
Miami Springs Police & FireTM Retirement System

Investment Performance Review
Period Ending December 31, 2024

MARINER

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4th Quarter 2024 Market Environment

The Economy

- The US Federal Reserve (the Fed) continued to loosen its policy stance during the quarter with two fed funds rate cuts totaling 0.50%, bringing the year-end rate to a range of 4.25%-4.50%. While the Fed conveyed a degree of confidence that the fight against inflation is progressing in its December press release, Fed Chairman Jerome Powell signaled in his post-meeting press conference that the pace and timing of future rate cuts is unclear. The Fed's December "Dot Plot" now projects only two quarter-point rate cuts in 2025, down from four anticipated cuts in September's plot.
- Growth in the US labor market continued during the fourth quarter. US payrolls grew by 256,000 in December, up from the previous month's total of 212,000, and well above the 155,000 projected. If strength in the labor market continues, this data could support a slower pace Fed action in the form of policy rate reductions in 2025.

Equity (Domestic and International)

- US equity results were modestly higher for the quarter. Markets also saw a return to the narrowly focused technology and communication services company exuberance which has dominated domestic performance in recent years. The S&P 500 Index rose 2.4% for the quarter with the small-cap Russell 2000 Index managing just a 0.3% rise. The rotation away from large cap growth stocks during the third quarter seemed to reverse as the Russell 1000 Growth Index once again outpaced the Russell 1000 Value Index by a large margin.
- Large-cap equity benchmarks continue to represent a heavy concentration among a limited number of stocks. As of quarter end, the weight of the top 10 stocks in the S&P 500 Index exceeded 35%.
- Most international stocks faltered during the fourth quarter and US Dollar (USD) denominated results were further exacerbated by a strengthening USD. The USD performance of international stocks fell short of local currency (LCL) returns in most regions for the quarter, albeit to varying degrees.

Fixed Income

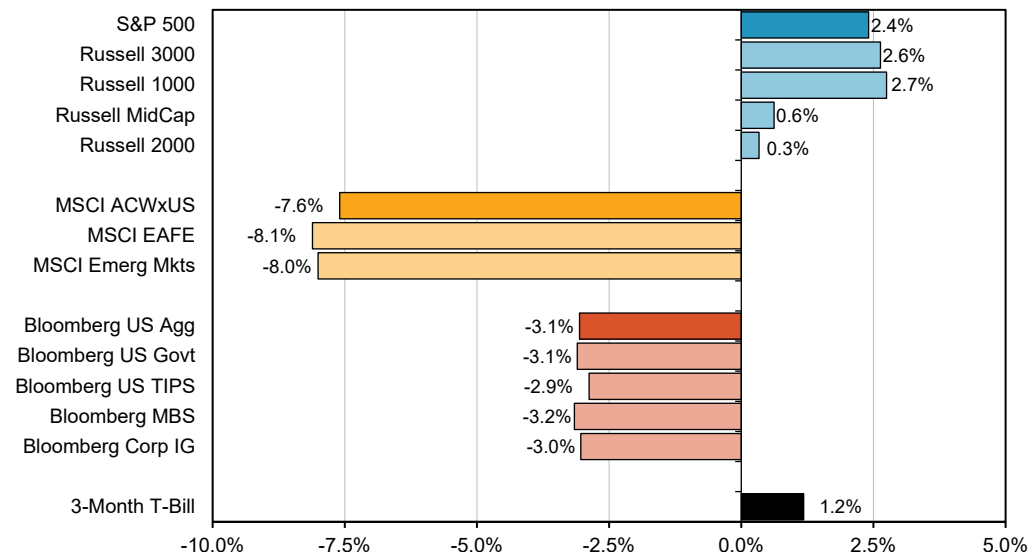
- Fixed-income markets traded lower during the quarter on the back of the Fed's ongoing policy actions. Short term Treasury yields fell while longer term yields rose, leading to a slight steepening in the yield curve. The yield on the bellwether 10-year Treasury advanced by 0.84% during the quarter, closing the year at a yield of 4.58%. The inverse relationship between prices and yields resulted in the Bloomberg US Aggregate Bond Index posting a -3.1% loss for the quarter.
- High-yield bonds outpaced the Bloomberg US Aggregate Bond Index for the quarter, largely due to higher coupons, a shorter duration profile, and a small narrowing of the option-adjusted spread (OAS) for the Bloomberg US High-Yield Index.
- Global bonds fell during the quarter, with the Bloomberg Global Aggregate ex-US returning -6.8% in USD terms. Like international equity results, global bond performance was dragged down by a strengthening USD during the quarter.

Market Themes

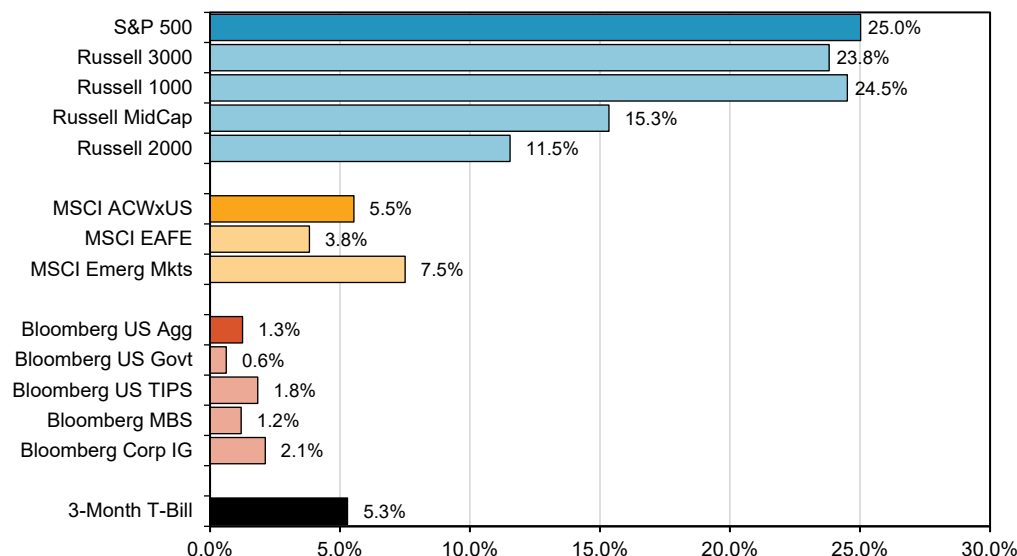
- Strength in the US Dollar during the quarter led to relative weakness in international markets. Many of the major currencies depreciated relative to the US Dollar as the year came to a close. Latin America saw the most significant decline during the period while the Pacific region was the only region to post positive LCL returns.
- The AI trade that has taken shape for much of the past two years continued in 2024 with the communication services and information technology sectors each posting gains of more than 35% for the year. This phenomenon contributed to narrow market leadership particularly within the large-cap segment of the market. The concentration in the large-cap indexes helped the S&P 500 post its second straight year of greater than a 20% return, further widening the performance gap between large and smaller capitalization benchmarks.
- Ongoing military conflicts in Ukraine and the Middle East, coupled with global economic uncertainty, continue to act as headwinds for international market results, further complicated by an advancing USD.
- The results of the most recent US presidential election appeared to please domestic equity markets in anticipation of the new administration supporting loosened regulations and pro-growth policies. As we move into the new year, equity markets will need to digest the anticipated effects of proposed tax legislation changes, a new view on foreign policy, and potential trade tariffs by the new administration.

- Domestic equity markets continued to climb higher during the quarter. Large-cap stocks returned to the forefront, outpacing small-cap stocks. The S&P 500 rose 2.4% during the quarter versus a muted gain of 0.3% for the Russell 2000 Index. The broad capitalization Russell 3000 Index, which benefited from strength in mid- and large-cap names, returned 2.6% for the quarter.
- International developed market equities reversed course and soured during the fourth quarter with the USD performance of the broad benchmarks each trading lower than (LCL) currency performance. The broad MSCI ACWI ex US Index delivered a disappointing -7.6% for the quarter but was down less than both the MSCI EAFE and MSCI EM indexes. The broad index was aided by Canada, which is not included in the EAFE or EM indexes. International developed market (DM) equities narrowly fell behind emerging market (EM) equities, returning -8.1% and -8.0%, respectively for the quarter. Negative performance for the international indexes was broad-based and not localized to any specific region.
- Broad market fixed-income benchmarks displayed a poor finish to the year as many of the core indexes succumbed to a steepening of the yield curve and the prospect of fewer rate cuts in 2025. The Bloomberg US Aggregate Index returned -3.1% for the quarter. The TIPS market, which is not part of the Aggregate Index, was also negative, posting a return of -2.9% for the quarter. While the performance differentials were small, the Mortgage-Backed Securities Index lagged other domestic bond market segments with a benchmark return of -3.2% for the quarter.
- Domestic equity indexes finished the year by adding to their already strong returns over the trailing one-year period. The S&P 500 Index gained 25.0% for the year and the Russell 1000 Index returned 24.5%. The weakest performing capitalization range of domestic equities for the year was the small-cap Russell 2000 Index, which still managed a double-digit climb over the last 12 months, returning a solid 11.5%.
- Domestic bond indexes' results were mixed throughout the year but still managed to deliver positive annual results. While the performance spread was narrow, investment-grade corporate bonds led bond index results for the year, returning a muted 2.1%. The government bond index lagged for the year, but was also positive, posting a return of 0.6%.
- International equity markets also delivered positive results for the trailing one-year period. The MSCI EM Index was the best international performer, returning 7.5%, while the MSCI EAFE and MSCI ACWI ex US indexes posted returns of 3.8% and 5.5%, respectively.

Quarter Performance



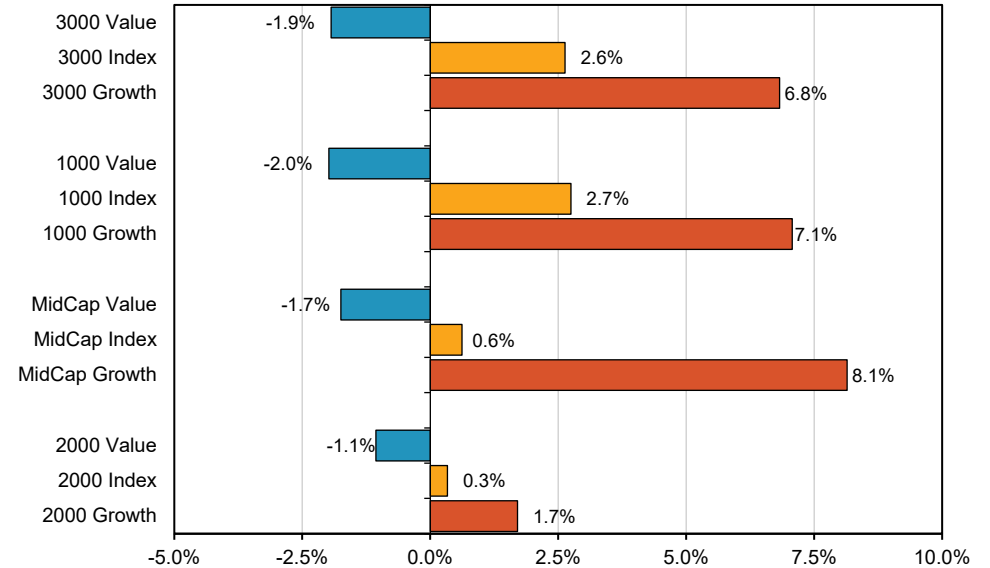
1-Year Performance



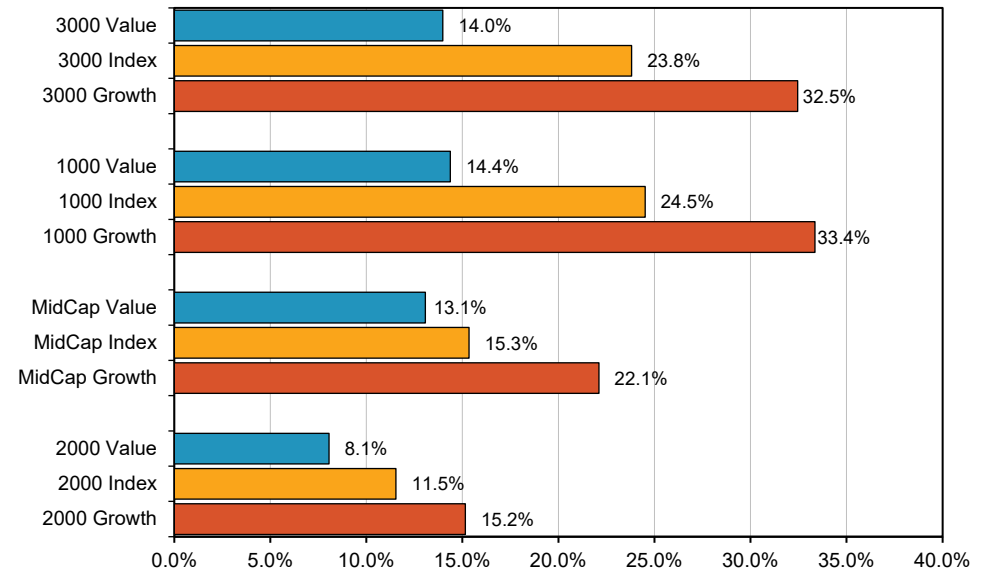
Source: Investment Metrics

- Domestic equity benchmarks exhibited a return to their long-run trend of growth style companies vastly outperforming value during the fourth quarter. This theme was relatively consistent across the capitalization spectrum with growth benchmarks dominating performance results while value benchmarks each posted negative returns for the quarter.
- The broadest disparity between growth and value was visible in the mid-cap index. The Russell Mid Cap Value Index return of -1.7% trailed the Russell Mid Cap Growth Index return of 8.1%, a performance span of nearly 10%. The Russell Mid Cap Growth Index was also the best performing segment of the equity market during the quarter. Conversely, the worst performing segment of the market was large cap value which returned a disappointing -2.0% during the fourth quarter.
- This quarter's ascension of the growth indexes widened their performance gaps relative to the value indexes for the trailing year. The Russell 1000 Growth Index amassed a staggering 33.4% for the year, leading the way among style and market capitalization index performance. Much of the year's strong performance has been attributable to the emergence of the "Magnificent 7" stocks (Alphabet, Amazon, Apple, Meta, Microsoft, Nvidia, and Tesla) which have dominated the large-cap core and growth indexes and the headlines over the past several years. The 10 largest stocks in the Russell 1000 Index have contributed more than 50% of the index's total performance over the trailing 12-month period. The weakest performing index for the year was the Russell 2000 Value Index, which still climbed 8.1%.
- The strength of growth sectors is also evident in the trailing one-year period with the chart on the right showing growth benchmarks at all capitalization ranges outpacing their value counterparts. The performance gap between the Russell 1000 Growth Index and the Russell 1000 Value Index was nearly 20% and the gaps for mid- and small-cap indexes were narrower, but still wide.

Quarter Performance - Russell Style Series



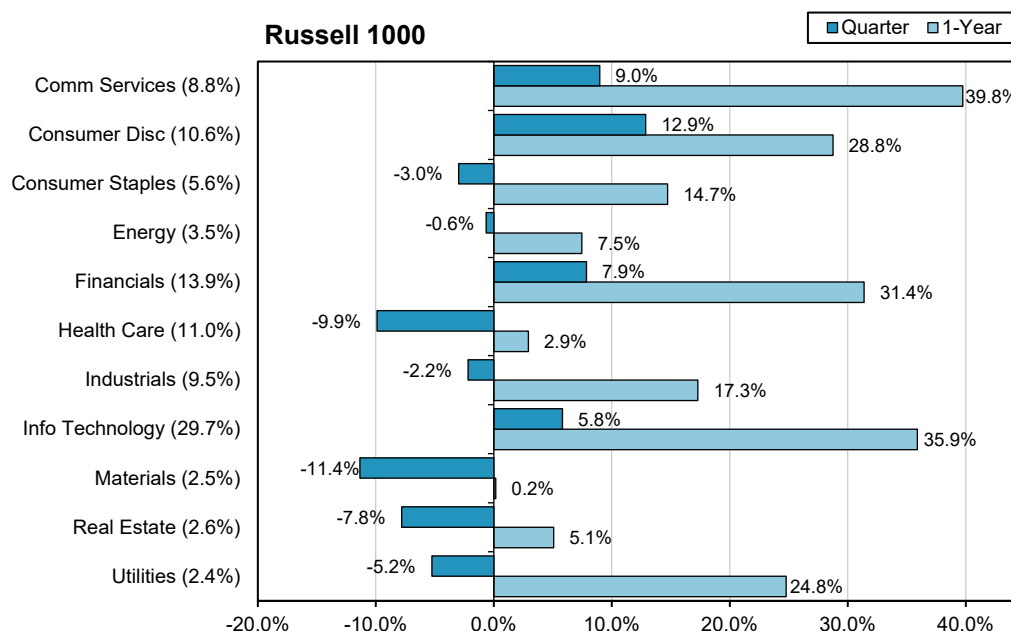
1-Year Performance - Russell Style Series



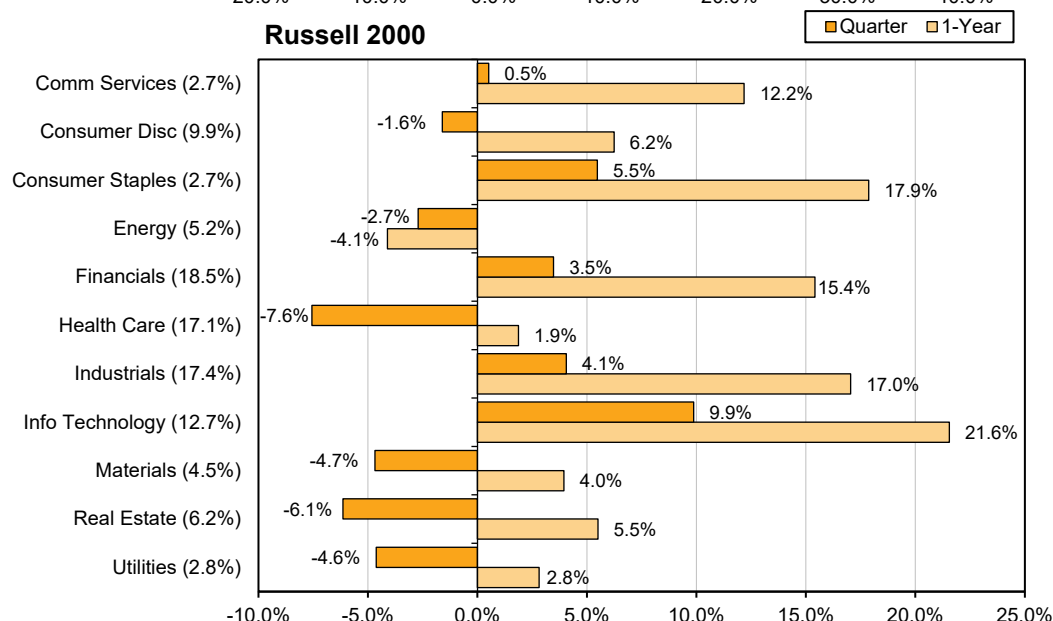
Source: Investment Metrics

- Economic sector performance delivered mixed results in the fourth quarter as just four of the 11 economic sectors moved higher in the large-cap index. While performance during the year could be characterized by broader participation in the domestic equity markets, this was not the case during the fourth quarter as only the communication services, consumer discretionary, financials, and information technology sectors managed to post positive returns. Within the large cap index, consumer discretionary stocks led the way, collectively returning 12.9% for the quarter while the materials sector struggled, falling -11.4% during the period.
- Full year results during 2024 showcased strong performance across the economic sector classifications. Communication services narrowly outpaced information technology for the year, posting returns of 39.8% and 35.9%, respectively, with financials coming in third with a return of 31.4%. While all sectors posted positive returns for the year, the broad index's strong performance during 2024 was largely driven by three of the five most heavily weighted index sectors.
- Similar to the large cap benchmark, just five of the 11 small-cap economic sectors gained value during the quarter. Communication services, consumer staples, financials, industrials, and information technology led the way with information technology as the best performing sector during the quarter. Health care faltered as the worst-performing sector with a return of -7.6% during the quarter, followed closely by real estate, which finished the quarter with a return of -6.1%.
- Despite their struggles during the most recent quarter, small-cap stocks delivered strong results for the year. Ten small-cap sectors advanced higher during the trailing one-year period, making energy the lone negative performer over the period. The sector's -2.7% return during the fourth quarter pushed the sector's performance to -4.1% for the trailing year. Information technology (up 21.6%) was the only sector to cross the 20% return threshold, but four others also amassed double digit positive returns for the calendar year.

