
Delray Beach PFP Retiree Benefit

Investment Performance Review
Period Ending June 30, 2024

MARINER

2nd Quarter 2024 Market Environment

The Economy

- The US Federal Reserve (the Fed) continued on its stable trajectory, holding rates steady during the second quarter. Capital markets have struggled to accurately predict the pace and timing of future Fed actions, resulting in an up and down quarter. In its press release for the June meeting, the Fed continued to assert that “In considering any adjustments to the target range for the federal funds rate, the Committee will carefully assess incoming data, the evolving outlook, and the balance of risks.”
- The Fed’s prolonged pause in its rate-hiking cycle and the insertion of the word “any” in its December press release provided capital markets hope that the Fed may pivot in its stance and begin reducing rates to a less restrictive level in 2024. The Fed’s published June “Dot Plot” revised expectations from three quarter-point rate cuts during the year to just one quarter-point rate cut. If this projection were to materialize, it would result in the first rate cut since the COVID pandemic in 2020.
- Growth in the US labor market continued in June, as nonfarm payrolls increased by 206,000 while unemployment rose slightly from 3.8% at the end of the first quarter to 4.1% at the end of the second quarter. Federal Reserve Chair Jerome Powell has maintained that “an unexpected weakening in the labor market could also warrant a policy response,” later defining unexpected weakening as something that would occur outside of their general forecasts.

Equity (Domestic and International)

- US equity results were mixed for the quarter, with large-capitalization (cap) stocks strongly outpacing small-cap stocks. As market participants continue to revise projections of future Fed actions, they sought safety among large-cap stocks due to these companies lessened dependence on external financing. The S&P 500 Index rose a solid 4.3% for the quarter, but ended a two-quarter streak of double-digit gains.
- Large-cap equity benchmarks continue to experience top-heavy concentration among a limited number of stocks. The top 10 stocks in the S&P 500 Index make up nearly 36% of the index’s weight as of June 2024. Year-to-date, these 10 stocks have contributed to more than 60% of the benchmark’s total return.
- International stocks also continued to experience growth during the second quarter, but results were muted by a strengthening US Dollar (USD). USD performance of international stocks lagged local currency (LCL) returns in most regions for the quarter, albeit to varying degrees.

Fixed Income

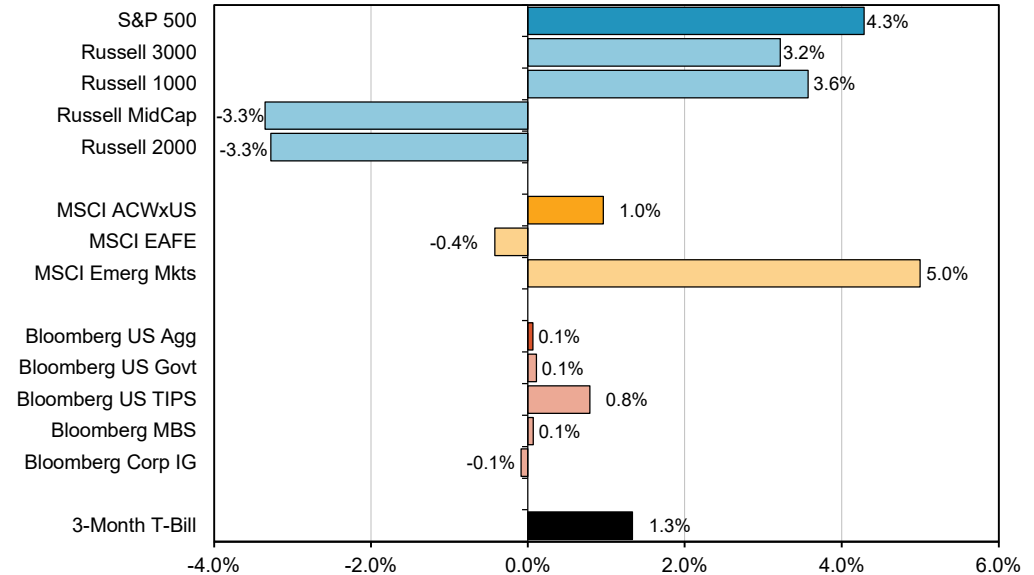
- Fixed-income markets remained largely steady during the quarter. While sticky inflation numbers and a robust job market prompted the Fed to keep the fed funds rate unchanged during the quarter, this lack of action also tempered expectations for the number of potential rate cuts in 2024.
- High-yield bonds outperformed investment-grade issues for the quarter, largely due to higher coupons. The high-yield index edged out the Bloomberg US Aggregate Bond Index, the bellwether bond benchmark, due to relative stability in both the yield curve and economic conditions.
- Global bonds continue to lag the domestic bond market, with the Bloomberg US Aggregate Bond Index outpacing the Global Aggregate ex-US Index by 2.2% for the quarter. The return gap between the two benchmarks continues to widen as the domestic index has outperformed the global index by 3.3% year-to-date.

