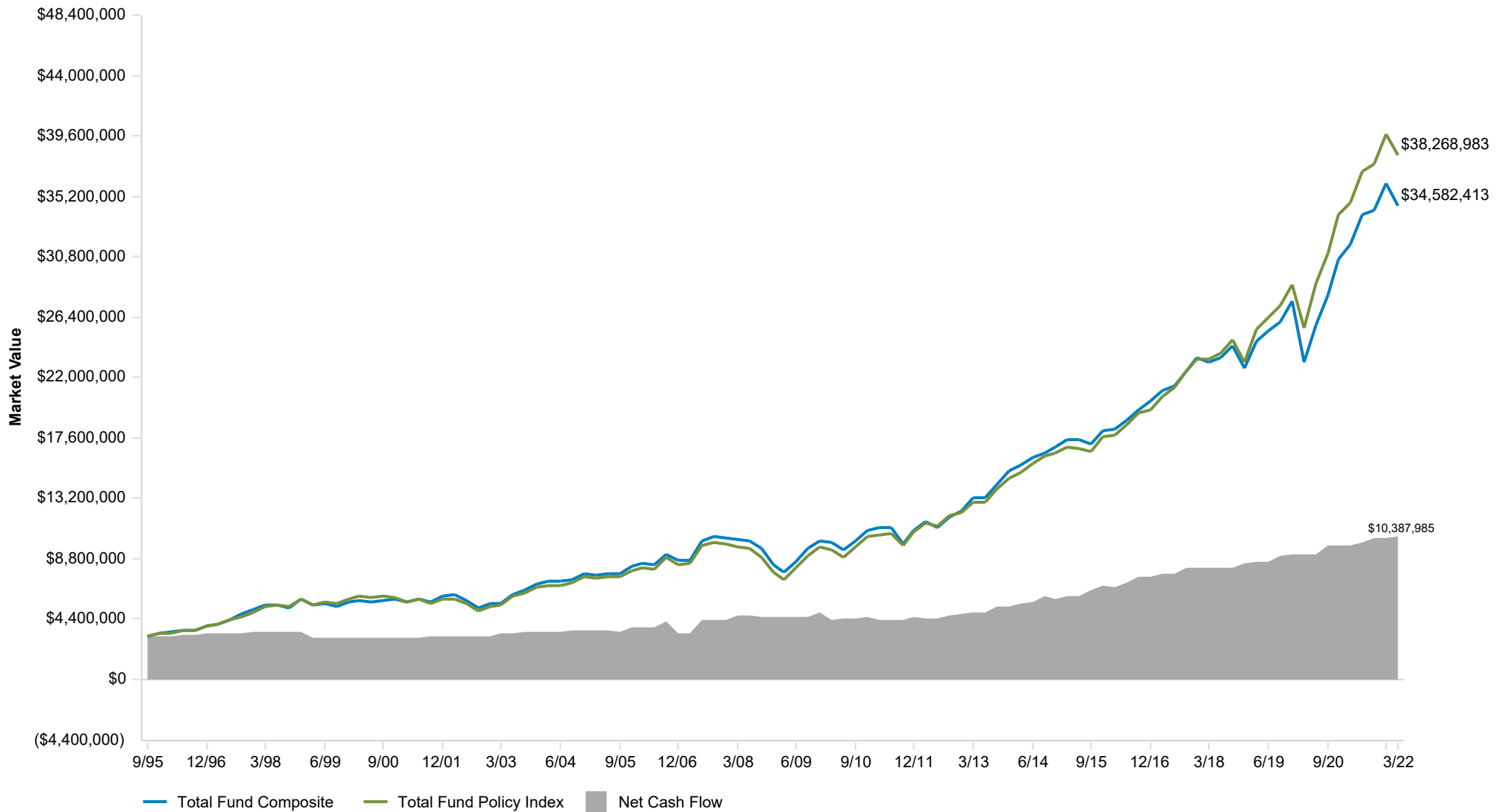
Asset Allocation By Manager as of  
March 31, 2022 : \$34,582,413



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Highland Fixed Income	8,871,881	24.5	Highland Fixed Income	8,460,795	24.5
Vanguard Growth Adm (VIGAX)	5,106,251	14.1	Vanguard Growth Adm (VIGAX)	4,581,012	13.2
Highland LCG	4,961,448	13.7	Highland LCG	4,497,066	13.0
Vanguard Value Adm (VVIAX)	4,401,553	12.2	Vanguard Value Adm (VVIAX)	4,445,069	12.9
Highland LCV	4,341,903	12.0	Highland LCV	4,363,666	12.6
ARA Core Property Fund	3,312,273	9.2	ARA Core Property Fund	3,582,722	10.4
American Funds Euro Pacific Growth (RERGX)	1,790,427	5.0	American Funds Euro Pacific Growth (RERGX)	1,571,360	4.5
Vanguard Extended Market Index (VEXAX)	1,675,663	4.6	Highland International	1,539,814	4.5
Highland International	1,671,940	4.6	Vanguard Extended Market Index (VEXAX)	1,519,234	4.4
R&D Cash	23,690	0.1	R&D Cash	21,676	0.1

**Schedule of Investable Assets**  
**Total Fund Composite**  
Since Inception Ending March 31, 2022

**Schedule of Investable Assets**



**Schedule of Investable Assets**

Periods Ending	Beginning Market Value \$	Contributions \$	Withdrawals \$	Gain/Loss \$	Ending Market Value \$	%Return
Inception	3,179,586	39,847,878	32,639,479	24,194,428	34,582,413	7.11



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

**Asset Allocation & Performance**

	Allocation		Performance(%)				
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR
<b>Total Fund Composite (Gross)</b>	<b>34,582,413</b>	<b>100.0</b>	<b>-4.31 (50)</b>	<b>1.02 (25)</b>	<b>7.39 (23)</b>	<b>10.27 (58)</b>	<b>8.61 (69)</b>
Total Fund Policy Index			-3.81 (32)	1.77 (14)	8.15 (17)	12.37 (10)	10.90 (6)
All Public Plans-Total Fund Median			-4.34	-0.22	5.22	10.50	9.22
<b>Total Fund Composite (Net)</b>	<b>34,582,413</b>	<b>100.0</b>	<b>-4.39</b>	<b>0.86</b>	<b>7.05</b>	<b>9.87</b>	<b>8.25</b>
Total Fund Policy Index			-3.81	1.77	8.15	12.37	10.90
<b>Total Equity Composite (Gross)</b>	<b>22,141,562</b>	<b>64.0</b>	<b>-6.03</b>	<b>1.01</b>	<b>8.73</b>	<b>12.52</b>	<b>10.61</b>
Total Equity Policy Index			-4.69	3.26	10.98	17.40	15.02
Highland LCV (Gross)	4,363,666	12.6	0.52 (39)	8.34 (48)	12.13 (66)	13.34 (79)	10.95 (72)
Russell 1000 Value Index			-0.74 (57)	6.98 (59)	11.67 (72)	13.02 (82)	10.29 (85)
IM U.S. Large Cap Value Equity (SA+CF) Median			-0.37	8.21	13.47	15.26	12.18
Vanguard Value Adm (VVIAX)	4,445,069	12.9	0.99 (23)	10.41 (11)	15.10 (15)	N/A	N/A
Russell 1000 Value Index			-0.74 (62)	6.98 (63)	11.67 (66)	13.02 (60)	10.29 (62)
IM U.S. Large Cap Value Equity (MF) Median			-0.38	7.79	12.73	13.55	10.66
Highland LCG (Gross)	4,497,066	13.0	-9.35 (44)	-0.70 (46)	11.59 (44)	20.35 (46)	18.01 (66)
Russell 1000 Growth Index			-9.04 (42)	1.54 (34)	14.98 (20)	23.60 (15)	20.88 (22)
IM U.S. Large Cap Growth Equity (SA+CF) Median			-9.86	-1.43	10.61	20.16	18.87
Vanguard Growth Adm (VIGAX)	4,581,012	13.2	-10.29 (43)	-0.66 (27)	12.48 (18)	N/A	N/A
Russell 1000 Growth Index			-9.04 (20)	1.54 (11)	14.98 (7)	23.60 (6)	20.88 (7)
IM U.S. Large Cap Growth Equity (MF) Median			-10.70	-4.12	7.31	19.34	18.34
Vanguard Extended Market Index (VEXAX)	1,519,234	4.4	-9.34 (98)	-8.70 (100)	N/A	N/A	N/A
S&P Completion Index			-9.34 (98)	-8.74 (100)	-5.46 (99)	14.09 (26)	11.96 (15)
IM U.S. SMID Cap Core Equity (MF) Median			-5.09	2.00	4.34	13.41	10.34
Highland International (Gross)	1,539,814	4.5	-7.89 (55)	-5.10 (43)	-4.16 (60)	7.85 (56)	5.74 (78)
BONY ADR Index			-1.93 (15)	-0.86 (17)	-1.63 (47)	5.93 (77)	5.72 (78)
IM International Equity (SA+CF) Median			-7.20	-5.88	-2.12	8.27	7.56
Am Funds Euro Pacific Growth (RERGX)	1,571,360	4.5	-12.24 (65)	-13.22 (86)	-9.35 (84)	N/A	N/A
MSCI AC World ex USA (Net)			-5.44 (10)	-3.72 (14)	-1.48 (25)	7.51 (74)	6.76 (76)
IM Int'l Large Cap Growth Equity (MF)			-10.79	-7.89	-3.40	9.11	7.74

\*The Highland Large Cap Value Changed the index from S&P 500 to Russell 1000 Value in March 2020



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

	Allocation		Performance(%)				
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR
<b>Total Fixed Income</b>							
Highland Fixed Income (Gross)	8,460,795	24.5	-4.62 (10)	-4.78 (12)	-2.91 (18)	2.73 (38)	2.77 (54)
Blmbg. U.S. Aggregate Index			-5.93 (66)	-5.92 (64)	-4.15 (86)	1.69 (94)	2.14 (95)
IM U.S. Broad Market Fixed Income (SA+CF) Median			-5.79	-5.81	-3.60	2.49	2.83
<b>Total Real Estate</b>							
American Realty (Gross)	3,582,722	10.4	8.46 (9)	18.02 (17)	29.68 (34)	11.92 (50)	10.39 (55)
NCREIF Fund ODCE (EW)			7.97 (15)	16.28 (29)	29.84 (32)	12.05 (49)	10.39 (54)
IM U.S. Private Real Estate (SA+CF) Median			6.75	14.86	27.92	11.92	10.65
American Realty (Net)	3,582,722	10.4	8.17	17.38	28.26	10.70	9.18
NCREIF Fund Index-ODCE (EW) (Net)			7.77	15.72	28.69	11.11	9.46
R&D Cash	21,676	0.1					

\*The Highland Large Cap Value Changed the index from S&P 500 to Russell 1000 Value in March 2020



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

Asset Allocation & Performance												
	Allocation		Performance(%)									
	Market Value \$	%	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	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012
<b>Total Fund Composite (Gross)</b>	<b>34,582,413</b>	<b>100.0</b>	<b>20.56 (50)</b>	<b>5.35 (79)</b>	<b>3.83 (63)</b>	<b>8.06 (34)</b>	<b>11.76 (53)</b>	<b>9.28 (66)</b>	<b>1.23 (10)</b>	<b>10.99 (24)</b>	<b>14.46 (16)</b>	<b>16.33 (66)</b>
Total Fund Policy Index			18.72 (72)	11.87 (7)	5.92 (14)	10.20 (7)	12.01 (49)	10.94 (15)	-0.51 (41)	12.06 (7)	10.45 (76)	18.49 (28)
All Public Plans-Total Fund Median			20.55	7.55	4.27	7.32	11.93	9.75	-0.89	9.79	12.31	17.22
<b>Total Fund Composite (Net)</b>	<b>34,582,413</b>	<b>100.0</b>	<b>20.18</b>	<b>4.87</b>	<b>3.60</b>	<b>7.81</b>	<b>11.13</b>	<b>8.81</b>	<b>1.04</b>	<b>10.54</b>	<b>13.99</b>	<b>15.82</b>
Total Fund Policy Index			18.72	11.87	5.92	10.20	12.01	10.94	-0.51	12.06	10.45	18.49
<b>Total Equity Composite (Gross)</b>	<b>22,141,562</b>	<b>64.0</b>	<b>30.70</b>	<b>3.01</b>	<b>0.83</b>	<b>12.92</b>	<b>19.08</b>	<b>11.58</b>	<b>-0.65</b>	<b>15.06</b>	<b>27.02</b>	<b>27.49</b>
Total Equity Policy Index			29.85	15.05	3.05	16.39	19.13	13.59	-3.01	17.59	19.14	27.67
Highland LCV (Gross)	4,363,666	12.6	36.66 (53)	-6.46 (73)	2.40 (50)	12.18 (48)	17.97 (49)	14.01 (46)	0.20 (19)	17.14 (66)	27.52 (22)	28.99 (43)
Russell 1000 Value Index			35.01 (60)	-5.03 (66)	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (59)	30.92 (25)
IM U.S. Large Cap Value Equity (SA+CF) Median			37.17	-3.08	2.36	11.83	17.89	13.56	-3.29	18.38	23.65	28.06
Vanguard Value Adm (VVIAX)	4,445,069	12.9	32.50 (68)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index			35.01 (53)	-5.03 (54)	4.00 (30)	9.45 (61)	15.12 (72)	16.19 (18)	-4.42 (41)	18.89 (19)	22.30 (52)	30.92 (15)
IM U.S. Large Cap Value Equity (MF) Median			35.63	-4.55	1.87	10.42	16.75	12.50	-4.90	17.21	22.35	28.44
Highland LCG (Gross)	4,497,066	13.0	26.12 (63)	32.22 (56)	1.34 (70)	22.99 (61)	22.46 (33)	6.35 (95)	4.00 (44)	15.51 (77)	26.14 (13)	26.31 (66)
Russell 1000 Growth Index			27.32 (52)	37.53 (29)	3.71 (52)	26.30 (37)	21.94 (39)	13.76 (23)	3.17 (55)	19.15 (40)	19.27 (64)	29.19 (39)
IM U.S. Large Cap Growth Equity (SA+CF) Median			27.47	33.32	3.80	24.48	20.87	11.81	3.61	18.18	20.29	27.82
Vanguard Growth Adm (VIGAX)	4,581,012	13.2	28.07 (23)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index			27.32 (33)	37.53 (34)	3.71 (33)	26.30 (38)	21.94 (28)	13.76 (18)	3.17 (45)	19.15 (22)	19.27 (52)	29.19 (35)
IM U.S. Large Cap Growth Equity (MF) Median			26.03	34.55	2.32	25.06	20.13	10.96	2.84	16.91	19.38	27.41
Vanguard Extended Market Index (VEXAX)	1,519,234	4.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S&P Completion Index			42.19 (77)	12.94 (6)	-3.96 (50)	16.02 (18)	18.91 (29)	13.26 (51)	-0.27 (45)	9.66 (47)	31.34 (27)	30.37 (22)
IM U.S. SMID Cap Core Equity (MF) Median			44.27	-3.60	-4.11	12.98	17.28	13.28	-0.65	9.46	27.60	27.95
Highland International (Gross)	1,539,814	4.5	27.21 (46)	0.44 (72)	-4.58 (73)	5.35 (22)	17.29 (79)	6.28 (82)	-9.78 (56)	3.88 (71)	20.21 (50)	16.79 (55)
BONY ADR Index			20.61 (75)	0.49 (72)	-2.48 (59)	1.35 (51)	18.14 (73)	6.30 (82)	-14.49 (74)	7.32 (34)	17.66 (58)	15.33 (66)
IM International Equity (SA+CF) Median			26.01	7.45	-1.56	1.42	21.10	11.66	-8.56	5.80	20.10	17.32
Am Funds Euro Pacific Growth (RERGX)	1,571,360	4.5	24.76 (18)	14.97 (35)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI AC World ex USA (Net)			23.92 (26)	3.00 (88)	-1.23 (68)	1.76 (57)	19.61 (26)	9.26 (33)	-12.16 (89)	4.77 (38)	16.48 (68)	14.49 (77)
IM Int'l Large Cap Growth Equity (MF)			20.58	13.00	0.81	2.28	17.85	7.77	-5.68	4.23	17.85	17.92

\*The Highland Large Cap Value Changed the index from S&P 500 to Russell 1000 Value in March 2020



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

	Allocation		Performance(%)									
	Market Value \$	%	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	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012
<b>Total Fixed Income</b>												
Highland Fixed Income (Gross)	8,460,795	24.5	1.67 (31)	6.64 (78)	9.77 (79)	-1.11 (83)	0.71 (63)	6.49 (32)	2.32 (68)	3.81 (91)	-2.59 (99)	5.87 (84)
Blmbg. U.S. Aggregate Index			-0.90 (89)	6.98 (72)	10.30 (61)	-1.22 (90)	0.07 (90)	5.19 (86)	2.94 (44)	3.96 (86)	-1.68 (83)	5.16 (93)
IM U.S. Broad Market Fixed Income (SA+CF) Median			0.70	7.57	10.39	-0.62	1.05	5.92	2.83	4.93	-0.85	7.50
<b>Total Real Estate</b>												
American Realty (Gross)	3,582,722	10.4	13.51 (76)	1.62 (58)	6.81 (49)	8.50 (64)	7.52 (60)	9.05 (90)	13.99 (68)	12.42 (69)	N/A	N/A
NCREIF Fund ODCE (EW)			15.75 (53)	1.74 (51)	6.17 (67)	8.82 (58)	7.81 (54)	10.62 (67)	14.71 (62)	12.39 (70)	12.47 (70)	11.77 (64)
IM U.S. Private Real Estate (SA+CF) Median			16.11	1.74	6.80	8.98	7.96	11.44	15.62	12.98	13.56	12.90
American Realty (Net)	3,582,722	10.4	12.27	0.51	5.64	7.31	6.34	7.88	12.74	11.30	N/A	N/A
NCREIF Fund Index-ODCE (EW) (Net)			14.83	0.89	5.26	7.89	6.93	9.69	13.82	11.44	11.46	10.69
R&D Cash	21,676	0.1										

\*The Highland Large Cap Value Changed the index from S&P 500 to Russell 1000 Value in March 2020





**Historical Rolling Performance**  
**Total Fund Composite**  
As of March 31, 2022

Historical Rolling Performance					
	QTR	1 YR	3 YR	5 YR	Inception
03/31/2022	-4.31	7.39	10.27	8.61	7.55
12/31/2021	5.58	16.44	14.60	10.29	7.80
09/30/2021	0.15	20.56	9.66	9.75	7.66
06/30/2021	6.15	27.55	10.89	10.26	7.73
03/31/2021	3.75	34.73	9.22	9.35	7.55
12/31/2020	9.32	9.03	7.40	8.80	7.48
09/30/2020	5.95	5.35	5.73	7.62	7.17
06/30/2020	12.12	0.53	4.81	5.40	7.00
03/31/2020	-16.04	-7.33	1.46	2.97	6.57
12/31/2019	5.62	18.56	8.73	7.19	7.41
09/30/2019	1.10	3.83	7.83	6.76	7.25
06/30/2019	3.35	6.35	8.32	6.42	7.28
03/31/2019	7.42	4.36	7.79	6.38	7.21
12/31/2018	-7.50	-4.17	5.66	5.19	6.96
09/30/2018	3.55	8.06	9.69	8.20	7.40
06/30/2018	1.42	7.69	6.76	8.26	7.32
03/31/2018	-1.35	8.00	6.18	8.06	7.33
12/31/2017	4.30	13.14	7.59	9.83	7.49
09/30/2017	3.20	11.76	7.33	9.45	7.37
06/30/2017	1.72	10.97	6.02	9.69	7.30
03/31/2017	3.34	11.12	6.52	8.65	7.30
12/31/2016	3.03	8.79	5.90	9.47	7.23
09/30/2016	2.47	9.28	7.08	10.33	7.16
06/30/2016	1.86	1.83	7.57	7.36	7.13
03/31/2016	1.17	-0.24	7.08	6.83	7.12
12/31/2015	3.49	1.20	9.09	7.50	7.15
09/30/2015	-4.52	1.23	8.74	7.97	7.06
06/30/2015	-0.21	5.47	12.01	10.38	7.40
03/31/2015	2.63	9.02	10.95	9.16	7.51
12/31/2014	3.52	7.88	12.61	9.43	7.47
09/30/2014	-0.52	10.99	13.90	9.38	7.38
06/30/2014	3.15	15.89	9.92	11.85	7.51
03/31/2014	1.56	12.90	8.56	13.25	7.43
12/31/2013	6.50	18.91	9.55	11.46	7.45
09/30/2013	3.87	14.46	9.30	7.14	7.18
06/30/2013	0.49	14.96	10.26	5.24	7.05
03/31/2013	6.97	10.97	7.99	4.82	7.13
12/31/2012	2.51	11.32	6.95	2.61	6.82
09/30/2012	4.33	16.33	7.21	1.99	6.76
06/30/2012	-3.00	-0.32	9.52	1.72	6.60

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



**Historical Rolling Performance**  
**Total Fund Policy Index**  
As of March 31, 2022

Historical Rolling Performance					
	QTR	1 YR	3 YR	5 YR	Inception
03/31/2022	-3.81	8.15	12.37	10.90	7.83
12/31/2021	5.79	15.37	17.20	12.75	8.07
09/30/2021	0.42	18.72	12.05	11.67	7.91
06/30/2021	5.83	24.80	13.46	12.22	7.97
03/31/2021	2.62	32.76	12.01	11.41	7.82
12/31/2020	8.86	15.05	10.93	11.17	7.79
09/30/2020	5.57	11.87	9.30	10.16	7.50
06/30/2020	12.58	7.48	8.57	8.10	7.34
03/31/2020	-11.07	-1.18	5.32	5.48	6.90
12/31/2019	5.85	21.30	11.14	8.31	7.50
09/30/2019	1.42	5.92	9.35	7.61	7.32
06/30/2019	3.52	8.88	9.88	7.36	7.34
03/31/2019	9.15	7.10	9.37	7.45	7.26
12/31/2018	-7.57	-2.17	6.77	5.94	6.94
09/30/2018	4.25	10.20	11.05	8.83	7.38
06/30/2018	1.83	9.37	8.04	8.76	7.27
03/31/2018	-0.31	10.36	7.26	8.43	7.27
12/31/2017	4.13	15.70	7.89	9.63	7.37
09/30/2017	3.47	12.01	7.33	8.88	7.26
06/30/2017	2.76	11.40	6.21	9.08	7.18
03/31/2017	4.52	10.68	6.60	8.22	7.13
12/31/2016	0.80	7.52	5.64	8.79	6.99
09/30/2016	2.91	10.94	7.34	10.11	7.04
06/30/2016	2.09	3.51	7.70	7.72	6.98
03/31/2016	1.54	1.02	7.06	7.49	6.96
12/31/2015	4.01	0.96	8.38	7.90	6.97
09/30/2015	-3.98	-0.51	7.19	8.19	6.85
06/30/2015	-0.37	3.89	10.22	10.87	7.16
03/31/2015	1.48	8.36	9.91	9.58	7.27
12/31/2014	2.49	8.61	11.97	10.01	7.29
09/30/2014	0.26	12.06	13.62	10.22	7.25
06/30/2014	3.91	16.15	10.49	12.53	7.33
03/31/2014	1.71	12.10	9.45	14.06	7.21
12/31/2013	5.75	16.11	10.08	12.12	7.21
09/30/2013	3.92	10.45	9.97	8.11	6.99
06/30/2013	0.29	10.95	11.56	5.86	6.86
03/31/2013	5.34	9.31	9.16	5.47	6.94
12/31/2012	0.60	11.34	8.52	3.31	6.72
09/30/2012	4.39	18.49	9.54	3.03	6.79
06/30/2012	-1.19	4.68	11.87	2.64	6.62

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



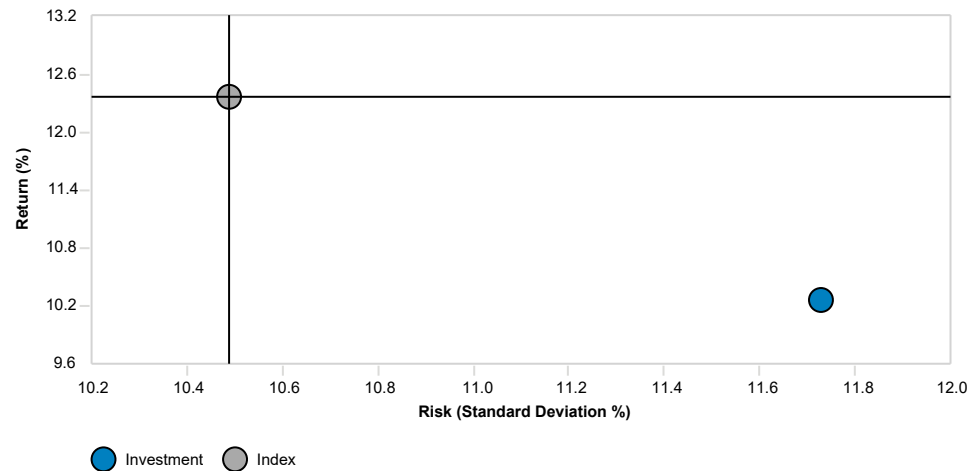
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.27	11.73	0.82	100.71	10	120.41	2
Index	12.37	10.49	1.08	100.00	10	100.00	2