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 December 31, 2024

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	6.6%	7.6%	30.7%	Information Technology
NVIDIA Corp	5.8%	10.6%	171.2%	Information Technology
Microsoft Corp	5.8%	-1.8%	12.9%	Information Technology
Amazon.com Inc	3.8%	17.7%	44.4%	Consumer Discretionary
Meta Platforms Inc Class A	2.4%	2.4%	66.0%	Communication Services
Tesla Inc	2.1%	54.4%	62.5%	Consumer Discretionary
Alphabet Inc Class A	2.1%	14.3%	36.0%	Communication Services
Broadcom Inc	2.0%	34.7%	110.4%	Information Technology
Alphabet Inc Class C	1.7%	14.0%	35.6%	Communication Services
Berkshire Hathaway Inc Class B	1.5%	-1.5%	27.1%	Financials

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Astera Labs Inc	0.0%	152.8%	N/A	Information Technology
AppLovin Corp Ordinary Shares	0.2%	148.1%	712.6%	Information Technology
Trump Media & Technology Group	0.0%	112.2%	N/A	Communication Services
Palantir Technologies Inc Ordinary	0.3%	103.3%	340.5%	Information Technology
SoFi Technologies Inc Ordinary Shares	0.0%	95.9%	54.8%	Financials
Amer Sports Inc	0.0%	75.3%	N/A	Consumer Discretionary
MicroStrategy Inc	0.1%	71.8%	358.5%	Information Technology
United Airlines Holdings Inc	0.1%	70.2%	135.3%	Industrials
New Fortress Energy Inc	0.0%	66.3%	-59.3%	Utilities
Twilio Inc Class A	0.0%	65.7%	42.5%	Information Technology

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Capri Holdings Ltd	0.0%	-50.4%	-58.1%	Consumer Discretionary
Celanese Corp Class A	0.0%	-48.8%	-54.6%	Materials
Rocket Companies Inc Ordinary	0.0%	-41.3%	-22.2%	Financials
Enphase Energy Inc	0.0%	-39.2%	-48.0%	Information Technology
Moderna Inc	0.0%	-37.8%	-58.2%	Health Care
Acadia Healthcare Co Inc	0.0%	-37.5%	-49.0%	Health Care
Viking Therapeutics Inc	0.0%	-36.4%	116.2%	Health Care
10x Genomics Inc Ordinary	0.0%	-36.4%	-74.3%	Health Care
Monolithic Power Systems Inc	0.1%	-35.9%	-5.6%	Information Technology
The AES Corp	0.0%	-35.1%	-30.3%	Utilities

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
FTAI Aviation Ltd	0.5%	8.6%	214.7%	Industrials
Sprouts Farmers Market Inc	0.5%	15.1%	164.1%	Consumer Staples
Insmed Inc	0.4%	-5.4%	122.8%	Health Care
Vaxcyte Inc Ordinary Shares	0.4%	-28.4%	30.4%	Health Care
Credo Technology Group Holding Ltd	0.4%	118.2%	245.2%	Information Technology
Applied Industrial Technologies Inc	0.3%	7.5%	39.7%	Industrials
Mueller Industries Inc	0.3%	7.4%	70.5%	Industrials
Rocket Lab USA Inc	0.3%	161.8%	360.6%	Industrials
Fluor Corp	0.3%	3.4%	25.9%	Industrials
IonQ Inc Class A	0.3%	377.9%	237.1%	Information Technology

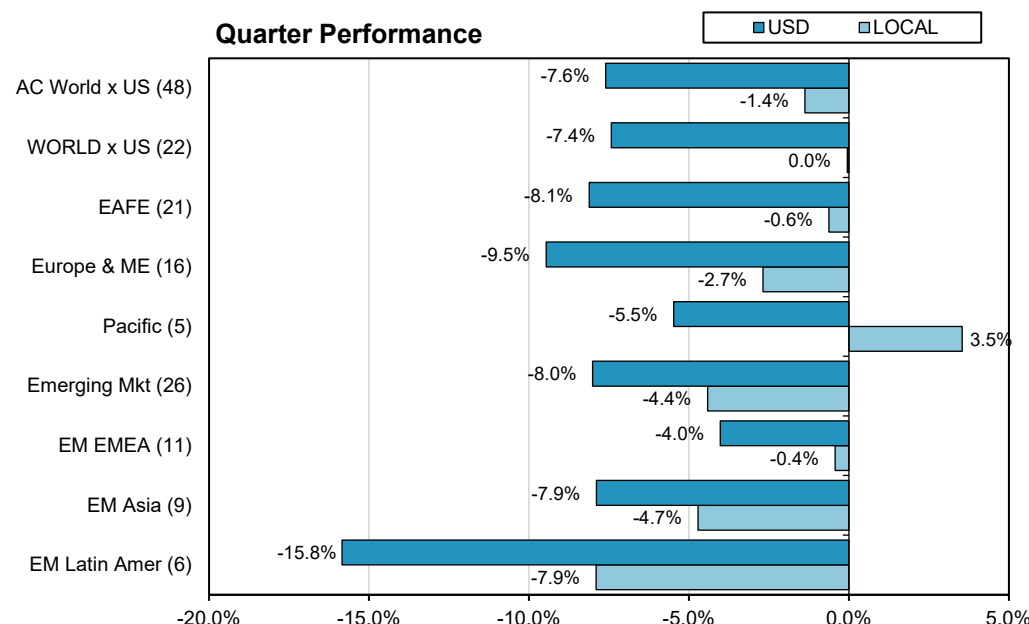
Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Rigetti Computing Inc	0.1%	1848.7%	1449.4%	Information Technology
D-Wave Quantum Inc.	0.0%	754.6%	854.4%	Information Technology
Scholar Rock Holding Corp	0.1%	439.6%	129.9%	Health Care
IonQ Inc Class A	0.3%	377.9%	237.1%	Information Technology
SoundHound AI Inc Ordinary Shares	0.2%	325.8%	835.8%	Information Technology
Kodiak Sciences Inc	0.0%	281.2%	227.3%	Health Care
The RealReal Inc	0.0%	248.1%	443.8%	Consumer Discretionary
SES AI Corp	0.0%	242.3%	19.7%	Industrials
Poseida Therapeutics Inc Ordinary	0.0%	235.7%	185.7%	Health Care
Archer Aviation Inc Class A	0.1%	221.8%	58.8%	Industrials

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Q32 Bio Inc	0.0%	-92.3%	0.0%	Health Care
Cassava Sciences Inc	0.0%	-92.0%	-89.5%	Health Care
Applied Therapeutics Inc	0.0%	-89.9%	-74.4%	Health Care
Perspective Therapeutics Inc	0.0%	-76.1%	-20.6%	Health Care
Keros Therapeutics Inc	0.0%	-72.7%	-60.2%	Health Care
Bioage Labs Inc	0.0%	-72.2%	N/A	Health Care
Inovio Pharmaceuticals Inc	0.0%	-68.3%	-70.1%	Health Care
PACS Group Inc	0.0%	-67.2%	N/A	Health Care
Shattuck Labs Inc Ordinary Shares	0.0%	-65.3%	-83.0%	Health Care
Sunnova Energy International Inc	0.0%	-64.8%	-77.5%	Utilities

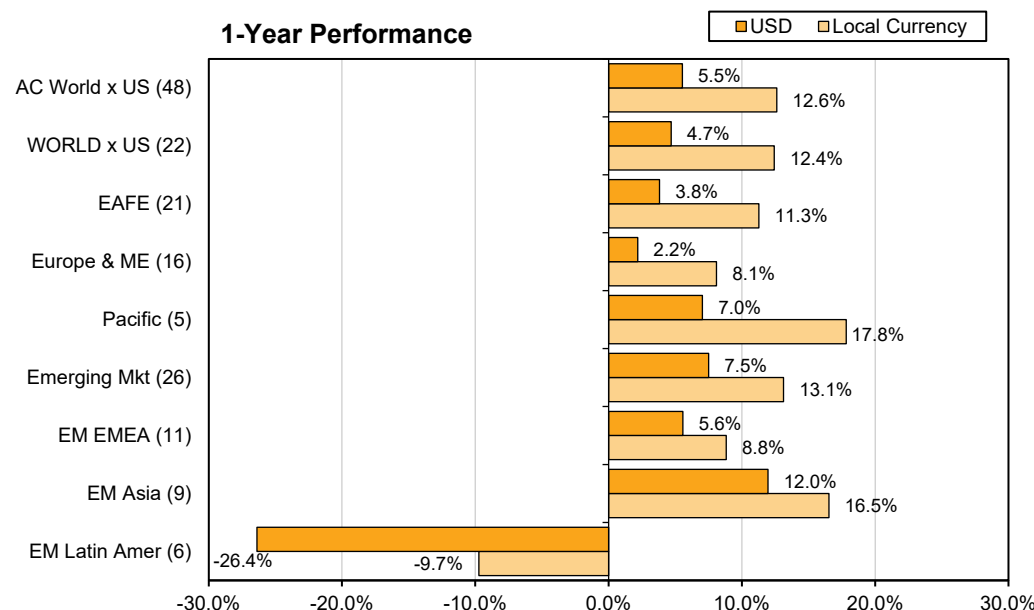
Source: Morningstar Direct

- Results in USD terms among the headline international equity indexes were sharply lower during the quarter. The strengthening USD relative to many major currencies during the quarter was a substantial headwind for the USD performance of non-US regional benchmarks' returns. The developed-market MSCI EAFE Index returned a muted -0.6% in LCL terms but fell -8.1% in USD terms. The MSCI ACWI ex-US Index pulled back -7.6% in USD and -1.4% in LCL terms for the quarter.
- Latin America continued to lag other regions during the quarter in USD terms, posting an outsized loss of -15.8%. Weakening currencies in the region put added pressure on realized performance for US investors. The MSCI Pacific benchmark was the only regional benchmark to deliver positive performance in LCL terms with a return of 3.5%, but USD strength led to a -5.5% decline in USD terms for the quarter. Regional LCL currency performance was disparate for the quarter, with some regional indexes remaining relatively flat over the final three months of the year.
- Full year results by country show Taiwan and Malaysia as the biggest winners during the year in USD terms. These two countries advanced 34.4% and 20.8%, respectively. China was not far behind with the largest economy in the emerging market world climbing 19.4% in USD terms for the year despite declining 7.7% during the fourth quarter. Much of the broad-based MSCI Emerging Market Index's returns are attributable to the health of the dominant Chinese economy, which came under pressure during the year due to troubles in the manufacturing and commercial property sectors.
- Much like domestic markets, trailing one-year results for international developed and emerging markets benchmarks were strongly positive. Higher LCL versus USD returns for most international benchmarks demonstrate the USD's relative strength over the trailing one-year period, which represents a drag on results for US investors.
- Most broad and regional indexes were positive for the trailing 12 months in both USD and LCL terms. The exception to these positive results is the EM Latin America index, where negative LCL performance was exacerbated by the region's currency weakness, which led to a more severe -26.4% return in USD terms. The MSCI Pacific Index led the way with a return of 17.8% in LCL terms for the trailing year, but US investor returns were dampened to just 7.0% in USD terms.

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 December 31, 2024

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	4.8%	-4.7%	11.2%
Consumer Discretionary	11.3%	-4.3%	1.4%
Consumer Staples	8.3%	-12.6%	-7.9%
Energy	3.5%	-8.3%	-10.5%
Financials	21.9%	-2.3%	20.9%
Health Care	12.4%	-14.1%	-1.5%
Industrials	17.8%	-6.4%	9.6%
Information Technology	8.8%	-7.2%	3.8%
Materials	6.1%	-17.8%	-12.9%
Real Estate	2.0%	-13.4%	-3.9%
Utilities	3.2%	-12.8%	-4.1%
Total	100.0%	-8.1%	3.8%

MSCI - ACWixUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.9%	-6.8%	12.4%
Consumer Discretionary	11.2%	-8.1%	4.6%
Consumer Staples	7.0%	-12.4%	-7.8%
Energy	5.0%	-7.9%	-3.5%
Financials	23.7%	-2.8%	17.5%
Health Care	8.8%	-13.9%	-1.4%
Industrials	14.0%	-7.1%	7.5%
Information Technology	13.5%	-1.8%	13.3%
Materials	6.3%	-17.2%	-12.6%
Real Estate	1.8%	-11.5%	-1.7%
Utilities	3.0%	-12.8%	-2.0%
Total	100.0%	-7.6%	5.5%

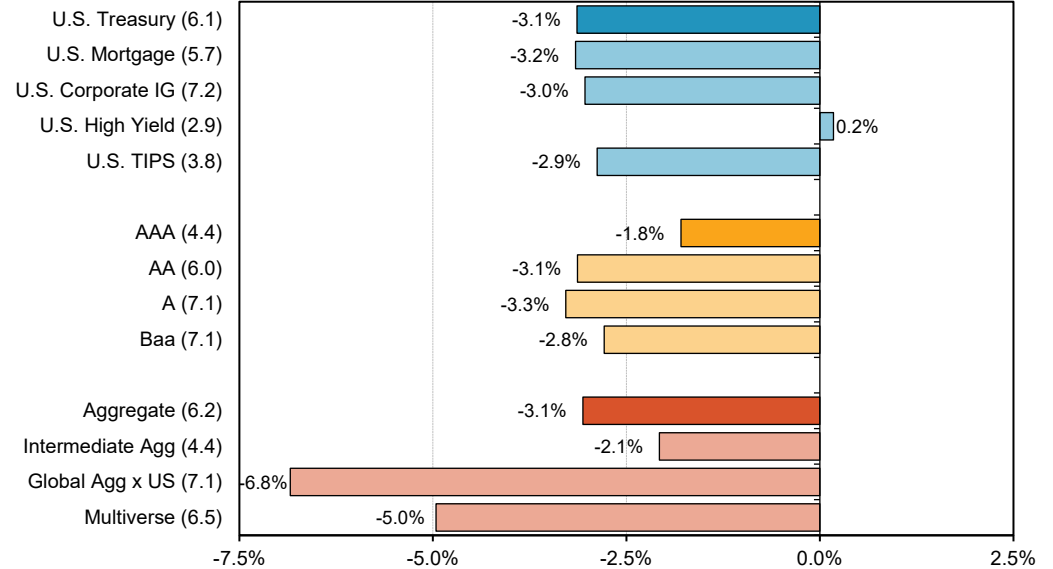
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	9.4%	-8.1%	15.9%
Consumer Discretionary	13.1%	-14.5%	11.8%
Consumer Staples	4.8%	-13.9%	-11.1%
Energy	4.6%	-14.5%	-5.9%
Financials	23.7%	-5.0%	11.0%
Health Care	3.5%	-11.7%	-0.9%
Industrials	6.6%	-10.9%	0.6%
Information Technology	24.3%	1.1%	20.4%
Materials	5.7%	-18.6%	-19.6%
Real Estate	1.7%	-6.5%	3.8%
Utilities	2.7%	-14.1%	3.3%
Total	100.0%	-8.0%	7.5%

Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	23.2%	14.5%	-3.6%	8.3%
United Kingdom	14.9%	9.3%	-6.8%	7.5%
France	11.1%	6.9%	-10.3%	-5.3%
Switzerland	9.6%	6.0%	-11.3%	-2.0%
Germany	9.2%	5.8%	-5.7%	10.2%
Australia	7.4%	4.6%	-11.4%	1.2%
Netherlands	4.6%	2.9%	-12.4%	1.4%
Sweden	3.6%	2.2%	-14.0%	-3.7%
Denmark	2.9%	1.8%	-21.5%	-12.9%
Italy	2.8%	1.7%	-6.7%	11.3%
Spain	2.8%	1.7%	-9.2%	9.8%
Hong Kong	2.0%	1.2%	-9.8%	0.1%
Singapore	1.7%	1.0%	3.2%	32.3%
Belgium	1.0%	0.6%	-8.3%	8.5%
Finland	1.0%	0.6%	-13.1%	-7.3%
Israel	1.0%	0.6%	14.1%	38.3%
Norway	0.6%	0.4%	-5.4%	-4.3%
Ireland	0.3%	0.2%	-12.6%	14.0%
New Zealand	0.2%	0.1%	-6.0%	-1.5%
Austria	0.2%	0.1%	1.1%	18.3%
Portugal	0.2%	0.1%	-22.7%	-25.2%
Total EAFE Countries	100.0%	62.3%	-8.1%	3.8%
Canada		8.1%	-1.8%	11.9%
Total Developed Countries		70.4%	-7.4%	4.7%
China		8.2%	-7.7%	19.4%
Taiwan		5.8%	3.3%	34.4%
India		5.8%	-11.3%	11.2%
Korea		2.7%	-19.2%	-23.4%
Saudi Arabia		1.2%	-1.5%	0.6%
Brazil		1.2%	-19.4%	-29.8%
South Africa		0.9%	-12.1%	6.7%
Mexico		0.5%	-10.6%	-27.1%
Malaysia		0.5%	-6.9%	20.8%
Indonesia		0.4%	-15.6%	-13.0%
Thailand		0.4%	-10.1%	1.3%
United Arab Emirates		0.4%	9.0%	19.6%
Qatar		0.3%	-0.2%	6.1%
Poland		0.2%	-11.5%	-6.7%
Kuwait		0.2%	1.2%	10.5%
Turkey		0.2%	-3.2%	17.8%
Philippines		0.2%	-13.9%	-0.7%
Greece		0.1%	-6.2%	8.9%
Chile		0.1%	-6.8%	-7.5%
Peru		0.1%	-9.1%	15.8%
Hungary		0.1%	-2.3%	14.0%
Czech Republic		0.0%	0.9%	4.0%
Colombia		0.0%	-0.2%	7.9%
Egypt		0.0%	-9.0%	-31.2%
Total Emerging Countries		29.7%	-8.0%	7.5%
Total ACWixUS Countries		100.0%	-7.6%	5.5%

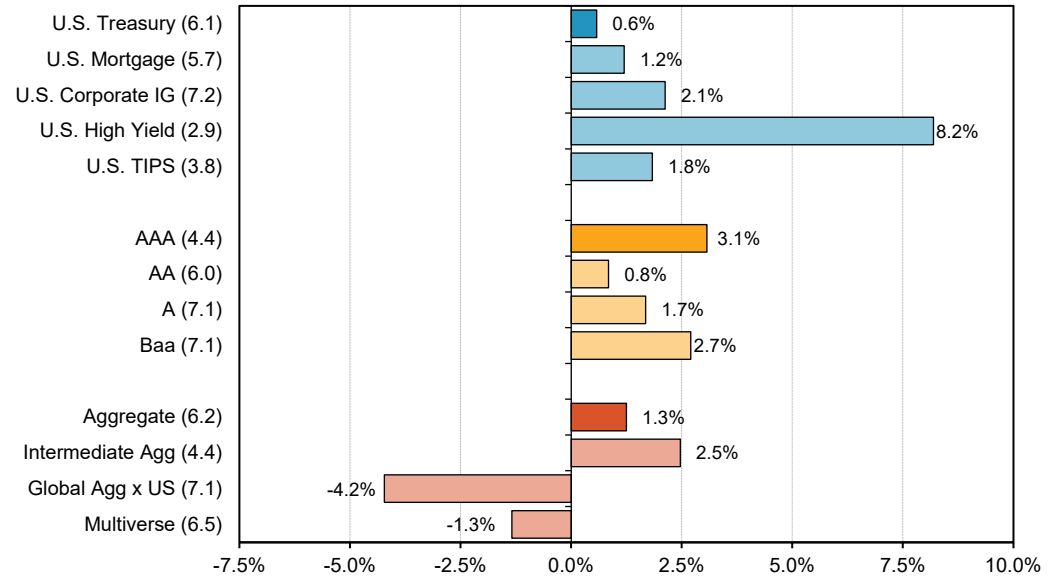
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)
As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency,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

- Domestic fixed-income markets declined during the fourth quarter despite two additional 0.25% rate cuts by the Fed. Although the Fed's action moved short-term rates lower, longer-term yields advanced during the quarter, leading to a modest steepening of the Treasury Yield Curve. The Fed's target range is now set at 4.25%-4.50% at year-end, down a full percentage point, including the first 0.50% cut in September of 2024.
- While the Fed's first rate cut in September was initially celebrated by fixed income investors and boosted the levels of the indexes during the third quarter, many of the core indexes fell during the fourth quarter as longer-term yields advanced and worked against the Fed's short-term rate declines. Performance across the investment-grade index's segments declined with the Treasury, Mortgage-Backed and Corporate IG indexes falling in a tight range around -3.0%. Higher quality issues performed better, as BBB issues fell by -2.8%, while AAA issues fell a smaller -1.8% due in large part to their lower duration (4.4 vs. 7.1 years).
- High Yield bonds outperformed investment grade issues as longer-term yields climbed. This was primarily due to the high-yield benchmark's lower duration and higher coupon income. Despite their lower credit quality, below-investment grade issues returned just 0.2% for the quarter, but still outpaced all other broad-based investment-grade fixed income indexes.
- Over the trailing one-year period, the Bloomberg US Aggregate Bond Index posted a return of 1.3%. The benchmark's sub-components also posted positive performance over the trailing 12 months with the Bloomberg US Corporate Investment Grade Index rising 2.1% and the US Mortgage Index returning 1.2%. US TIPS, which are excluded from the Bloomberg US Aggregate Bond Index, returned 1.8% for the trailing year.
- Results were mixed across credit qualities of investment grade issues. The performance of AAA issues was aided by their lower duration and returned 3.1% while AA issues returned only 0.8% for the year. High yield bonds were also the best performing segment of the market for the year, returning an outsized 8.2%, more than double any other segment of the domestic fixed income market. Results in high yield were spurred by stable credit spreads and higher coupon income.
- The Bloomberg Global Aggregate ex-US Index finished both the quarter and the year significantly weaker than its domestic benchmark counterpart. Strength in the USD was a primary driver in the international index's weak -6.8% fourth quarter performance and its -4.2% return for the calendar year.

Quarter Performance



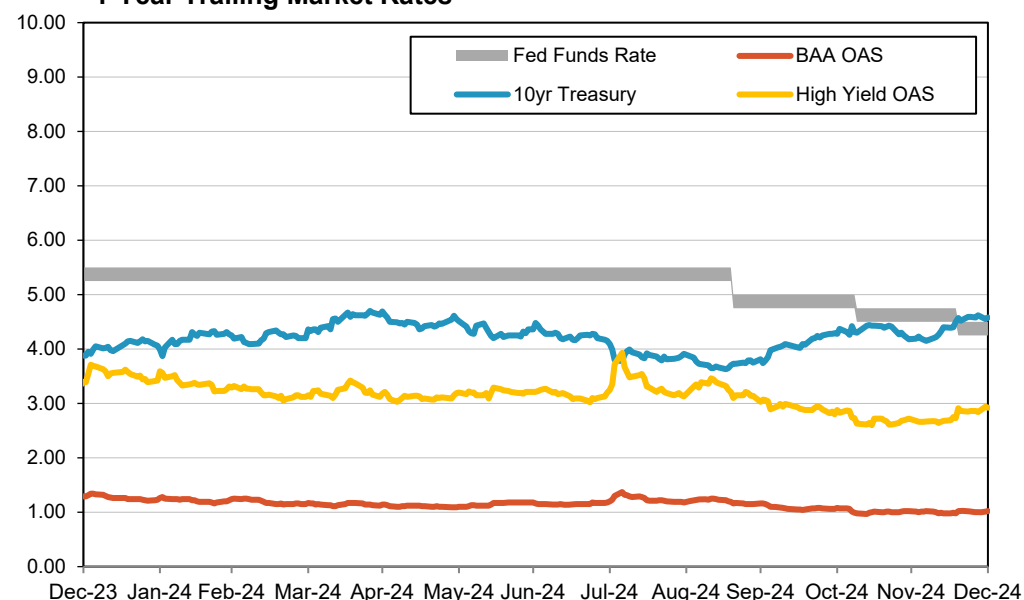
1-Year Performance



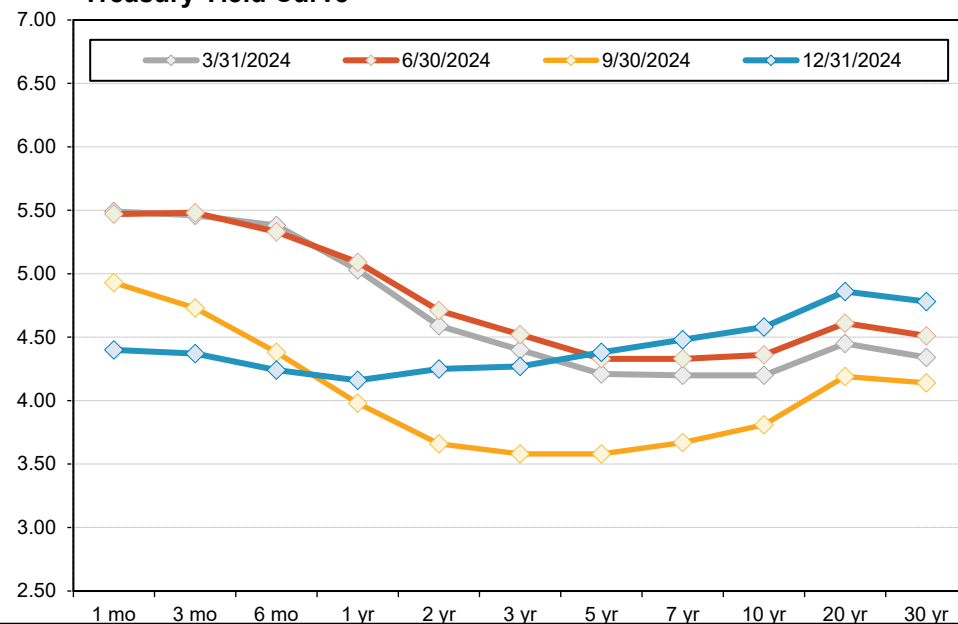
Source: Bloomberg

- The gray band across the graph illustrates the fed funds target rate range over the last 12 months. During the fourth quarter, the Federal Open Market Committee (FOMC) cut its policy rates by 0.50% with two successive 0.25% cuts in November and December. The target policy range now stands at 4.25-4.50%, a level not seen since January of 2023. With inflation declining and unemployment remaining largely stable, the Fed has pivoted from its restrictive monetary policy stance. The most recent FOMC press release continued to emphasize economic data-dependent outcomes while placing greater emphasis on the second part of the committee's dual mandate: full employment. The CME FedWatch tool, which forecasts rates based on fed fund futures pricing, showed a greater than 90% probability of no rate decrease at the FOMC January meeting at the time of this writing. Fed officials and market participants continue to express concern that leaving rates at their current elevated levels for an extended period could tip the US economy into a recession.
- The yield on the US 10-year Treasury (blue line of the top chart) rose 0.84% during the quarter. The bellwether benchmark rate opened the quarter at a yield of 3.74% and finished December at a yield of 4.58%, which is its highest level since May 2024.
- The red line in the top chart shows the option-adjusted spread (OAS) for BAA-rated corporate bonds. This measure quantifies the additional yield premium investors require to purchase and hold non-US Treasury issues with the lowest investment grade rating. During the quarter, the yield spread experienced a slight decline, beginning October at 1.13% and finishing December at 1.02%. High-yield OAS spreads (represented by the yellow line in the top chart) also remained relatively stable, despite a sharp spike in early August spurred by an unwinding of the yen carry trade. The high-yield OAS fell by 0.11% over the quarter from 3.03% to 2.92%. The spread measure's relative stability over the trailing year results from steady economic growth, stable monetary policy, and falling inflation readings.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four quarters. For the first time since November 2022, the quarter-end yield on the 30-year Treasury was higher than the one-month Treasury. Furthermore, the spread between the two-year yield and the 10-year yield continued to widen during the quarter, growing from 0.15% in October to 0.30% at year end. The yield curve had been inverted for much of the last two years. This 2-10-year yield curve inversion is a common heuristic used to foretell a pending recession.