Market Themes

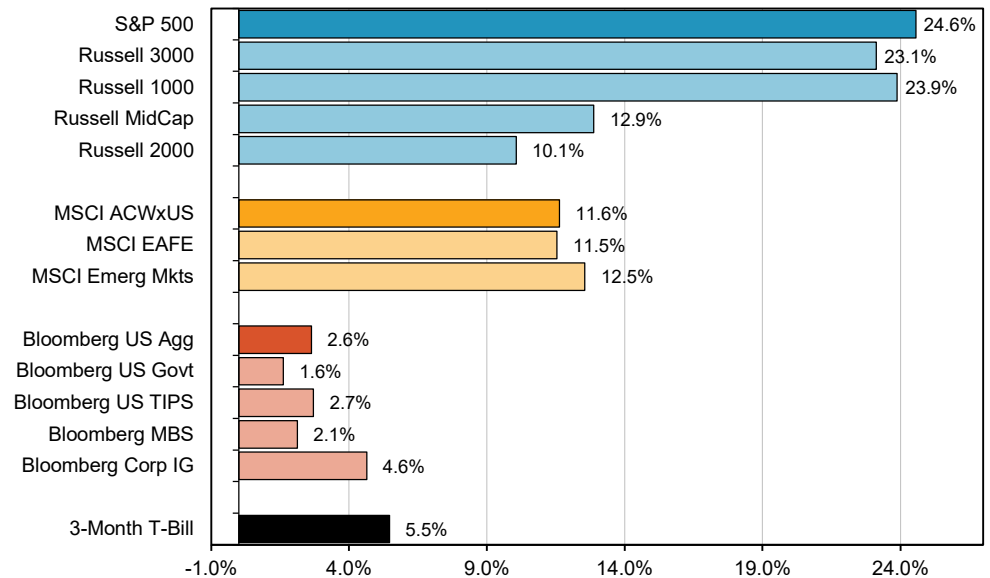
- Domestic and international equity markets posted strong results in the second quarter. Continuing their robust 2023 run, large-cap growth sectors continued to outpace their value counterparts in 2024, and by a wider margin than the prior year. The brief increased breadth markets experienced during of the first quarter did not continue during the second quarter, and so once again, large-cap growth stocks were the best-performing US asset category.
- Central banks remained vigilant in their stances to bring inflation under control. While inflation readings remain stubbornly elevated, signs of stable-to-cooling price pressures have shown up in most regions around the world. Domestically, job growth has slowed from a pace of 300,000+ month-over-month growth to just over 200,000 net new jobs.
- Policy rates were stable across most developed markets as central banks continued their tight monetary stances. Expectations of looser monetary policy have been frustrated by mixed economic data and central banks’ inaction so far this year.
- Ongoing military conflicts coupled with global economic uncertainty continue to act as headwinds to international market results. While global disruptions from the Russia-Ukraine conflict seemed to subside during the quarter, the proxy war in the Middle East has spread to other countries in the region and unsettled shipping channels globally.

- Performance in the domestic equity markets was disparate during the second quarter. After a more encouraging showing last quarter, where markets broadened out in terms of strength, large-cap stocks once again surged ahead while smaller-cap stocks weakened slightly. For the period, the large-cap S&P 500 and Russell 1000 indexes posted returns of 4.3% and 3.6%, respectively. The broad-cap Russell 3000 index lagged slightly, returning a more modest 3.2%. Outside of large-cap issues, the Russell Mid Cap and Russell 2000 indexes both experienced equivalent pullbacks during the quarter, with each benchmark returning -3.3%.
- International developed market equities were muted during the quarter. The MSCI ACWI ex US Index posted a modest 1.0% gain for the quarter, while the MSCI EAFE Index fell slightly, posting a return of -0.4% in USD terms. International emerging market (EM) equities posting a 5.0% return for the quarter, outpacing the performance of their developed market counterparts. Much of the solid performance in the EM region was attributed to a bounce back in China, Taiwan, and Singapore, each posting strong USD results during the quarter.
- Most broad fixed-income indexes rose slightly during the second quarter of 2024. The Bloomberg US Aggregate Index returned 0.1% for the quarter, while investment-grade corporate bonds slid -0.1%. The TIPS market was the best-performing sector during the quarter, outpacing the rest of the domestic fixed-income categories with a return of 0.8%.
- Large-cap US equity indexes have been a performance juggernaut over the trailing 12 months. The S&P 500 Index has gained 24.6% while the Russell 1000 Index was nearly as strong with a return of 23.9%. The weakest performing class of domestic equities for the year was the small-cap Russell 2000 Index, which still posted a double-digit return of 10.1% over the last 12 months.
- International markets also showcased healthy performance for the one-year trailing period. The MSCI EM Index was the best international performer, returning 12.5%, while the MSCI EAFE and MSCI ACWI ex US indexes posted returns of 11.5% and 11.6%, respectively.
- Bond markets posted positive but muted results for the trailing one-year period which substantially lagged equity benchmark results. Investment-grade corporate bonds led the way, up by 4.6% for the year. Meanwhile, Treasuries lagged, returning just 1.6% over the period. The bellwether fixed-income benchmark, the Bloomberg US Aggregate Bond Index, returned a mild 2.6% for the year.

Quarter Performance

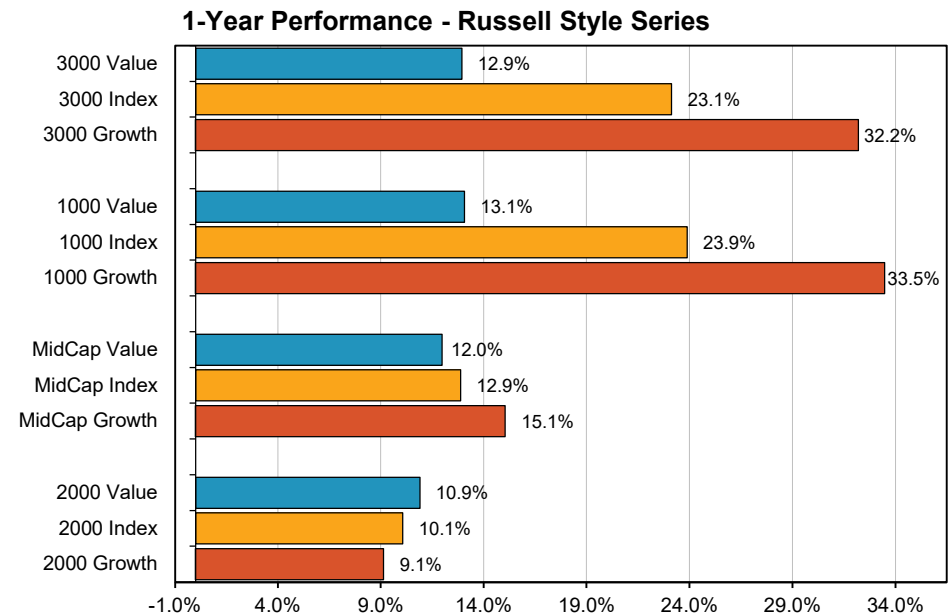
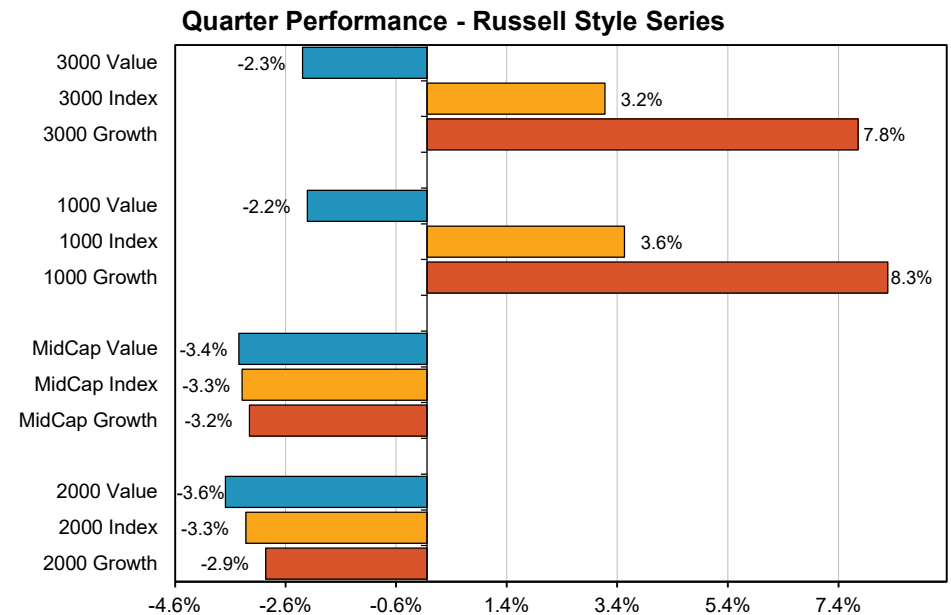