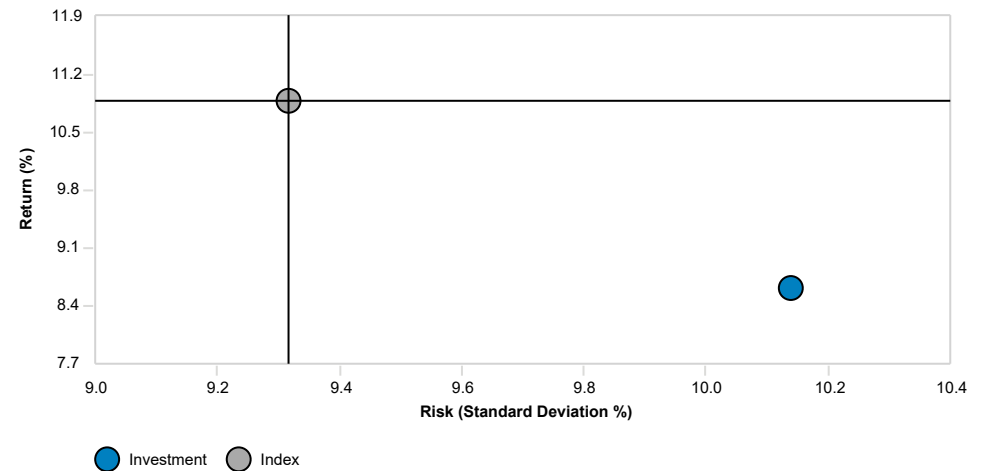
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.61	10.14	0.75	95.79	16	115.08	4
Index	10.90	9.32	1.03	100.00	16	100.00	4

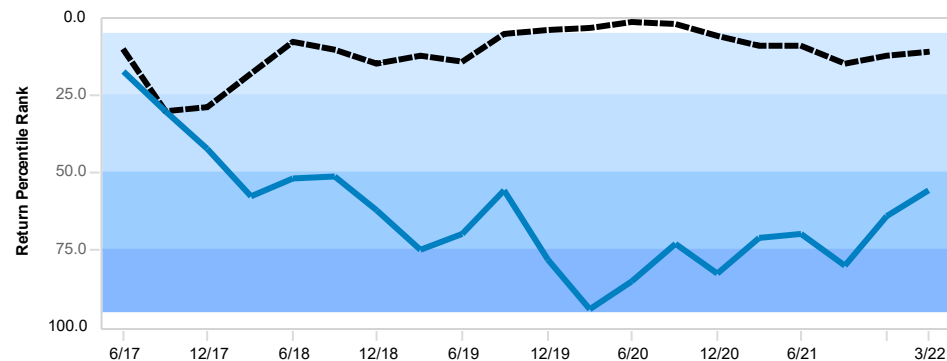
### Risk and Return 3 Years



### Risk and Return 5 Years

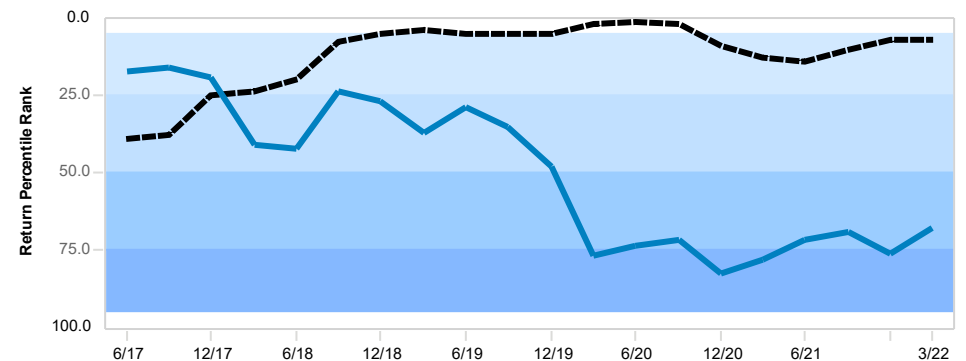


### 3 Year Rolling Percentile Rank All Public Plans-Total Fund



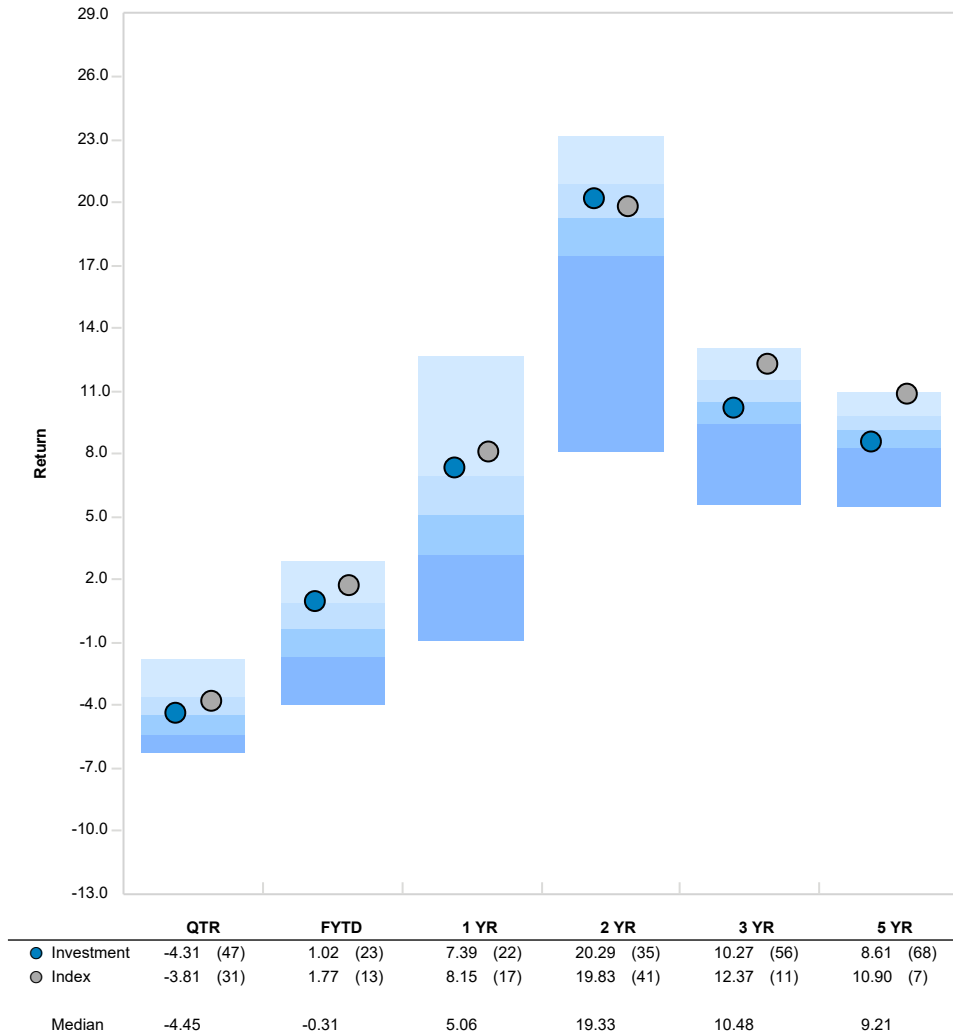
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	1 (5%)	2 (10%)	12 (60%)	5 (25%)
Index	20	18 (90%)	2 (10%)	0 (0%)	0 (0%)

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

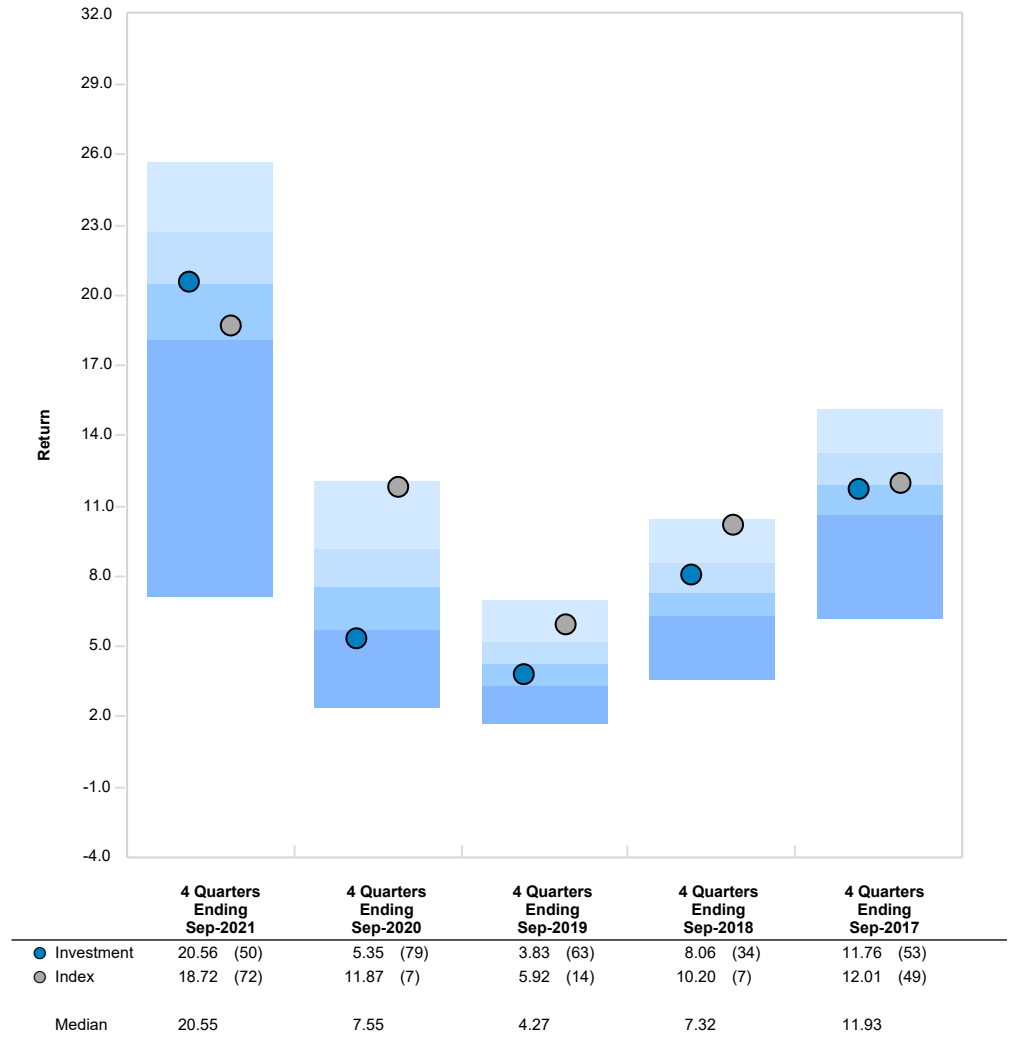


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	4 (20%)	7 (35%)	5 (25%)	4 (20%)
Index	20	18 (90%)	2 (10%)	0 (0%)	0 (0%)

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



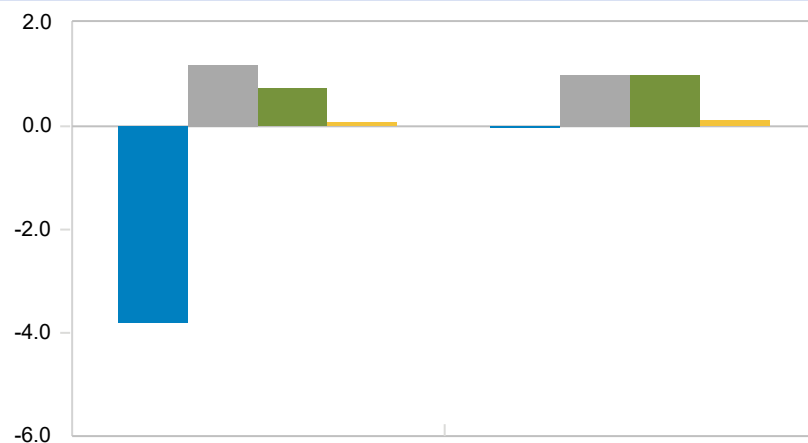
**Plan Sponsor Peer Group Analysis vs. All Public Plans-Total Fund**



**Comparative Performance**

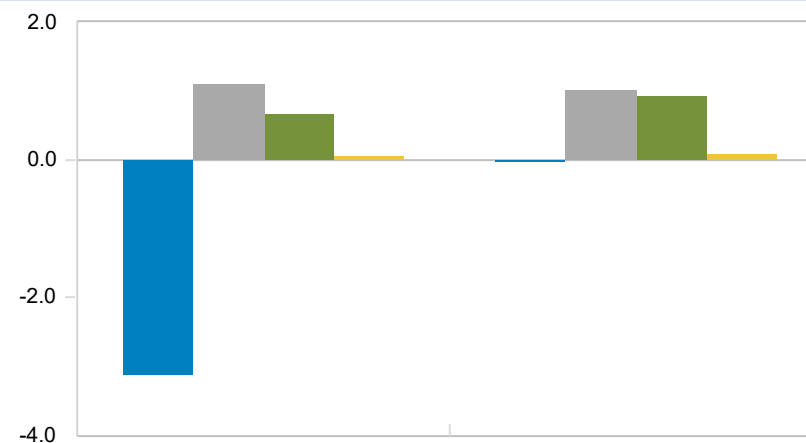
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	5.58 (11)	0.15 (29)	6.15 (13)	3.75 (27)	9.32 (73)	5.95 (28)
Index	5.79 (7)	0.42 (18)	5.83 (26)	2.62 (68)	8.86 (81)	5.57 (41)
Median	4.47	-0.16	5.47	3.08	10.20	5.42

## Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



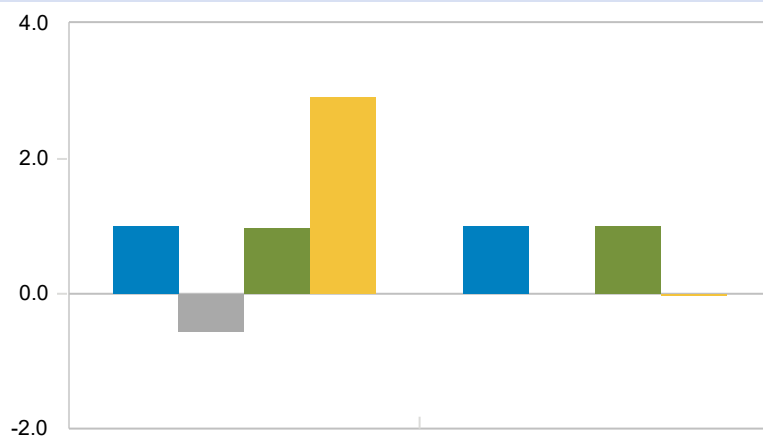
	Total Fund Composite	Total Fund Policy Index
Alpha	-3.80	0.00
Beta	1.18	1.00
Sharpe Ratio	0.71	0.98
Treynor Ratio	0.09	0.12

## Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



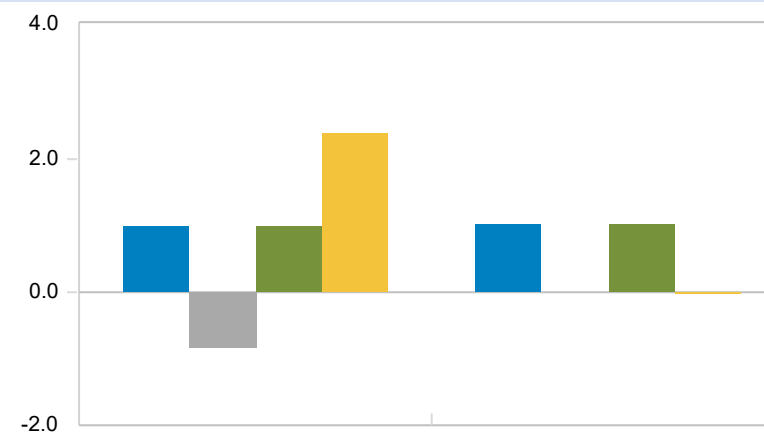
	Total Fund Composite	Total Fund Policy Index
Alpha	-3.13	0.00
Beta	1.11	1.00
Sharpe Ratio	0.65	0.91
Treynor Ratio	0.07	0.10

## Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Total Fund Composite	Total Fund Policy Index
Actual Correlation	0.99	1.00
Information Ratio	-0.56	N/A
R-Squared	0.98	1.00
Tracking Error	2.90	0.00

## Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Total Fund Composite	Total Fund Policy Index
Actual Correlation	0.99	1.00
Information Ratio	-0.82	N/A
R-Squared	0.97	1.00
Tracking Error	2.38	0.00

Benchmark: Total Fund Policy Index



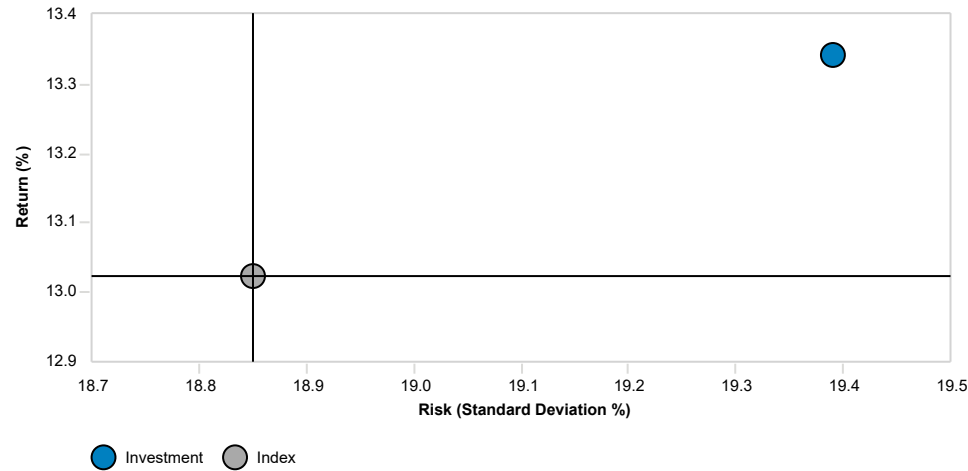
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.34	19.39	0.70	102.26	10	101.91	2
Index	13.02	18.85	0.70	100.00	9	100.00	3

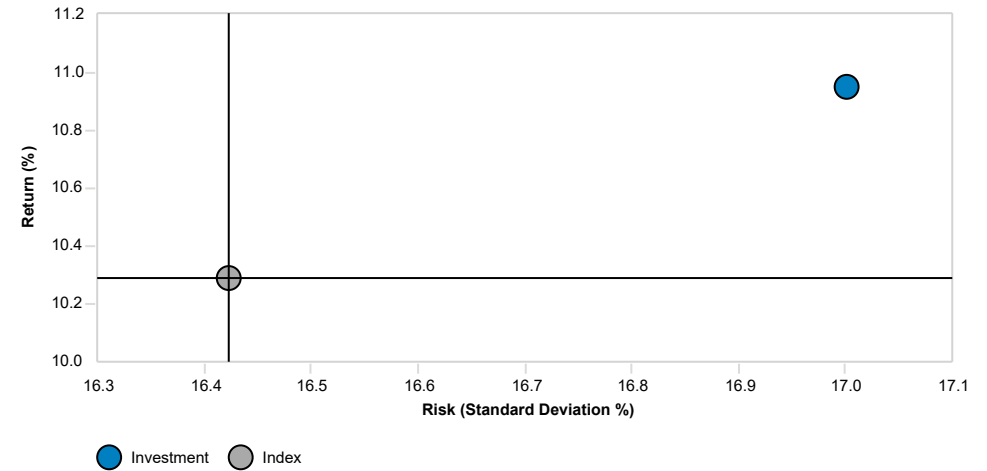
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.95	17.00	0.63	104.24	16	102.78	4
Index	10.29	16.42	0.61	100.00	15	100.00	5

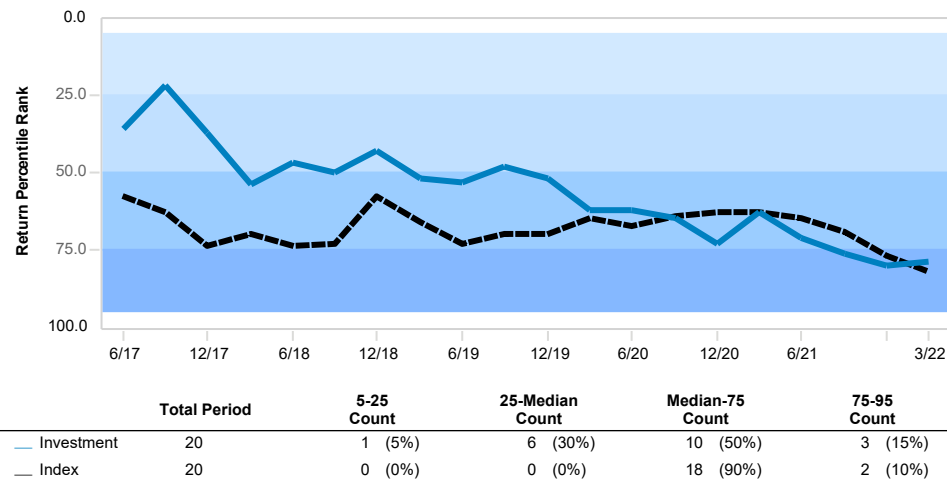
### Risk and Return 3 Years



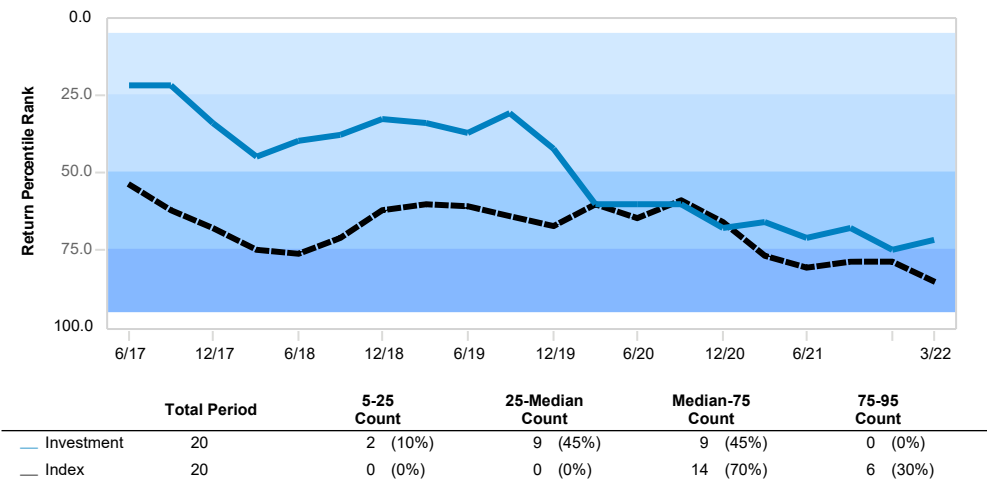
### Risk and Return 5 Years



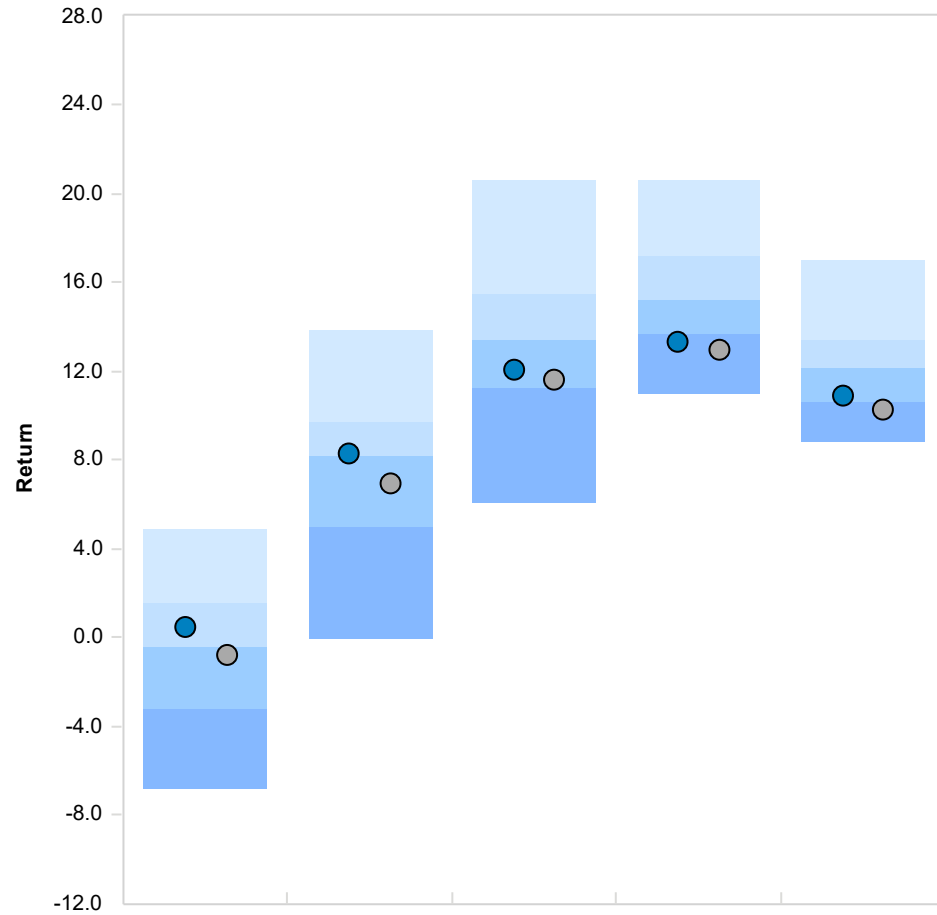
### 3 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (SA+CF)