1-Year Trailing Market Rates



Treasury Yield Curve



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

[CME FedWatch Tool - CME Group](#)

[Effective Federal Funds Rate - FEDERAL RESERVE BANK of NEW YORK \(newyorkfed.org\)](#)

[ICE BofA US High Yield Index Option-Adjusted Spread \(BAMLH0A0HYM2\) | FRED | St. Louis Fed \(stlouisfed.org\)](#)

[When will the Federal Reserve start cutting interest rates? | J.P. Morgan Asset Management \(jpmorgan.com\)](#)

[U.S. Department of the Treasury](#)

[China's Economy Limpers Into 2024 – WSJ Support Site - Global Index Lens: Index Returns – MSCI](#)

[Federal Reserve issues FOMC statement](#)

[The Fed - Meeting calendars and information \(federalreserve.gov\)](#)

[The Federal Reserve's latest dot plot, explained – and what it says about interest rates | Bankrate](#)

[Why Chinese banks are now vanishing \(economist.com\)](#)

[Fed rate cut: Here's what changed in the central bank's statement \(cnbc.com\)](#)

[10-Year Treasury Constant Maturity Minus 2-Year Treasury Constant Maturity \(T10Y2Y\) | FRED | St. Louis Fed \(stlouisfed.org\)](#)

[The Fed's dot plot shows only two rate cuts in 2025, fewer than previously projected](#)

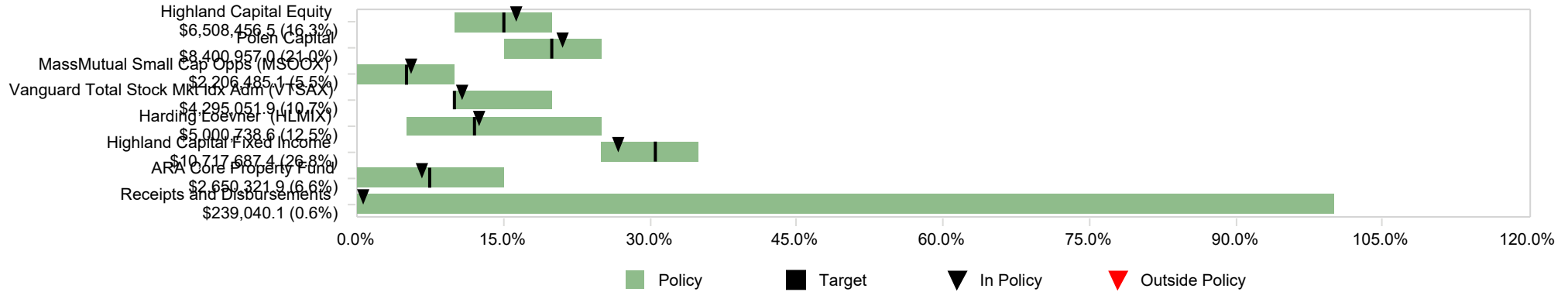
Total Fund Compliance:		
	Yes	No
The total plan (Net) return equaled or exceeded the total plan benchmark over the trailing three year period.		•
The total plan (Net) return equaled or exceeded the total plan benchmark over the trailing five year period.		•
The three year return ranks in the top 50%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

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

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

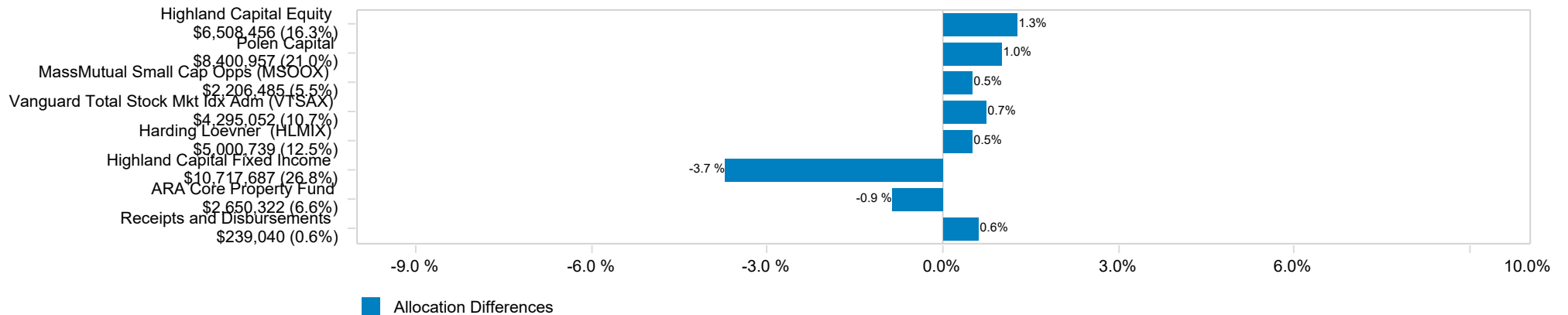
Asset Allocation Compliance
Miami Springs Police and Firefighters Retirement System Total Fund Composite
As of December 31, 2024

Executive Summary



Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund Composite	40,018,738	100.0	100.0	0.0	-
Highland Capital Equity	6,508,456	16.3	15.0	1.3	-505,646
Polen Capital	8,400,957	21.0	20.0	1.0	-397,209
MassMutual Small Cap Opps (MSOXX)	2,206,485	5.5	5.0	0.5	-205,548
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,295,052	10.7	10.0	0.7	-293,178
Harding Loevner (HLMIX)	5,000,739	12.5	12.0	0.5	-198,490
Highland Capital Fixed Income	10,717,687	26.8	30.5	-3.7	1,488,028
ARA Core Property Fund	2,650,322	6.6	7.5	-0.9	351,084
Receipts and Disbursements	239,040	0.6	0.0	0.6	-239,040

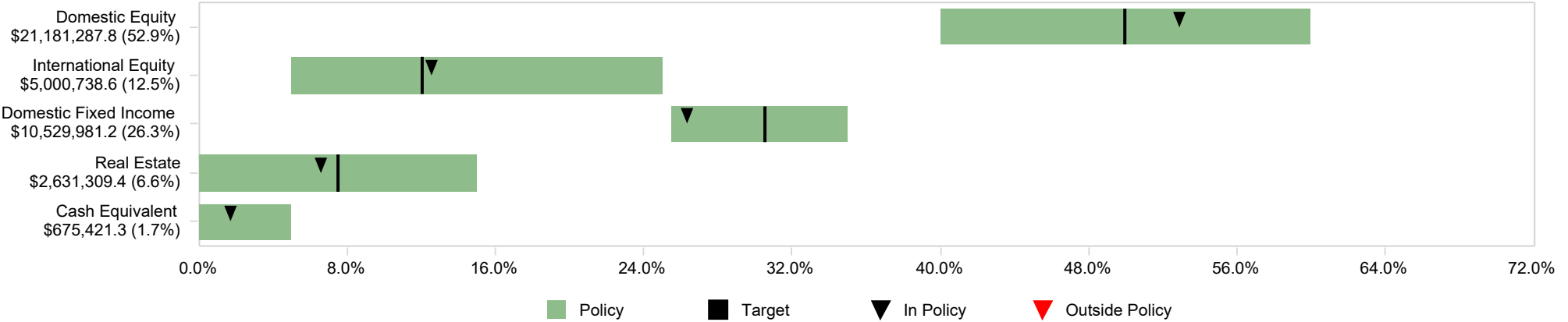


Asset Allocation Compliance

Miami Springs Police and Firefighters Retirement System Segment Based

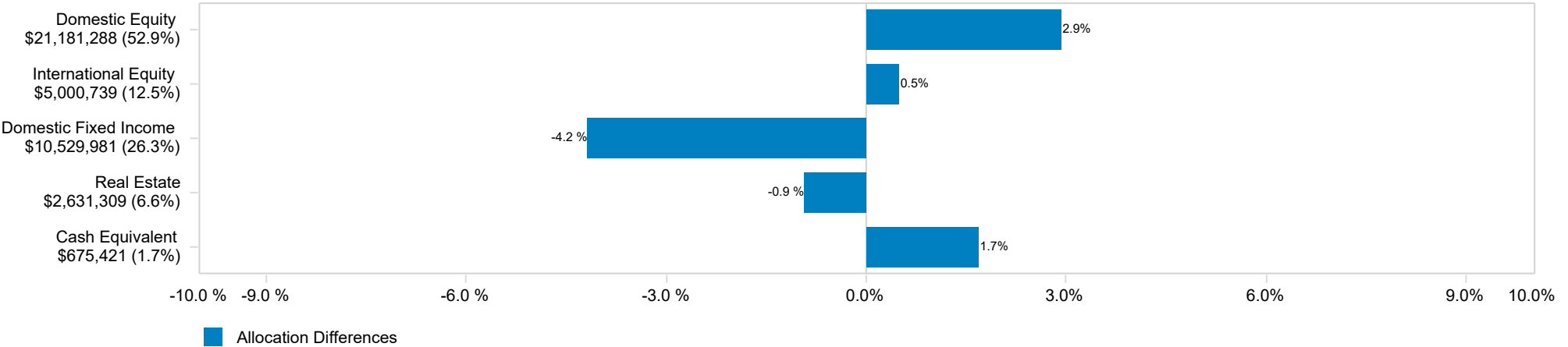
As of December 31, 2024

Executive Summary

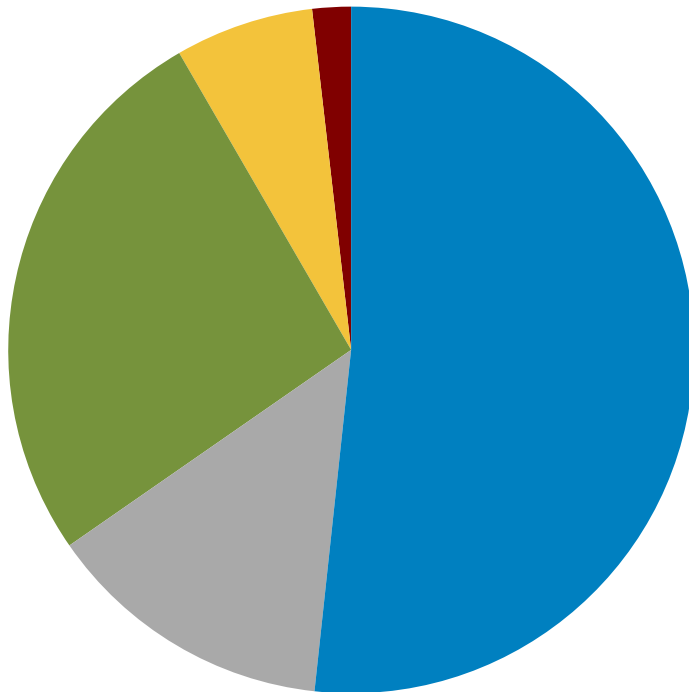


Asset Allocation Compliance

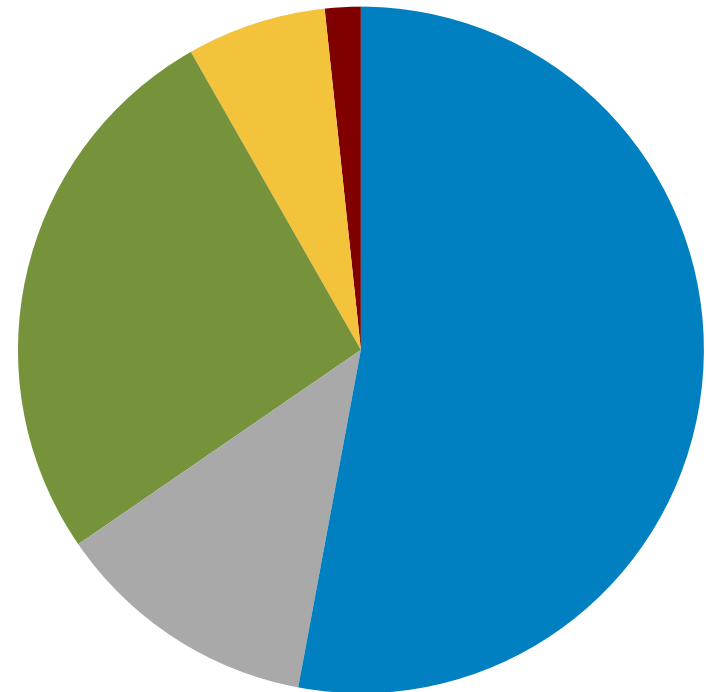
	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	21,181,288	52.9	50.0	2.9	-1,171,919
International Equity	5,000,739	12.5	12.0	0.5	-198,490
Domestic Fixed Income	10,529,981	26.3	30.5	-4.2	1,675,734
Real Estate	2,631,309	6.6	7.5	-0.9	370,096
Cash Equivalent	675,421	1.7	0.0	1.7	-675,421
Total Fund	40,018,738	100.0	100.0	0.0	-



**Asset Allocation By Segment as of
September 30, 2024 : \$40,247,205**

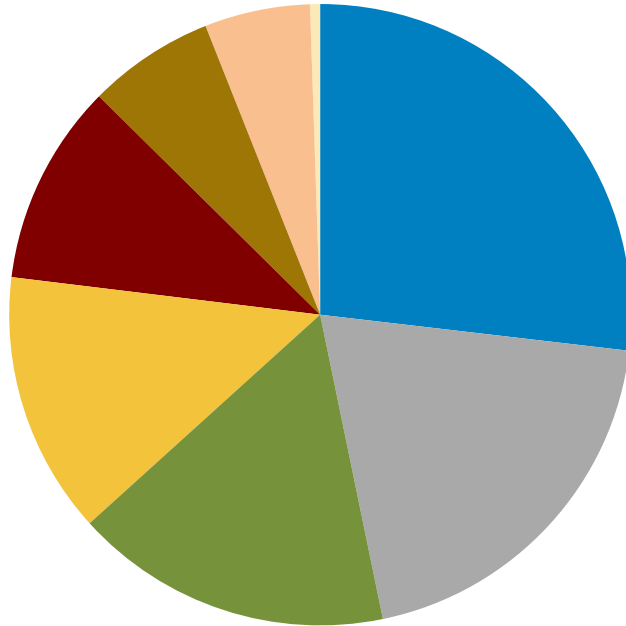


**Asset Allocation By Segment as of
December 31, 2024 : \$40,018,738**

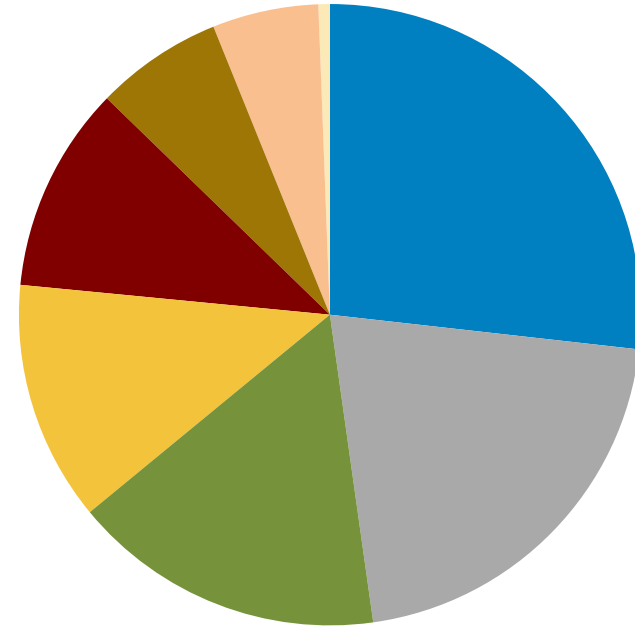


Allocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
Domestic Equity	20,810,430	51.7	Domestic Equity	21,181,288	52.9
International Equity	5,492,316	13.6	International Equity	5,000,739	12.5
Domestic Fixed Income	10,579,362	26.3	Domestic Fixed Income	10,529,981	26.3
Real Estate	2,632,093	6.5	Real Estate	2,631,309	6.6
Cash Equivalent	733,005	1.8	Cash Equivalent	675,421	1.7

**Asset Allocation By Manager as of
Sep-2024 : \$40,247,205**



**Asset Allocation By Manager as of
Dec-2024 : \$40,018,738**



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Highland Capital Fixed Income	10,806,603	26.9	Highland Capital Fixed Income	10,717,687	26.8
Polen Capital	8,016,438	19.9	Polen Capital	8,400,957	21.0
Highland Capital Equity	6,649,043	16.5	Highland Capital Equity	6,508,456	16.3
Harding Loevner (HLMIX)	5,492,316	13.6	Harding Loevner (HLMIX)	5,000,739	12.5
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,212,859	10.5	Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,295,052	10.7
ARA Core Property Fund	2,651,302	6.6	ARA Core Property Fund	2,650,322	6.6
MassMutual Small Cap Opps (MSOOX)	2,206,298	5.5	MassMutual Small Cap Opps (MSOOX)	2,206,485	5.5
Receipts and Disbursements	212,347	0.5	Receipts and Disbursements	239,040	0.6

Asset Allocation & Performance
Total Fund Composite (Gross)
As of December 31, 2024

	Allocation		Performance(%)													
	Market Value \$	%	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR	
Total Fund Composite	40,018,738	100.0	-0.41	(27)	-0.41	(27)	10.90	(49)	2.07	(71)	7.31	(35)	8.17	(8)	8.48	(3)
Total Fund Policy Index			-0.42	(28)	-0.42	(28)	13.40	(10)	4.56	(5)	9.45	(3)	9.44	(1)	9.19	(1)
All Public Plans-Total Fund Median			-0.93		-0.93		10.83		2.66		6.93		6.93		6.96	
Total Equity Composite	26,182,026	65.4	-0.46		-0.46		15.00		3.20		10.38		11.23		11.60	
Total Equity Index			0.20		0.20		20.99		7.72		14.36		13.62		13.04	
Total Domestic Equity Composite	21,410,950	53.5	1.71	(53)	1.71	(53)	18.08	(62)	4.41	(90)	11.46	(69)	N/A		N/A	
Total Domestic Equity Policy			2.23	(49)	2.23	(49)	25.24	(33)	9.00	(34)	16.58	(17)	N/A		N/A	
IM U.S. Large Cap Equity (SA+CF) Median			1.93		1.93		22.16		8.25		13.82		13.20		12.74	
Highland Capital Equity	6,508,456	16.3	-2.10	(69)	-2.10	(69)	14.40	(58)	5.67	(71)	8.52	(87)	8.31	(85)	9.20	(73)
Russell 1000 Value Index			-1.98	(66)	-1.98	(66)	14.37	(58)	5.63	(72)	8.68	(86)	8.41	(84)	8.49	(89)
S&P 500 Index			2.41	(6)	2.41	(6)	25.02	(4)	8.94	(30)	14.53	(7)	13.83	(6)	13.10	(6)
IM U.S. Large Cap Value Equity (SA+CF) Median			-1.26		-1.26		15.65		7.42		10.85		10.05		9.90	
Polen Capital	8,400,957	21.0	4.95	(50)	4.95	(50)	17.28	(86)	1.01	(96)	11.62	(90)	14.81	(68)	14.76	(59)
Russell 1000 Growth Index			7.07	(17)	7.07	(17)	33.36	(26)	10.47	(22)	18.96	(15)	18.08	(16)	16.78	(11)
IM U.S. Large Cap Growth Equity (SA+CF) Median			4.91		4.91		29.05		8.25		16.26		16.36		15.23	
MassMutual Small Cap Opps (MSOOX)	2,206,485	5.5	0.01	(50)	0.01	(50)	N/A		N/A		N/A		N/A		N/A	
Russell 2000 Index			0.33	(35)	0.33	(35)	11.54	(40)	1.24	(67)	7.40	(68)	6.91	(62)	7.82	(53)
Small Blend Median			-0.02		-0.02		10.93		2.10		8.21		7.25		7.88	
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,295,052	10.7	2.62	(21)	2.62	(21)	23.75	(45)	7.86	(51)	N/A		N/A		N/A	
Russell 3000 Index			2.63	(20)	2.63	(20)	23.81	(44)	8.01	(48)	13.86	(40)	13.16	(34)	12.55	(28)
Large Blend Median			2.05		2.05		23.23		7.88		13.39		12.50		11.89	
Total International Equity																
Harding Loevner (HLMIX)	5,000,739	12.5	-8.95	(85)	-8.95	(85)	1.22	(80)	-2.42	(77)	3.94	(57)	3.90	(40)	5.81	(24)
MSCI EAFE Index			-8.06	(64)	-8.06	(64)	4.35	(49)	2.17	(25)	5.24	(27)	4.62	(23)	5.71	(26)
Foreign Median			-7.51		-7.51		4.19		0.22		4.19		3.58		4.93	

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

Asset Allocation & Performance
Total Fund Composite (Gross)
As of December 31, 2024

	Allocation		Performance(%)							
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR	
Total Fixed Income										
Highland Capital Fixed Income	10,717,687	26.8	-0.69 (15)	-0.69 (15)	5.43 (7)	1.12 (16)	2.25 (9)	2.83 (8)	2.91 (8)	
Total Fixed Income Policy			-2.07 (87)	-2.07 (87)	2.47 (94)	-0.83 (97)	0.86 (91)	1.89 (67)	2.04 (52)	
IM U.S. Intermediate Duration (SA+CF) Median			-1.52	-1.52	3.52	0.14	1.28	2.02	2.07	
Total Real Estate Composite										
ARA Core Property Fund	2,650,322	6.6	0.97 (60)	0.97 (60)	-1.21 (56)	-2.07 (45)	3.04 (53)	4.30 (59)	6.01 (63)	
Real Estate Policy			1.03 (55)	1.03 (55)	-1.67 (77)	-2.37 (60)	3.01 (55)	4.09 (62)	5.95 (64)	
IM U.S. Open End Private Real Estate (SA+CF) Median			1.30	1.30	-1.13	-2.22	3.07	4.47	6.17	

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

Asset Allocation & Performance
Total Fund Composite (Net)
As of December 31, 2024