1-Year Performance



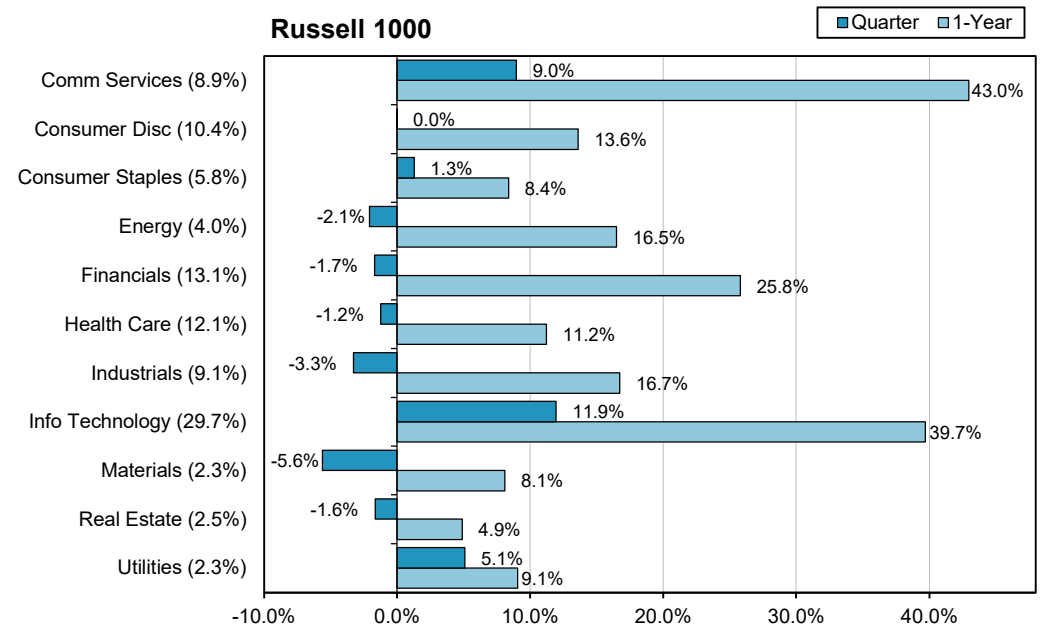
Source: Investment Metrics

- Domestic equity benchmarks posted mixed absolute results for the second quarter, but growth stocks outpaced their value counterparts at each capitalization level. The best-performing area of the equity market continues to be large-cap growth with the Russell 1000 Growth Index returning 8.3% for the quarter. The worst-performing segment of the domestic equity market for the second consecutive quarter was small-cap value with the Russell 2000 Value index falling -3.6% for the quarter. From a capitalization perspective, large-cap stocks once again led their small-cap counterparts, with the Russell 1000 Index returning 3.2% and the Russell 2000 Index falling by -3.3%.
- The market's growth-led rally continued during the quarter, and this disparity was most visible in large-cap style performance, with the Russell 1000 Growth Index outpacing the Russell 1000 Value Index by double digits (10.1%). While mid-cap and small-cap growth fell in absolute terms for the quarter, the mid- and small-cap growth indexes held up slightly better than their value counterparts. This quarter's results followed the theme of large-cap growth stocks being the best-performing segment of the domestic equity market over the past several years.
- For the year the Russell 1000 Growth Index returned an impressive 33.5%, leading the way among style and market capitalization classifications. Much of this strong performance has been attributable to the emergence of the "Magnificent 7" stocks, which have dominated the large-cap indexes over the past several years. The seven biggest stocks in the Russell 1000 Index contributed more than 70% of the index's total performance in the trailing 12-month period.
- The weakest performing index for the year was the Russell 2000 Growth, which still posted a solid return of 9.1%.
- The dominance of growth sectors is evident in the chart with the broad-cap, large-cap, and mid-cap benchmarks handily outperforming the core and value indexes for the trailing one-year period. The performance gap between the Russell 1000 Growth Index and the Russell 1000 Value Index was a staggering 20.4% for the year while the mid-cap growth index edged past the mid-cap value index by just 3.1%. Small-cap stocks bucked the growth-dominance trend with the Russell 2000 Value Index posting a return of 10.9% versus a return of 9.1% for the Russell 2000 Growth Index.