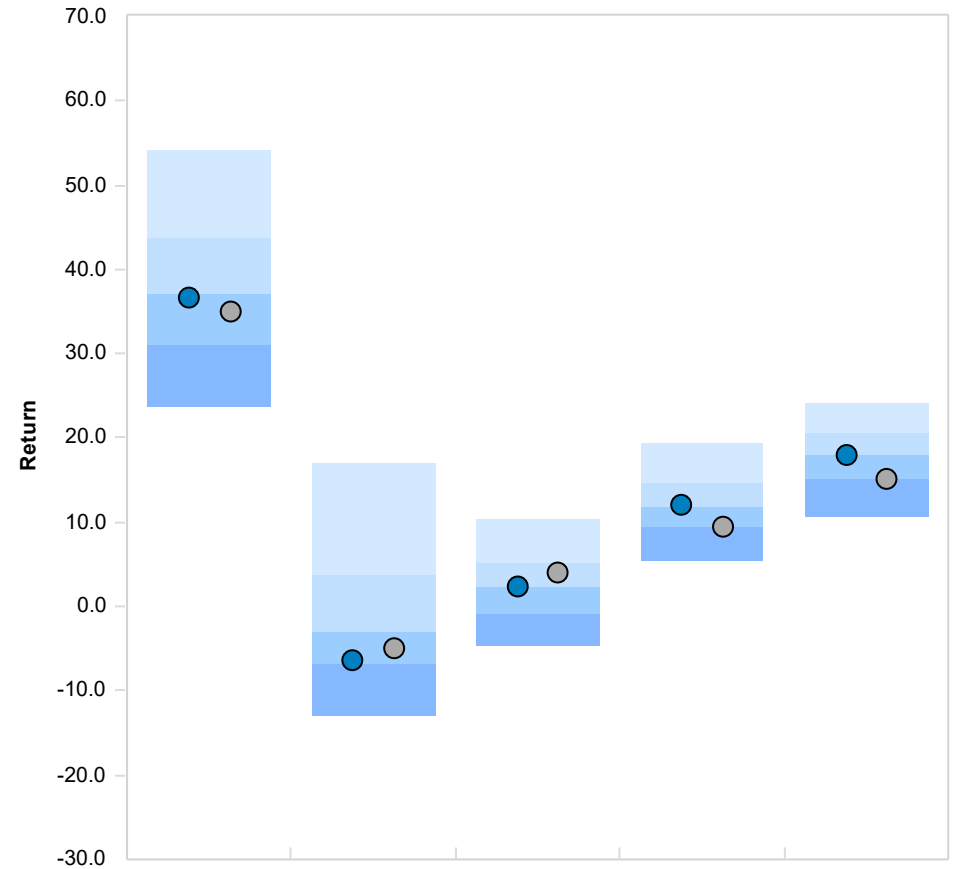
### 5 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (SA+CF)



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



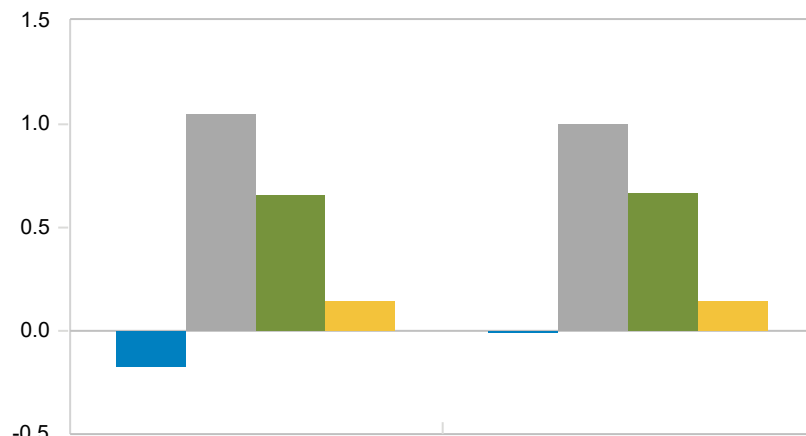
Peer Group Analysis - IM U.S. Large Cap Value Equity (SA+CF)



Comparative Performance

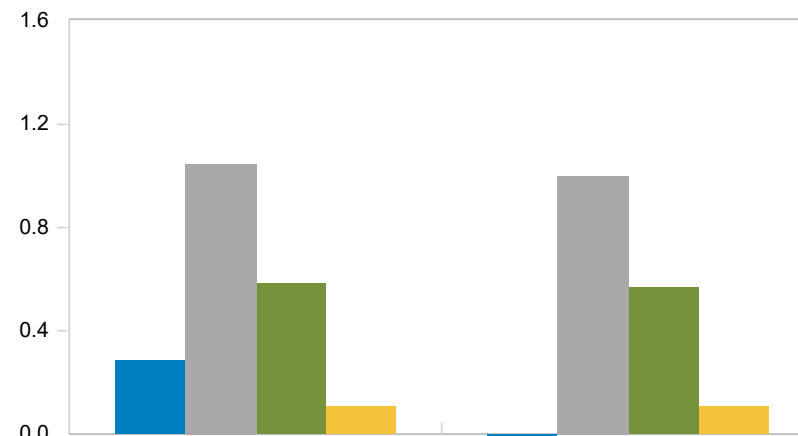
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	7.78 (60)	-1.38 (77)	4.95 (76)	13.87 (28)	15.96 (52)	5.12 (56)
Index	7.77 (61)	-0.78 (61)	5.21 (66)	11.26 (55)	16.25 (48)	5.59 (48)
Median	8.27	-0.56	5.86	11.55	16.04	5.44

## Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



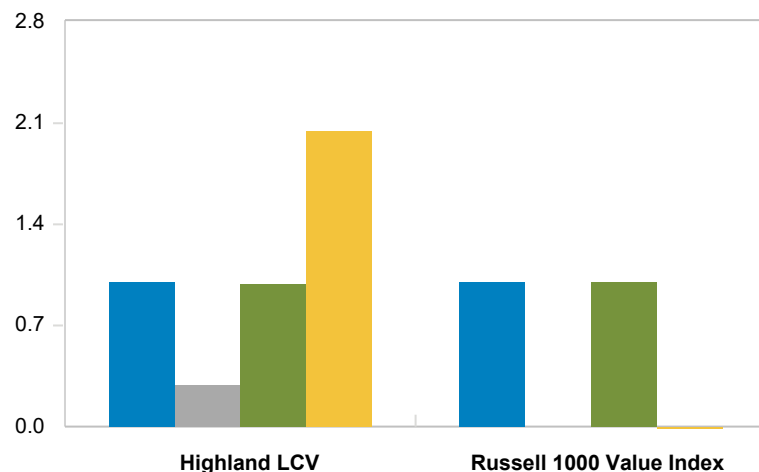
	Highland LCV	Russell 1000 Value Index
Alpha	-0.17	0.00
Beta	1.05	1.00
Sharpe Ratio	0.65	0.66
Treynor Ratio	0.14	0.14

## Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



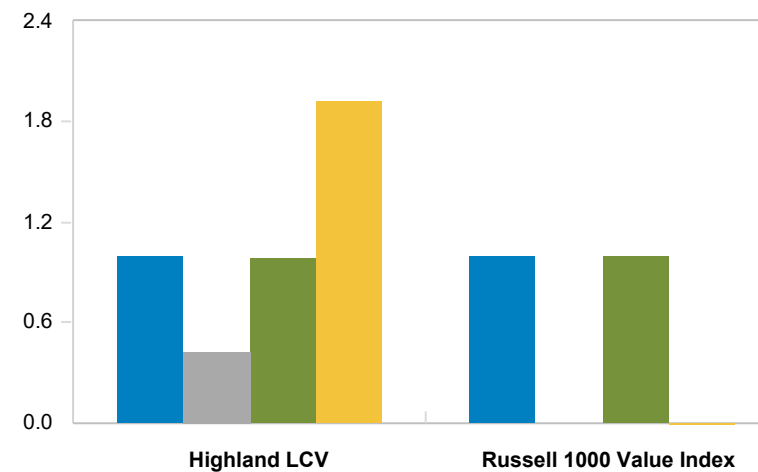
	Highland LCV	Russell 1000 Value Index
Alpha	0.29	0.00
Beta	1.05	1.00
Sharpe Ratio	0.59	0.57
Treynor Ratio	0.11	0.11

## Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Highland LCV	Russell 1000 Value Index
Actual Correlation	1.00	1.00
Information Ratio	0.29	N/A
R-Squared	0.99	1.00
Tracking Error	2.04	0.00

## Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Highland LCV	Russell 1000 Value Index
Actual Correlation	1.00	1.00
Information Ratio	0.43	N/A
R-Squared	0.99	1.00
Tracking Error	1.92	0.00

Benchmark: Russell 1000 Value Index





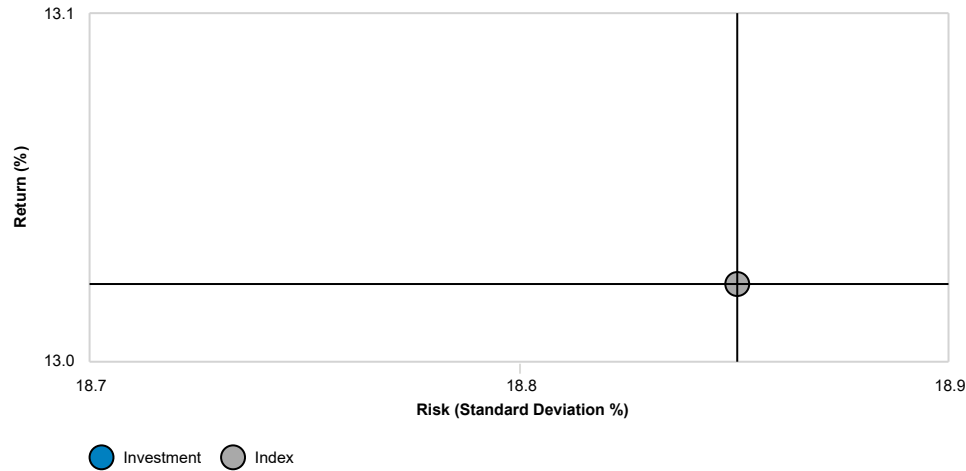
### Historical Statistics 3 Years

	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	13.02	18.85	0.70	100.00	9	100.00	3

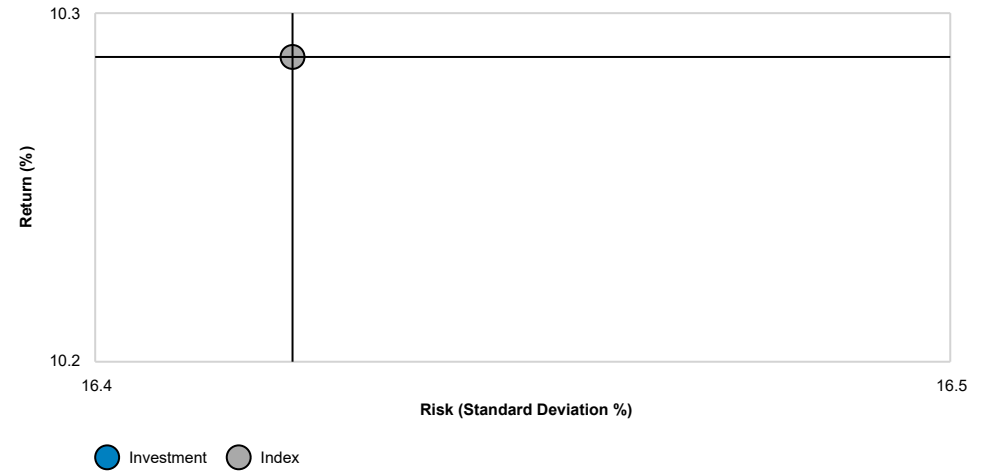
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	10.29	16.42	0.61	100.00	15	100.00	5

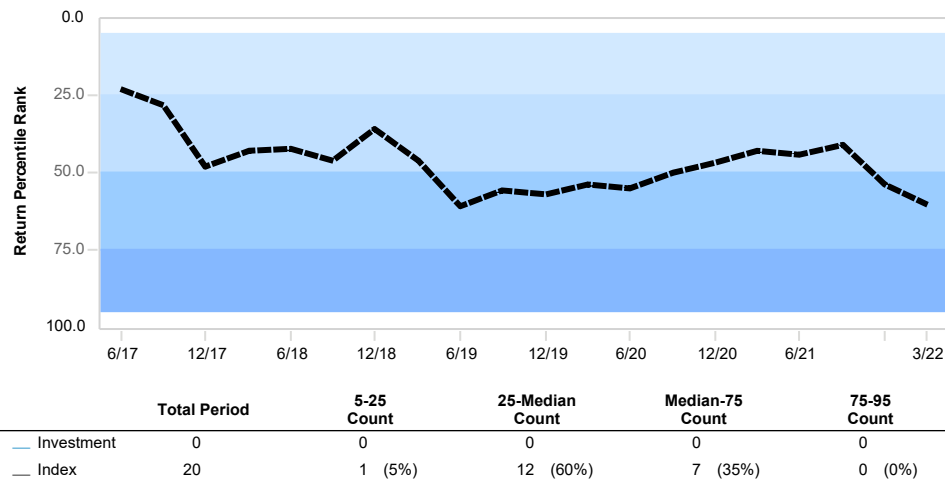
### Risk and Return 3 Years



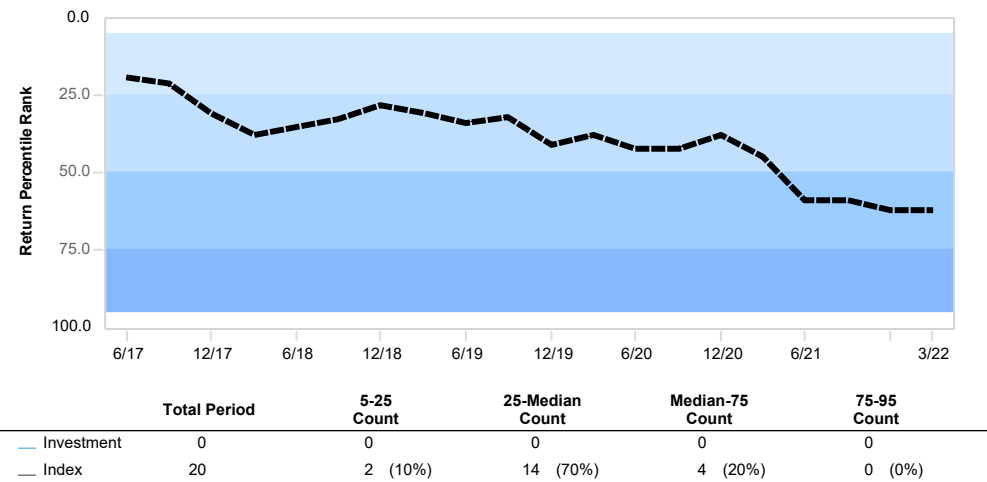
### Risk and Return 5 Years



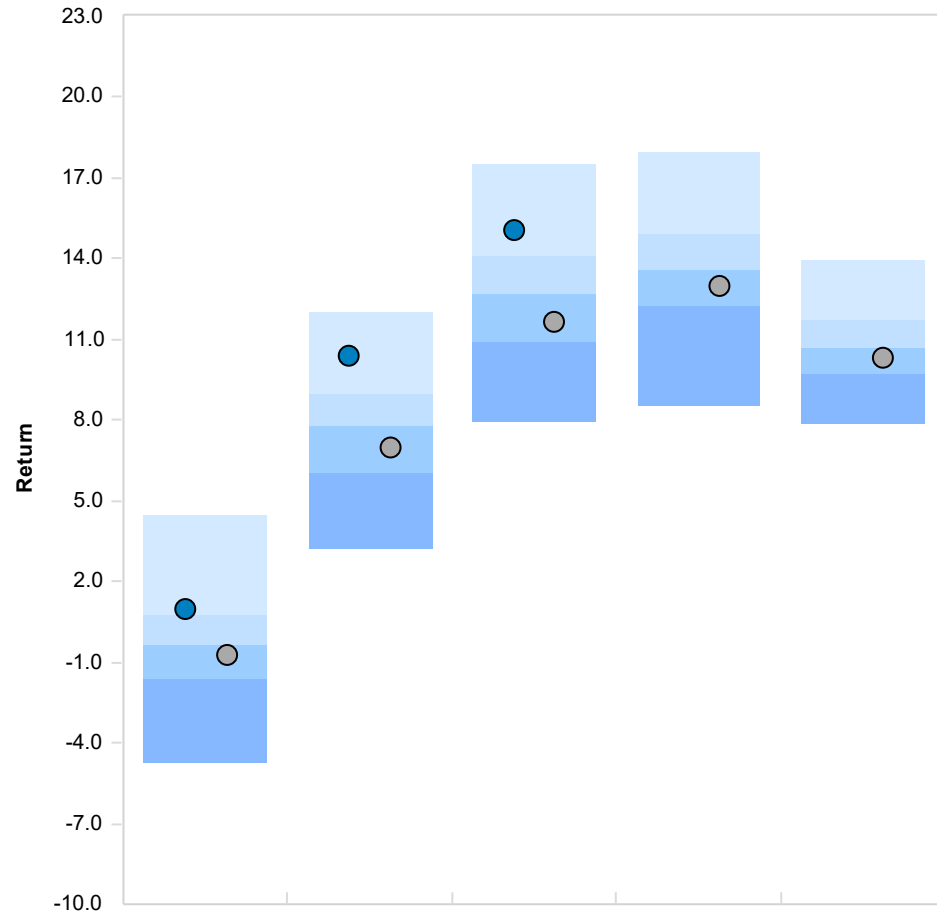
### 3 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (MF)



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

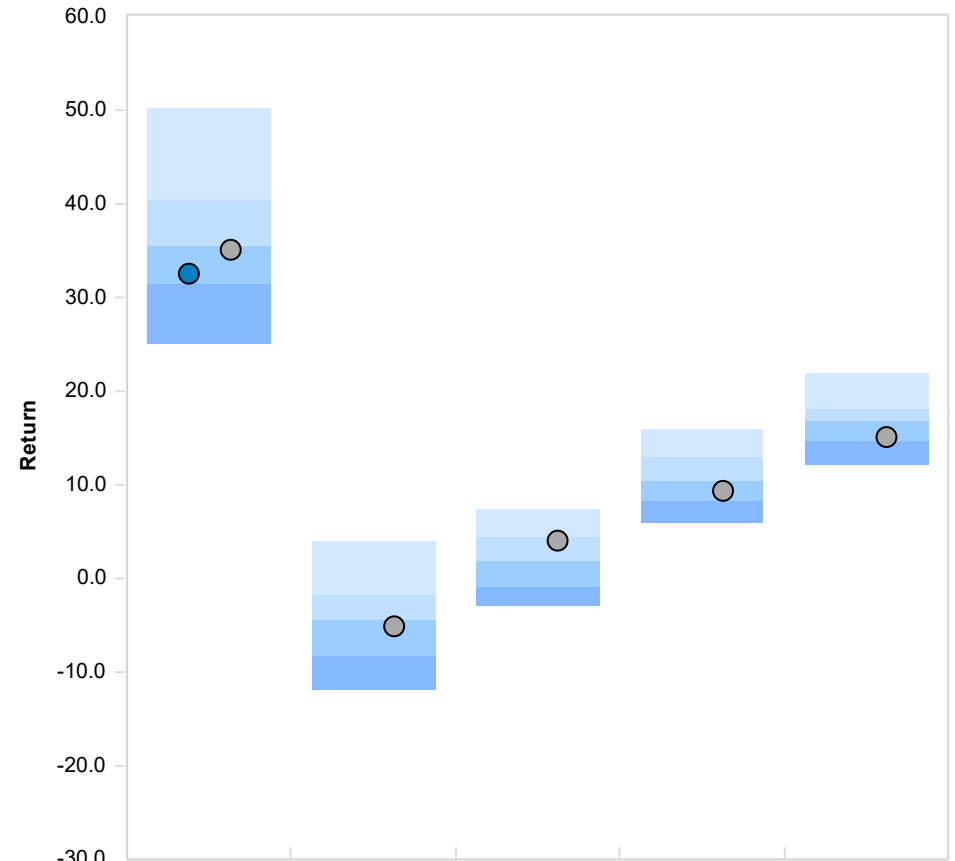


**Peer Group Analysis - IM U.S. Large Cap Value Equity (MF)**



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	0.99 (23)	10.41 (11)	15.10 (15)	N/A	N/A
Index	-0.74 (62)	6.98 (63)	11.67 (66)	13.02 (60)	10.29 (62)
Median	-0.38	7.79	12.73	13.55	10.66

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

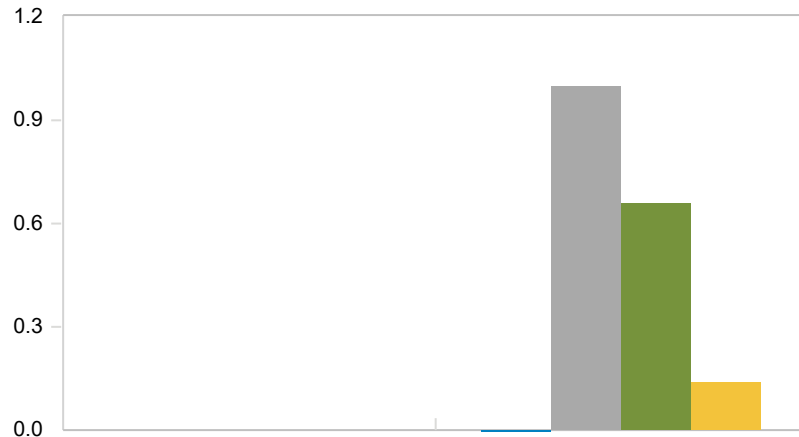


	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	32.50 (68)	N/A	N/A	N/A	N/A
Index	35.01 (53)	-5.03 (54)	4.00 (30)	9.45 (61)	15.12 (72)
Median	35.63	-4.55	1.87	10.42	16.75

**Comparative Performance**

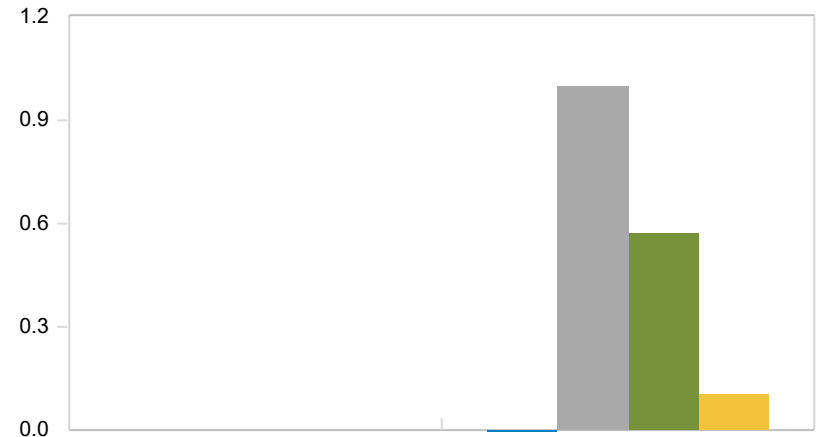
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	9.33 (18)	-0.96 (61)	5.25 (50)	10.99 (55)	14.51 (68)	5.62 (33)
Index	7.77 (58)	-0.78 (55)	5.21 (53)	11.26 (50)	16.25 (43)	5.59 (34)
Median	8.23	-0.66	5.25	11.23	15.77	4.82

Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



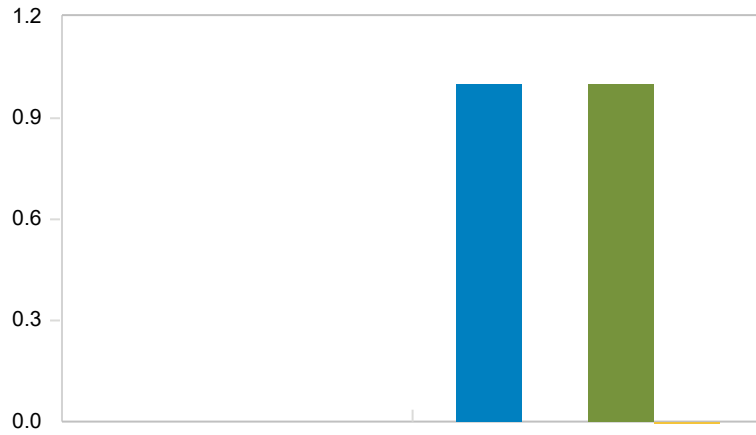
	Vanguard Value Adm (VVIAX)	Russell 1000 Value Index
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	0.66
Treynor Ratio	N/A	0.14

Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



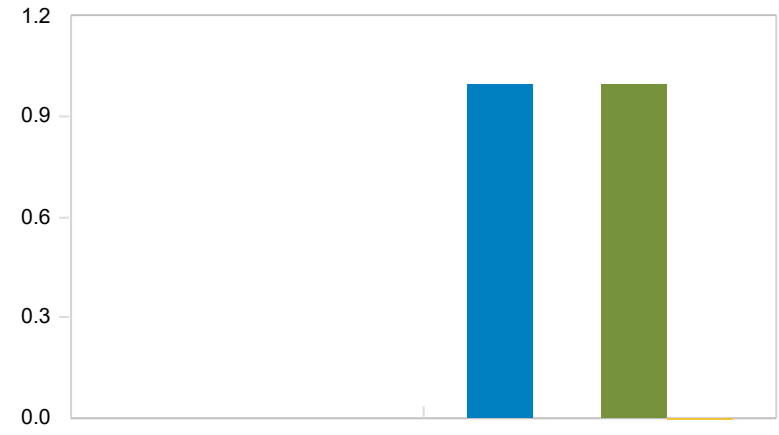
	Vanguard Value Adm (VVIAX)	Russell 1000 Value Index
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	0.57
Treynor Ratio	N/A	0.11

Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Vanguard Value Adm (VVIAX)	Russell 1000 Value Index
Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Vanguard Value Adm (VVIAX)	Russell 1000 Value Index
Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Benchmark: Russell 1000 Value Index