	Allocation		Performance(%)						
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR
Total Fund Composite	40,018,738	100.0	-0.49	-0.49	10.55	1.71	6.93	7.74	8.01
Total Fund Policy Index			-0.42	-0.42	13.40	4.56	9.45	9.44	9.19
Total Equity Composite	26,182,026	65.4	-0.46	-0.46	15.00	3.20	10.38	11.23	11.60
Total Equity Index			0.20	0.20	20.99	7.72	14.36	13.62	13.04
Total Domestic Equity Composite	21,410,950	53.5	1.66	1.66	17.83	4.14	11.14	N/A	N/A
Total Domestic Equity Policy			2.23	2.23	25.24	9.00	16.58	N/A	N/A
Highland Capital Equity	6,508,456	16.3	-2.10	-2.10	14.40	5.56	8.32	N/A	N/A
Russell 1000 Value Index			-1.98	-1.98	14.37	5.63	8.68	8.41	8.49
S&P 500 Index			2.41	2.41	25.02	8.94	14.53	13.83	13.10
Polen Capital	8,400,957	21.0	4.81	4.81	16.64	0.46	11.02	14.16	14.12
Russell 1000 Growth Index			7.07	7.07	33.36	10.47	18.96	18.08	16.78
MassMutual Small Cap Opps (MSOOX)	2,206,485	5.5	0.01	0.01	N/A	N/A	N/A	N/A	N/A
Russell 2000 Index			0.33	0.33	11.54	1.24	7.40	6.91	7.82
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,295,052	10.7	2.62	2.62	23.75	7.86	N/A	N/A	N/A
Russell 3000 Index			2.63	2.63	23.81	8.01	13.86	13.16	12.55
Total International Equity									
Harding Loevner (HLMIX)	5,000,739	12.5	-8.95	-8.95	1.22	-2.42	3.94	3.90	5.81
MSCI EAFE Index			-8.06	-8.06	4.35	2.17	5.24	4.62	5.71
Total Fixed Income									
Highland Capital Fixed Income	10,717,687	26.8	-0.81	-0.81	4.92	0.66	1.84	N/A	N/A
Total Fixed Income Policy			-2.07	-2.07	2.47	-0.83	0.86	1.89	2.04
Total Real Estate Composite									
ARA Core Property Fund	2,650,322	6.6	0.69	0.69	-2.29	-3.15	1.92	3.16	4.87
Real Estate Policy			1.03	1.03	-1.67	-2.37	3.01	4.09	5.95

Asset Allocation & Performance
Total Fund Composite (Gross)
As of December 31, 2024

	Allocation		Performance(%)									
	Market Value \$	%	FYTD	Oct-2023 To Sep-2024	Oct-2022 To Sep-2023	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018		
Total Fund Composite	40,018,738	100.0	-0.41 (27)	20.62 (57)	10.53 (55)	-15.90 (61)	20.74 (41)	11.97 (11)	6.39 (6)	12.25 (2)		
Total Fund Policy Index			-0.42 (28)	23.43 (23)	13.11 (13)	-12.44 (27)	18.50 (71)	15.43 (1)	6.21 (7)	10.91 (7)		
All Public Plans-Total Fund Median			-0.93	21.23	10.77	-14.86	20.05	7.93	3.99	7.84		
Balanced Fund												
Highland Capital Balanced	-	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Highland Policy Index			-0.62 (22)	22.10 (61)	10.02 (68)	-14.89 (42)	12.11 (87)	11.87 (17)	8.58 (8)	7.36 (59)		
IM U.S. Balanced (SA+CF) Median			-1.71	23.97	12.36	-15.73	21.80	8.15	4.14	7.92		
Total Equity Composite	26,182,026	65.4	-0.46	29.65	18.77	-23.48	30.94	17.05	4.06	19.25		
Total Equity Index			0.20	34.59	22.62	-17.31	29.33	21.18	3.08	18.00		
Total Domestic Equity Composite	21,410,950	53.5	1.71 (53)	30.15 (67)	18.89 (63)	-22.56 (82)	33.03 (36)	15.98 (39)	6.44 (19)	N/A		
Total Domestic Equity Policy			2.23 (49)	36.84 (33)	21.62 (41)	-15.47 (54)	30.00 (58)	26.50 (22)	4.00 (42)	N/A		
IM U.S. Large Cap Equity (SA+CF) Median			1.93	35.09	20.88	-15.35	30.93	13.79	3.42	17.33		
Highland Capital Equity	6,508,456	16.3	-2.10 (69)	27.21 (66)	14.26 (68)	-10.59 (59)	36.88 (52)	-6.66 (73)	2.34 (51)	12.66 (46)		
Russell 1000 Value Index			-1.98 (66)	27.76 (60)	14.44 (67)	-11.36 (66)	35.01 (60)	-5.03 (66)	4.00 (38)	9.45 (76)		
S&P 500 Index			2.41 (6)	36.35 (7)	21.62 (18)	-15.47 (87)	30.00 (79)	15.15 (6)	4.25 (36)	17.91 (7)		
IM U.S. Large Cap Value Equity (SA+CF) Median			-1.26	28.81	16.70	-9.52	37.14	-3.19	2.49	11.91		
Polen Capital	8,400,957	21.0	4.95 (50)	28.30 (90)	22.17 (76)	-34.05 (89)	30.63 (19)	35.22 (42)	9.99 (11)	31.18 (14)		
Russell 1000 Growth Index			7.07 (17)	42.19 (42)	27.72 (39)	-22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)		
IM U.S. Large Cap Growth Equity (SA+CF) Median			4.91	41.08	25.57	-24.90	27.23	33.75	3.81	24.83		
MassMutual Small Cap Opps (MSOOX)	2,206,485	5.5	0.01 (50)	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Russell 2000 Index			0.33 (35)	26.76 (31)	8.93 (77)	-23.50 (86)	47.68 (57)	0.39 (25)	-8.89 (62)	15.24 (29)		
Small Blend Median			-0.02	25.50	11.97	-19.43	48.63	-4.53	-7.97	13.34		
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,295,052	10.7	2.62 (21)	35.24 (47)	20.37 (52)	-18.01 (75)	32.07 (21)	N/A	N/A	N/A		
Russell 3000 Index			2.63 (20)	35.19 (47)	20.46 (50)	-17.63 (70)	31.88 (22)	15.00 (30)	2.92 (52)	17.58 (31)		
Large Blend Median			2.05	34.94	20.44	-16.16	29.68	13.54	3.10	16.60		
Total International Equity												
Harding Loevner (HLMIX)	5,000,739	12.5	-8.95 (85)	24.67 (44)	17.70 (80)	-27.28 (55)	20.50 (75)	14.04 (23)	-3.34 (58)	5.85 (14)		
MSCI EAFE Index			-8.06 (64)	25.38 (34)	26.31 (24)	-24.75 (28)	26.29 (37)	0.93 (62)	-0.82 (32)	3.25 (27)		
Foreign Median			-7.51	24.09	22.20	-26.73	24.62	3.76	-2.63	1.56		

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

Asset Allocation & Performance
Total Fund Composite (Gross)
As of December 31, 2024

	Allocation		Performance(%)									
	Market Value \$	%	FYTD	Oct-2023 To Sep-2024	Oct-2022 To Sep-2023	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018		
Total Fixed Income												
Highland Capital Fixed Income	10,717,687	26.8	-0.69 (15)	10.60 (37)	3.34 (16)	-9.10 (22)	1.73 (21)	6.80 (31)	10.23 (3)	-1.01 (97)		
Total Fixed Income Policy			-2.07 (87)	10.39 (41)	1.42 (90)	-10.88 (75)	-1.13 (99)	8.03 (4)	11.32 (1)	-1.37 (99)		
IM U.S. Intermediate Duration (SA+CF) Median			-1.52	10.21	2.56	-10.04	0.29	6.44	8.03	-0.36		
Total Real Estate Composite												
ARA Core Property Fund	2,650,322	6.6	0.97 (60)	-8.01 (65)	-12.54 (54)	25.79 (17)	13.51 (75)	1.62 (52)	6.81 (49)	8.50 (63)		
Real Estate Policy			1.03 (55)	-7.75 (63)	-12.40 (48)	22.76 (39)	15.75 (50)	1.49 (58)	5.59 (74)	8.68 (61)		
IM U.S. Open End Private Real Estate (SA+CF) Median			1.30	-6.61	-12.47	20.46	15.73	1.62	6.80	8.98		

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

Asset Allocation & Performance
Total Fund Composite (Net)
As of December 31, 2024

	Allocation		Performance(%)							
	Market Value \$	%	FYTD	Oct-2023 To Sep-2024	Oct-2022 To Sep-2023	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018
Total Fund Composite	40,018,738	100.0	-0.49	20.18	10.18	-16.23	20.35	11.51	5.85	11.70
Total Fund Policy Index			-0.42	23.43	13.11	-12.44	18.50	15.43	6.21	10.91
Balanced Fund										
Highland Capital Balanced	-	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Highland Policy Index			-0.62	22.10	10.02	-14.89	12.11	11.87	8.58	7.36
Total Equity Composite	26,182,026	65.4	-0.46	29.65	18.77	-23.48	30.94	17.05	4.06	19.25
Total Equity Index			0.20	34.59	22.62	-17.31	29.33	21.18	3.08	18.00
Total Domestic Equity Composite	21,410,950	53.5	1.66	29.79	18.71	-22.86	32.57	15.56	5.88	N/A
Total Domestic Equity Policy			2.23	36.84	21.62	-15.47	30.00	26.50	4.00	N/A
Highland Capital Equity	6,508,456	16.3	-2.10	27.21	14.26	-10.95	36.32	-6.88	1.84	N/A
Russell 1000 Value Index			-1.98	27.76	14.44	-11.36	35.01	-5.03	4.00	9.45
S&P 500 Index			2.41	36.35	21.62	-15.47	30.00	15.15	4.25	17.91
Polen Capital	8,400,957	21.0	4.81	27.42	21.71	-34.42	29.93	34.50	9.37	30.48
Russell 1000 Growth Index			7.07	42.19	27.72	-22.59	27.32	37.53	3.71	26.30
MassMutual Small Cap Opps (MSOOX)	2,206,485	5.5	0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2000 Index			0.33	26.76	8.93	-23.50	47.68	0.39	-8.89	15.24
Vanguard Total Stock Mkt Idx Adm (VTSAX)	4,295,052	10.7	2.62	35.24	20.37	-18.01	32.07	N/A	N/A	N/A
Russell 3000 Index			2.63	35.19	20.46	-17.63	31.88	15.00	2.92	17.58
Total International Equity										
Harding Loevner (HLMIX)	5,000,739	12.5	-8.95	24.67	17.70	-27.28	20.50	14.04	-3.34	5.85
MSCI EAFE Index			-8.06	25.38	26.31	-24.75	26.29	0.93	-0.82	3.25
Total Fixed Income										
Highland Capital Fixed Income	10,717,687	26.8	-0.81	10.05	2.79	-9.33	1.49	6.28	9.69	N/A
Total Fixed Income Policy			-2.07	10.39	1.42	-10.88	-1.13	8.03	11.32	-1.37
Total Real Estate Composite										
ARA Core Property Fund	2,650,322	6.6	0.69	-9.02	-13.49	24.41	12.27	0.51	5.64	7.31
Real Estate Policy			1.03	-7.75	-12.40	22.76	15.75	1.49	5.59	8.68

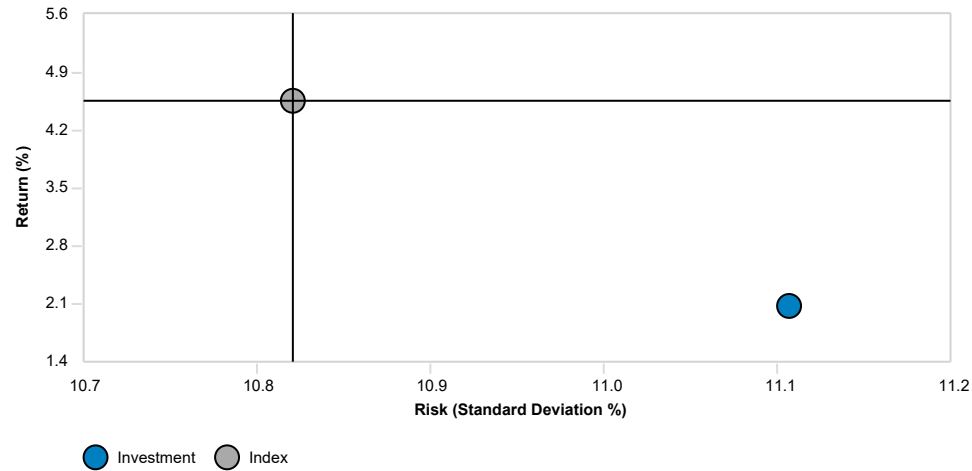
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.07	11.11	-0.11	87.15	7	110.83	5
Index	4.56	10.82	0.12	100.00	7	100.00	5

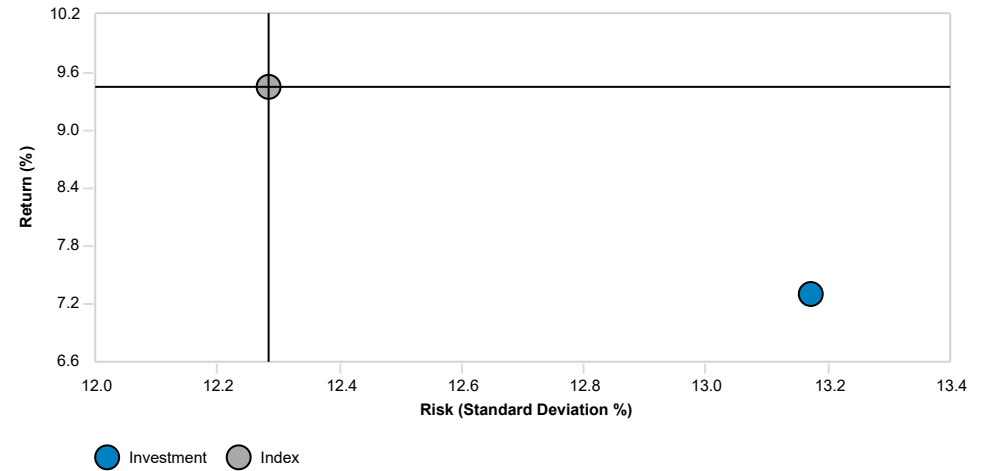
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.31	13.17	0.42	94.79	14	116.13	6
Index	9.45	12.28	0.60	100.00	14	100.00	6

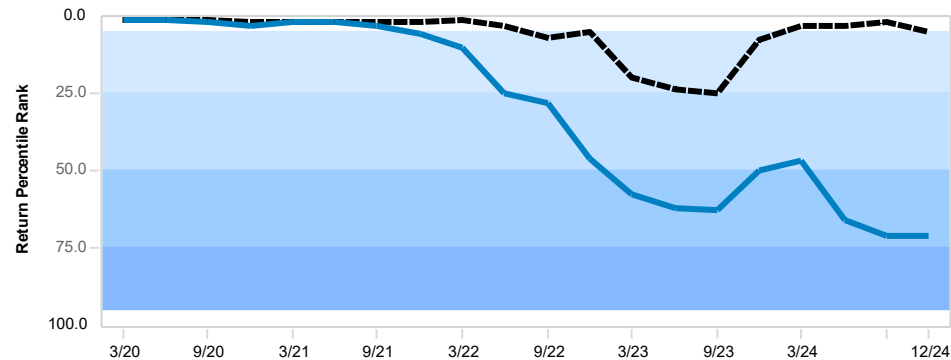
Risk and Return 3 Years



Risk and Return 5 Years

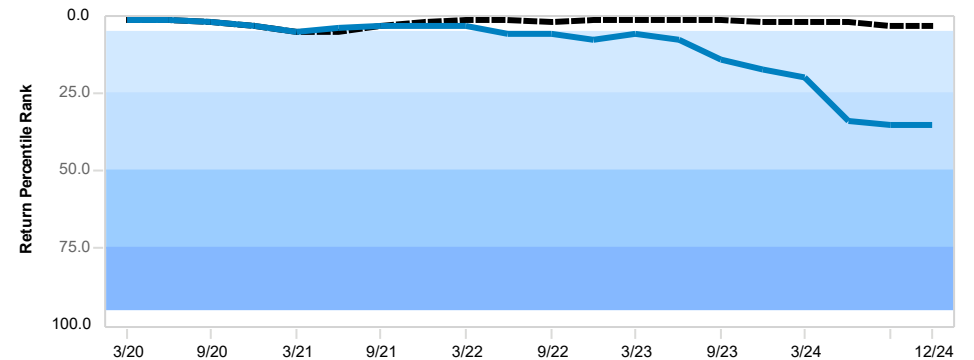


3 Year Rolling Percentile Rank All Public Plans-Total Fund



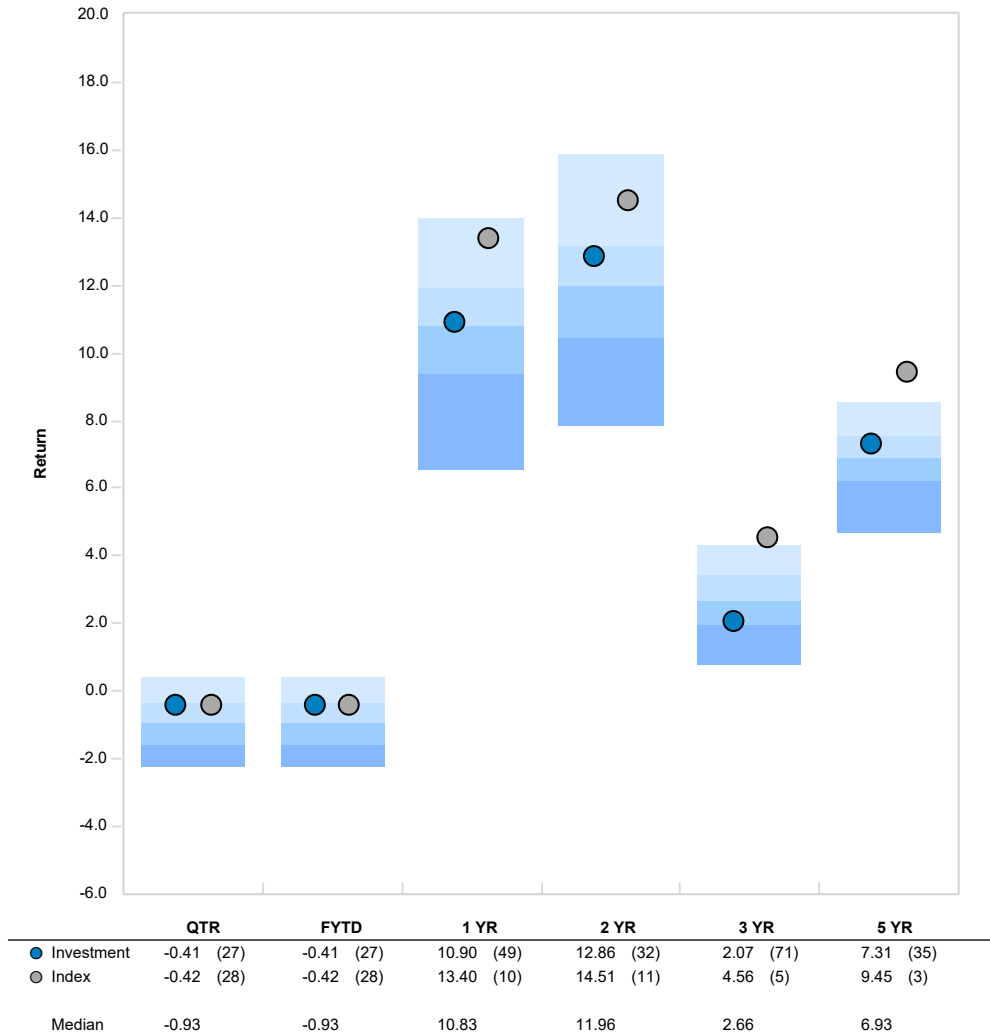
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	10 (50%)	4 (20%)	6 (30%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)

5 Year Rolling Percentile Rank All Public Plans-Total Fund

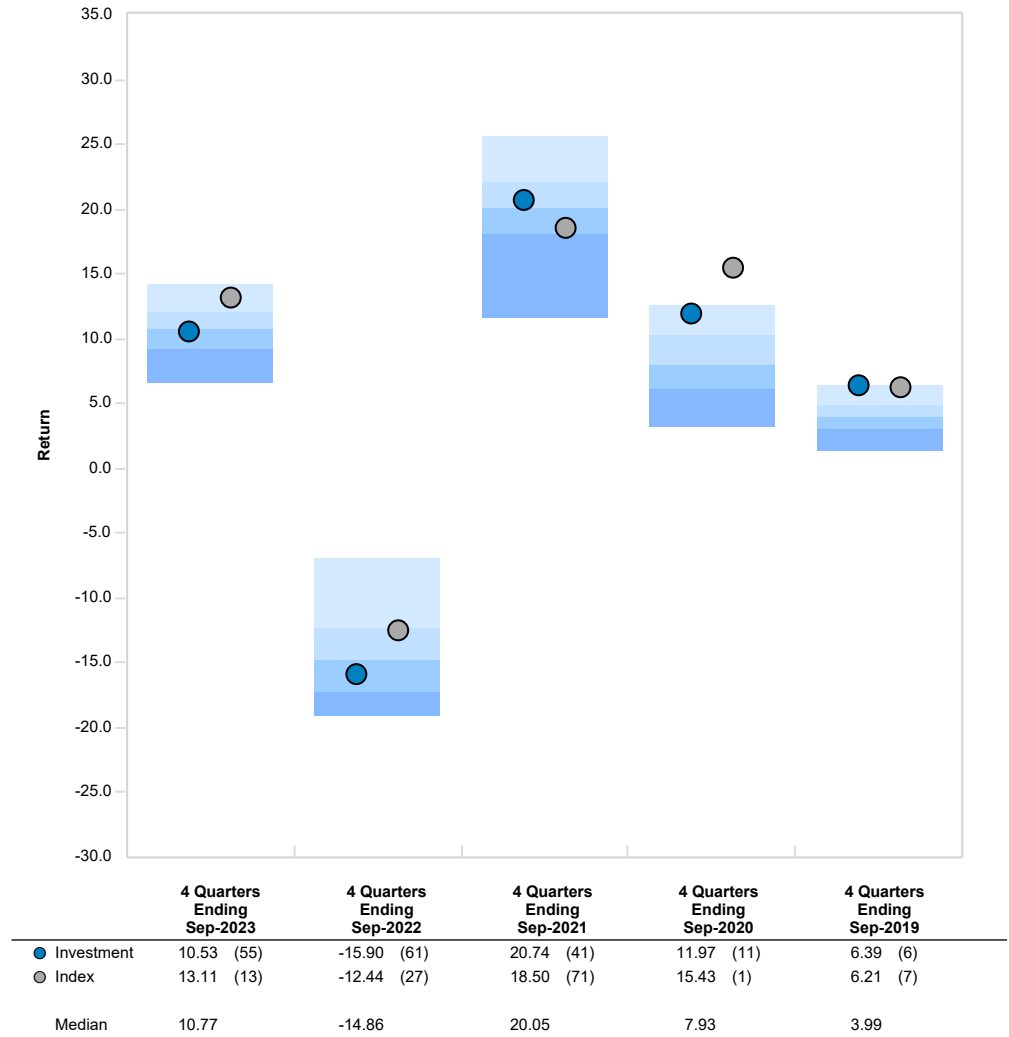


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)

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



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



Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	5.54 (41)	0.14 (92)	5.36 (18)	8.32 (36)	-2.82 (59)	4.17 (9)
Index	5.40 (46)	2.21 (3)	5.70 (10)	8.39 (35)	-2.84 (59)	4.31 (7)
Median	5.31	1.14	4.48	7.75	-2.54	3.12