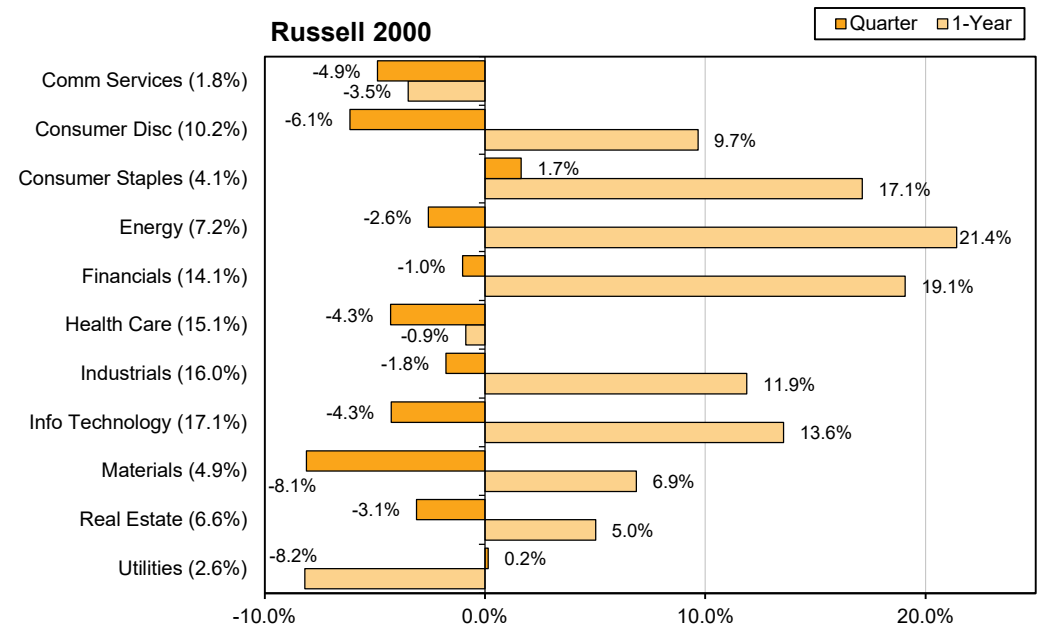


Source: Investment Metrics

- Economic sector performance was choppy during the second quarter. This quarter broke the preceding trend of broader participation in the equity market's rally. Only five of the 11 economic sectors posted positive absolute returns for the quarter, with information technology (11.9%), communication services (9.0%), and utilities (5.1%) leading the way.
- In contrast, full-year results were more consistent as all 11 economic sectors finished the year in positive territory. Of the 11 sectors, three (communication services, up 43.0%; information technology, up 39.7%; and financials, up 25.8%) were up by more than 25.0% for the past year. With their more than 40% combined weight in the benchmark, these three sectors were also the only ones to outpace the Russell 1000 Index's return of 23.9%. Despite solid positive performance, utilities (up 9.1%), consumer staples (8.4%), materials (8.1%), consumer staples (8.4%), and real estate (4.9%) were all relative detractors for the year with their single-digit returns.



- Nine of the 11 small-cap economic sectors lost value during the quarter. Consumer staples (up 1.7%), and utilities (0.2%) were the only two sectors to post gains for the quarter. Materials was the worst-performing sector posting a loss of -8.1% for the quarter. While not always the case, small-cap stocks generally have greater dependence on liquidity and access to capital which can lead to lagging performance relative to large-cap stocks during periods of restrictive monetary policy.
- Similar to large-cap sector performance, eight of the 11 small-cap sectors were positive over the trailing one-year period. Energy posted the strongest sector performance with a return of 21.4%, followed closely by the financials sector return of 19.1%. Consumer staples (up 17.1%), information technology (13.6%), and industrials (11.9%) each produced double-digit results for the period. Three sectors (communication services, health care, and utilities) posted negative results during the period.



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 June 30, 2024

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Microsoft Corp	6.7%	6.4%	32.3%	Information Technology
Apple Inc	6.2%	23.0%	9.2%	Information Technology
NVIDIA Corp	5.9%	36.7%	192.1%	Information Technology
Amazon.com Inc	3.5%	7.1%	48.2%	Consumer Discretionary
Meta Platforms Inc Class A	2.2%	3.9%	76.1%	Communication Services
Alphabet Inc Class A	2.2%	20.8%	52.3%	Communication Services
Alphabet Inc Class C	1.9%	20.6%	51.8%	Communication Services
Eli Lilly and Co	1.5%	16.6%	94.5%	Health Care
Berkshire Hathaway Inc Class B	1.5%	21.5%	88.4%	Financials
Broadcom Inc	1.4%	-3.3%	19.3%	Information Technology

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Super Micro Computer Inc	1.6%	-18.9%	228.7%	Information Technology
MicroStrategy Inc Class A	0.8%	-19.2%	302.3%	Information Technology
Carvana Co Class A	0.5%	46.4%	396.6%	Consumer Discretionary
e.l.f. Beauty Inc	0.4%	7.5%	84.5%	Consumer Staples
Comfort Systems USA Inc	0.4%	-4.2%	86.0%	Industrials
Onto Innovation Inc	0.4%	21.3%	88.5%	Information Technology
FTAI Aviation Ltd	0.4%	54.0%	234.2%	Industrials
Light & Wonder Inc Ordinary Shares	0.4%	2.7%	52.5%	Consumer Discretionary
Insmed Inc	0.4%	147.0%	217.5%	Health Care
Fabrinet	0.4%	29.5%	88.5%	Information Technology

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
GameStop Corp Class A	0.0%	97.2%	1.8%	Consumer Discretionary
Petco Health and Wellness Co	0.0%	65.8%	-57.5%	Consumer Discretionary
Alnylam Pharmaceuticals Inc	0.1%	62.6%	27.9%	Health Care
United Therapeutics Corp	0.0%	38.7%	44.3%	Health Care
Cirrus Logic Inc	0.0%	37.9%	57.6%	Information Technology
NCR Atleos Corp	0.0%	36.8%	N/A	Financials
NVIDIA Corp	5.9%	36.7%	192.1%	Information Technology
AMC Entertainment	0.0%	33.9%	-87.2%	Communication Services
First Solar Inc	0.0%	33.6%	18.6%	Information Technology
Cava Group Inc	0.0%	32.4%	126.5%	Consumer Discretionary

Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
AST SpaceMobile Inc Ordinary Shares	0.1%	300.3%	147.0%	Communication Services
Emergent BioSolutions Inc	0.0%	169.6%	-7.2%	Health Care
Novavax Inc	0.1%	164.9%	70.4%	Health Care
Rent the Runway Inc Class A	0.0%	154.3%	-55.6%	Consumer Discretionary
Insmed Inc	0.4%	147.0%	217.5%	Health Care
Innodata Inc	0.0%	124.7%	30.9%	Industrials
NuScale Power Corp Class A	0.0%	120.2%	71.9%	Industrials
TransMedics Group Inc	0.2%	103.7%	79.4%	Health Care
Vital Farms Inc Ordinary Shares	0.1%	101.2%	290.1%	Consumer Staples
Matterport Inc Ordinary Shares	0.0%	97.8%	41.9%	Information Technology

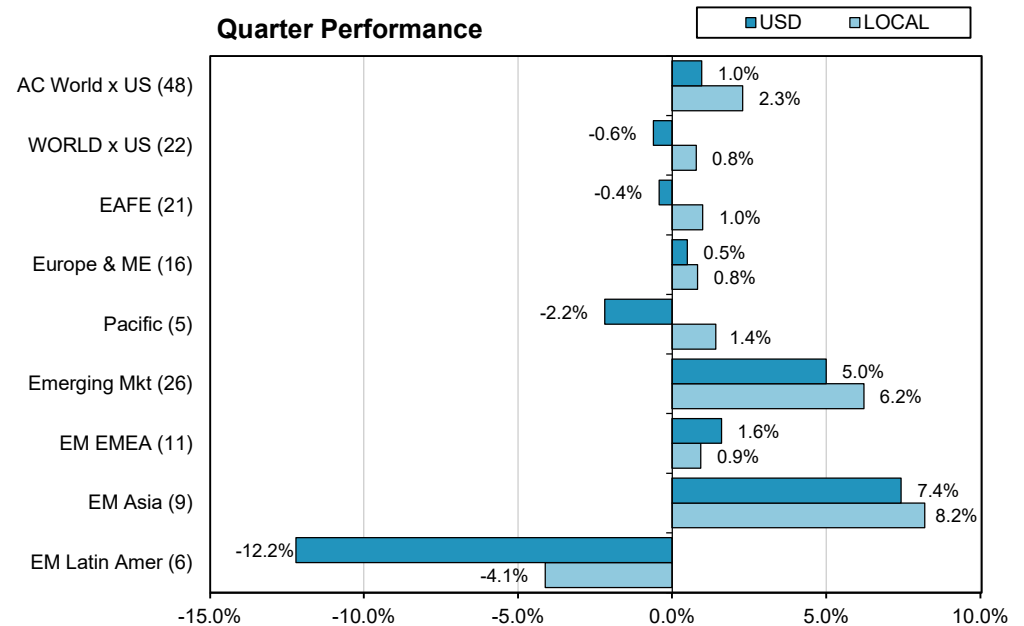
Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Ginkgo Bioworks Holdings Inc	0.0%	-71.2%	-82.0%	Materials
Hertz Global Holdings Inc	0.0%	-54.9%	-80.8%	Industrials
10x Genomics Inc	0.0%	-48.2%	-65.2%	Health Care
DoubleVerify Holdings Inc	0.0%	-44.6%	-50.0%	Information Technology
UiPath Inc Class A	0.0%	-44.1%	-23.5%	Information Technology
Walgreens Boots Alliance Inc	0.0%	-43.5%	-54.6%	Consumer Staples
Fortrea Holdings Inc	0.0%	-41.9%	-31.4%	Health Care
Five Below Inc	0.0%	-39.9%	-44.6%	Consumer Discretionary
Leggett & Platt Inc	0.0%	-39.9%	-58.8%	Consumer Discretionary
Unity Software Inc Ordinary Shares	0.0%	-39.1%	-62.6%	Information Technology

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Aerovate Therapeutics Inc	0.0%	-94.4%	-90.3%	Health Care
Marinus Pharmaceuticals Inc	0.0%	-87.1%	-89.2%	Health Care
Cerence Inc Ordinary Shares	0.0%	-82.0%	-90.3%	Information Technology
Velo3D Inc	0.0%	-79.2%	-95.6%	Industrials
Akoustis Technologies Inc	0.0%	-77.7%	-95.9%	Information Technology
Gritstone Bio Inc	0.0%	-76.0%	-68.3%	Health Care
Ovid Therapeutics Inc	0.0%	-74.8%	-76.5%	Health Care
Maxeon Solar Technologies Ltd	0.0%	-74.4%	-97.0%	Information Technology
Zentalis Pharmaceuticals Inc	0.0%	-74.0%	-85.5%	Health Care
Nikola Corp	0.0%	-73.8%	-80.2%	Industrials