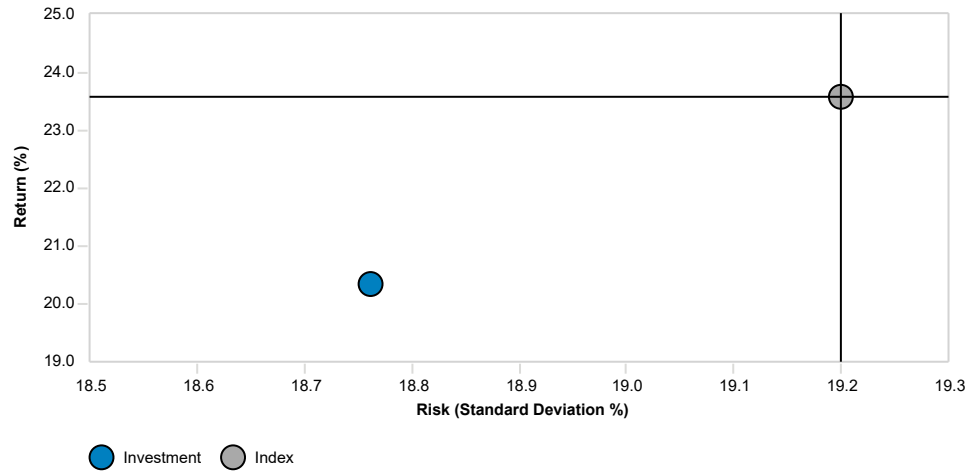
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	20.35	18.76	1.04	93.52	10	100.81	2
Index	23.60	19.20	1.16	100.00	10	100.00	2

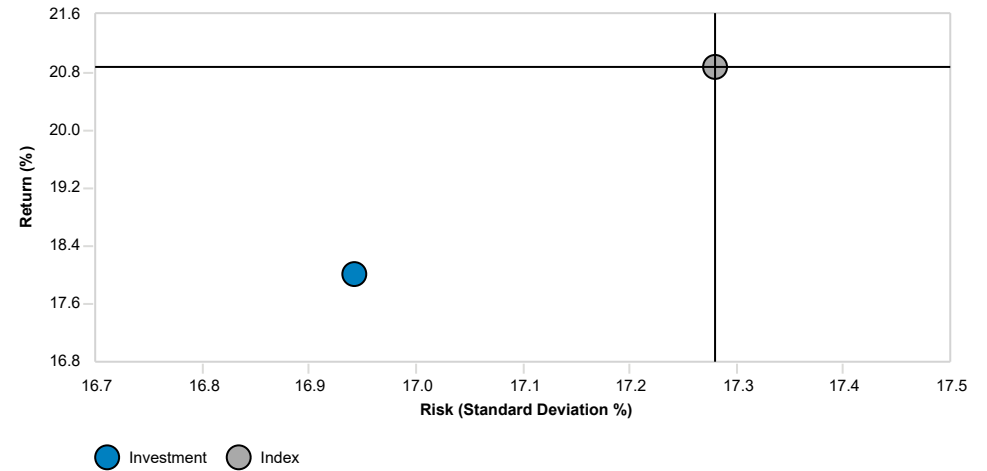
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	18.01	16.94	1.00	93.58	17	101.32	3
Index	20.88	17.28	1.12	100.00	17	100.00	3

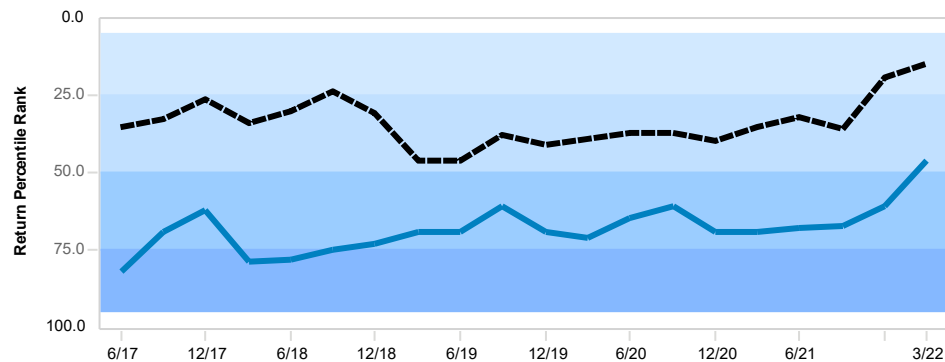
### Risk and Return 3 Years



### Risk and Return 5 Years

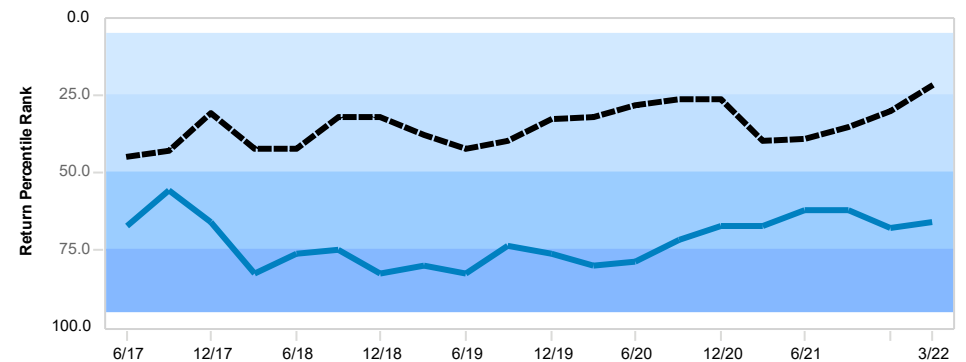


### 3 Year Rolling Percentile Rank IM U.S. Large Cap Growth Equity (SA+CF)



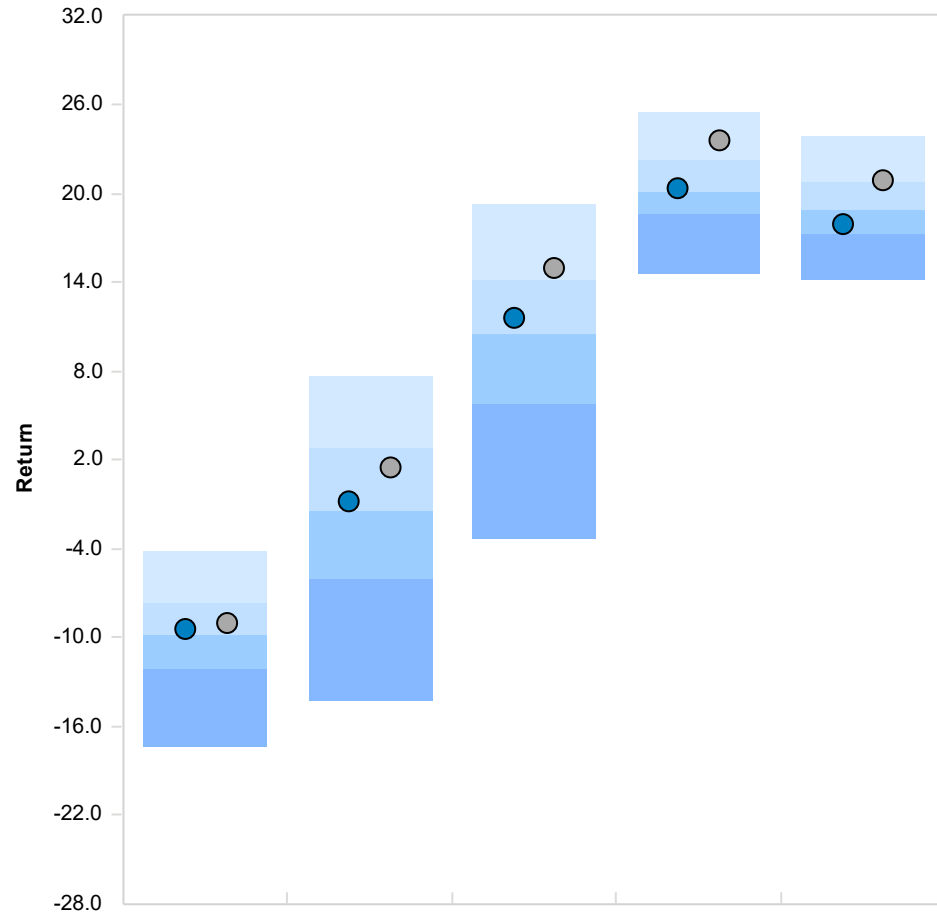
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	1 (5%)	16 (80%)	3 (15%)
Index	20	3 (15%)	17 (85%)	0 (0%)	0 (0%)

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



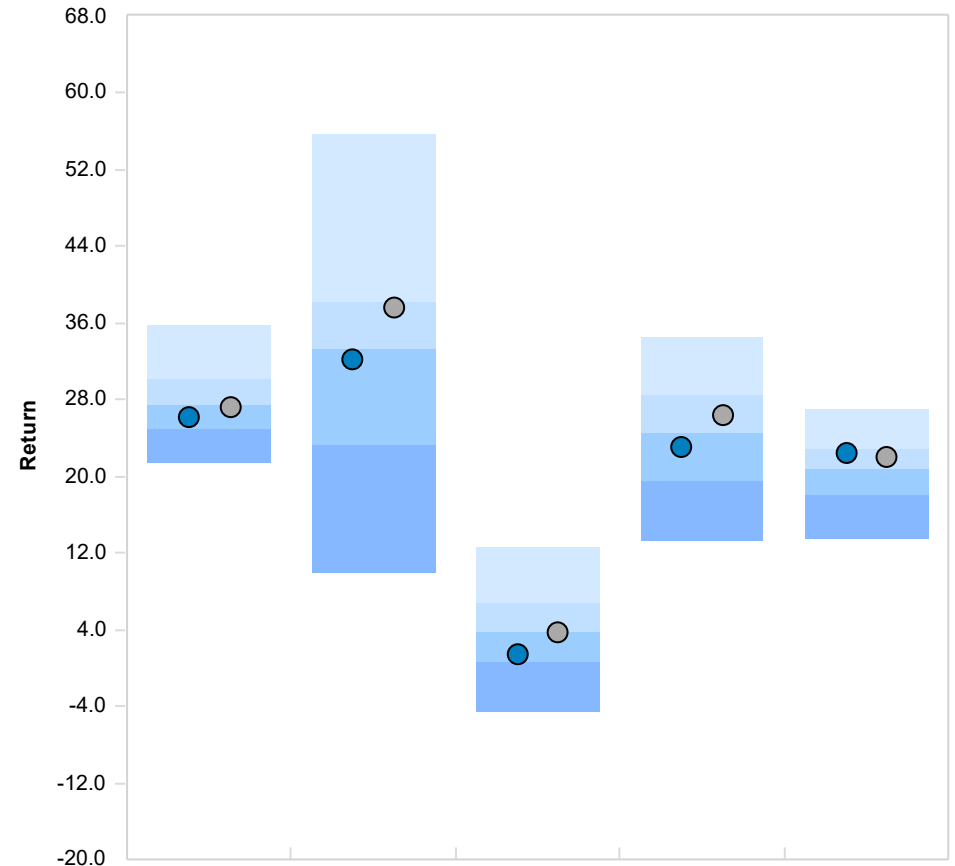
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	0 (0%)	12 (60%)	8 (40%)
Index	20	1 (5%)	19 (95%)	0 (0%)	0 (0%)

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



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	-9.35 (44)	-0.70 (46)	11.59 (44)	20.35 (46)	18.01 (66)
Index	-9.04 (42)	1.54 (34)	14.98 (20)	23.60 (15)	20.88 (22)
Median	-9.86	-1.43	10.61	20.16	18.87

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

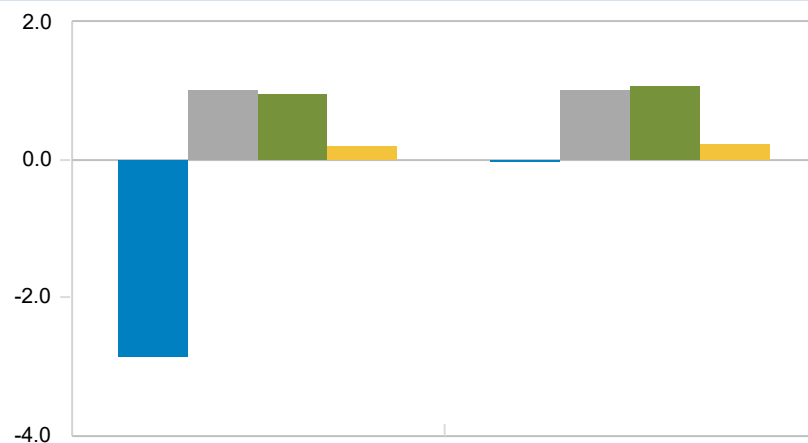


	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	26.12 (63)	32.22 (56)	1.34 (70)	22.99 (61)	22.46 (33)
Index	27.32 (52)	37.53 (29)	3.71 (52)	26.30 (37)	21.94 (39)
Median	27.47	33.32	3.80	24.48	20.87

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	9.54 (47)	0.41 (60)	11.92 (31)	1.49 (62)	10.59 (67)	13.06 (25)
Index	11.64 (24)	1.16 (36)	11.93 (31)	0.94 (72)	11.39 (54)	13.22 (24)
Median	9.33	0.70	10.92	2.30	11.59	11.15

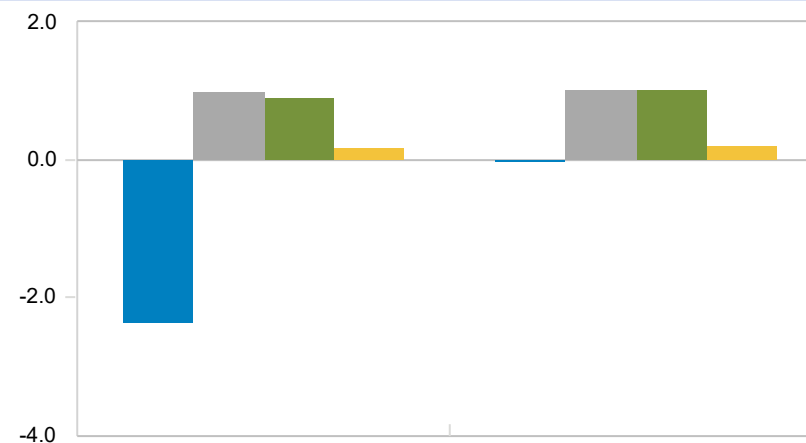
## Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



	Highland LCG	Russell 1000 Growth Index
Alpha	-2.86	0.00
Beta	1.01	1.00
Sharpe Ratio	0.94	1.08
Treynor Ratio	0.20	0.23

■ Alpha  
■ Beta  
■ Sharpe Ratio  
■ Treynor Ratio

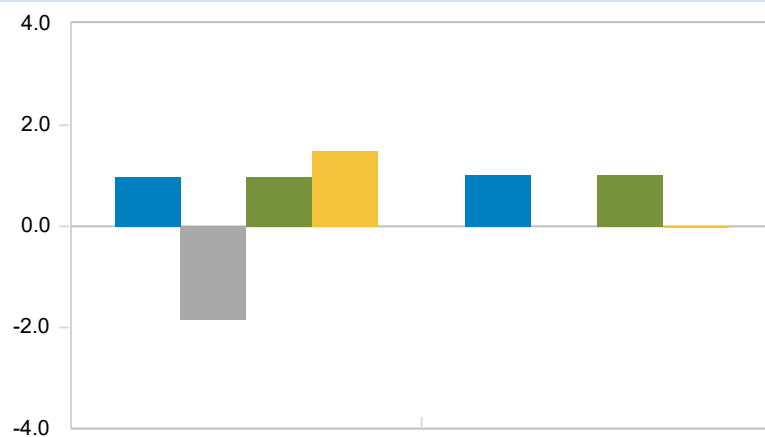
## Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



	Highland LCG	Russell 1000 Growth Index
Alpha	-2.35	0.00
Beta	0.99	1.00
Sharpe Ratio	0.89	1.01
Treynor Ratio	0.18	0.20

■ Alpha  
■ Beta  
■ Sharpe Ratio  
■ Treynor Ratio

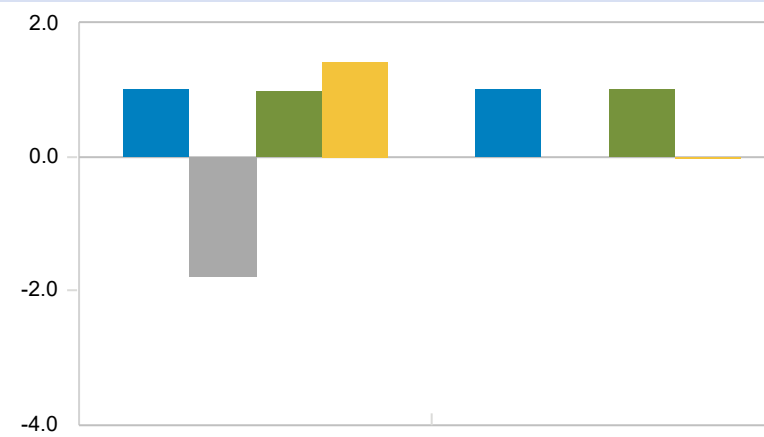
## Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Highland LCG	Russell 1000 Growth Index
Actual Correlation	1.00	1.00
Information Ratio	-1.84	N/A
R-Squared	1.00	1.00
Tracking Error	1.48	0.00

■ Actual Correlation  
■ Information Ratio  
■ R-Squared  
■ Tracking Error

## Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Highland LCG	Russell 1000 Growth Index
Actual Correlation	1.00	1.00
Information Ratio	-1.78	N/A
R-Squared	0.99	1.00
Tracking Error	1.41	0.00

■ Actual Correlation  
■ Information Ratio  
■ R-Squared  
■ Tracking Error

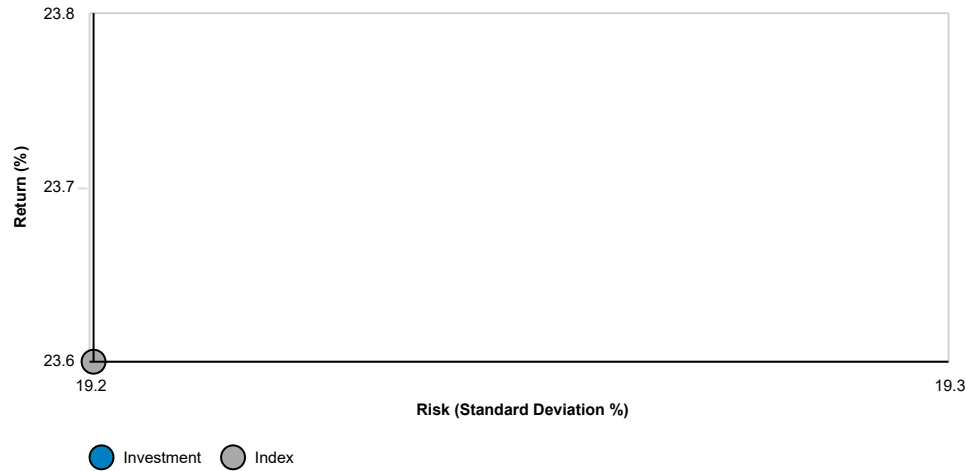
### Historical Statistics 3 Years

	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	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	20.88	17.28	1.12	100.00	17	100.00	3

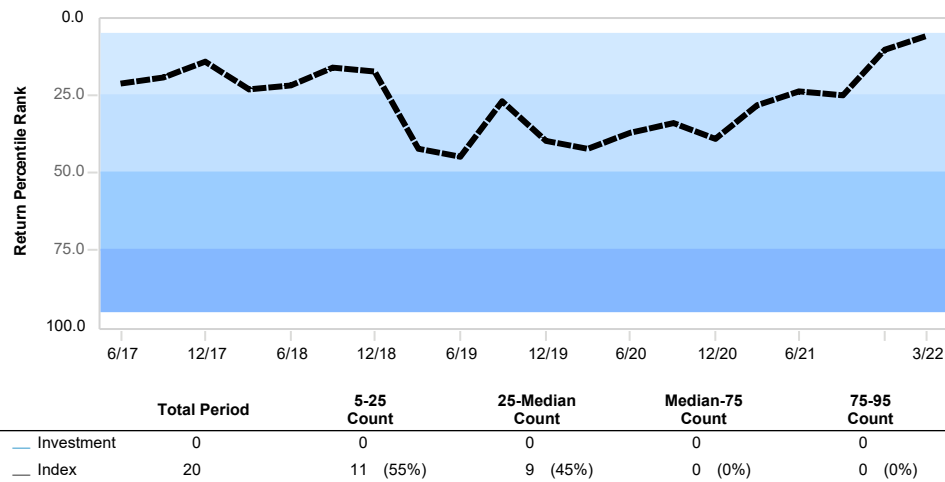
### Risk and Return 3 Years



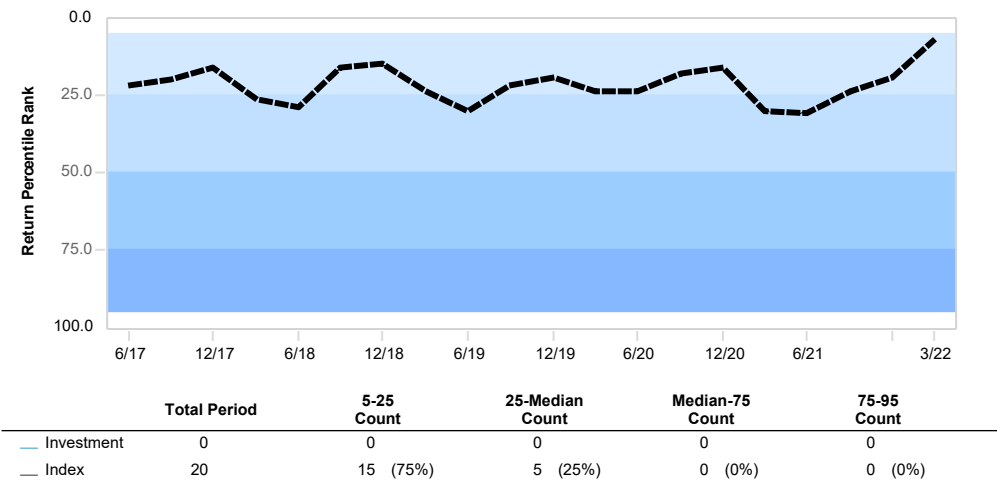
### Risk and Return 5 Years



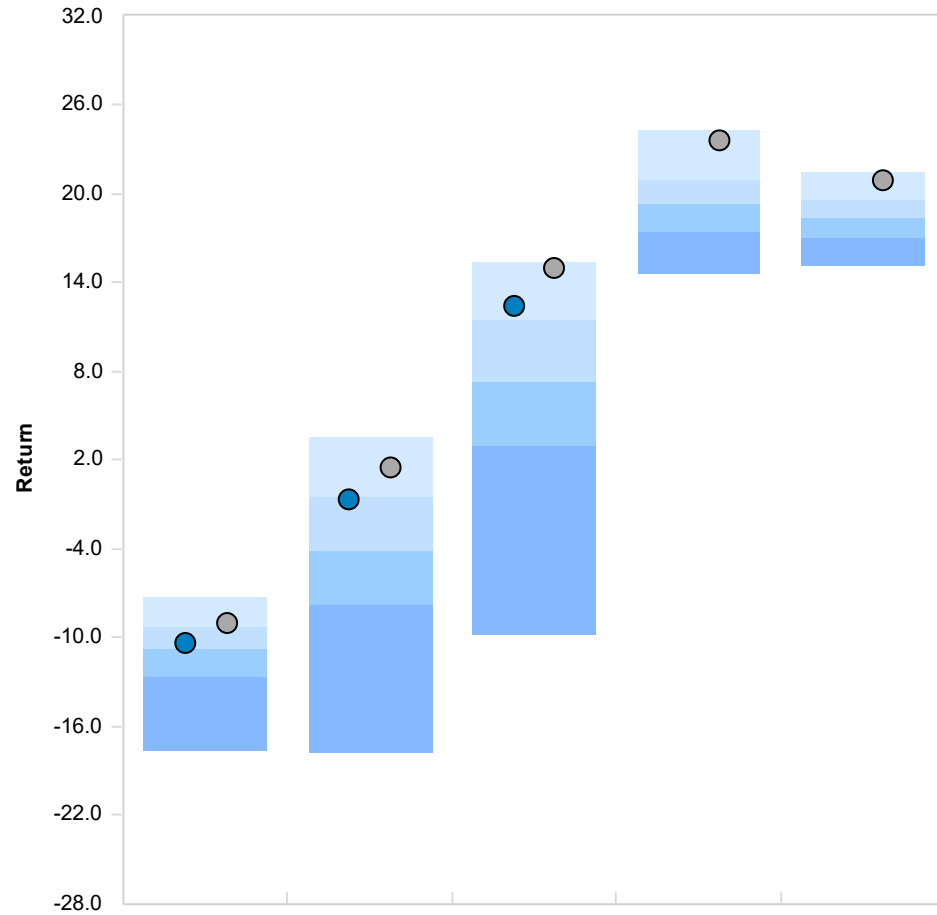
### 3 Year Rolling Percentile Rank IM U.S. Large Cap Growth Equity (MF)