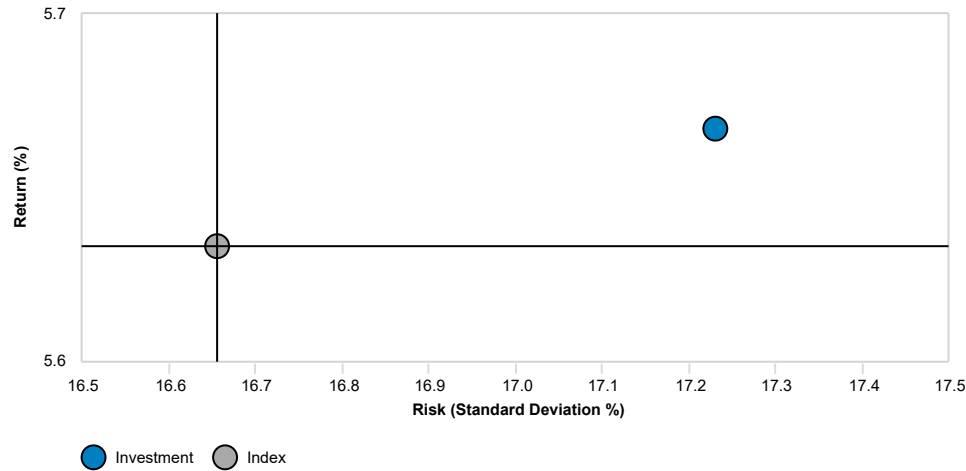
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.67	17.23	0.19	101.73	7	101.67	5
Index	5.63	16.66	0.18	100.00	6	100.00	6

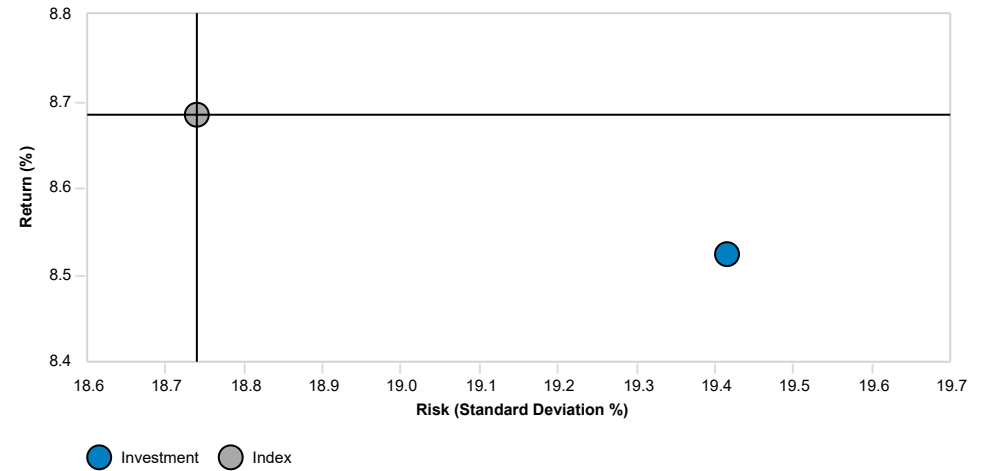
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.52	19.42	0.39	102.83	13	104.26	7
Index	8.68	18.74	0.41	100.00	12	100.00	8

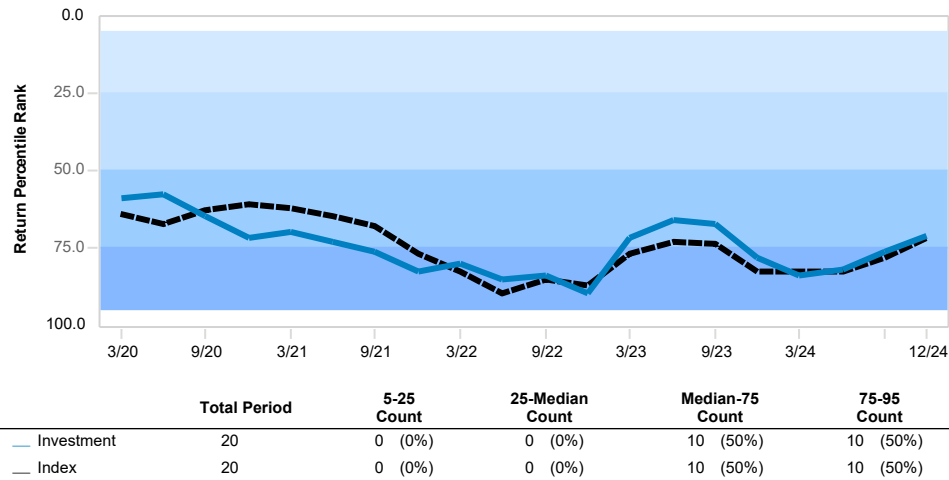
Risk and Return 3 Years



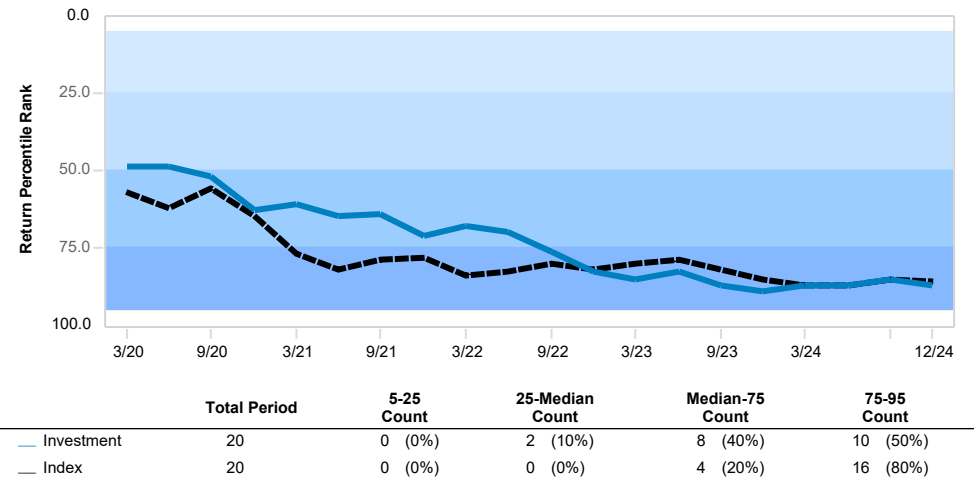
Risk and Return 5 Years



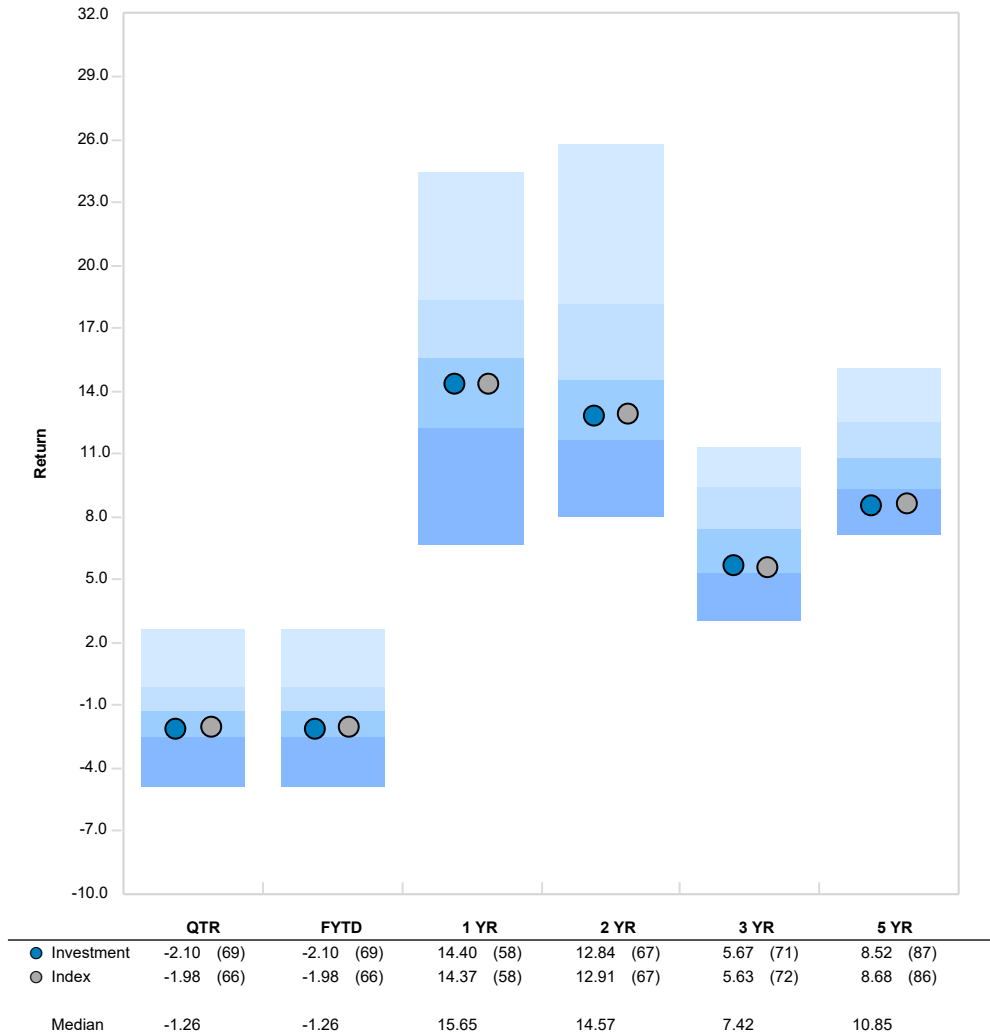
3 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (SA+CF)



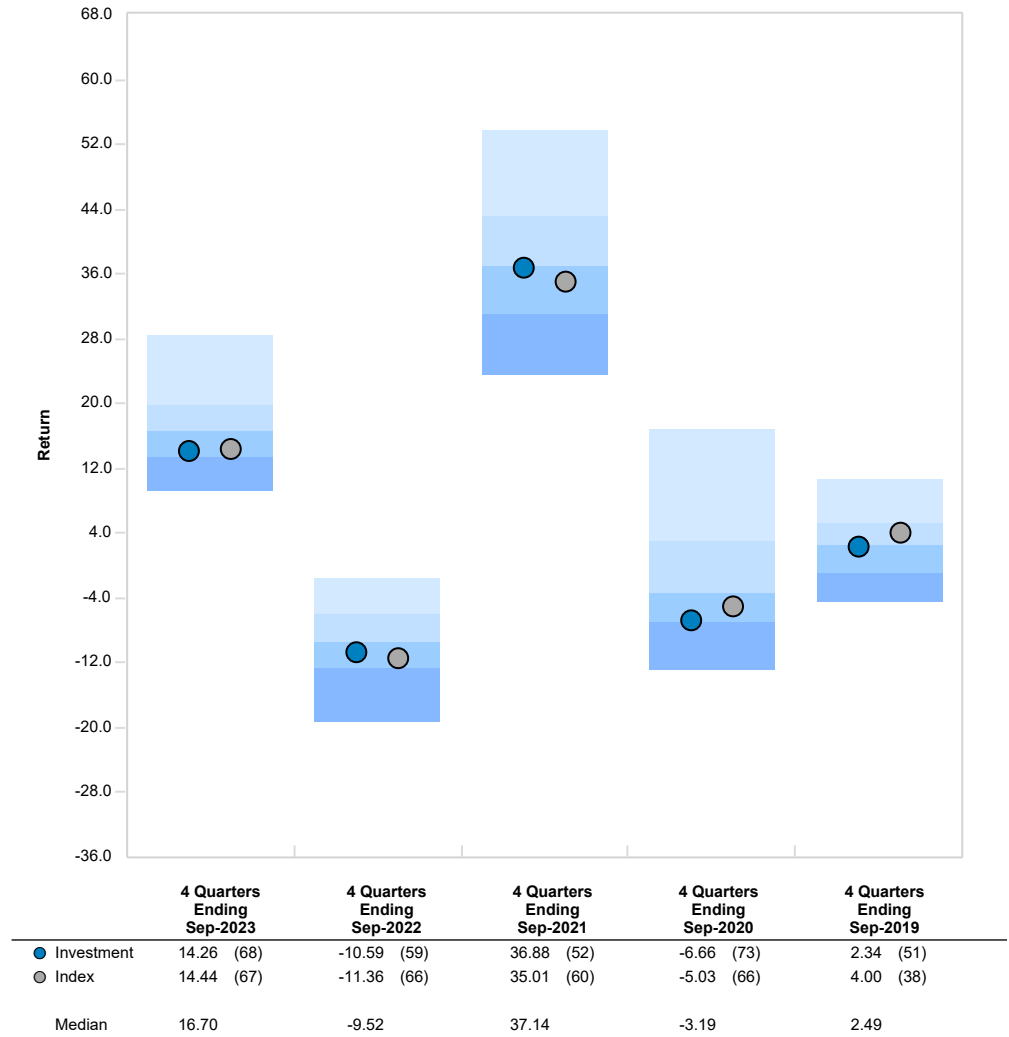
5 Year Rolling Percentile Rank IM U.S. Large Cap Value Equity (SA+CF)



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



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



Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	8.95 (30)	-2.16 (68)	9.62 (50)	8.86 (78)	-3.08 (75)	4.81 (41)
Index	9.43 (20)	-2.17 (69)	8.99 (60)	9.50 (66)	-3.16 (79)	4.07 (53)
Median	7.78	-1.24	9.55	10.22	-2.17	4.24

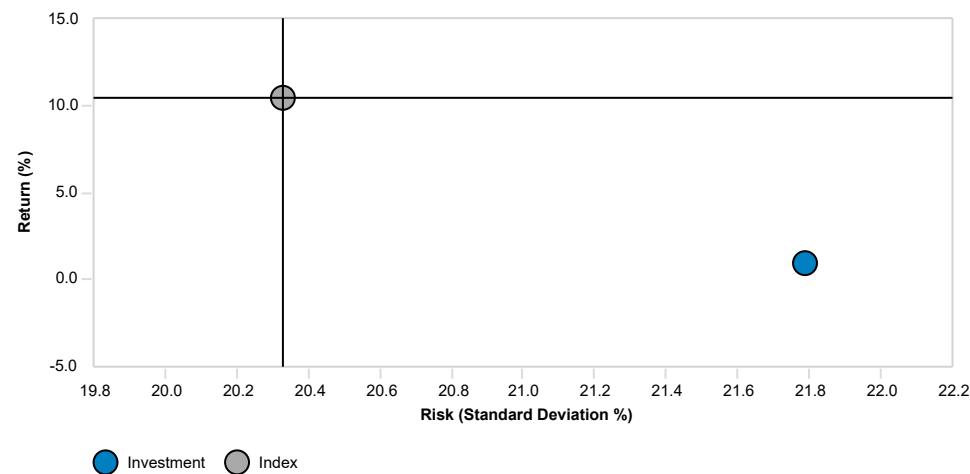
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	1.01	21.79	-0.02	86.42	7	115.64	5
Index	10.47	20.33	0.41	100.00	8	100.00	4

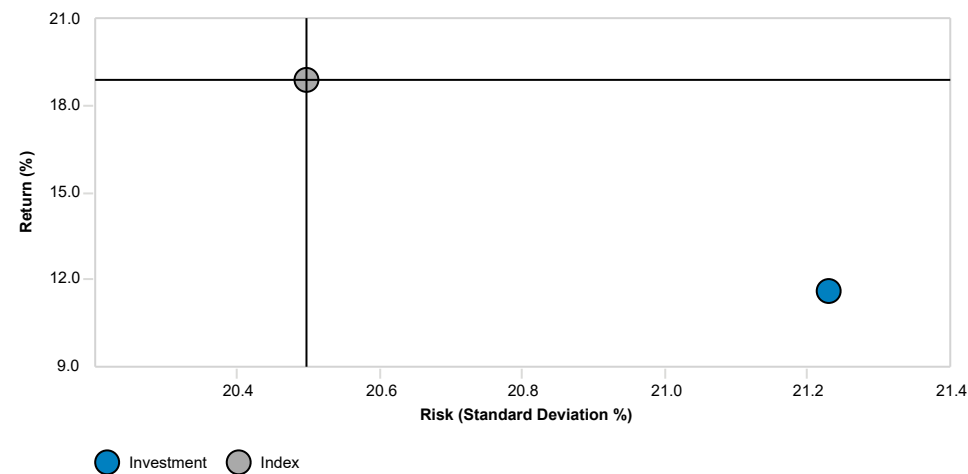
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.62	21.23	0.51	87.93	14	106.64	6
Index	18.96	20.50	0.84	100.00	15	100.00	5

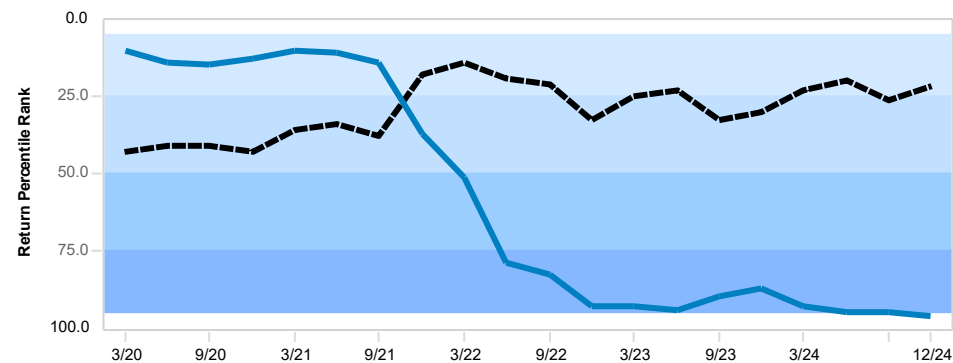
Risk and Return 3 Years



Risk and Return 5 Years

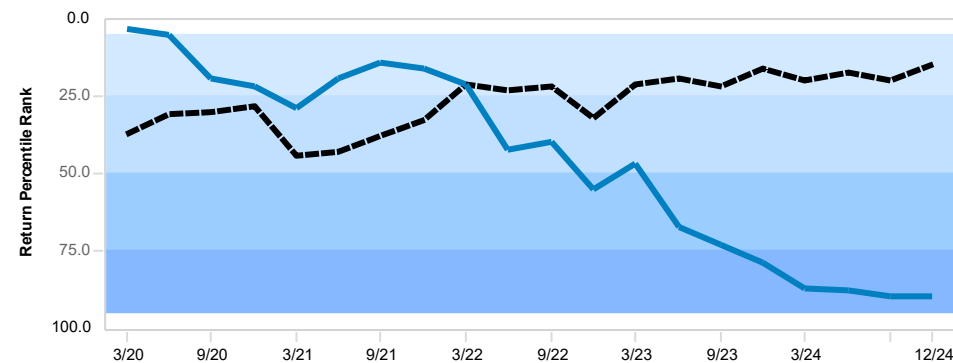


3 Year Rolling Percentile Rank IM U.S. Large Cap Growth Equity (SA+CF)



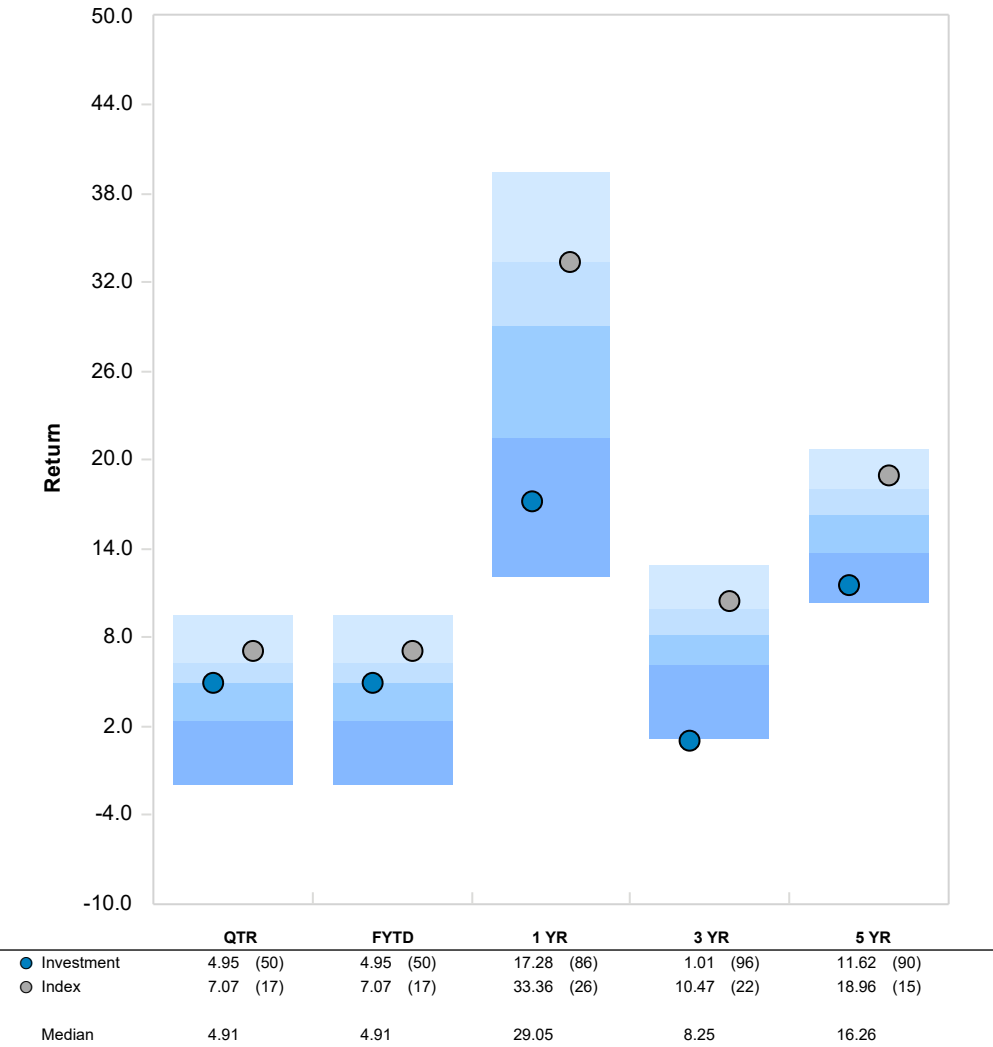
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	7 (35%)	1 (5%)	1 (5%)	11 (55%)
Index	20	9 (45%)	11 (55%)	0 (0%)	0 (0%)