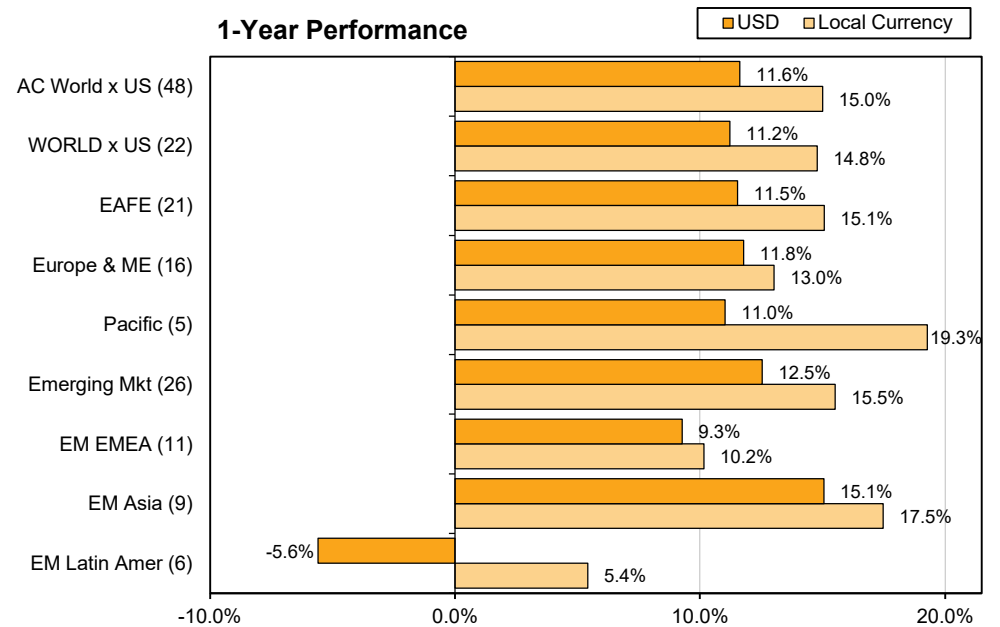
Source: Morningstar Direct

- Results among the broad international equity indexes were mixed during the quarter, echoing the performance of major domestic indexes. The strengthening USD relative to many major currencies during the quarter was a detractor to the USD performance of regional benchmark returns across most regions. The developed-market MSCI EAFE Index returned a muted 1.0% in LCL terms but fell -0.4% in USD terms. The MSCI Emerging Markets Index was the best-performing broad index and rose by 5.0% in USD and 6.2% in LCL terms for the quarter.
- Latin America continued to struggle during the quarter in both USD and LCL terms. The cyclical demand for commodity exports in the region has resulted in greater volatility due to ongoing uncertainty over central bank policies and future global demand.
- The heaviest-weighted country in the emerging market index (China) rebounded 7.1% during the quarter. The Chinese economy grew at a rate of 5.2% in 2023, lower than its pre-pandemic rate of 6.0% and has been a headwind for performance. Troubles in the commercial property and banking sectors have also created challenges for growth in the region. Despite the additive performance in the region, the Chinese banking sector underwent heavy consolidation during the second quarter amid regional bank failures across the country.
- Much like domestic markets, trailing one-year results for international developed and emerging markets benchmarks were strong. Higher LCL versus USD returns for most international benchmarks demonstrate the USD's strength over the trailing one-year period.
- Most broad and regional indexes were positive for the trailing 12 months in both USD and LCL terms. The sole exception was EM Latin America, where USD strength turned the region's positive LCL performance negative in USD terms. In LCL terms, the MSCI Pacific Index led the way with a return of 19.3% for the trailing year. USD returns for the region were still strong but returned a more muted 11.0%. The EM Asia regional index posted the strongest relative USD performance, returning 15.1% over the trailing 12 months.

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 June 30, 2024

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	4.1%	0.5%	10.1%
Consumer Discretionary	11.5%	-9.0%	0.1%
Consumer Staples	8.5%	-1.6%	-6.8%
Energy	4.1%	1.3%	15.9%
Financials	20.0%	3.3%	24.2%
Health Care	13.5%	4.7%	11.5%
Industrials	16.9%	-0.8%	15.0%
Information Technology	9.5%	0.2%	24.1%
Materials	6.7%	-3.2%	8.5%
Real Estate	2.0%	-6.7%	7.6%
Utilities	3.1%	0.8%	-0.6%
Total	100.0%	-0.4%	11.5%

MSCI - ACWixUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.3%	4.0%	5.7%
Consumer Discretionary	11.1%	-4.8%	1.9%
Consumer Staples	7.2%	-1.7%	-5.9%
Energy	5.5%	1.3%	18.9%
Financials	21.7%	2.6%	18.7%
Health Care	9.5%	3.8%	10.0%
Industrials	13.7%	-0.5%	13.1%
Information Technology	14.0%	5.2%	28.3%
Materials	7.1%	-1.9%	5.1%
Real Estate	1.8%	-4.7%	4.5%
Utilities	3.1%	2.2%	3.7%
Total	100.0%	1.0%	11.6%

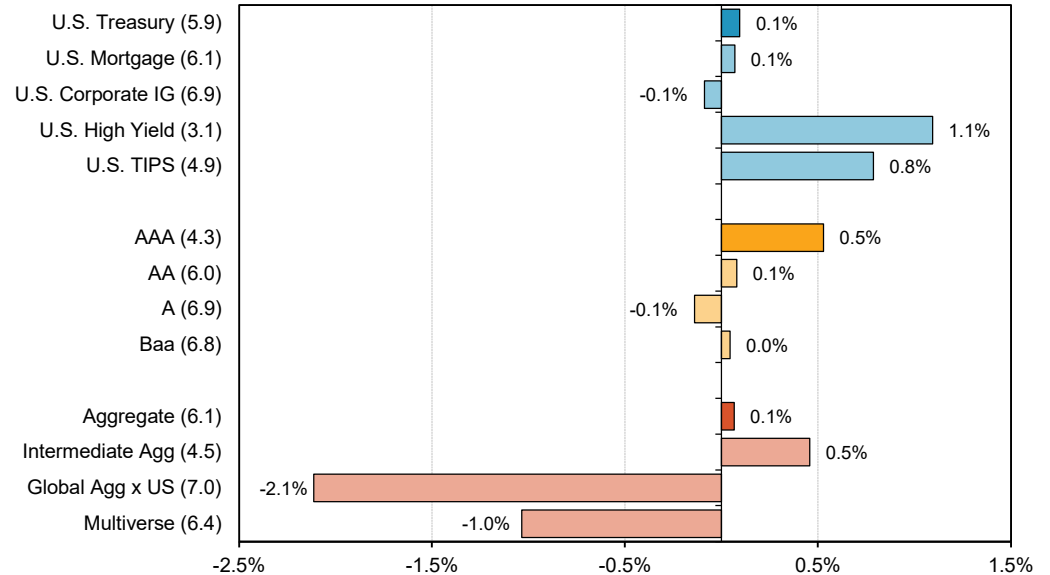
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	8.9%	8.2%	2.7%
Consumer Discretionary	12.3%	5.1%	6.3%
Consumer Staples	5.2%	-3.0%	-5.7%
Energy	5.2%	3.3%	25.2%
Financials	21.9%	3.5%	12.6%
Health Care	3.2%	-4.3%	-2.8%
Industrials	6.9%	4.0%	6.9%
Information Technology	25.1%	11.3%	34.2%
Materials	6.9%	-1.8%	-3.1%
Real Estate	1.5%	2.8%	-4.1%
Utilities	3.0%	6.2%	20.3%
Total	100.0%	5.0%	12.5%

Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	22.7%	14.4%	-4.3%	13.2%
United Kingdom	14.9%	9.5%	3.7%	12.5%
France	11.2%	7.1%	-7.5%	0.5%
Switzerland	9.7%	6.2%	3.1%	6.1%
Germany	8.7%	5.5%	-1.4%	10.1%
Australia	7.5%	4.8%	1.6%	14.1%
Netherlands	5.4%	3.4%	5.0%	25.6%
Denmark	4.0%	2.5%	7.5%	42.1%
Sweden	3.2%	2.1%	2.2%	18.2%
Italy	2.7%	1.7%	-3.4%	21.3%
Spain	2.7%	1.7%	-1.6%	15.0%
Hong Kong	1.8%	1.1%	1.0%	-18.0%
Singapore	1.4%	0.9%	8.9%	13.5%
Finland	1.0%	0.6%	3.0%	1.7%
Belgium	1.0%	0.6%	0.9%	9.0%
Israel	0.7%	0.5%	-4.2%	23.6%
Norway	0.6%	0.4%	6.6%	14.2%
Ireland	0.3%	0.2%	-0.8%	12.5%
Portugal	0.2%	0.1%	8.5%	-6.4%
Austria	0.2%	0.1%	7.1%	17.9%
New Zealand	0.2%	0.1%	3.2%	3.7%
Total EAFE Countries	100.0%	63.6%	-0.4%	11.5%
Canada		7.4%	-2.1%	8.6%
Total Developed Countries		71.0%	-0.6%	11.2%
China		7.3%	7.1%	-1.6%
Taiwan		5.6%	15.1%	40.7%
India		5.6%	10.2%	34.4%
Korea		3.5%	-1.2%	8.1%
Brazil		1.2%	-12.2%	-7.7%
Saudi Arabia		1.1%	-7.4%	0.9%
South Africa		0.9%	12.3%	12.3%
Mexico		0.6%	-16.1%	-6.5%
Indonesia		0.5%	-12.4%	-11.8%
Malaysia		0.4%	4.4%	17.5%
Thailand		0.4%	-4.8%	-13.3%
United Arab Emirates		0.3%	-2.3%	0.8%
Poland		0.3%	6.1%	32.4%
Turkey		0.2%	21.4%	62.1%
Qatar		0.2%	-0.3%	0.7%
Kuwait		0.2%	-2.8%	2.2%
Philippines		0.1%	-10.7%	-3.1%
Greece		0.1%	-1.2%	9.6%
Chile		0.1%	-1.3%	-9.3%
Peru		0.1%	2.0%	40.0%
Hungary		0.1%	9.2%	29.0%
Czech Republic		0.0%	6.3%	3.5%
Colombia		0.0%	-4.6%	26.7%
Egypt		0.0%	-4.2%	-4.8%
Total Emerging Countries		29.0%	5.0%	12.5%
Total ACWixUS Countries		100.0%	1.0%	11.6%

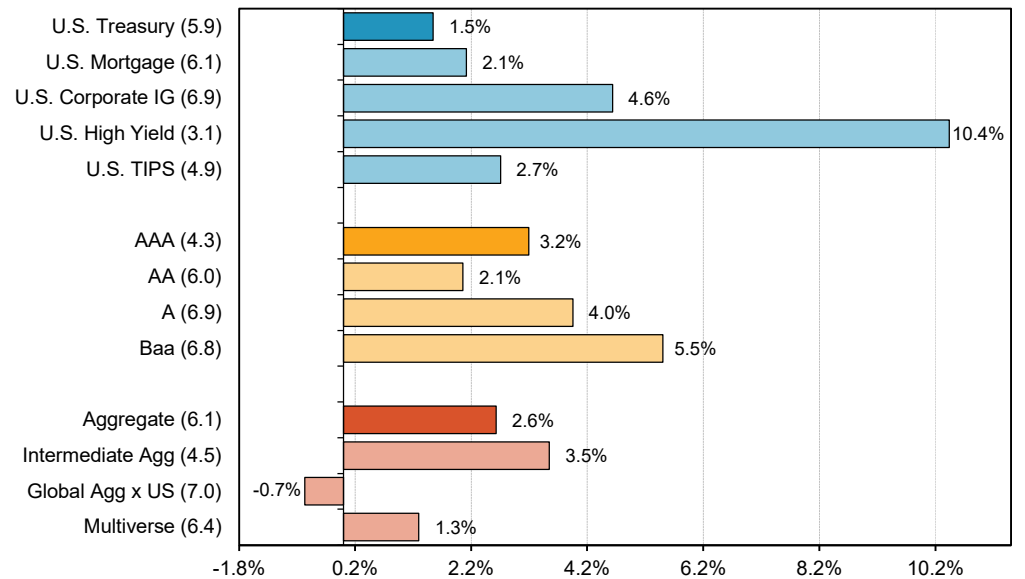
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)
As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency,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