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

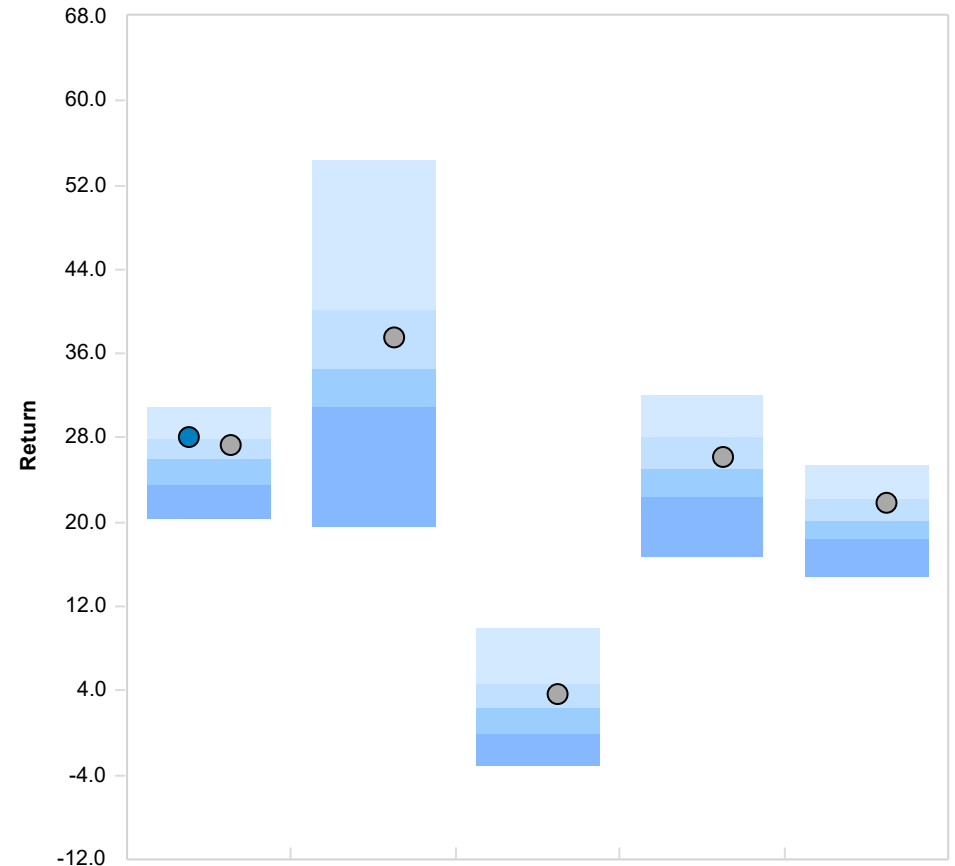


Peer Group Analysis - IM U.S. Large Cap Growth Equity (MF)



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	-10.29 (43)	-0.66 (27)	12.48 (18)	N/A	N/A
Index	-9.04 (20)	1.54 (11)	14.98 (7)	23.60 (6)	20.88 (7)
Median	-10.70	-4.12	7.31	19.34	18.34

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



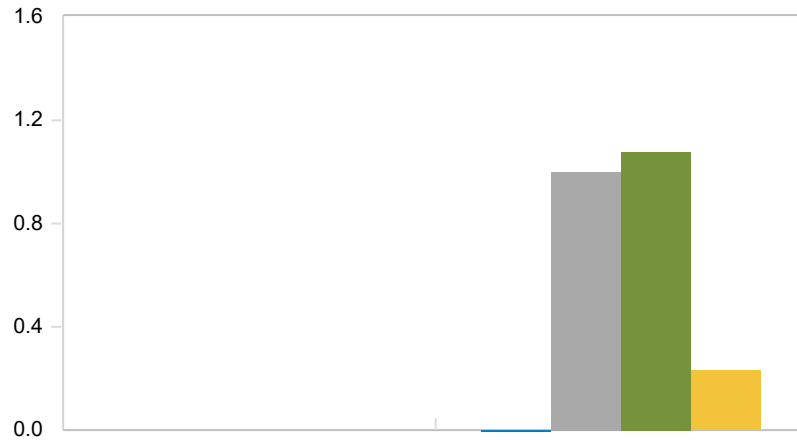
	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	28.07 (23)	N/A	N/A	N/A	N/A
Index	27.32 (33)	37.53 (34)	3.71 (33)	26.30 (38)	21.94 (28)
Median	26.03	34.55	2.32	25.06	20.13

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	10.73 (20)	1.38 (18)	11.69 (42)	1.50 (43)	11.44 (44)	13.01 (27)
Index	11.64 (8)	1.16 (24)	11.93 (33)	0.94 (57)	11.39 (45)	13.22 (23)
Median	7.69	0.46	11.36	1.17	11.16	11.51

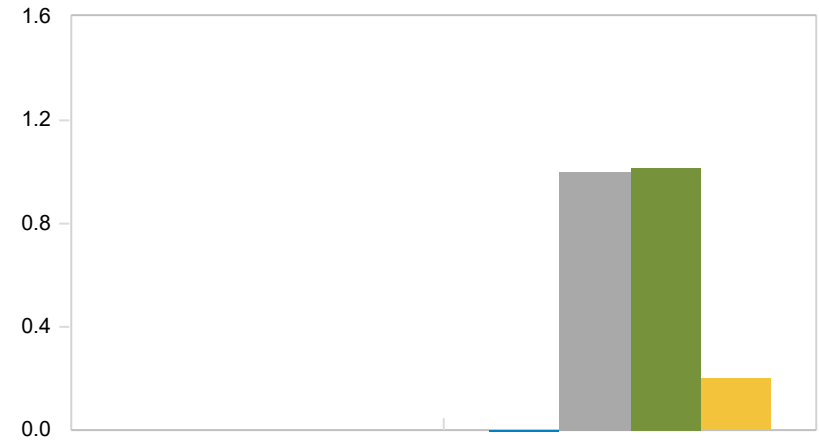


Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



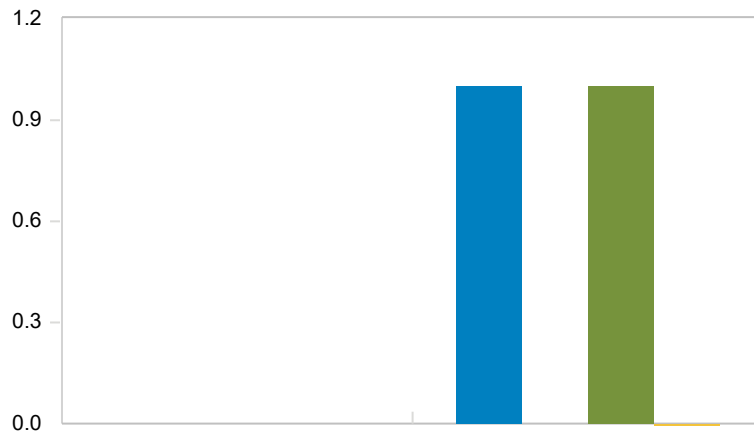
	Vanguard Growth Adm (VIGAX)	Russell 1000 Growth Index
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	1.08
Treynor Ratio	N/A	0.23

Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



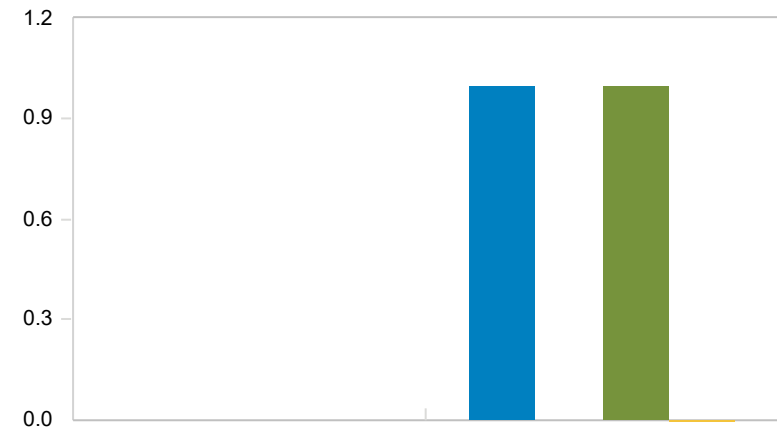
	Vanguard Growth Adm (VIGAX)	Russell 1000 Growth Index
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	1.01
Treynor Ratio	N/A	0.20

Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Vanguard Growth Adm (VIGAX)	Russell 1000 Growth Index
Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Vanguard Growth Adm (VIGAX)	Russell 1000 Growth Index
Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Benchmark: Russell 1000 Growth Index



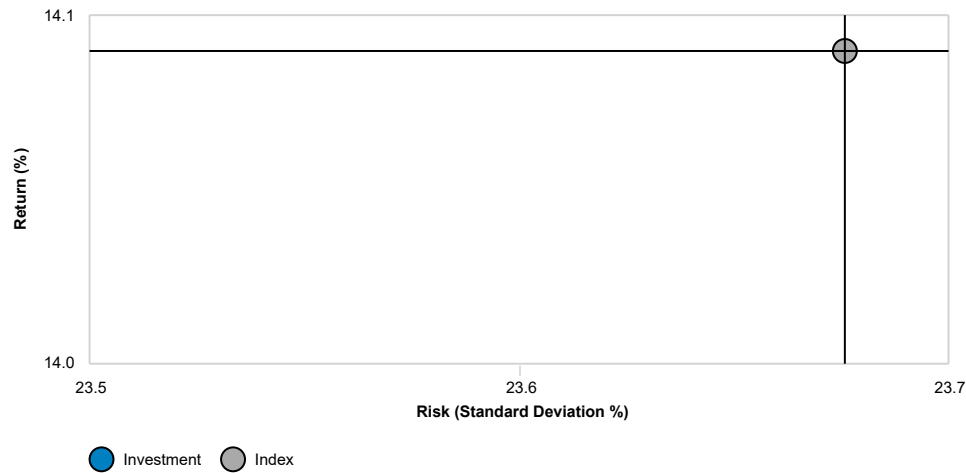
### Historical Statistics 3 Years

	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	14.09	23.68	0.64	100.00	8	100.00	4

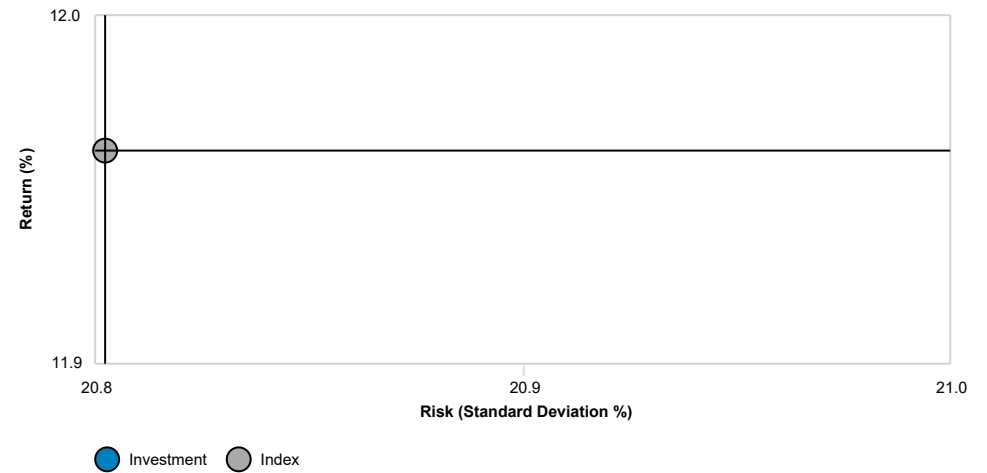
### Historical Statistics 5 Years

	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	11.96	20.80	0.60	100.00	15	100.00	5

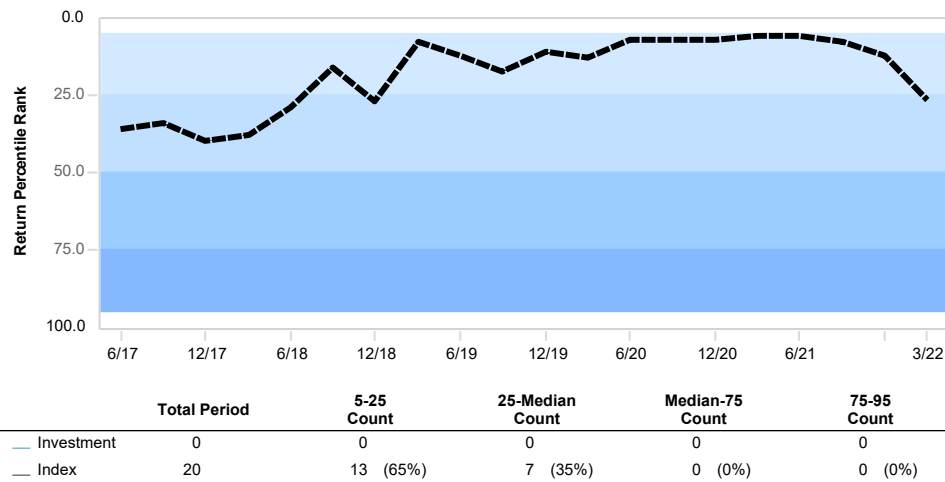
### Risk and Return 3 Years



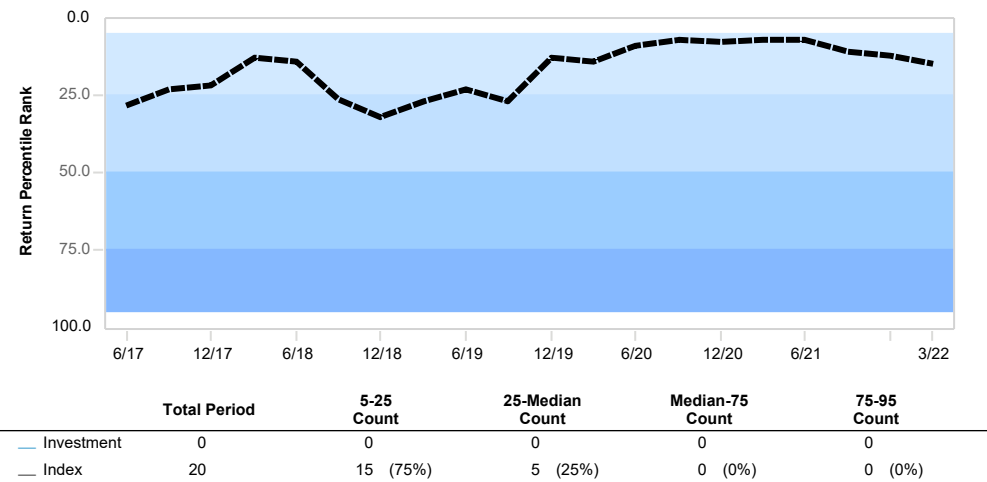
### Risk and Return 5 Years



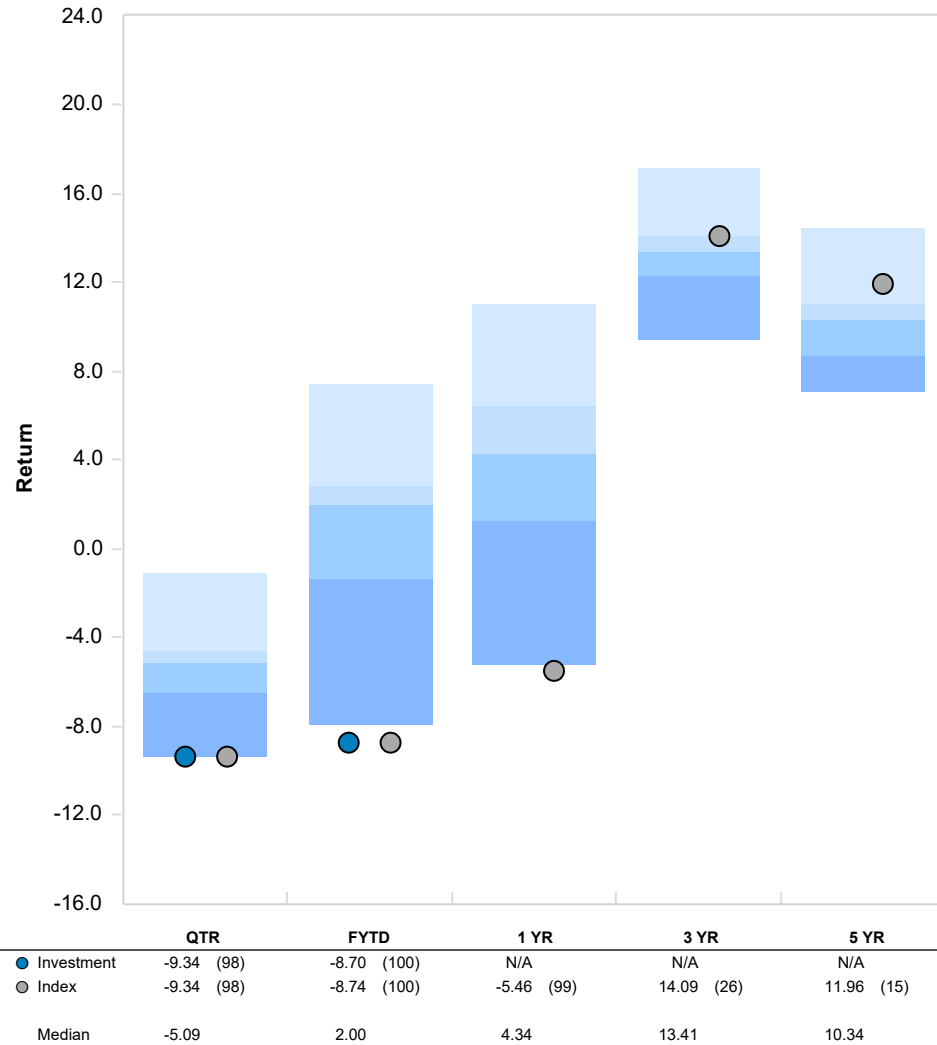
### 3 Year Rolling Percentile Rank IM U.S. SMID Cap Core Equity (MF)



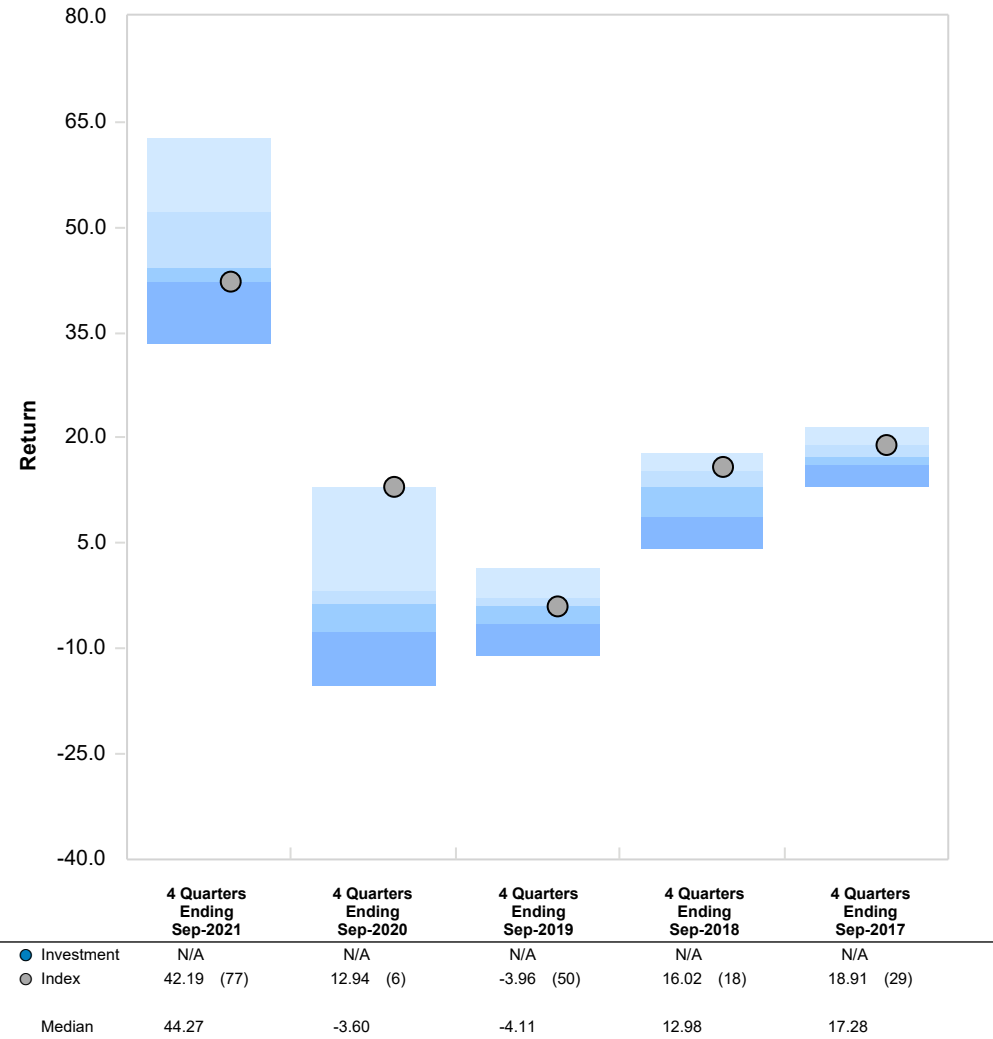
### 5 Year Rolling Percentile Rank IM U.S. SMID Cap Core Equity (MF)



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



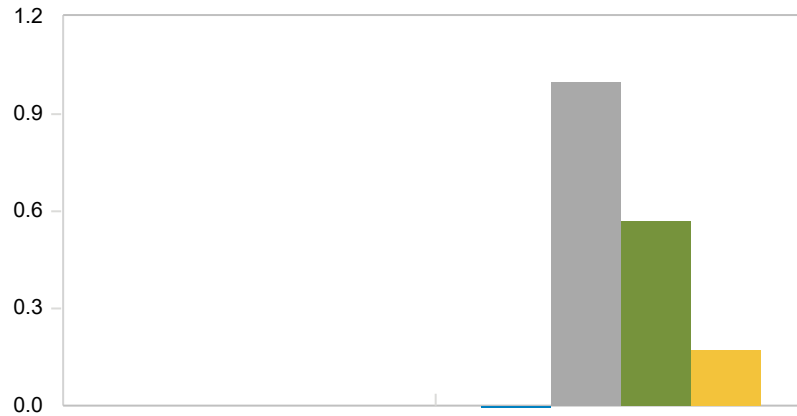
Peer Group Analysis - IM U.S. SMID Cap Core Equity (MF)



Comparative Performance

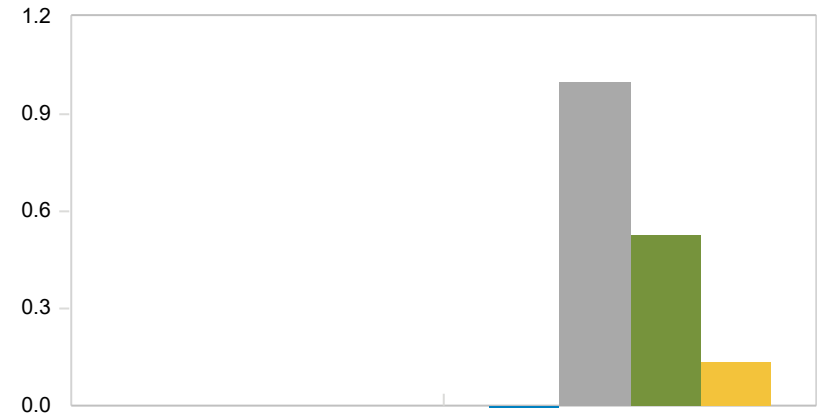
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	0.70 (99)	-3.27 (87)	N/A	N/A	N/A	N/A
Index	0.66 (100)	-3.30 (87)	7.12 (10)	7.75 (92)	27.40 (18)	9.90 (5)
Median	7.50	-1.79	4.52	13.33	24.94	4.74

Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



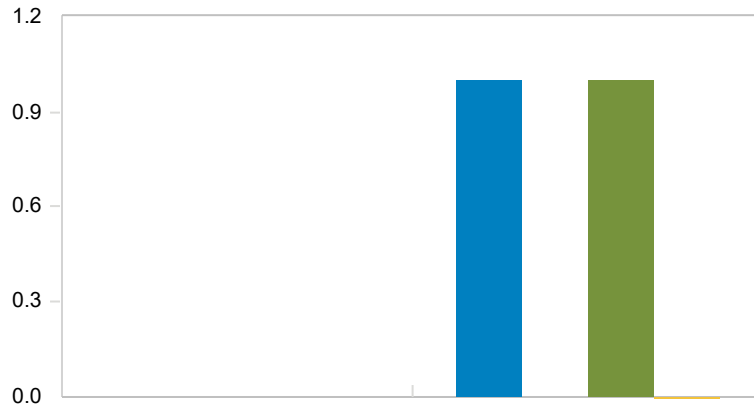
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	0.57
Treynor Ratio	N/A	0.17

Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



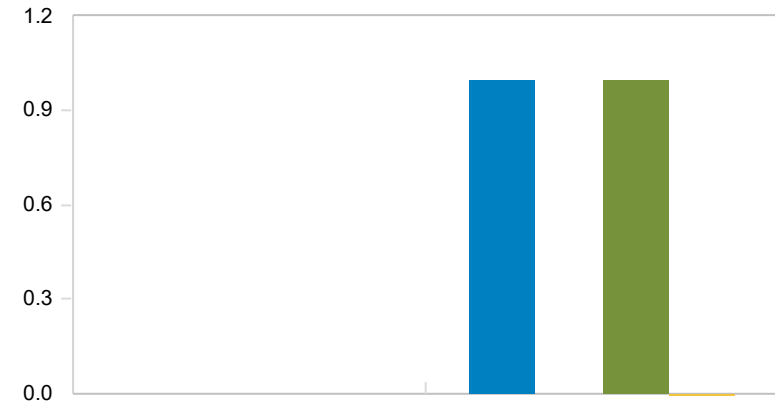
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	0.53
Treynor Ratio	N/A	0.14

Index Relative Historical Statistics 3 Years Ending March 31, 2022



Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Index Relative Historical Statistics 5 Years Ending March 31, 2022



Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Benchmark: S&P Completion Index



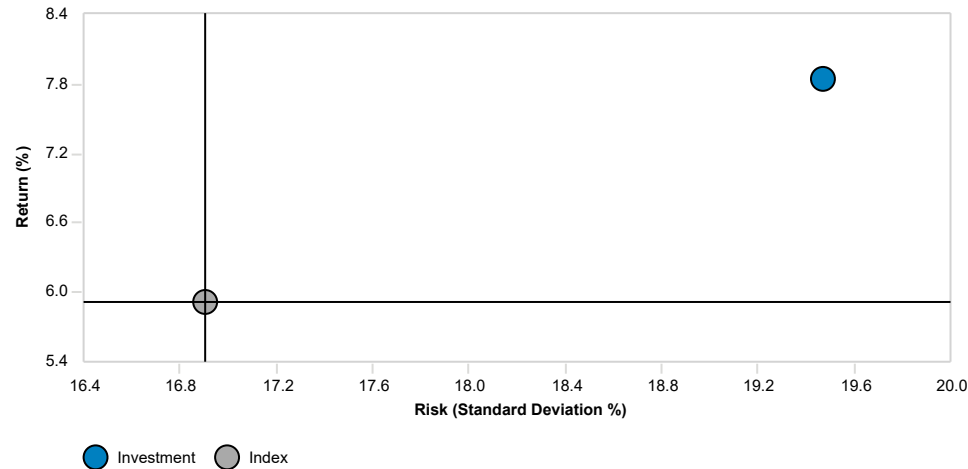
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.85	19.47	0.44	107.96	8	99.25	4
Index	5.93	16.90	0.38	100.00	8	100.00	4

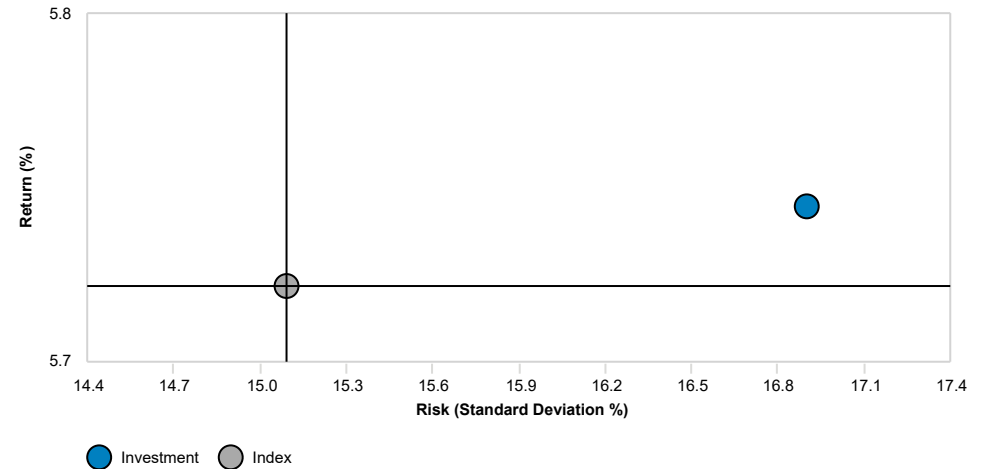
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.74	16.90	0.35	101.48	14	100.21	6
Index	5.72	15.09	0.37	100.00	13	100.00	7

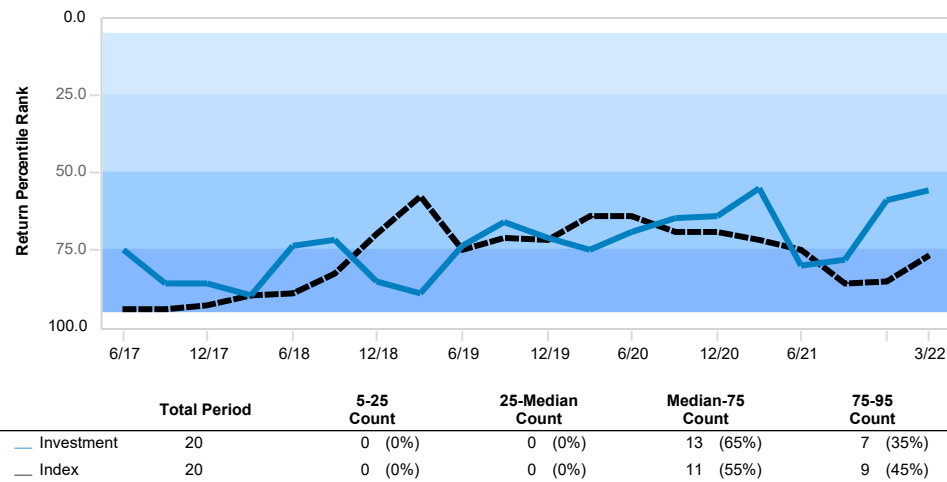
### Risk and Return 3 Years



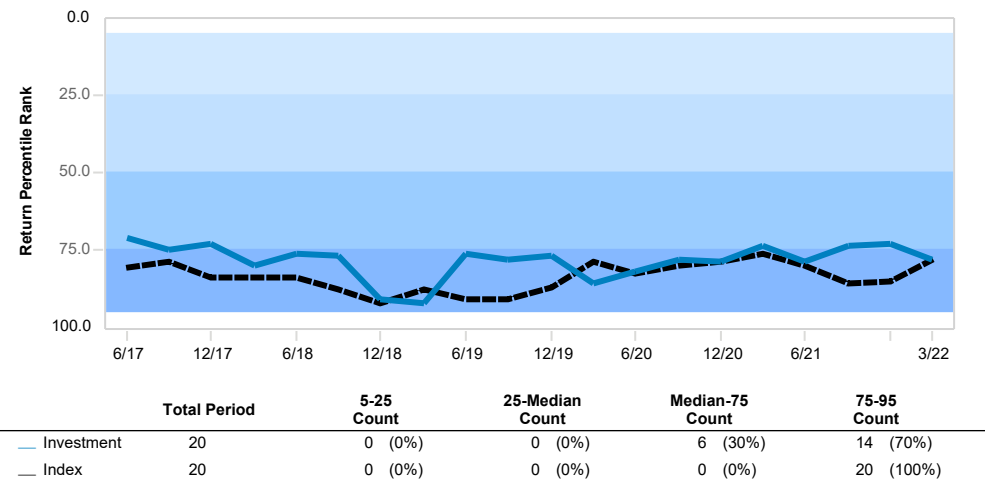
### Risk and Return 5 Years



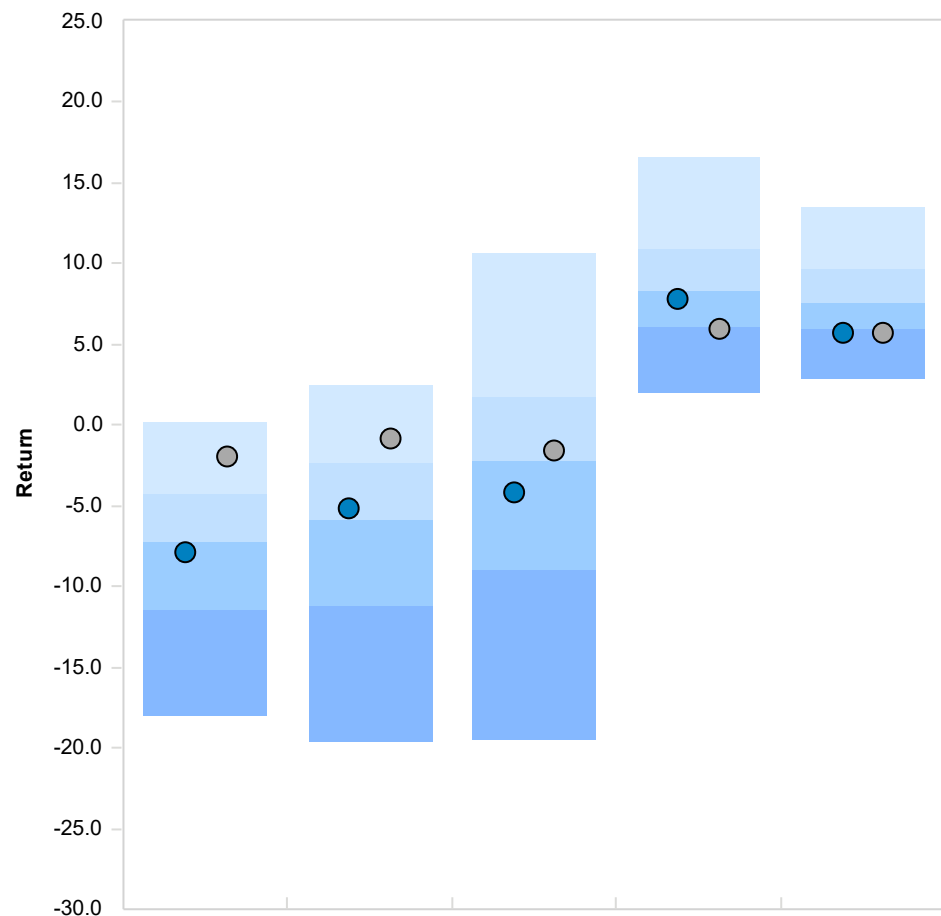
### 3 Year Rolling Percentile Rank IM International Equity (SA+CF)



### 5 Year Rolling Percentile Rank IM International Equity (SA+CF)

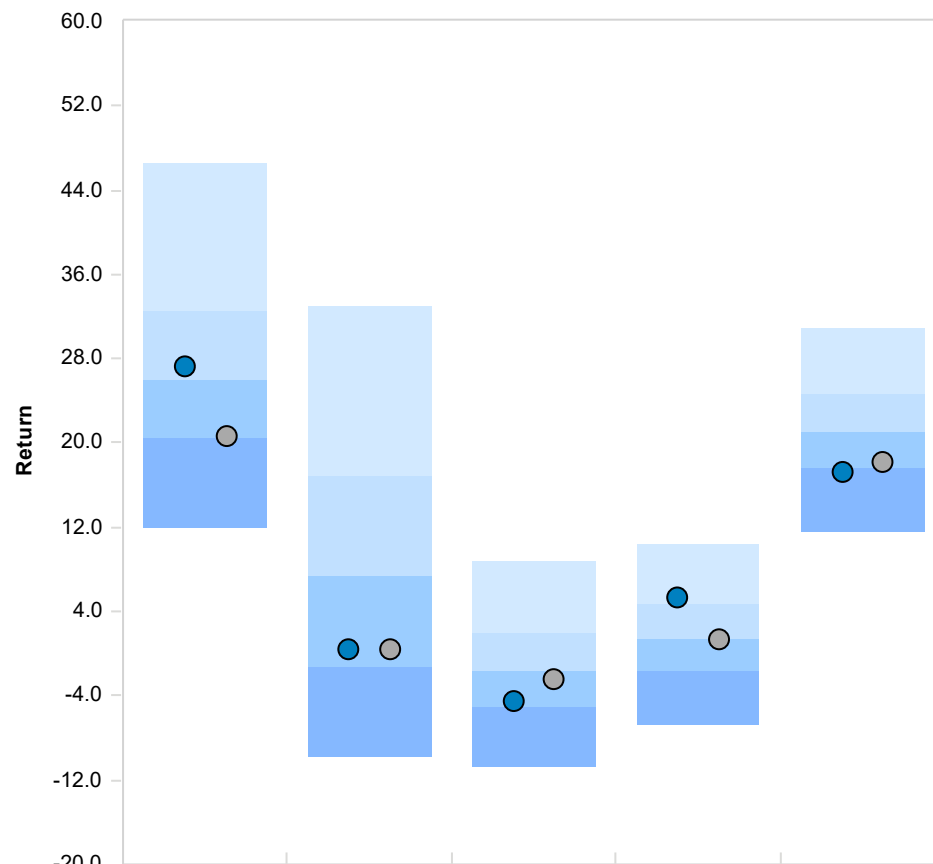


### Peer Group Analysis - IM International Equity (SA+CF)



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	-7.89 (55)	-5.10 (43)	-4.16 (60)	7.85 (56)	5.74 (78)
Index	-1.93 (15)	-0.86 (17)	-1.63 (46)	5.93 (77)	5.72 (78)
Median	-7.25	-5.88	-2.21	8.27	7.56

### Peer Group Analysis - IM International Equity (SA+CF)

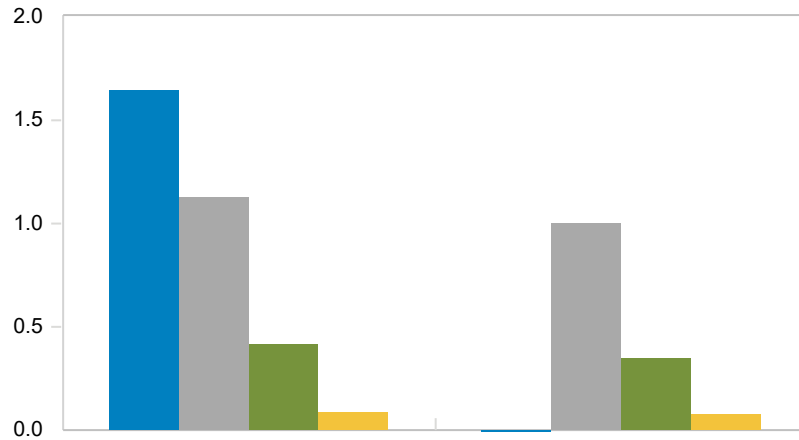


	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	27.21 (46)	0.44 (72)	-4.58 (73)	5.35 (22)	17.29 (79)
Index	20.61 (75)	0.49 (72)	-2.48 (59)	1.35 (51)	18.14 (73)
Median	26.01	7.45	-1.56	1.42	21.10

### Comparative Performance

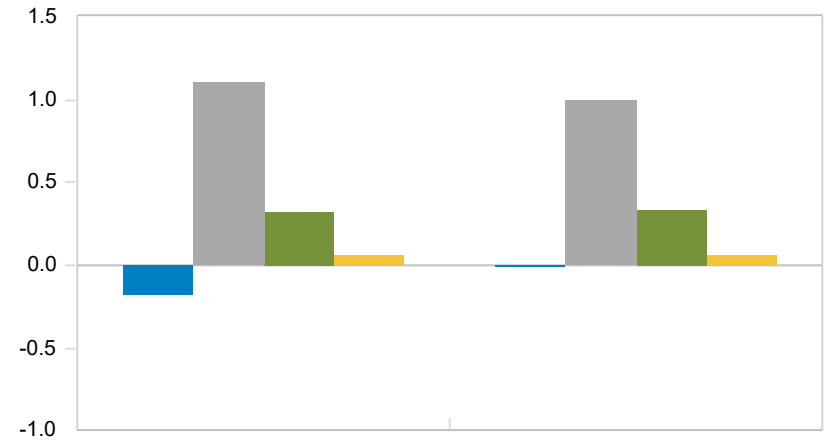
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	3.03 (25)	-1.25 (44)	2.26 (92)	6.09 (28)	18.74 (40)	7.02 (64)
Index	1.09 (51)	-5.79 (80)	5.32 (57)	4.84 (40)	15.95 (65)	5.55 (77)
Median	1.11	-1.74	5.65	3.85	17.41	8.67

Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



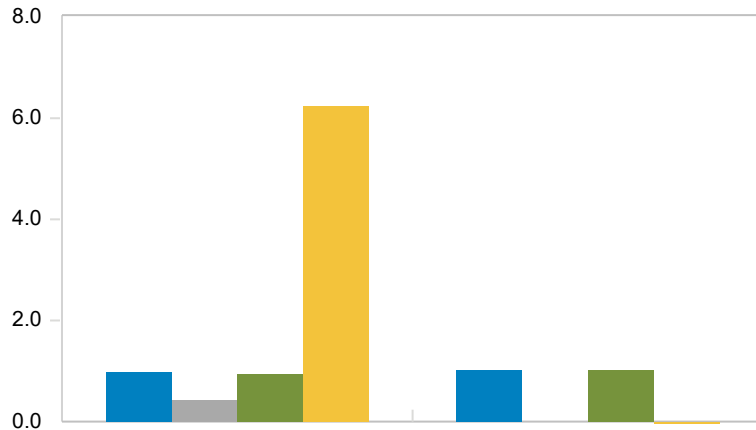
	Highland International	BONY ADR Index
Alpha	1.64	0.00
Beta	1.13	1.00
Sharpe Ratio	0.41	0.35
Treynor Ratio	0.09	0.07

Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



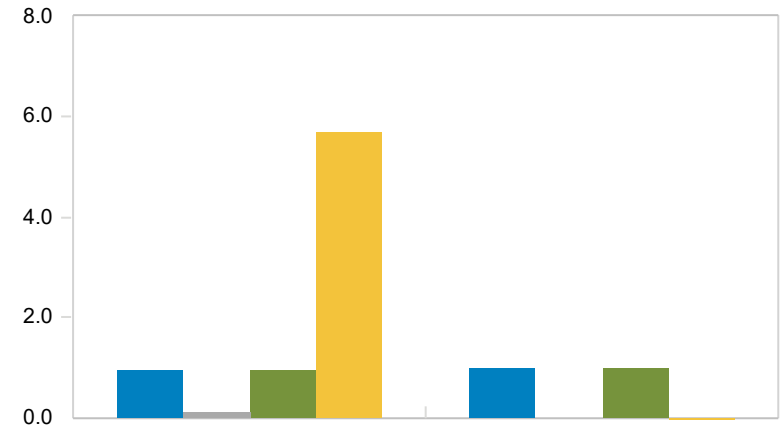
	Highland International	BONY ADR Index
Alpha	-0.19	0.00
Beta	1.11	1.00
Sharpe Ratio	0.33	0.34
Treynor Ratio	0.06	0.06

Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Highland International	BONY ADR Index
Actual Correlation	0.97	1.00
Information Ratio	0.43	N/A
R-Squared	0.94	1.00
Tracking Error	6.24	0.00

Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Highland International	BONY ADR Index
Actual Correlation	0.96	1.00
Information Ratio	0.10	N/A
R-Squared	0.93	1.00
Tracking Error	5.69	0.00

Benchmark: BONY ADR Index



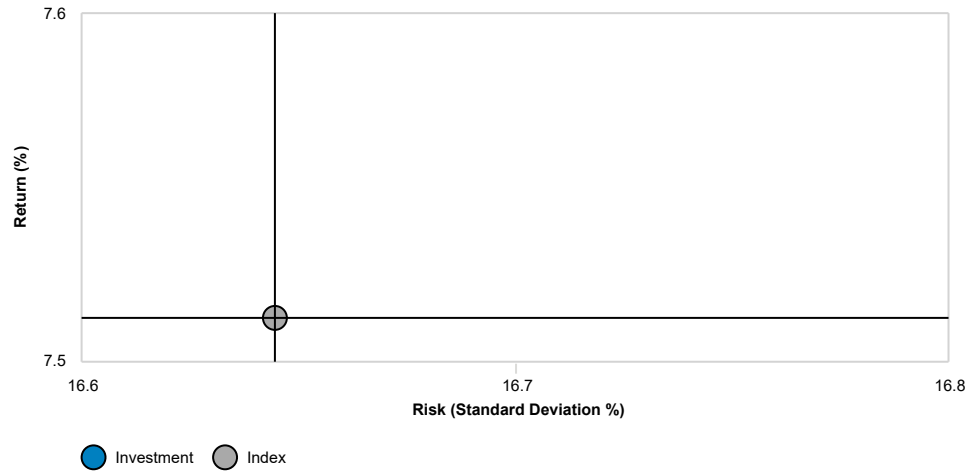
### Historical Statistics 3 Years

	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	7.51	16.64	0.47	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	6.76	14.79	0.44	100.00	13	100.00	7

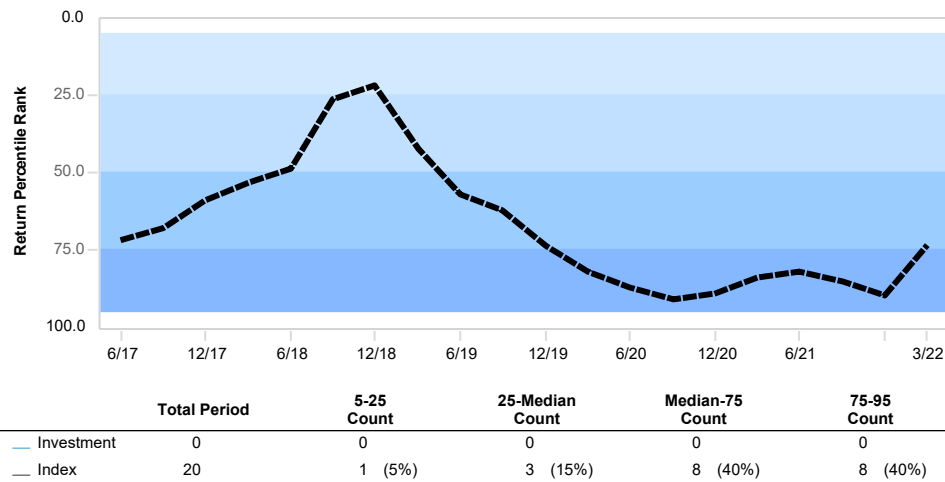
### Risk and Return 3 Years



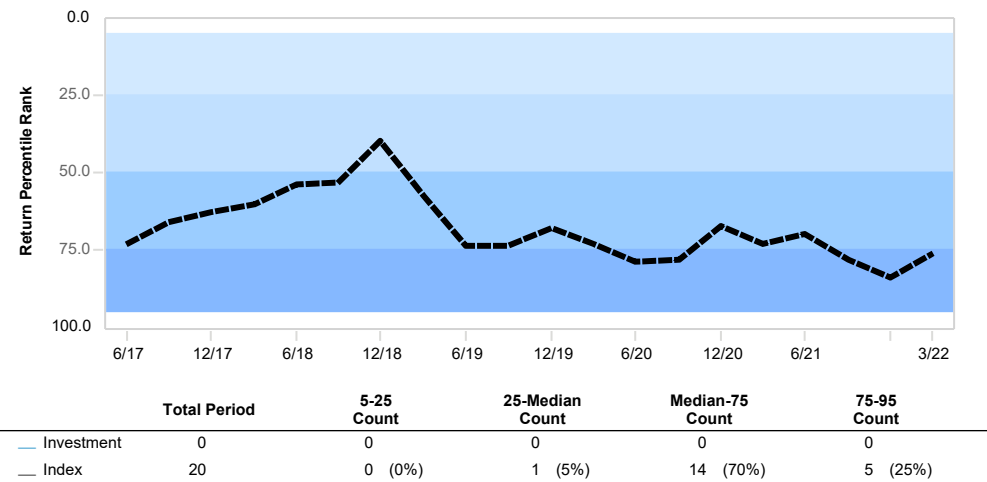
### Risk and Return 5 Years



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

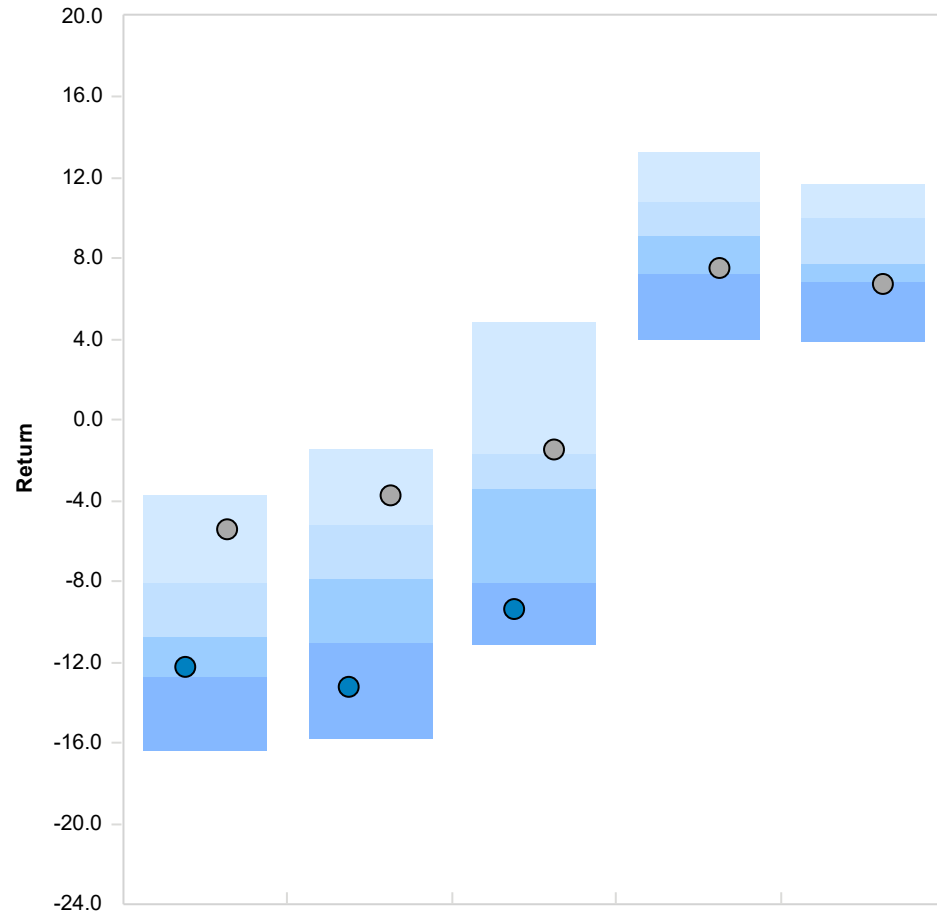


### 5 Year Rolling Percentile Rank IM International Large Cap Growth Equity (MF)



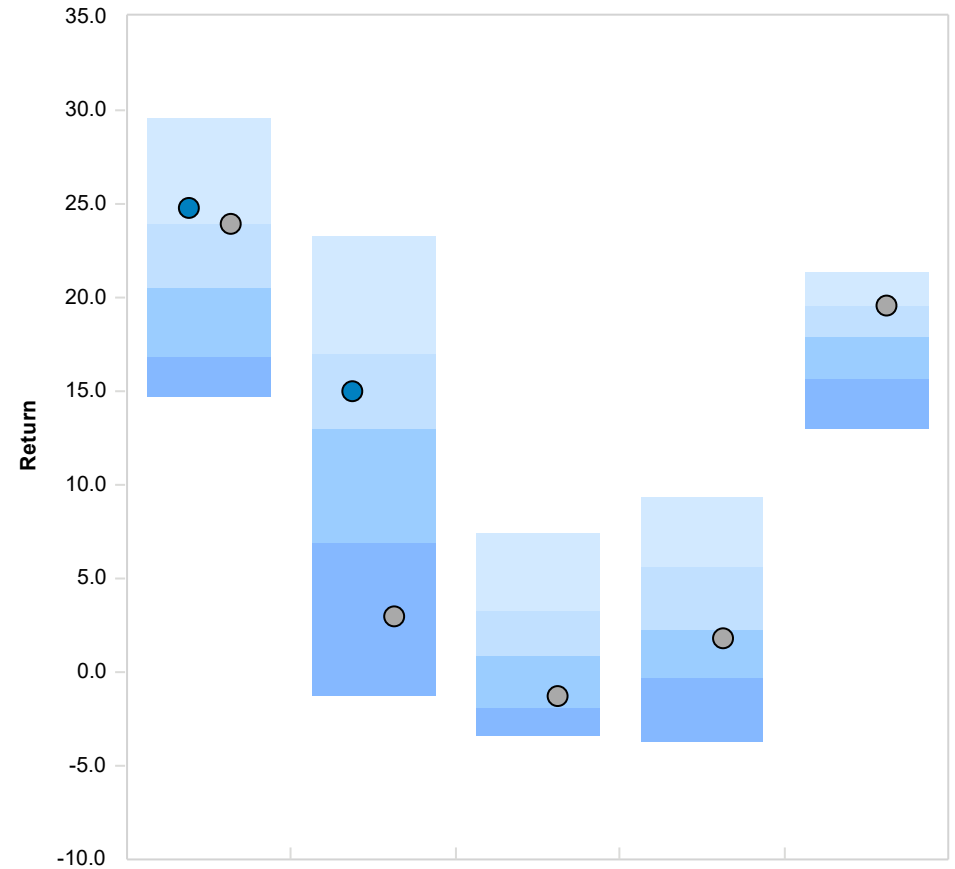


Peer Group Analysis - IM International Large Cap Growth Equity (MF)