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

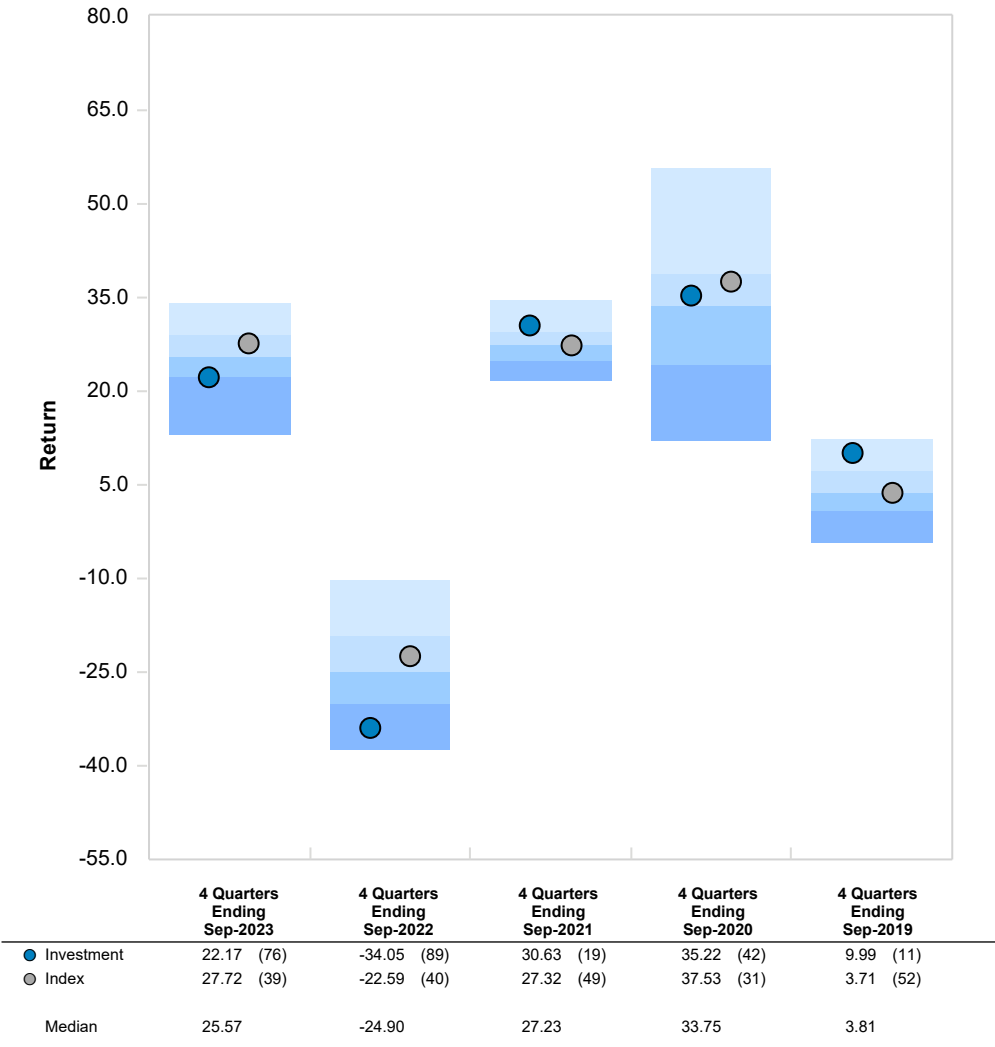


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	8 (40%)	4 (20%)	3 (15%)	5 (25%)
Index	20	11 (55%)	9 (45%)	0 (0%)	0 (0%)

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



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



Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	3.13 (56)	0.01 (91)	8.34 (89)	14.81 (26)	-3.28 (49)	10.73 (63)
Index	3.19 (56)	8.33 (16)	11.41 (64)	14.16 (43)	-3.13 (44)	12.81 (37)
Median	3.40	5.60	12.45	13.86	-3.31	11.76

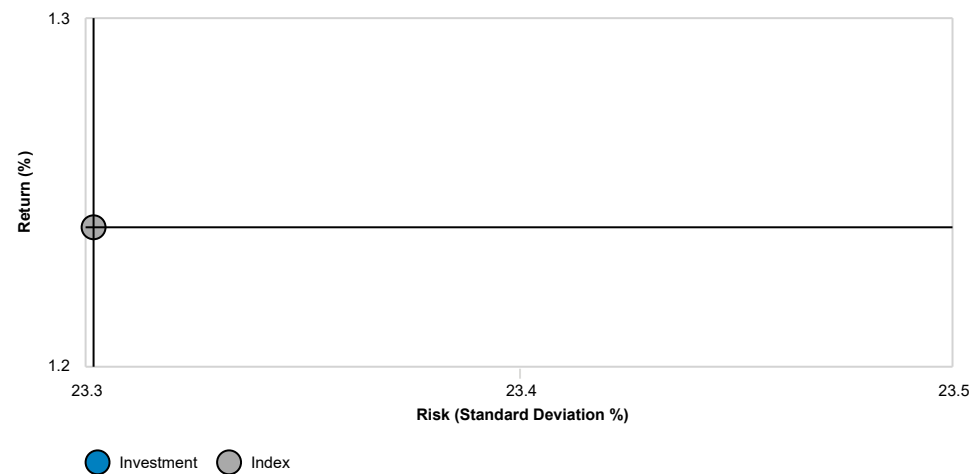
Historical Statistics 3 Years

	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	1.24	23.30	0.00	100.00	7	100.00	5

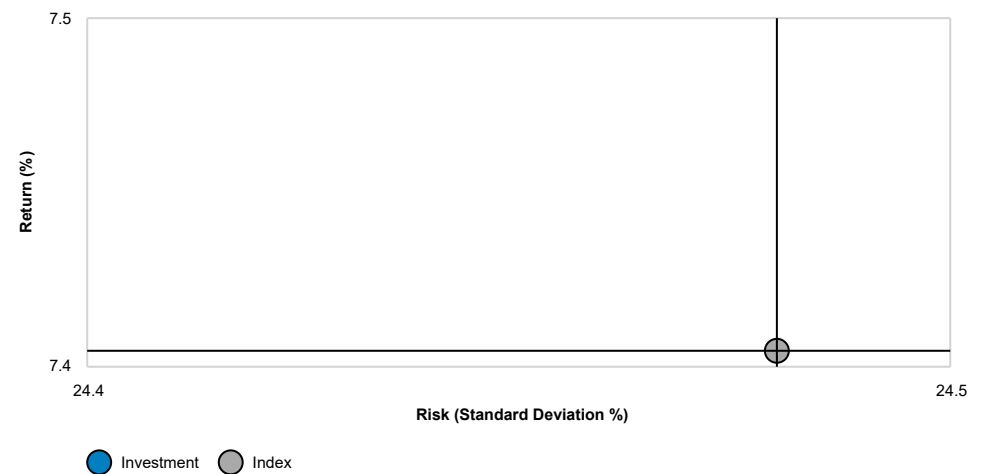
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	7.40	24.48	0.32	100.00	13	100.00	7

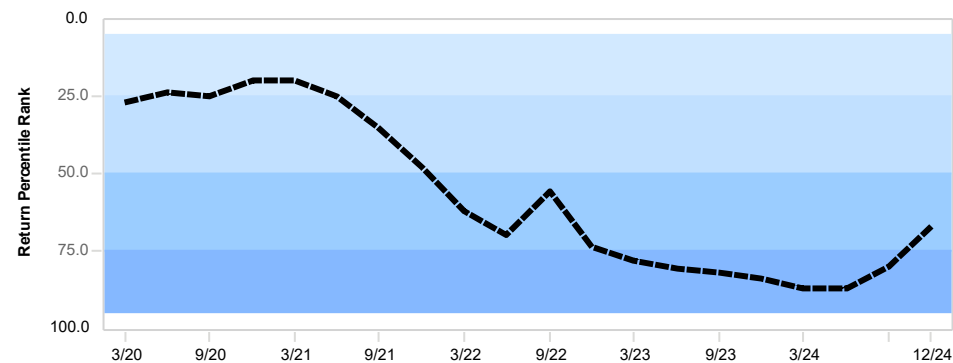
Risk and Return 3 Years



Risk and Return 5 Years

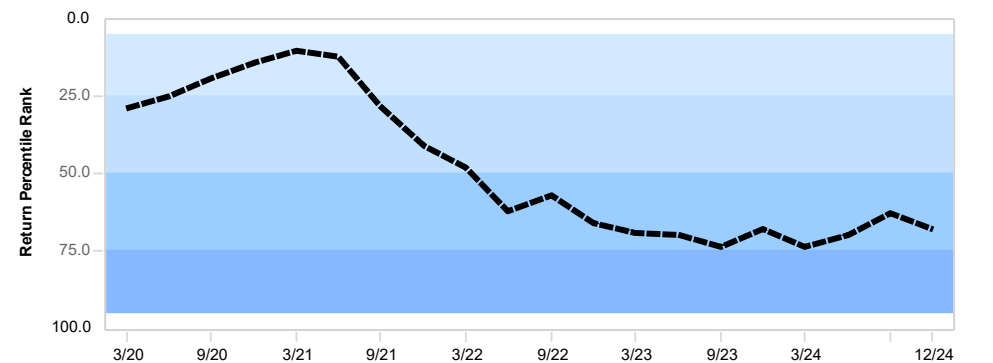


3 Year Rolling Percentile Rank Small Blend



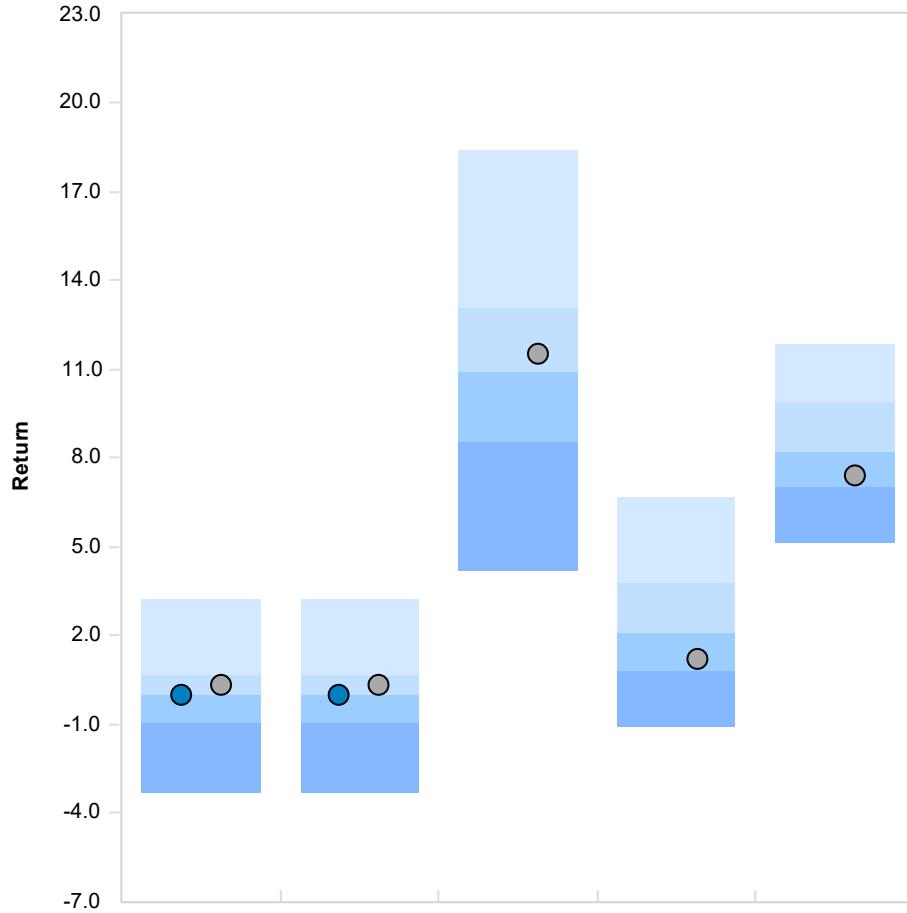
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	5 (25%)	3 (15%)	5 (25%)	7 (35%)

5 Year Rolling Percentile Rank Small Blend

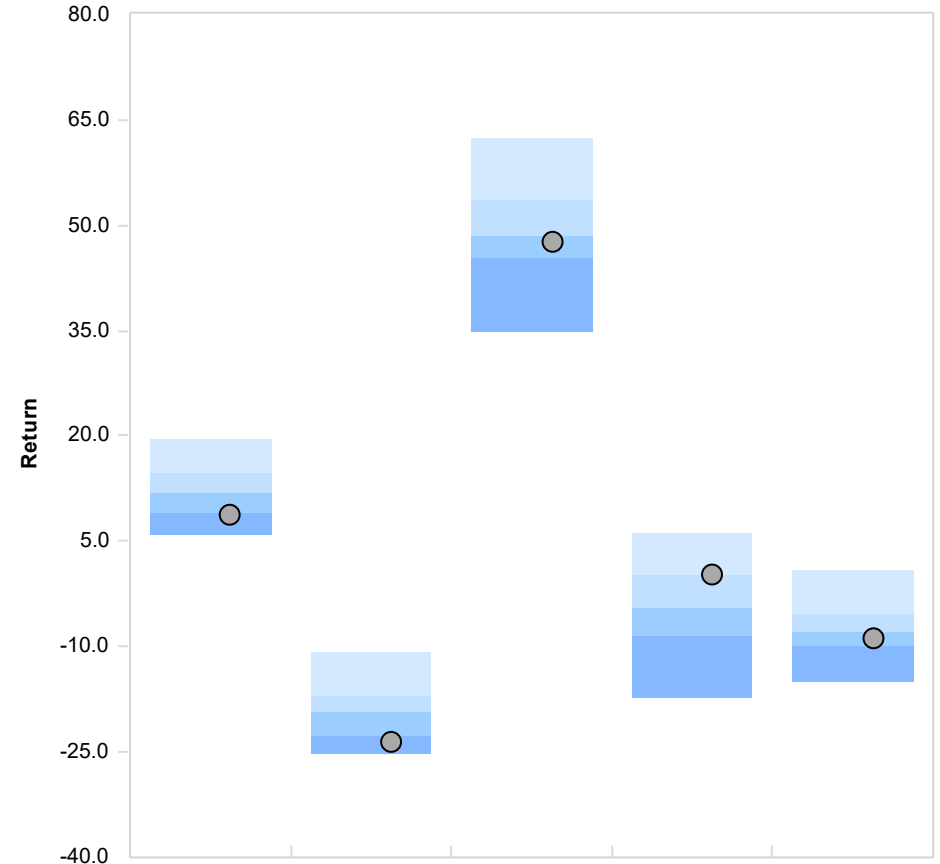


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	5 (25%)	4 (20%)	11 (55%)	0 (0%)

Peer Group Analysis - Small Blend



Peer Group Analysis - Small Blend



Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	9.73 (21)	-3.67 (63)	N/A	N/A	N/A	N/A
Index	9.27 (34)	-3.28 (46)	5.18 (60)	14.03 (21)	-5.13 (72)	5.21 (28)
Median	8.81	-3.36	5.74	12.93	-4.61	4.53

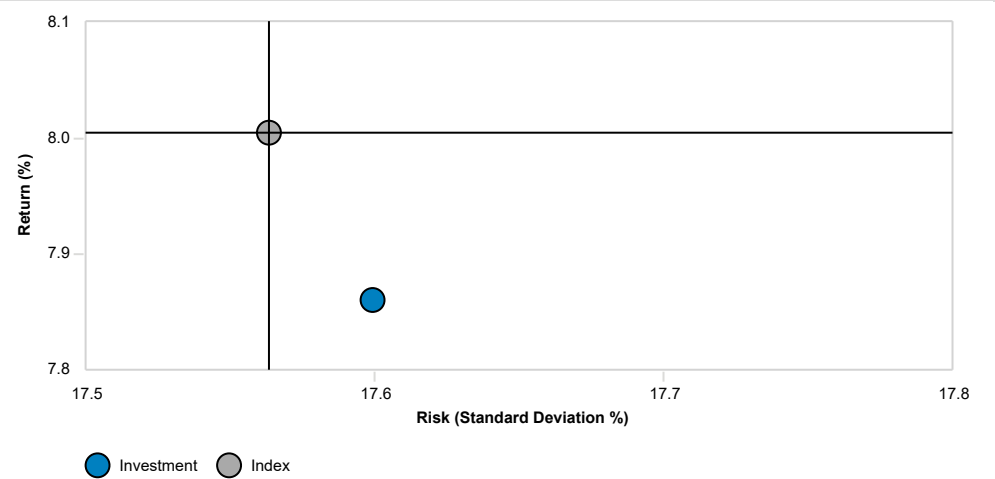
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.86	17.60	0.30	99.98	8	100.57	4
Index	8.01	17.56	0.31	100.00	8	100.00	4

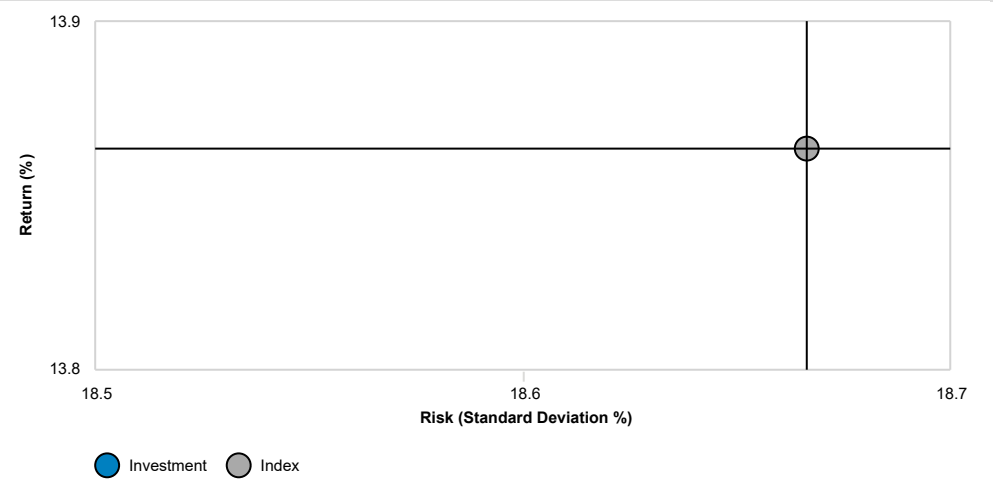
Historical Statistics 5 Years

	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	13.86	18.67	0.66	100.00	14	100.00	6

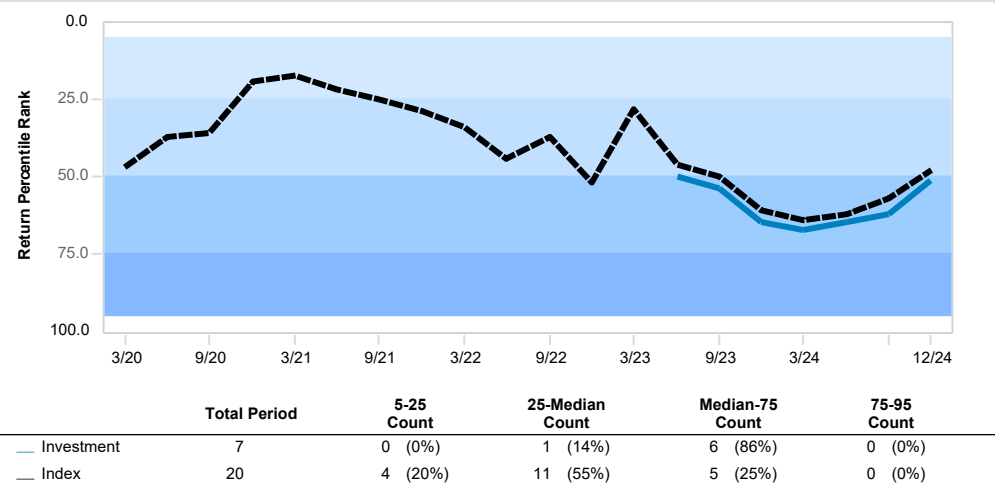
Risk and Return 3 Years



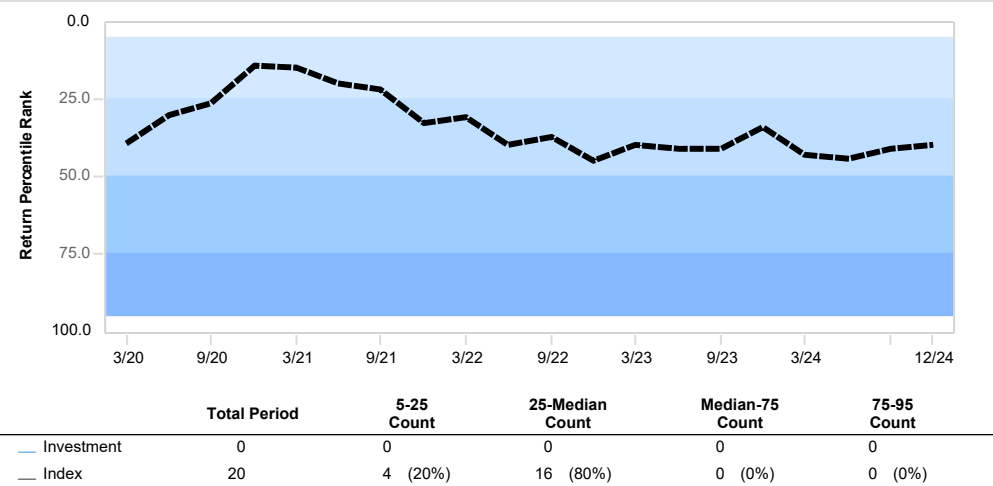
Risk and Return 5 Years



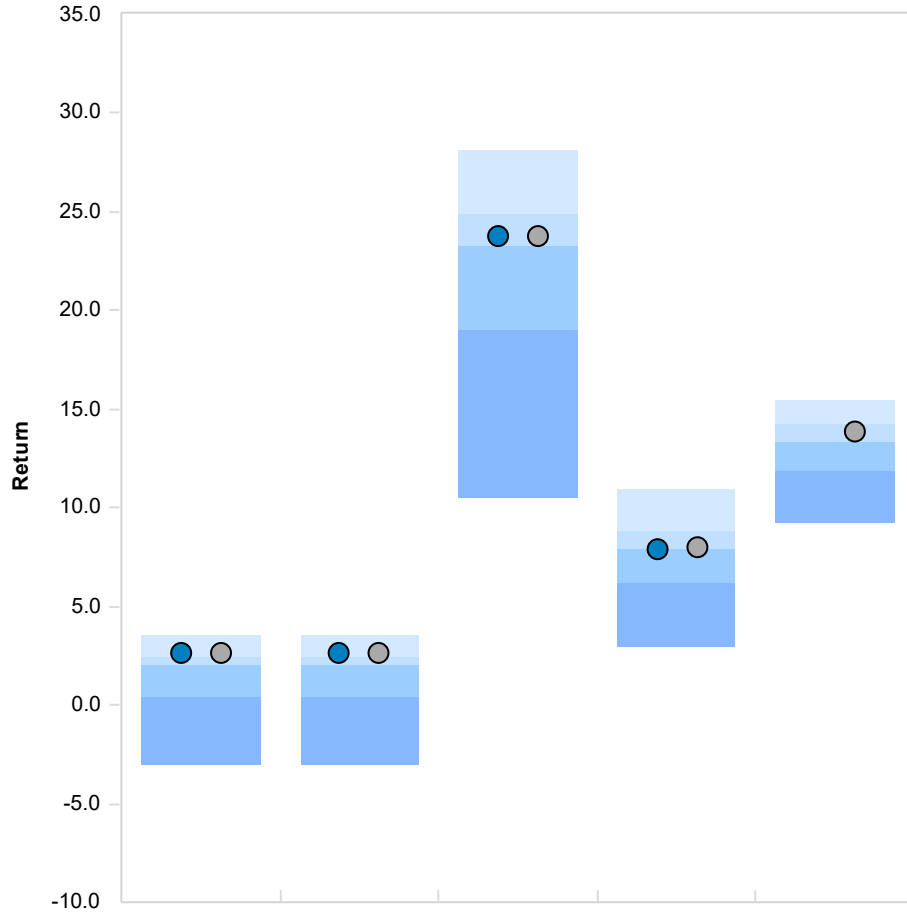
3 Year Rolling Percentile Rank Large Blend