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	-12.24 (65)	-13.22 (86)	-9.35 (84)	N/A	N/A
Index	-5.44 (10)	-3.72 (14)	-1.48 (25)	7.51 (74)	6.76 (76)
Median	-10.79	-7.89	-3.40	9.11	7.74

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

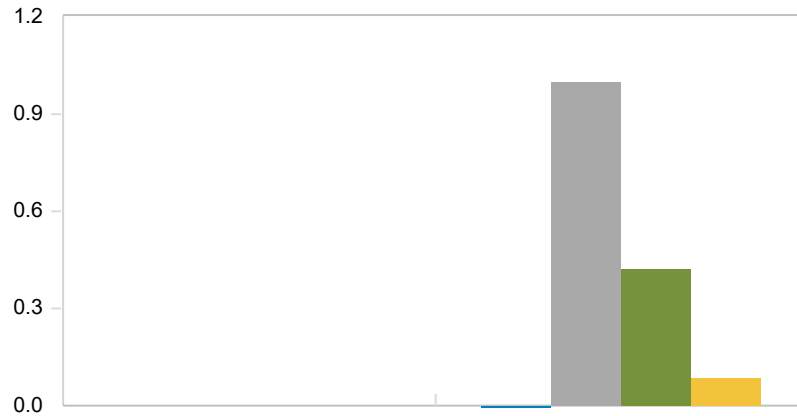


	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	24.76 (18)	14.97 (35)	N/A	N/A	N/A
Index	23.92 (26)	3.00 (88)	-1.23 (68)	1.76 (57)	19.61 (26)
Median	20.58	13.00	0.81	2.28	17.85

Comparative Performance

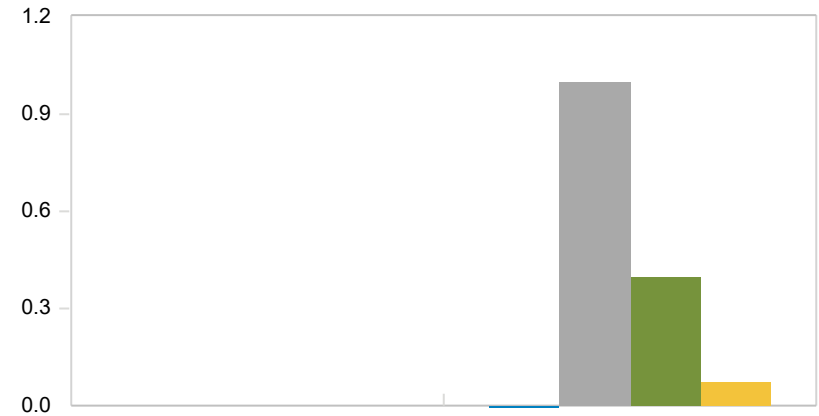
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	-1.13 (90)	-2.35 (56)	6.97 (20)	-0.43 (80)	19.95 (7)	9.66 (25)
Index	1.82 (76)	-2.99 (70)	5.48 (60)	3.49 (16)	17.01 (31)	6.25 (90)
Median	3.01	-1.69	6.18	0.78	14.75	8.76

Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



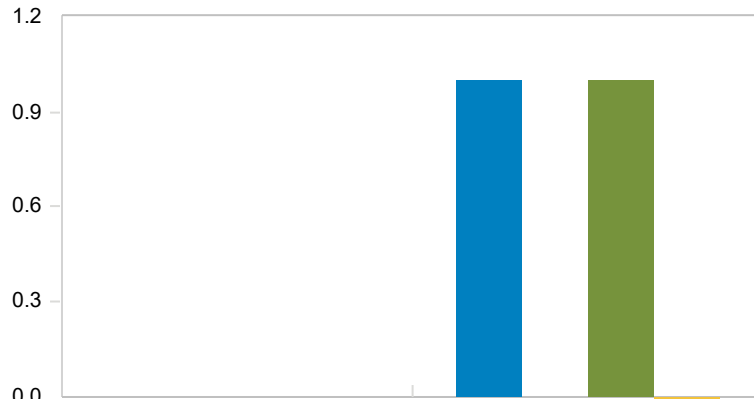
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	0.42
Treynor Ratio	N/A	0.09

Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



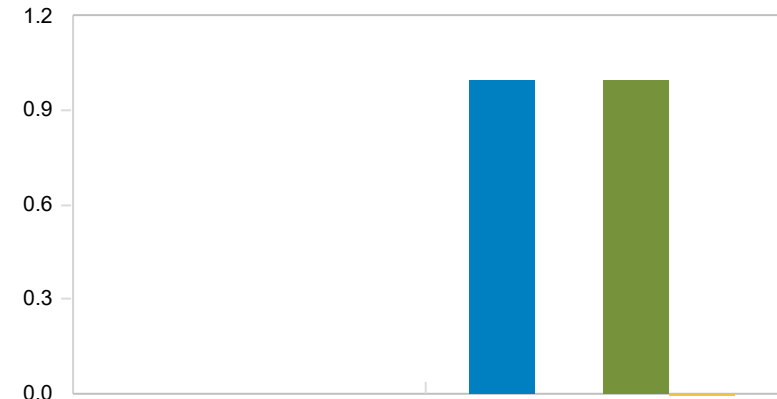
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	0.40
Treynor Ratio	N/A	0.07

Index Relative Historical Statistics 3 Years Ending March 31, 2022



Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Index Relative Historical Statistics 5 Years Ending March 31, 2022



Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Benchmark: MSCI AC World ex USA (Net)



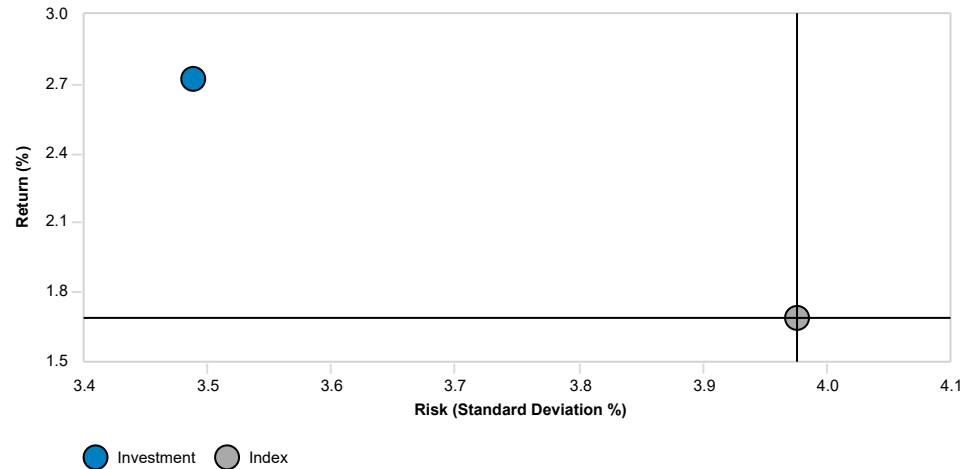
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.73	3.49	0.56	96.01	9	71.93	3
Index	1.69	3.98	0.24	100.00	10	100.00	2

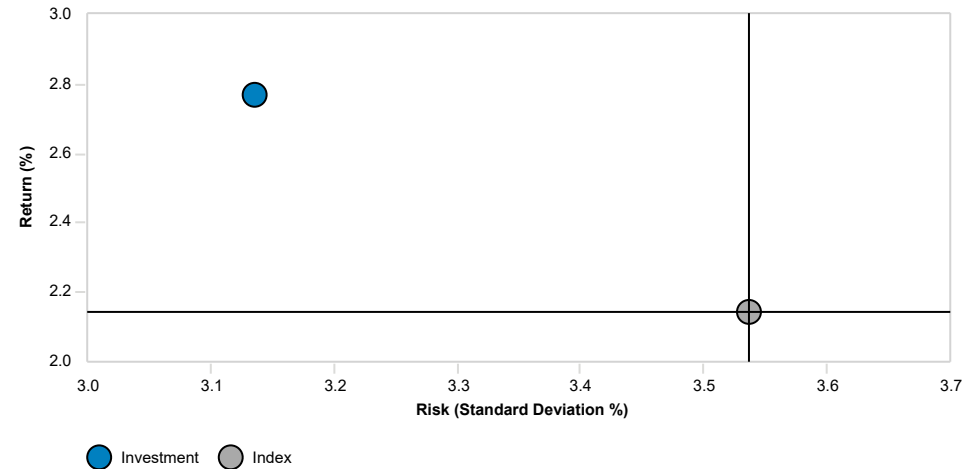
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.77	3.14	0.54	93.91	15	74.16	5
Index	2.14	3.54	0.31	100.00	16	100.00	4

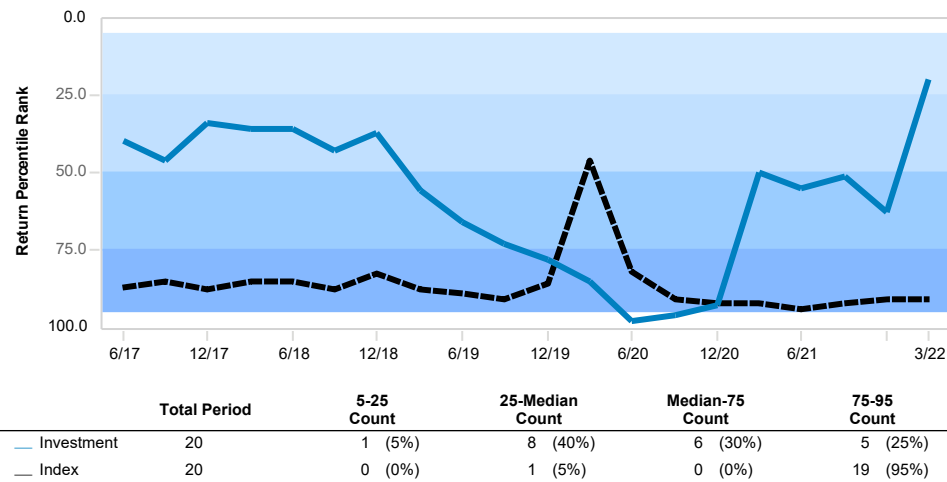
### Risk and Return 3 Years



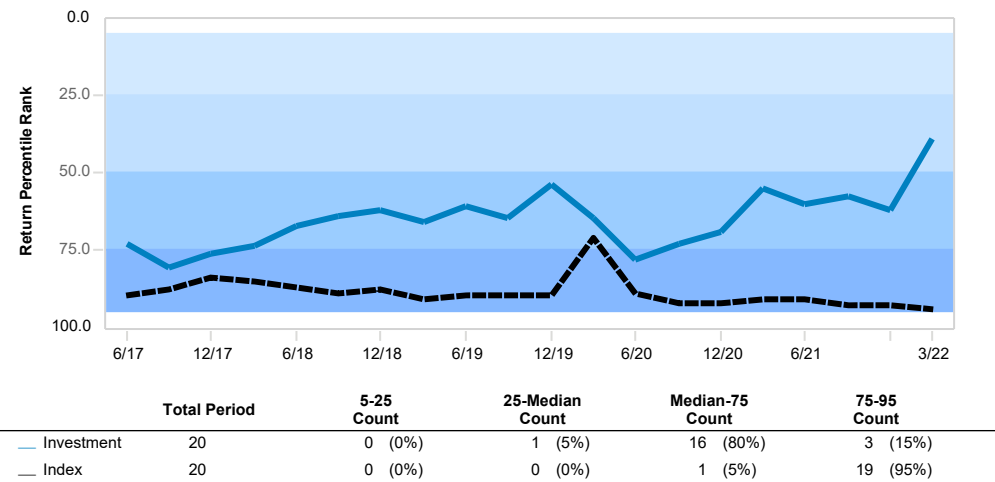
### Risk and Return 5 Years



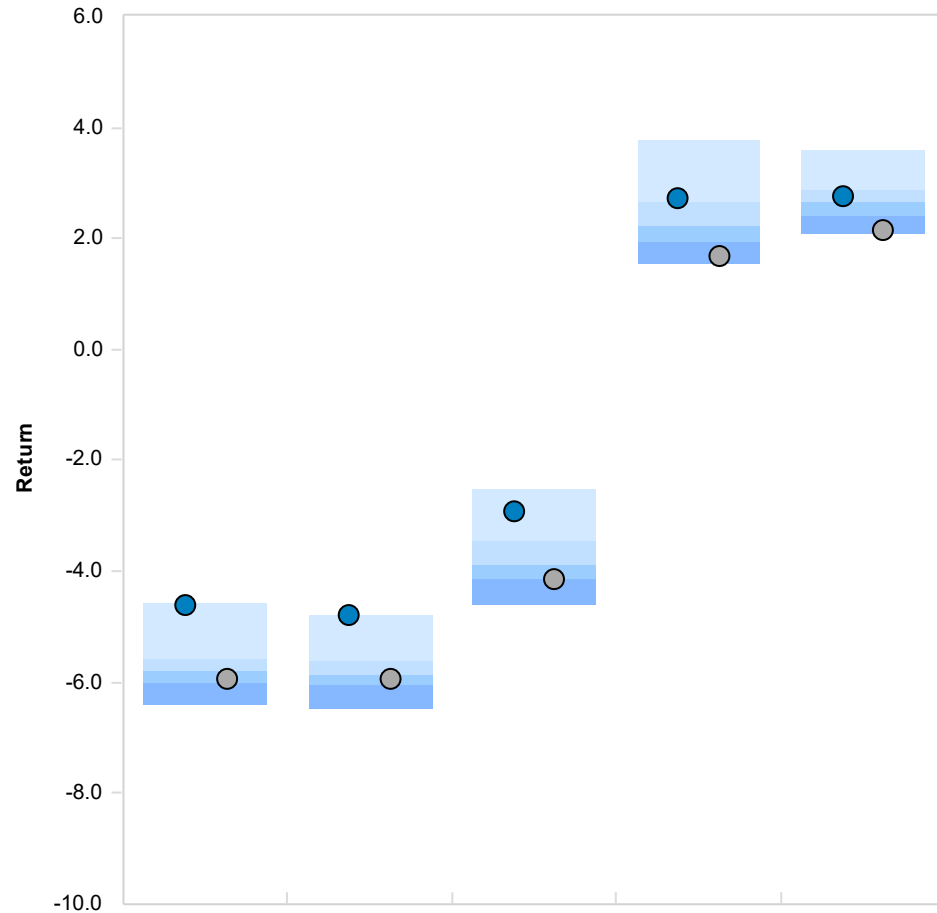
### 3 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (SA+CF)



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

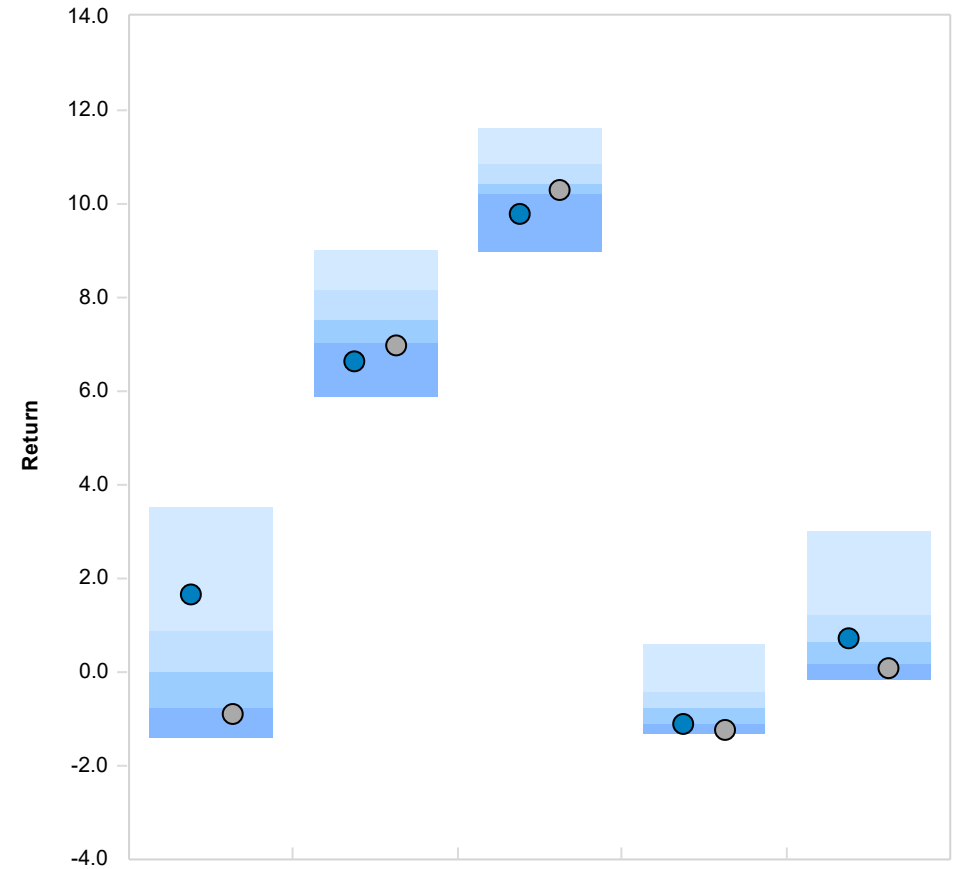


**Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (SA+CF)**



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	-4.62 (6)	-4.78 (6)	-2.91 (9)	2.73 (20)	2.77 (39)
Index	-5.93 (69)	-5.92 (62)	-4.15 (80)	1.69 (91)	2.14 (94)
Median	-5.81	-5.87	-3.88	2.24	2.66

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

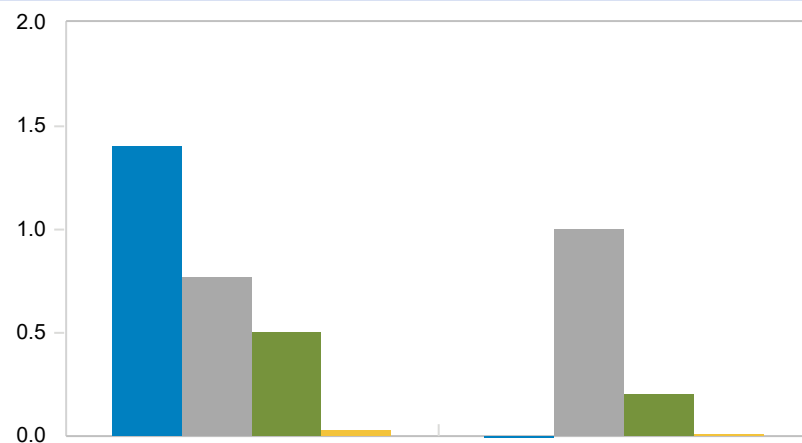


	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	1.67 (14)	6.64 (85)	9.77 (89)	-1.11 (77)	0.71 (44)
Index	-0.90 (84)	6.98 (77)	10.30 (69)	-1.22 (88)	0.07 (84)
Median	-0.02	7.52	10.42	-0.75	0.63

**Comparative Performance**

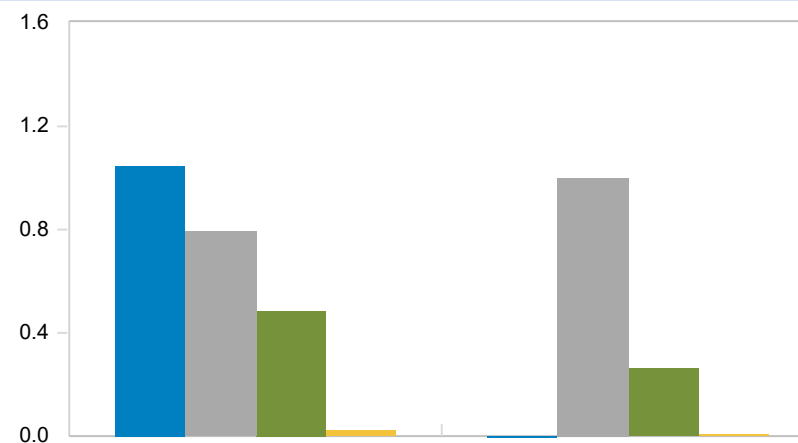
	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021	1 Qtr Ending Mar-2021	1 Qtr Ending Dec-2020	1 Qtr Ending Sep-2020
Investment	-0.17 (80)	0.20 (22)	1.77 (90)	-1.68 (7)	1.41 (31)	1.31 (30)
Index	0.01 (34)	0.05 (68)	1.83 (86)	-3.38 (68)	0.67 (84)	0.62 (85)
Median	-0.04	0.10	2.00	-3.17	1.10	1.08

Risk / Reward Historical Statistics 3 Years Ending March 31, 2022



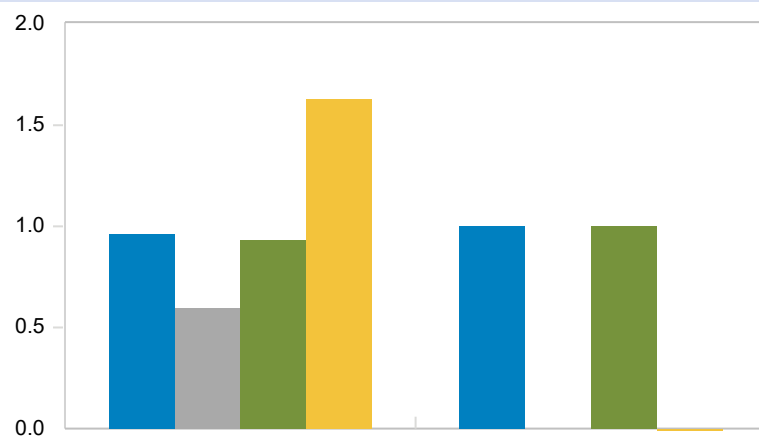
	Highland Fixed Income	Fixed Income Policy
Alpha	1.40	0.00
Beta	0.77	1.00
Sharpe Ratio	0.50	0.20
Treynor Ratio	0.03	0.01

Risk / Reward Historical Statistics 5 Years Ending March 31, 2022



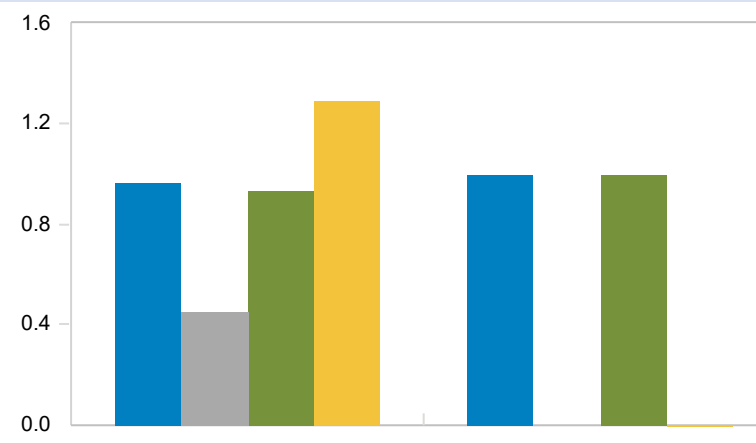
	Highland Fixed Income	Fixed Income Policy
Alpha	1.05	0.00
Beta	0.79	1.00
Sharpe Ratio	0.49	0.26
Treynor Ratio	0.02	0.01

Index Relative Historical Statistics 3 Years Ending March 31, 2022



	Highland Fixed Income	Fixed Income Policy
Actual Correlation	0.97	1.00
Information Ratio	0.60	N/A
R-Squared	0.93	1.00
Tracking Error	1.62	0.00

Index Relative Historical Statistics 5 Years Ending March 31, 2022



	Highland Fixed Income	Fixed Income Policy
Actual Correlation	0.97	1.00
Information Ratio	0.45	N/A
R-Squared	0.93	1.00
Tracking Error	1.29	0.00

Benchmark: Fixed Income Policy



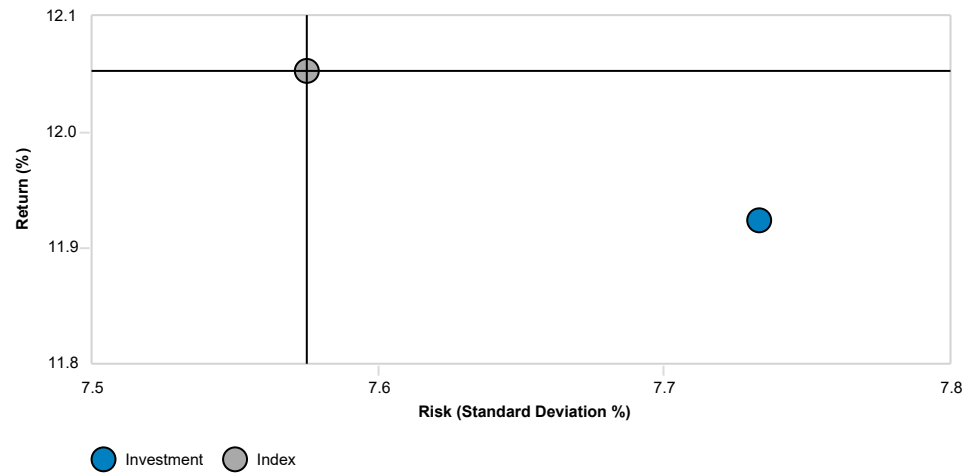
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.92	7.73	1.39	99.01	10	96.65	2
Index	12.05	7.57	1.43	100.00	11	100.00	1

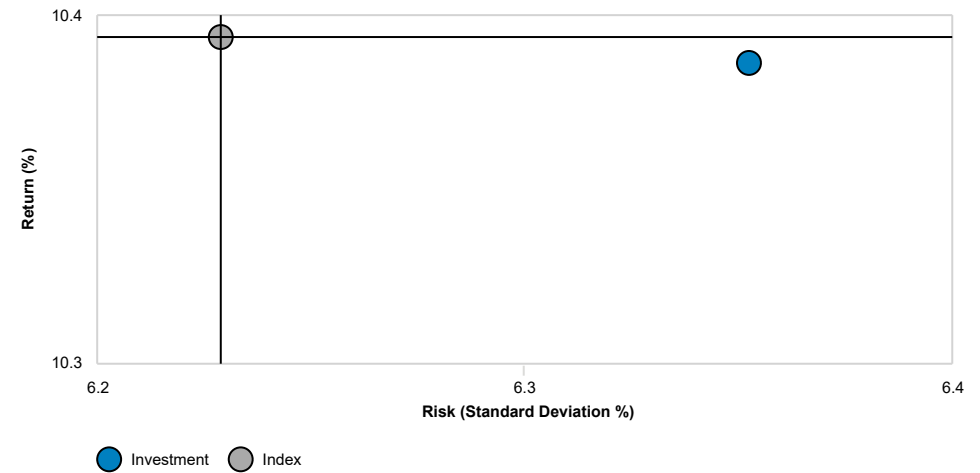
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.39	6.35	1.41	99.92	18	96.65	2
Index	10.39	6.23	1.43	100.00	19	100.00	1

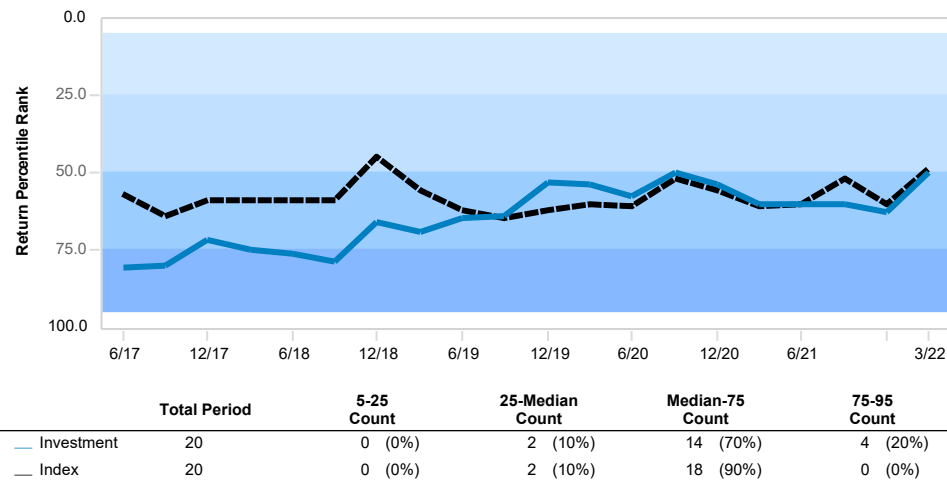
### Risk and Return 3 Years



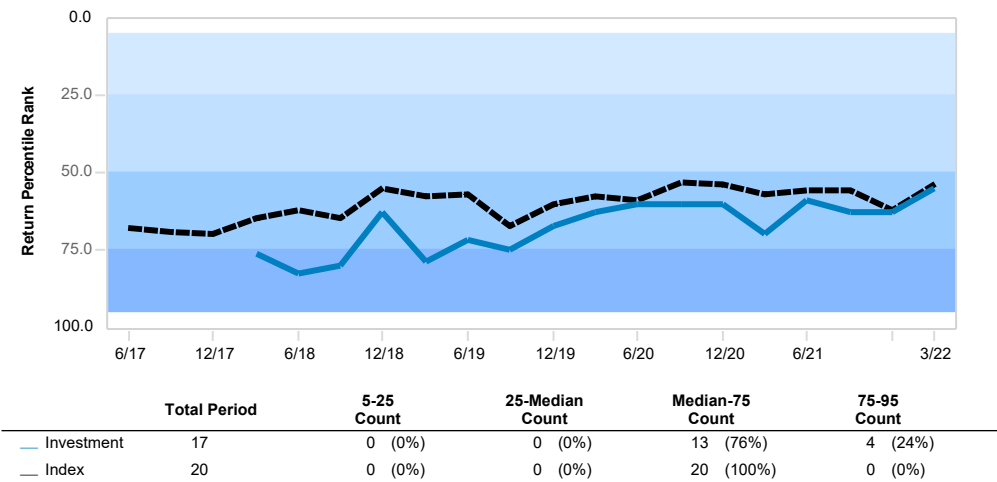
### Risk and Return 5 Years



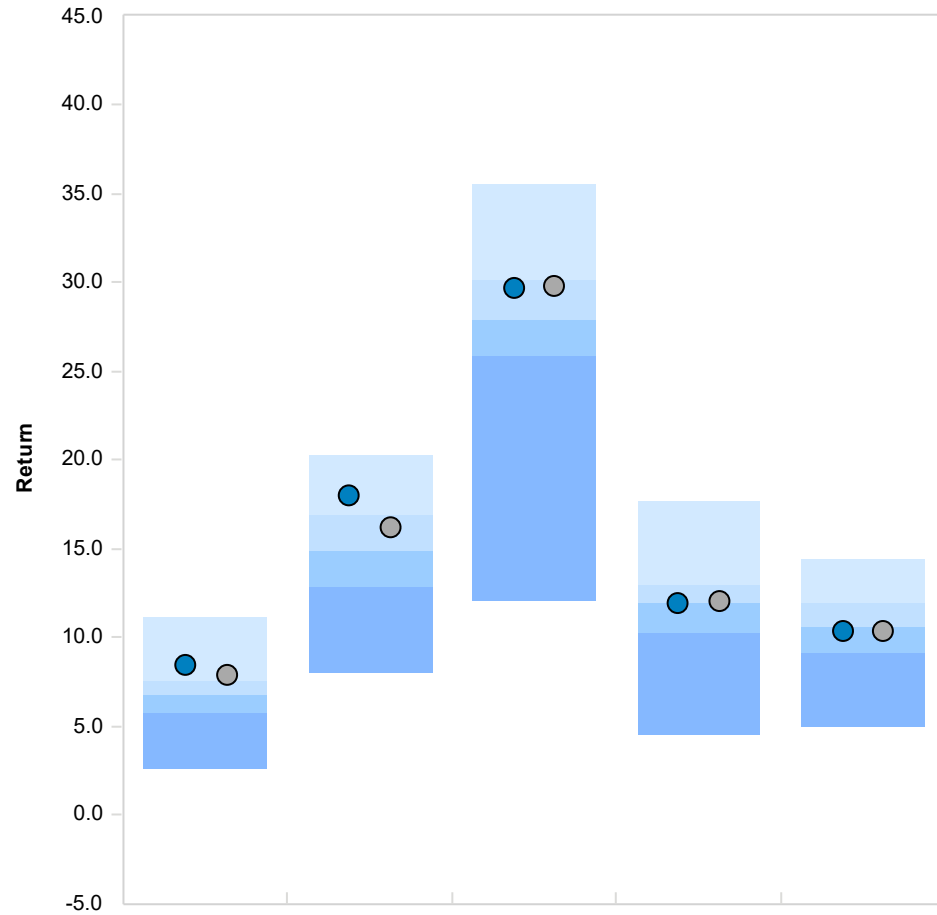
### 3 Year Rolling Percentile Rank IM U.S. Private Real Estate (SA+CF)



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

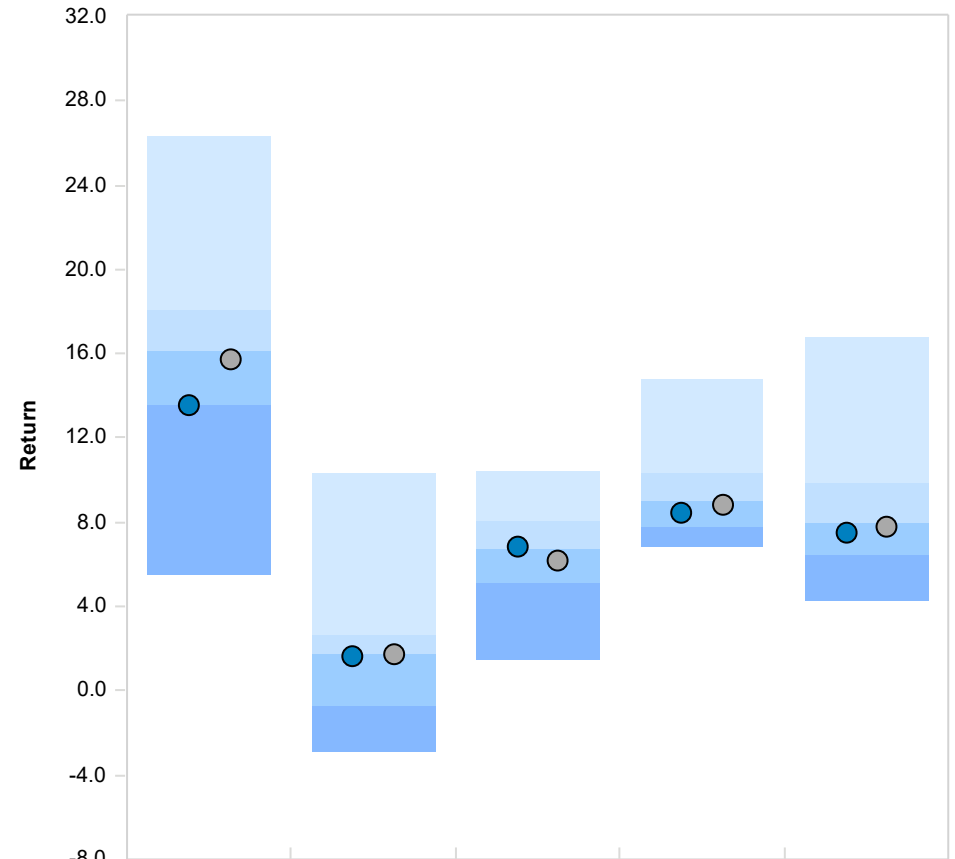


**Peer Group Analysis - IM U.S. Private Real Estate (SA+CF)**



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	8.46 (9)	18.02 (17)	29.68 (34)	11.92 (50)	10.39 (55)
Index	7.97 (15)	16.28 (29)	29.84 (32)	12.05 (49)	10.39 (54)
Median	6.75	14.86	27.92	11.92	10.65

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



	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019	4 Quarters Ending Sep-2018	4 Quarters Ending Sep-2017
Investment	13.51 (76)	1.62 (58)	6.81 (49)	8.50 (64)	7.52 (60)
Index	15.75 (53)	1.74 (51)	6.17 (67)	8.82 (58)	7.81 (54)
Median	16.11	1.74	6.80	8.98	7.96

**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

**North Palm Beach Fire & Police Pension Fund**  
**Fee Analysis**  
As of March 31, 2022

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Highland LCV	0.50	4,363,666	21,818	0.50 % of Assets
Highland LCG	0.50	4,497,066	22,485	0.50 % of Assets
Highland International	0.50	1,539,814	7,699	0.50 % of Assets
Vanguard Value Adm (VVIAX)	0.05	4,445,069	2,223	0.05 % of Assets
Vanguard Growth Adm (VIGAX)	0.05	4,581,012	2,291	0.05 % of Assets
Vanguard Extended Market Index (VEXAX)	0.06	1,519,234	912	0.06 % of Assets
American Funds Euro Pacific Growth (RERGX)	0.49	1,571,360	7,700	0.49 % of Assets
Highland Fixed Income	0.25	8,460,795	21,152	0.25 % of Assets
ARA Core Property Fund	1.10	3,582,722	39,410	1.10 % of Assets
R&D Cash		21,676	-	
<b>Total Fund Composite</b>	<b>0.36</b>	<b>34,582,413</b>	<b>125,689</b>	





<b>Total Policy Historical Hybrid Composition</b>	
<b>Allocation Mandate</b>	<b>Weight (%)</b>
<b>Jan-1978</b>	
S&P 500 Index	50.00
Blmbg. U.S. Gov't/Credit	40.00
FTSE 3 Month T-Bill	10.00
<b>Jul-2001</b>	
S&P 500 Index	60.00
Blmbg. U.S. Gov't/Credit	40.00
<b>Jan-2008</b>	
S&P 500 Index	50.00
Blmbg. U.S. Aggregate Index	40.00
BONY ADR Index	10.00
<b>Oct-2015</b>	
S&P 500 Index	40.00
Blmbg. U.S. Aggregate Index	30.00
BONY ADR Index	10.00
NCREIF Fund Index-Open End Diversified Core (EW)	10.00
Russell 1000 Growth Index	10.00
<b>Apr-2020</b>	
Russell 1000 Value Index	25.00
MSCI AC World ex USA (Net)	5.00
BONY ADR Index	5.00
NCREIF Fund Index-Open End Diversified Core (EW)	10.00
Russell 1000 Growth Index	25.00
Blmbg. U.S. Aggregate Index	30.00

<b>Total Equity Historical Hybrid Composition</b>	
<b>Allocation Mandate</b>	<b>Weight (%)</b>
<b>Jan-1926</b>	
S&P 500 Index	100.00
<b>Jan-2008</b>	
S&P 500 Index	83.33
BONY ADR Index	16.67
<b>Dec-2015</b>	
S&P 500 Index	66.67
BONY ADR Index	16.67
Russell 1000 Growth Index	16.66
<b>Apr-2020</b>	
BONY ADR Index	8.33
Russell 1000 Growth Index	41.67
Russell 1000 Value Index	41.67
MSCI AC World ex USA (Net)	8.33

<b>Total Fixed Income Historical Hybrid Composition</b>	
<b>Allocation Mandate</b>	<b>Weight (%)</b>
<b>Oct-1995</b>	
Blmbg. U.S. Gov't/Credit	100.00
<b>Jan-2008</b>	
Blmbg. U.S. Aggregate Index	100.00

## Annual Asset Class Performance

## Market Indexes

As of March 31, 2022

## Annual Asset Class Performance

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD
Best	Bimbg. U.S. Aggregate Index 5.2 %	MSCI Emerging Markets (Net) Index 78.5 %	Russell 2000 Growth Index 29.1 %	NCREIF Fund Index-ODCE (EW) (Net) 15.0 %	MSCI Emerging Markets (Net) Index 18.2 %	Russell 2000 Growth Index 43.3 %	S&P 500 Index 13.7 %	NCREIF Fund Index-ODCE (EW) (Net) 14.2 %	Russell 2000 Value Index 31.7 %	MSCI Emerging Markets (Net) Index 37.3 %	NCREIF Fund Index-ODCE (EW) (Net) 7.3 %	Russell 1000 Growth Index 36.4 %	Russell 1000 Growth Index 38.5 %	S&P 500 Index 28.7 %	NCREIF Fund Index-ODCE (EW) (Net) 7.8 %
	Bloomberg Global Aggregate Ex USD 4.4 %	Bimbg. U.S. Corp High Yield 58.2 %	Russell 2000 Index 26.9 %	Bimbg. U.S. Aggregate Index 7.8 %	Russell 2000 Value Index 18.1 %	Russell 2000 Index 38.8 %	Russell 1000 Value Index 13.5 %	Russell 1000 Growth Index 5.7 %	Russell 2000 Index 21.3 %	Russell 1000 Growth Index 30.2 %	Bimbg. U.S. Aggregate Index 0.0 %	S&P 500 Index 31.5 %	Russell 2000 Growth Index 34.6 %	Russell 2000 Value Index 28.3 %	Russell 1000 Value Index -0.7 %
	NCREIF Fund Index-ODCE (EW) (Net) -11.1 %	Russell 1000 Growth Index 37.2 %	Russell 2000 Value Index 24.5 %	Bimbg. U.S. Corp High Yield 5.0 %	Russell 1000 Value Index 17.5 %	Russell 2000 Value Index 34.5 %	Russell 1000 Growth Index 13.1 %	S&P 500 Index 1.4 %	Russell 1000 Value Index 17.3 %	MSCI EAFE (Net) Index 25.0 %	Russell 1000 Growth Index -1.5 %	Russell 2000 Growth Index 28.5 %	Russell 2000 Index 20.0 %	Russell 1000 Growth Index 27.6 %	Russell 2000 Value Index -2.4 %
	Bimbg. U.S. Corp High Yield -26.2 %	Russell 2000 Growth Index 34.5 %	MSCI Emerging Markets (Net) Index 18.9 %	Bloomberg Global Aggregate Ex USD 4.4 %	MSCI EAFE (Net) Index 17.3 %	Russell 1000 Growth Index 33.5 %	NCREIF Fund Index-ODCE (EW) (Net) 11.4 %	Bimbg. U.S. Aggregate Index 0.5 %	Bimbg. U.S. Corp High Yield 17.1 %	Russell 2000 Growth Index 22.2 %	Bimbg. U.S. Corp High Yield -2.1 %	Russell 1000 Value Index 26.5 %	S&P 500 Index 18.4 %	Russell 1000 Value Index 25.2 %	S&P 500 Index -4.6 %
	Russell 2000 Value Index -28.9 %	MSCI EAFE (Net) Index 31.8 %	Russell 1000 Growth Index 16.7 %	Russell 1000 Growth Index 2.6 %	Russell 2000 Index 16.3 %	Russell 1000 Value Index 32.5 %	Bimbg. U.S. Aggregate Index 6.0 %	MSCI EAFE (Net) Index -0.8 %	S&P 500 Index 12.0 %	S&P 500 Index 21.8 %	Bloomberg Global Aggregate Ex USD -2.1 %	Russell 2000 Index 25.5 %	MSCI Emerging Markets (Net) Index 18.3 %	NCREIF Fund Index-ODCE (EW) (Net) 21.9 %	Bimbg. U.S. Corp High Yield -4.8 %
	Russell 2000 Index -33.8 %	Russell 2000 Index 27.2 %	Russell 1000 Value Index 15.5 %	S&P 500 Index 2.1 %	S&P 500 Index 16.0 %	S&P 500 Index 32.4 %	Russell 2000 Growth Index 5.6 %	Russell 2000 Growth Index -1.4 %	Russell 2000 Growth Index 11.3 %	Russell 2000 Index 14.6 %	S&P 500 Index -4.4 %	Russell 2000 Value Index 22.4 %	Bloomberg Global Aggregate Ex USD 10.1 %	Russell 2000 Index 14.8 %	MSCI EAFE (Net) Index -5.9 %
	Russell 1000 Value Index -36.8 %	S&P 500 Index 26.5 %	Bimbg. U.S. Corp High Yield 15.1 %	Russell 1000 Value Index 0.4 %	Bimbg. U.S. Corp High Yield 15.8 %	MSCI EAFE (Net) Index 22.8 %	Russell 2000 Index 4.9 %	Russell 1000 Value Index -3.8 %	MSCI Emerging Markets (Net) Index 11.2 %	Russell 1000 Value Index 13.7 %	Russell 1000 Value Index -8.3 %	MSCI EAFE (Net) Index 22.0 %	MSCI EAFE (Net) Index 7.8 %	MSCI EAFE (Net) Index 11.3 %	Bimbg. U.S. Aggregate Index -5.9 %
	S&P 500 Index -37.0 %	Russell 2000 Value Index 20.6 %	NCREIF Fund Index-ODCE (EW) (Net) 15.1 %	Russell 2000 Growth Index -2.9 %	Russell 1000 Growth Index 15.3 %	NCREIF Fund Index-ODCE (EW) (Net) 12.4 %	Russell 2000 Value Index 4.2 %	Russell 2000 Index -4.4 %	NCREIF Fund Index-ODCE (EW) (Net) 8.4 %	Bloomberg Global Aggregate Ex USD 10.5 %	Russell 2000 Growth Index -9.3 %	MSCI Emerging Markets (Net) Index 18.4 %	Bimbg. U.S. Aggregate Index 7.5 %	Bimbg. U.S. Corp High Yield 5.3 %	Bloomberg Global Aggregate Ex USD -6.1 %
	Russell 1000 Growth Index -38.4 %	Russell 1000 Value Index 19.7 %	S&P 500 Index 15.1 %	Russell 2000 Index -4.2 %	Russell 2000 Growth Index 14.6 %	Bimbg. U.S. Corp High Yield 7.4 %	Bimbg. U.S. Corp High Yield 2.5 %	Bimbg. U.S. Corp High Yield -4.5 %	Russell 1000 Growth Index 7.1 %	Russell 2000 Value Index 7.8 %	Russell 2000 Index -11.0 %	Bimbg. U.S. Corp High Yield 14.3 %	Bimbg. U.S. Corp High Yield 7.1 %	Russell 2000 Growth Index 2.8 %	MSCI Emerging Markets (Net) Index -7.0 %
	Russell 2000 Growth Index -38.5 %	Bloomberg Global Aggregate Ex USD 7.5 %	MSCI EAFE (Net) Index 7.8 %	Russell 2000 Value Index -5.5 %	NCREIF Fund Index-ODCE (EW) (Net) 9.9 %	Bimbg. U.S. Aggregate Index -2.0 %	MSCI Emerging Markets (Net) Index -2.2 %	Bloomberg Global Aggregate Ex USD -6.0 %	Bimbg. U.S. Aggregate Index 2.6 %	Bimbg. U.S. Corp High Yield 7.5 %	Russell 2000 Value Index -12.9 %	Bimbg. U.S. Aggregate Index 8.7 %	Russell 2000 Value Index 4.6 %	Bimbg. U.S. Aggregate Index -1.5 %	Russell 2000 Index -7.5 %
	MSCI EAFE (Net) Index -43.4 %	Bimbg. U.S. Aggregate Index 5.9 %	Bimbg. U.S. Aggregate Index 6.5 %	MSCI EAFE (Net) Index -12.1 %	Bimbg. U.S. Aggregate Index 4.2 %	MSCI Emerging Markets (Net) Index -2.6 %	Bloomberg Global Aggregate Ex USD -3.1 %	Russell 2000 Value Index -7.5 %	Bloomberg Global Aggregate Ex USD 1.5 %	NCREIF Fund Index-ODCE (EW) (Net) 6.9 %	MSCI EAFE (Net) Index -13.8 %	NCREIF Fund Index-ODCE (EW) (Net) 5.2 %	Russell 1000 Value Index 2.8 %	MSCI Emerging Markets (Net) Index -2.5 %	Russell 1000 Growth Index -9.0 %
Worst	MSCI Emerging Markets (Net) Index -53.3 %	NCREIF Fund Index-ODCE (EW) (Net) -31.3 %	Bloomberg Global Aggregate Ex USD 4.9 %	MSCI Emerging Markets (Net) Index -18.4 %	Bloomberg Global Aggregate Ex USD 4.1 %	Bloomberg Global Aggregate Ex USD -3.1 %	MSCI EAFE (Net) Index -4.9 %	MSCI Emerging Markets (Net) Index -14.9 %	MSCI EAFE (Net) Index 1.0 %	Bimbg. U.S. Aggregate Index 3.5 %	MSCI Emerging Markets (Net) Index -14.6 %	Bloomberg Global Aggregate Ex USD 5.1 %	NCREIF Fund Index-ODCE (EW) (Net) 0.8 %	Bloomberg Global Aggregate Ex USD -7.1 %	Russell 2000 Growth Index -12.6 %

Source: Investment Metrics

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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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