5 Year Rolling Percentile Rank Large Blend

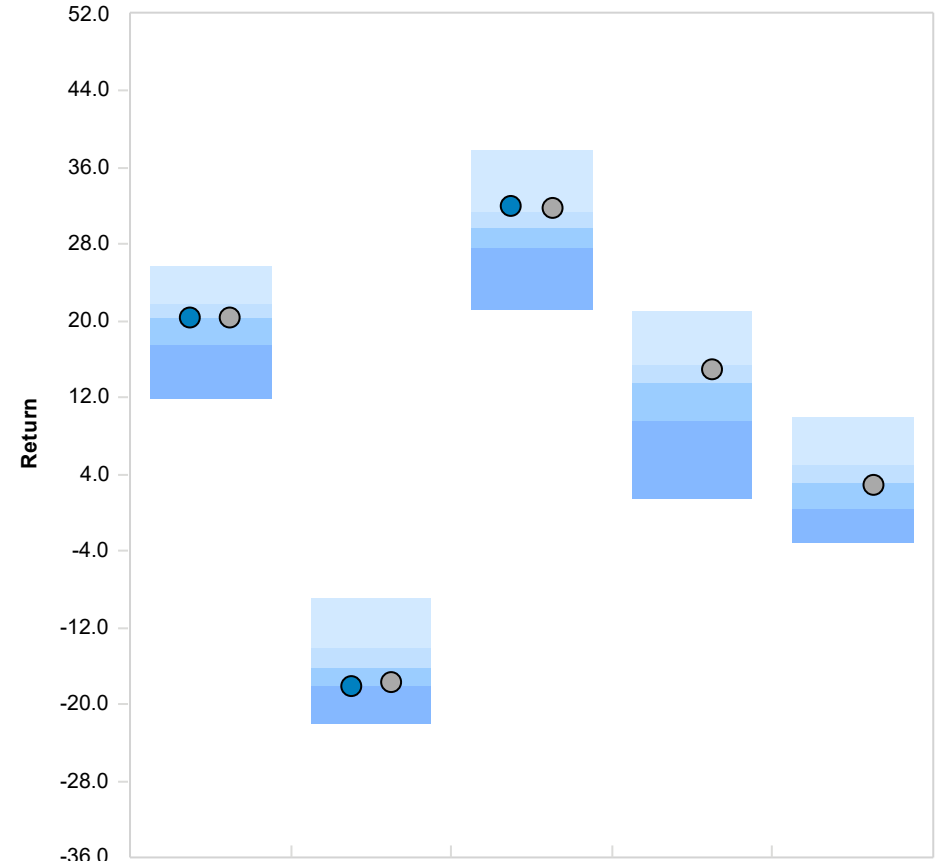


Peer Group Analysis - Large Blend



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	2.62 (21)	2.62 (21)	23.75 (45)	7.86 (51)	N/A
Index	2.63 (20)	2.63 (20)	23.81 (44)	8.01 (48)	13.86 (40)
Median	2.05	2.05	23.23	7.88	13.39

Peer Group Analysis - Large Blend



	4 Quarters Ending Sep-2023	4 Quarters Ending Sep-2022	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019
Investment	20.37 (52)	-18.01 (75)	32.07 (21)	N/A	N/A
Index	20.46 (50)	-17.63 (70)	31.88 (22)	15.00 (30)	2.92 (52)
Median	20.44	-16.16	29.68	13.54	3.10

Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	6.17 (30)	3.25 (51)	10.00 (68)	12.16 (26)	-3.29 (52)	8.41 (40)
Index	6.23 (27)	3.22 (52)	10.02 (67)	12.07 (30)	-3.25 (48)	8.39 (41)
Median	5.76	3.28	10.47	11.64	-3.28	8.07

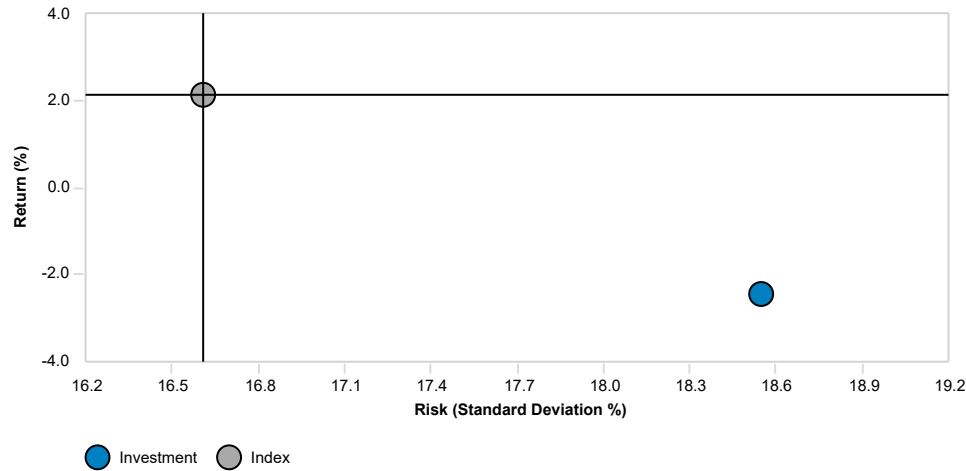
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-2.42	18.55	-0.25	93.97	6	112.49	6
Index	2.17	16.61	-0.02	100.00	6	100.00	6

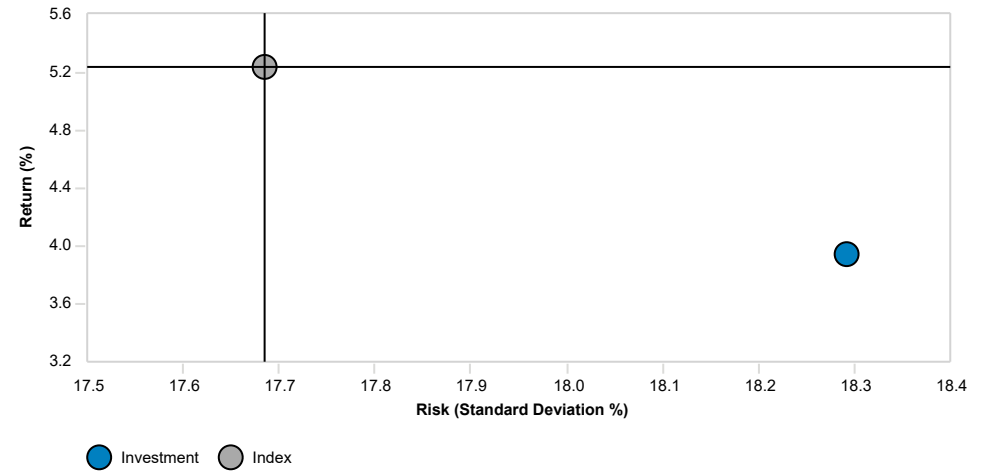
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.94	18.29	0.17	97.23	12	101.78	8
Index	5.24	17.69	0.24	100.00	12	100.00	8

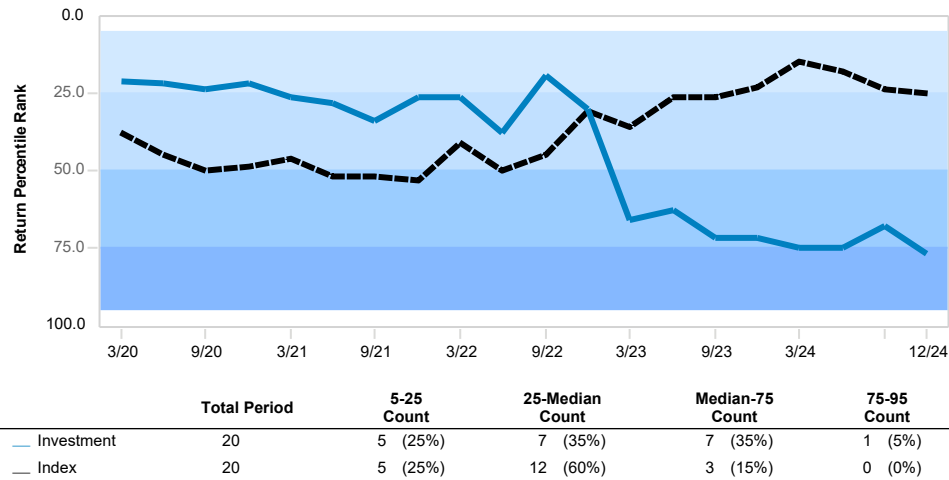
Risk and Return 3 Years



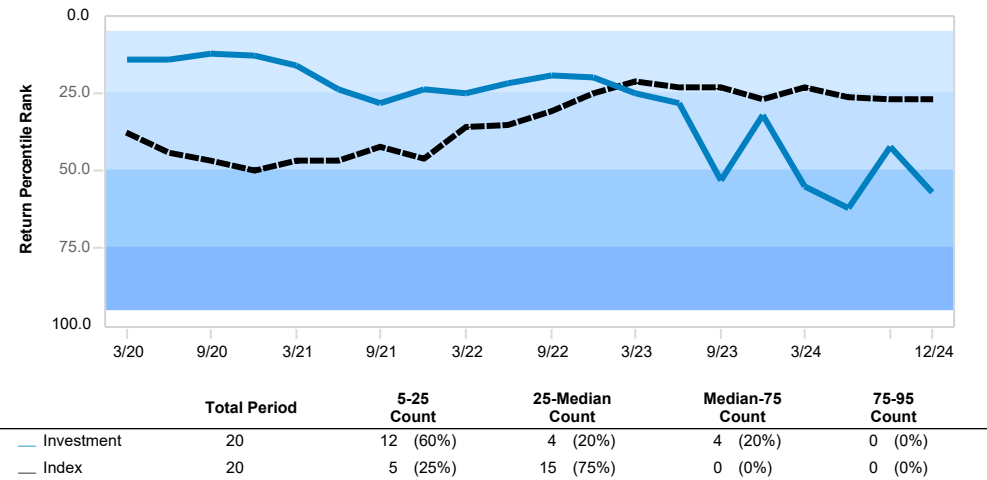
Risk and Return 5 Years



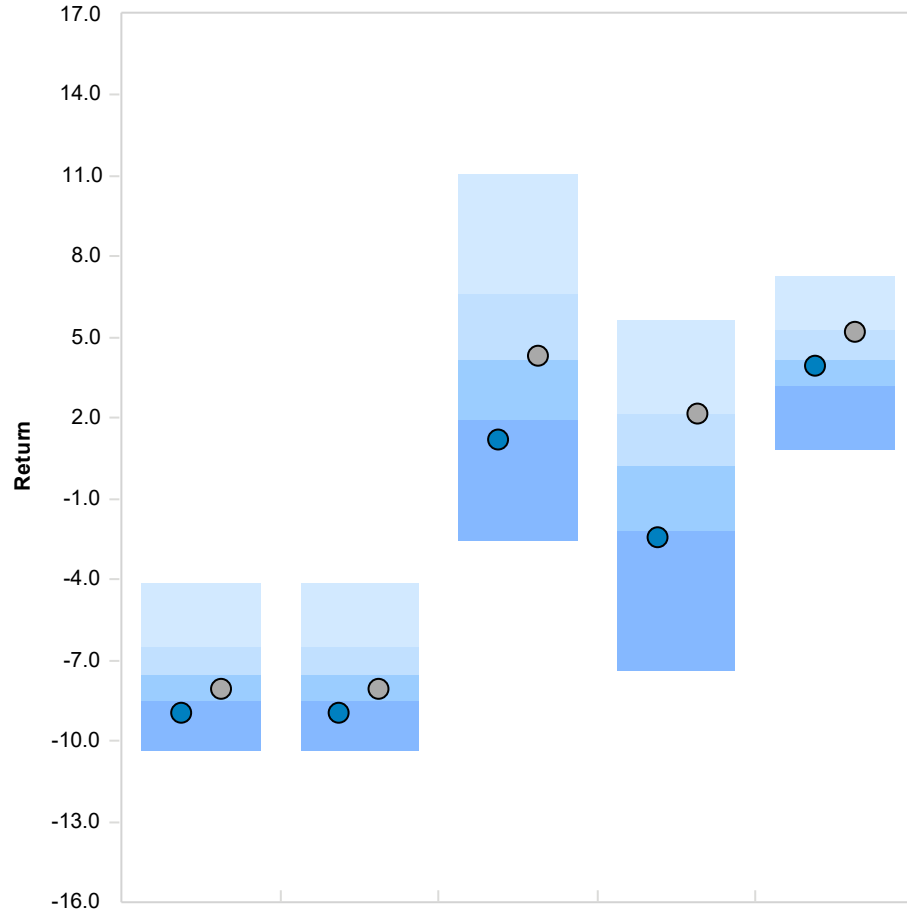
3 Year Rolling Percentile Rank Foreign



5 Year Rolling Percentile Rank Foreign

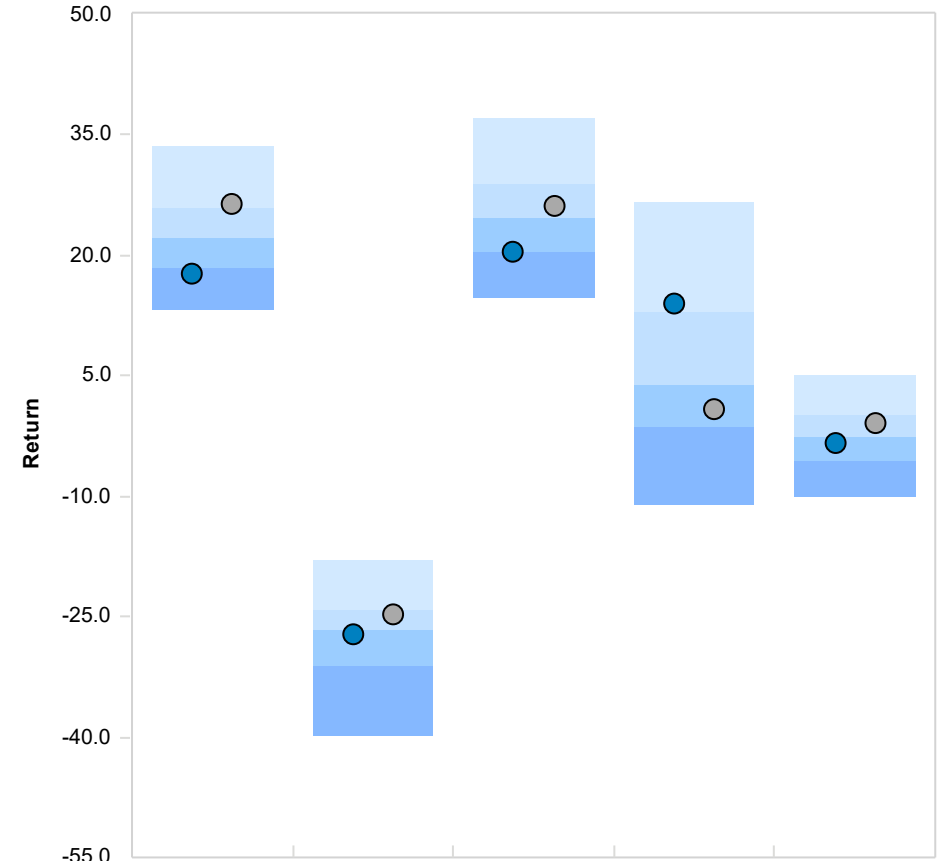


Peer Group Analysis - Foreign



	QTR	FYTD	1 YR	3 YR	5 YR
● Investment	-8.95 (85)	-8.95 (85)	1.22 (80)	-2.42 (77)	3.94 (57)
● Index	-8.06 (64)	-8.06 (64)	4.35 (49)	2.17 (25)	5.24 (27)
Median	-7.51	-7.51	4.19	0.22	4.19

Peer Group Analysis - Foreign



	4 Quarters Ending Sep-2023	4 Quarters Ending Sep-2022	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019
● Investment	17.70 (80)	-27.28 (55)	20.50 (75)	14.04 (23)	-3.34 (58)
● Index	26.31 (24)	-24.75 (28)	26.29 (37)	0.93 (62)	-0.82 (32)
Median	22.20	-26.73	24.62	3.76	-2.63

Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	9.45 (15)	-0.04 (48)	1.62 (91)	12.14 (17)	-7.61 (84)	3.05 (37)
Index	7.33 (49)	-0.17 (53)	5.93 (33)	10.47 (46)	-4.05 (36)	3.22 (30)
Median	7.25	-0.09	4.92	10.27	-4.76	2.71

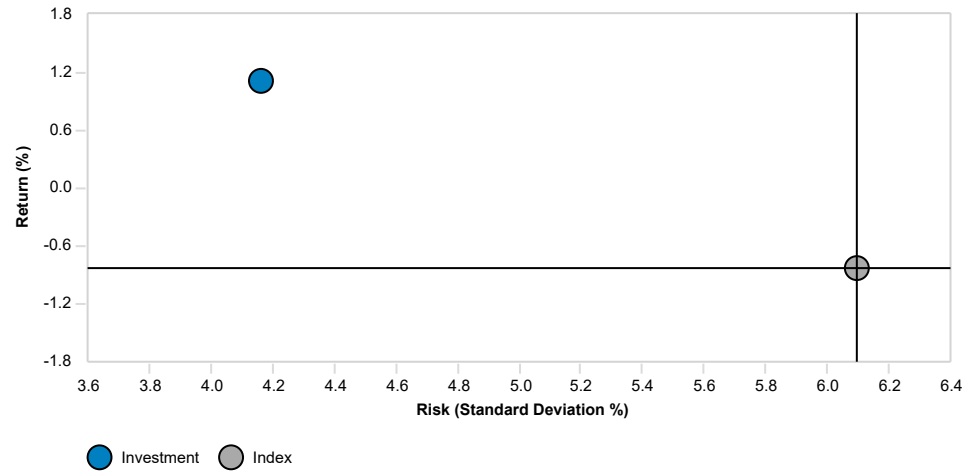
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	1.12	4.16	-0.67	75.13	8	57.08	4
Index	-0.83	6.09	-0.76	100.00	5	100.00	7

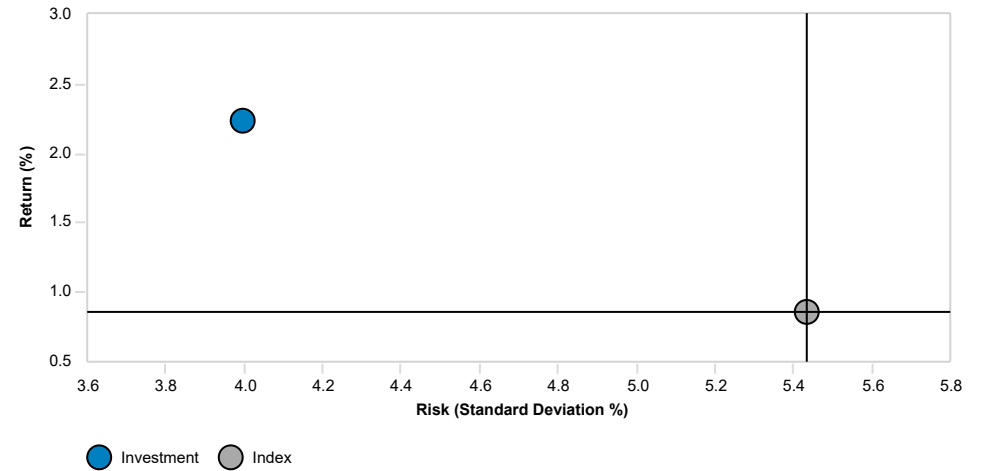
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.25	4.00	-0.03	80.37	14	60.08	6
Index	0.86	5.44	-0.27	100.00	12	100.00	8

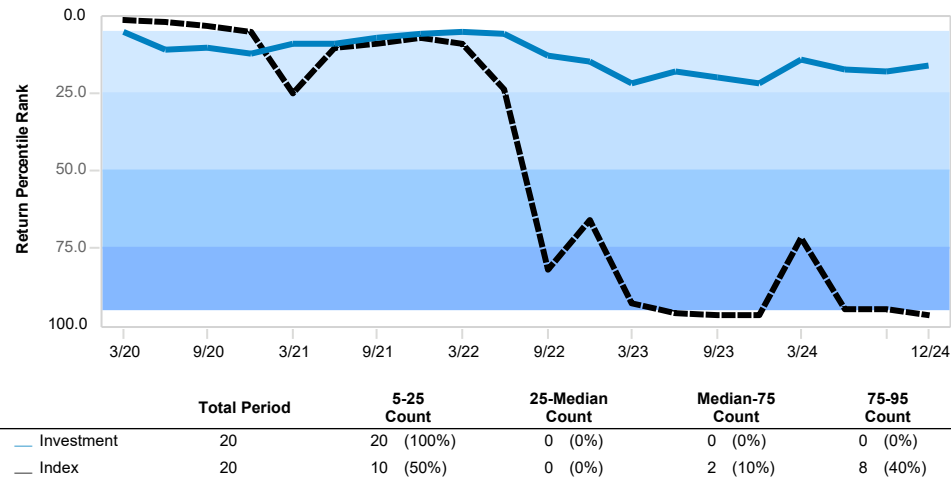
Risk and Return 3 Years



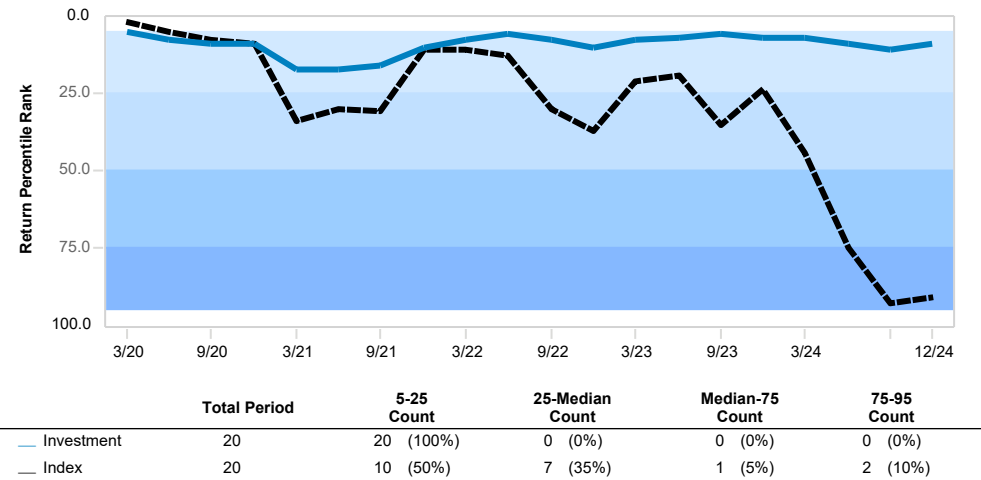
Risk and Return 5 Years



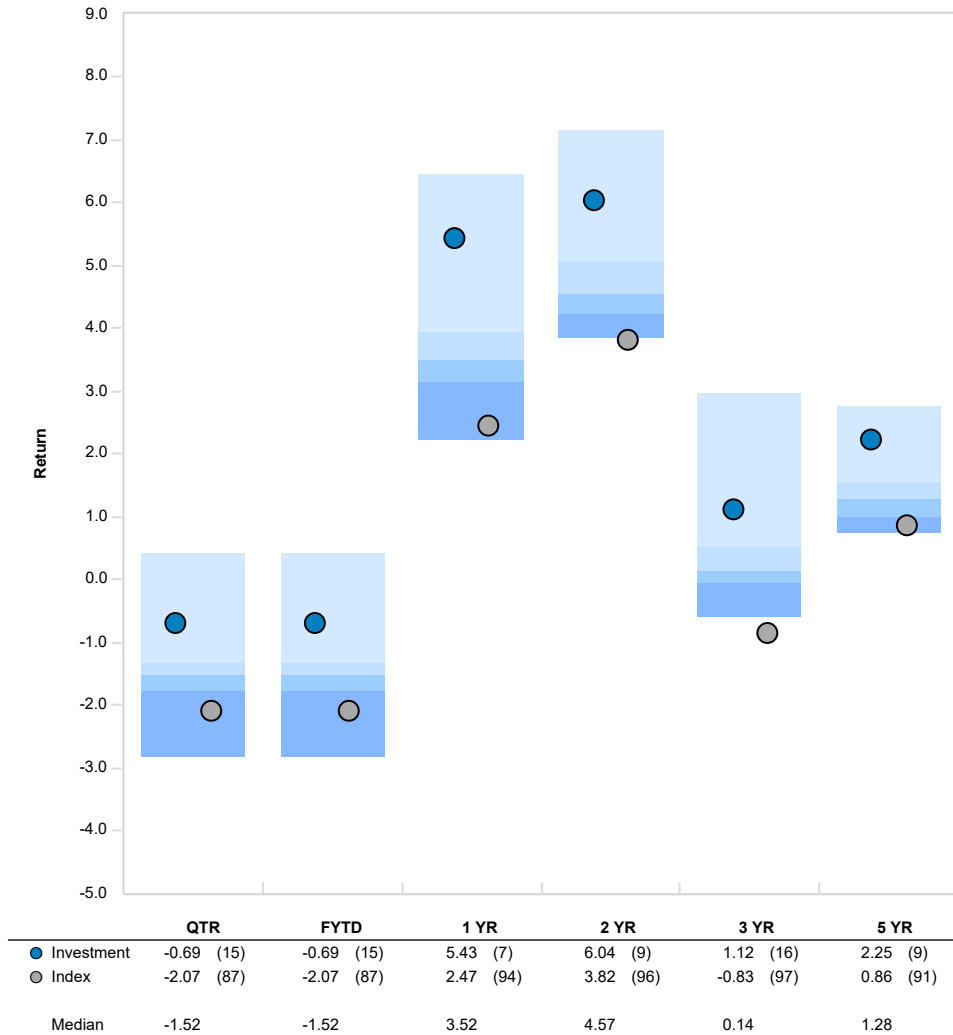
3 Year Rolling Percentile Rank IM U.S. Intermediate Duration (SA+CF)



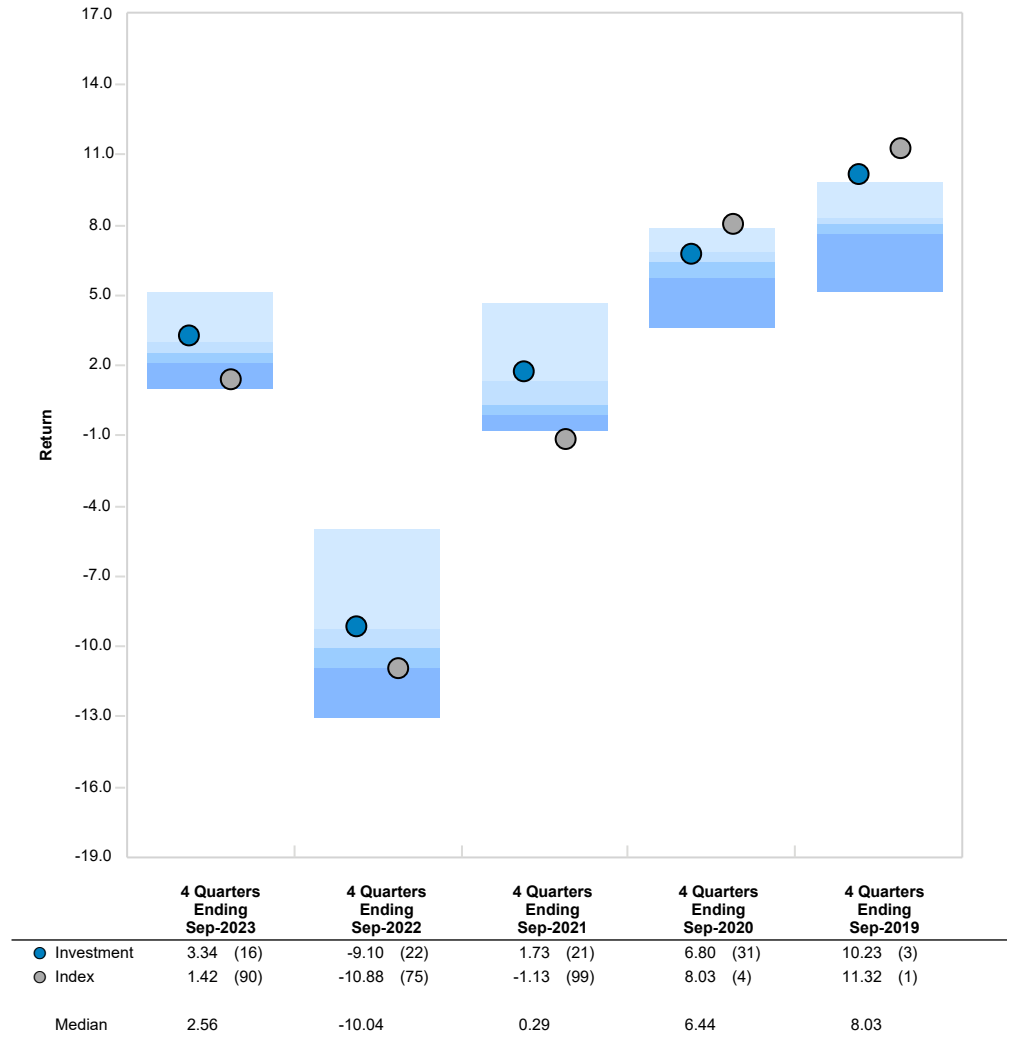
5 Year Rolling Percentile Rank IM U.S. Intermediate Duration (SA+CF)



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



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



Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	3.83 (85)	1.19 (6)	1.05 (8)	4.18 (86)	0.01 (15)	0.17 (12)
Index	4.60 (23)	0.46 (91)	-0.42 (96)	5.50 (24)	-1.89 (88)	-0.75 (81)
Median	4.23	0.74	0.14	4.72	-0.82	-0.48

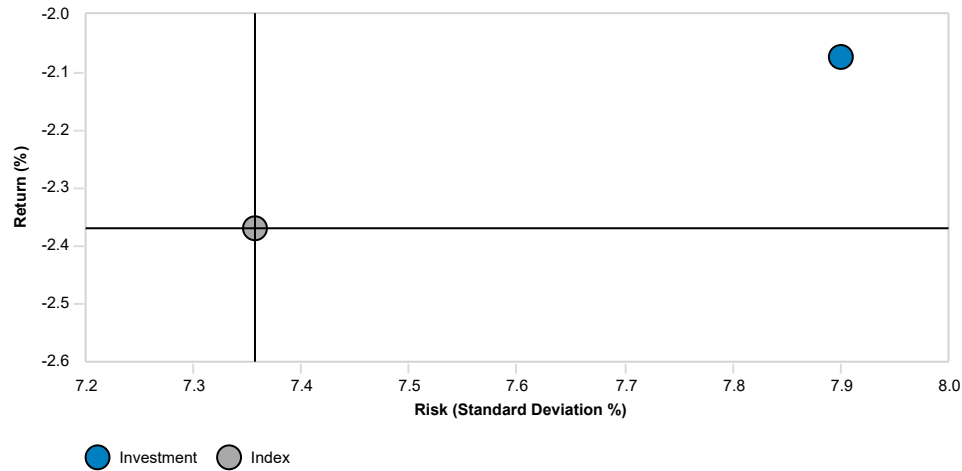
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-2.07	7.90	-0.65	110.39	5	102.37	7
Index	-2.37	7.36	-0.74	100.00	5	100.00	7

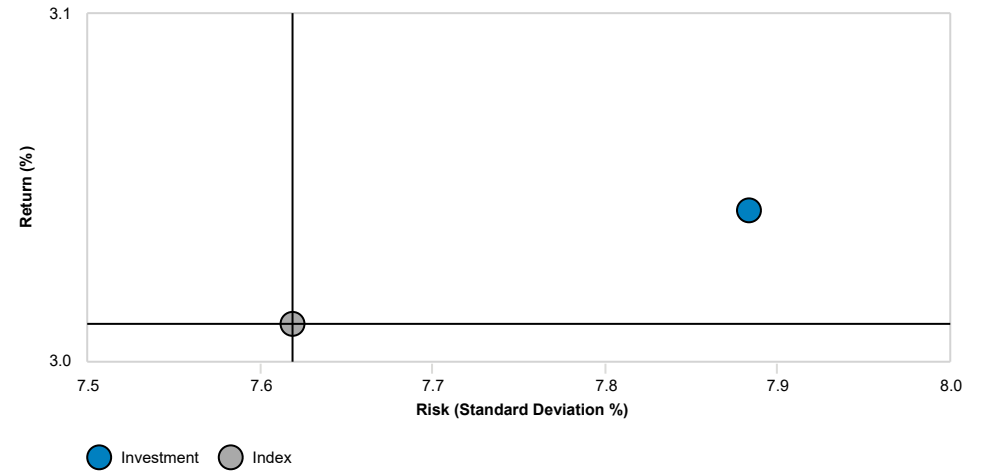
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.04	7.88	0.10	101.13	11	100.76	9
Index	3.01	7.62	0.10	100.00	12	100.00	8

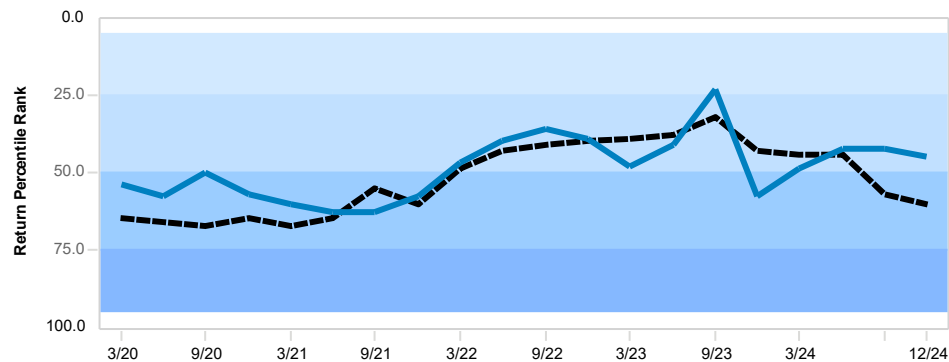
Risk and Return 3 Years



Risk and Return 5 Years

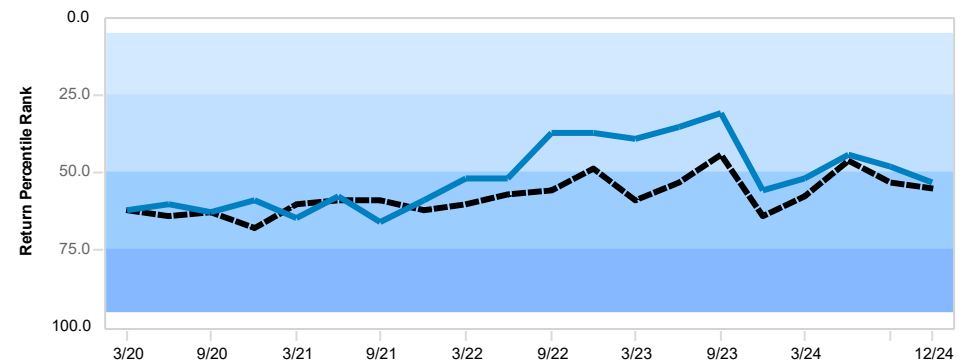


3 Year Rolling Percentile Rank IM U.S. Open End Private Real Estate (SA+CF)



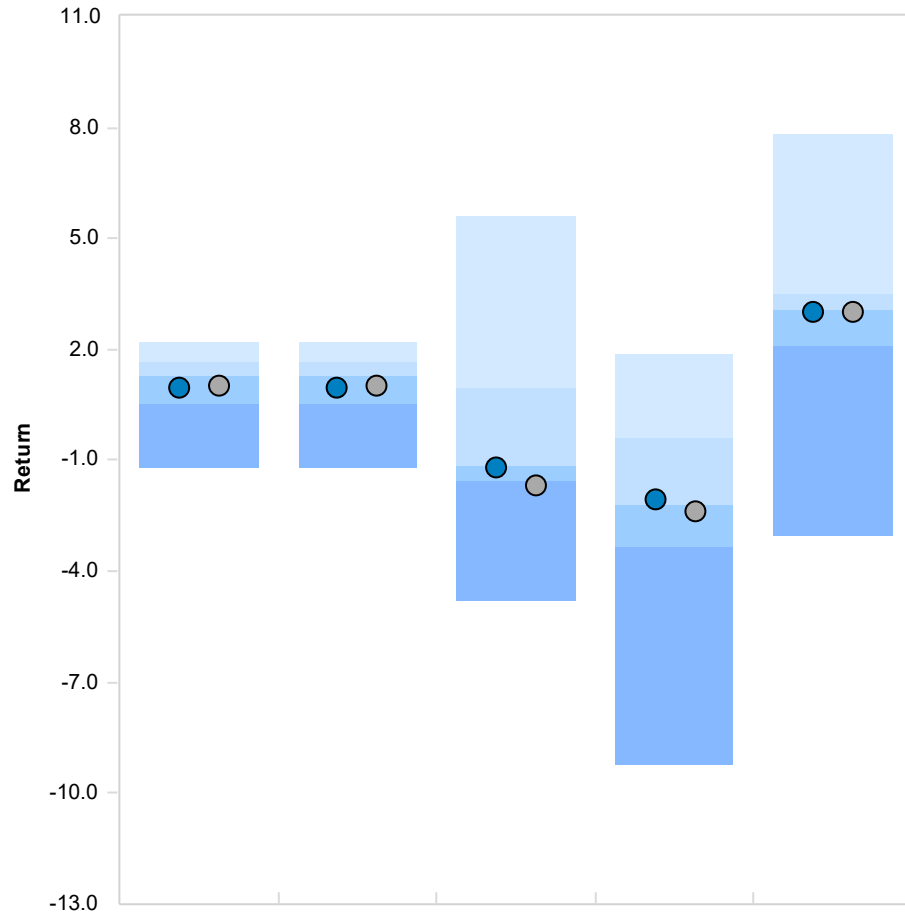
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	1 (5%)	11 (55%)	8 (40%)	0 (0%)
Index	20	0 (0%)	10 (50%)	10 (50%)	0 (0%)

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



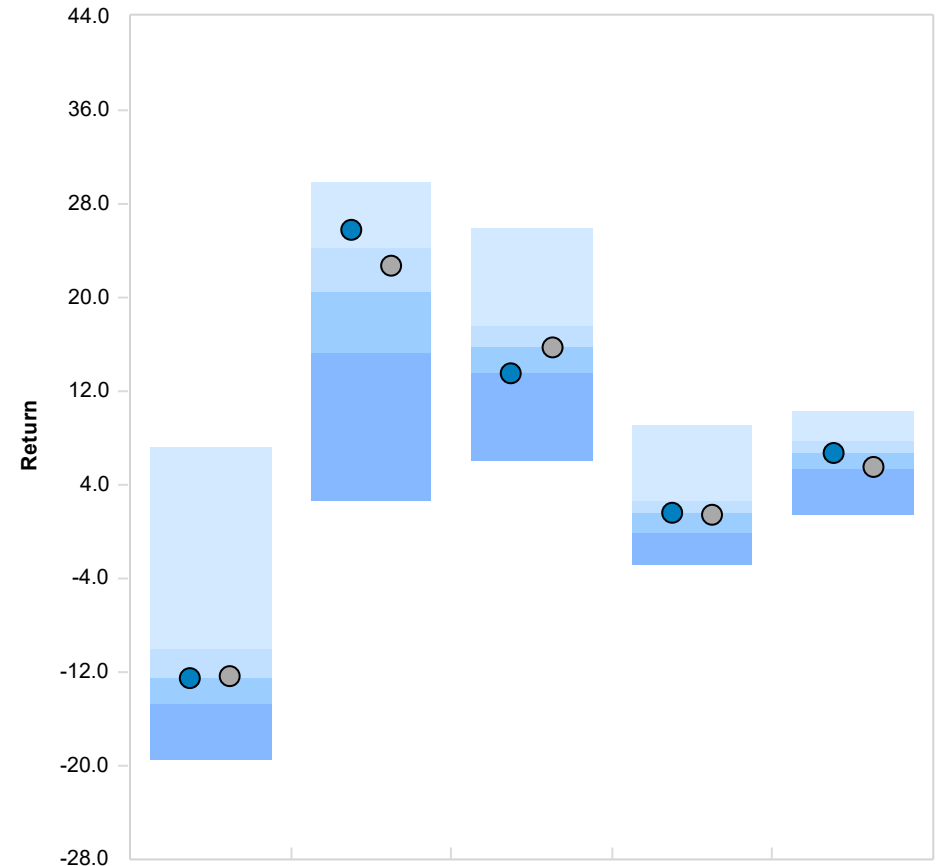
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	7 (35%)	13 (65%)	0 (0%)
Index	20	0 (0%)	3 (15%)	17 (85%)	0 (0%)

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



	QTR	FYTD	1 YR	3 YR	5 YR
Investment	0.97 (60)	0.97 (60)	-1.21 (56)	-2.07 (45)	3.04 (53)
Index	1.03 (55)	1.03 (55)	-1.67 (77)	-2.37 (60)	3.01 (55)
Median	1.30	1.30	-1.13	-2.22	3.07

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



	4 Quarters Ending Sep-2023	4 Quarters Ending Sep-2022	4 Quarters Ending Sep-2021	4 Quarters Ending Sep-2020	4 Quarters Ending Sep-2019
Investment	-12.54 (54)	25.79 (17)	13.51 (75)	1.62 (52)	6.81 (49)
Index	-12.40 (48)	22.76 (39)	15.75 (50)	1.49 (58)	5.59 (74)
Median	-12.47	20.46	15.73	1.62	6.80

Comparative Performance

	1 Qtr Ending Sep-2024	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023
Investment	0.25 (52)	-0.18 (30)	-2.22 (62)	-5.99 (82)	-2.22 (47)	-2.22 (63)
Index	0.13 (66)	-0.63 (45)	-2.19 (57)	-5.22 (70)	-1.93 (42)	-2.86 (70)
Median	0.26	-0.69	-2.10	-4.20	-2.37	-2.02

**Miami Springs Police and Fire
Fee Analysis**

As of December 31, 2024

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Total Fund Composite	0.46	40,018,738	183,753	
Highland Capital Equity	0.40	6,508,456	26,034	0.40 % of Assets
Polen Capital	0.55	8,400,957	46,205	0.55 % of Assets
MassMutual Small Cap Opps (MSOOX)	0.65	2,206,485	14,342	0.65 % of Assets
Vanguard Total Stock Mkt Idx Adm (VTSAX)	0.04	4,295,052	1,718	0.04 % of Assets
Harding Loevner (HLMIX)	0.79	5,000,739	39,506	0.79 % of Assets
Highland Capital Fixed Income	0.25	10,717,687	26,794	0.25 % of Assets
ARA Core Property Fund	1.10	2,650,322	29,154	1.10 % of Assets

Fee information on this page is an illustrative estimate of management fees based on current reported portfolio values. Fee estimates do not reflect actual calculation methodologies or applicable carried interest.

Benchmark History
Investment Policy Benchmarks
As of December 31, 2024

Total Fund Historical Hybrid Composition		Total Equity Historical Hybrid Composition	
Allocation Mandate	Allocation Mandate	Allocation Mandate	Weight (%)
Jan-1973	Jul-2024	Jan-1996	
S&P 500 Index	S&P 500 Index	S&P 500 Index	100.00
Blmbg. U.S. Gov't/Credit	Russell 2000 Index		
	MSCI EAFE Index	Jan-2013	
Jan-2007	Bloomberg Intermed Aggregate Index	S&P 500 Index	58.00
S&P 500 Index	NCREIF Fund Index-Open End Diversified Core (EV)	Russell 1000 Growth Index	42.00
Blmbg. U.S. Gov't/Credit	90 Day U.S. Treasury Bill		
		Oct-2014	
Jan-2013		S&P 500 Index	50.00
S&P 500 Index		Russell 1000 Growth Index	33.30
Russell 1000 Growth Index		MSCI EAFE Index	16.70
Blmbg. U.S. Gov't/Credit			
		Jul-2018	
Oct-2014		S&P 500 Index	40.30
S&P 500 Index		Russell 1000 Growth Index	40.30
Russell 1000 Growth Index		MSCI EAFE Index	19.40
MSCI EAFE Index			
Blmbg. U.S. Gov't/Credit		Sep-2020	
NCREIF Fund Index-ODCE (VW)		S&P 500 Index	80.60
		MSCI EAFE Index	19.40
Jul-2018		Jul-2024	
S&P 500 Index		S&P 500 Index	72.60
Russell 1000 Growth Index		Russell 1000 Growth Index	27.40
MSCI EAFE Index			
Blmbg. U.S. Gov't/Credit		Highland Capital Historical Hybrid Composition	
NCREIF Fund Index-ODCE (VW)		Allocation Mandate	Weight (%)
		Jan-1973	
		S&P 500 Index	50.00
		Blmbg. U.S. Gov't/Credit	50.00
		Jan-2007	
		S&P 500 Index	60.00
		Blmbg. U.S. Gov't/Credit	40.00
		Oct-2014	
		S&P 500 Index	48.00
		Blmbg. U.S. Gov't/Credit	52.00
		Jul-2018	
		S&P 500 Index	45.00
		Blmbg. U.S. Gov't/Credit	55.00
Jan-2022			
S&P 500 Index			
MSCI EAFE Index			
Bloomberg Intermed Aggregate Index			
NCREIF Fund Index-Open End Diversified Core (EV)			
90 Day U.S. Treasury Bill			

Benchmark History
Investment Policy Benchmarks
As of December 31, 2024

Total Domestic Equity Policy

Allocation Mandate	Weight (%)
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Jul-2018

S&P 500 Index	50.00
Russell 1000 Growth Index	50.00

Sep-2020

S&P 500 Index	100.00
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Jul-2024

S&P 500 Index	90.00
Russell 2000 Index	10.00

Total Fixed Income Policy

Allocation Mandate	Weight (%)
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Jan-1973

Blmbg. U.S. Gov't/Credit	100.00
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Jan-2022

Bloomberg Intermed Aggregate Index	100.00
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Active Return	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
Alpha	- 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.
Beta	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
Consistency	- 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.
Distributed to Paid In (DPI)	- 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.
Down Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
Downside Risk	- 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.
Excess Return	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
Excess Risk	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
Information Ratio	- 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.
Public Market Equivalent (PME)	- 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.
R-Squared	- 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.
Return	- Compounded rate of return for the period.
Sharpe Ratio	- 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.
Standard Deviation	- 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.
Total Value to Paid In (TVPI)	- 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
Tracking Error	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
Treynor Ratio	- 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.
Up Market Capture	- 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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Methodology for this Award: For the 2022 Greenwich Quality Award for Overall U.S. Investment Consulting – Midsize Consultants – Between February and November 2022, Coalition Greenwich conducted interviews with 727 individuals from 590 of the largest tax-exempt funds in the United States. These U.S.-based institutional investors are corporate and union funds, public funds, and endowment and foundation funds, with either pension or investment pool assets greater than \$150 million. Study participants were asked to provide quantitative and qualitative evaluations of their asset management and investment consulting providers, including qualitative assessments of those firms soliciting their business and detailed information on important market trends.

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