- Fixed-income markets fell in a relatively tight range for the quarter with many domestic sectors returning less than 0.5%. Yields remained at elevated levels as the Federal Reserve maintained its restrictive policy stance. If market expectations hold and the Fed begins to cut rates in 2024, to the extent any cuts lower yields across the curve, it will provide a jolt to bondholder performance since bond prices move in the opposite direction of yields.
- The Bloomberg US Aggregate Bond Index had a mixed quarter of performance made up of a large drawdown in April followed by smaller recoveries in May and June that combined for an index return of 0.1%. Performance across the investment-grade index's segments for the quarter was similarly muted with the Bloomberg US Corporate Investment Grade Index returning -0.1% and the US Mortgage Index gaining 0.1%.
- Outside of the Aggregate index's sub-components, high-yield bonds continued to rise, posting a return of 1.1%, boosted by the higher coupon income, and US TIPS climbed 0.8% for the quarter. The Bloomberg Global Aggregate ex-US Index returned -2.1% for the quarter with USD strength exerting downward pressure on performance. This global performance lagged domestic fixed-income indexes as well as the multiverse benchmark's return of -1.0%.
- Over the trailing one-year period, the Bloomberg US Aggregate Bond Index managed a 2.6% return. The benchmark's sub-components also posted positive performance over the trailing 12 months with the Bloomberg US Corporate Investment Grade Index rising 4.6% and the US Mortgage Index posting a more modest 2.1% return. US TIPS and high-yield corporate bonds, which are excluded from the aggregate index, each posted gains in the trailing year with returns of 2.7% and 10.4%, respectively. In addition to their higher coupons, high-yield bonds benefited from generally shorter duration than investment-grade corporate debt. This lower duration acted as a tailwind for high-yield bonds as interest rates rose during the trailing year.
- Among credit qualities, lower-quality bonds (both investment grade and non-investment grade) have outperformed higher-quality bonds due to both their higher yields, which contribute to higher interest payments, and narrowing credit spreads over the last year.
- Performance for non-US bonds was negative for the trailing year with the Bloomberg Global Aggregate ex-US Index falling -0.7%. With foreign central banks largely tracking the Fed's tight monetary stance, the negative performance of global bonds is largely attributable to USD strength over the last year.

Quarter Performance



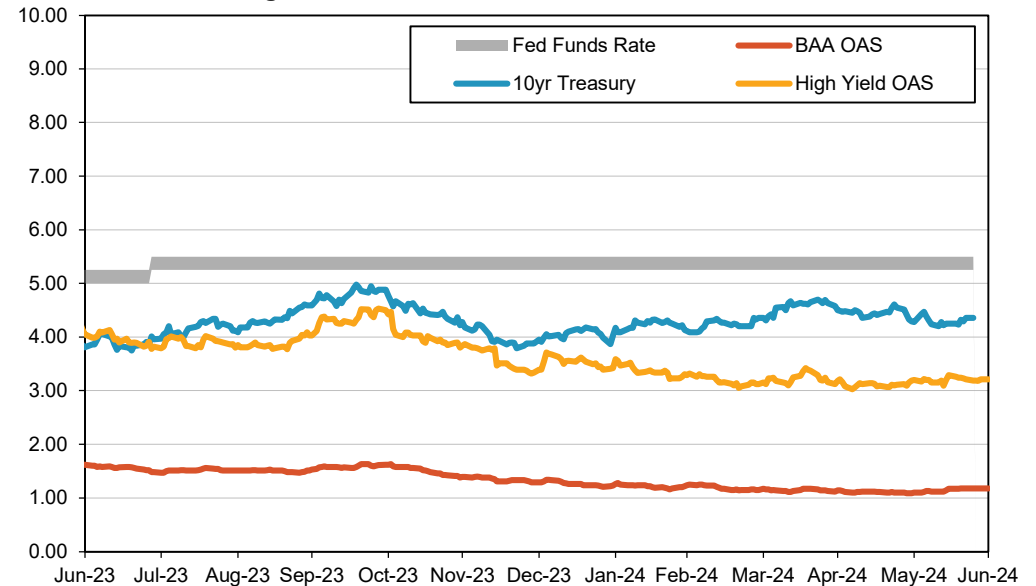
1-Year Performance



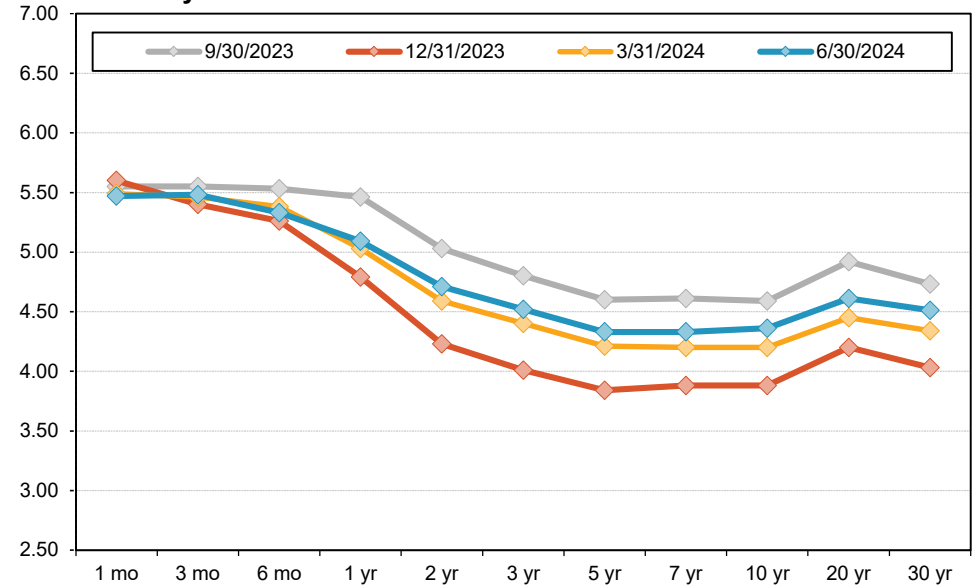
Source: Bloomberg

- The gray band across the graph illustrates the current fed funds target rate range over the last 12 months. During the second quarter, the Federal Open Market Committee (FOMC) continued to hold fed funds rates steady in the 5.25%-5.50% target range. The last rate increase in the current cycle occurred at the FOMC's July 2023 meeting. While the FOMC's press releases have continued to push economic data-dependent outcomes, the language used to describe economic conditions in these releases has also softened, resulting in market expectations that the next rate action by the FOMC will likely be a cut. The CME FedWatch tool, which forecasts rates based on Fed Fund futures pricing, currently shows a greater than 90% probability of a 0.25% rate decrease at the FOMC September meeting. Fed officials and market participants continue to express concern that leaving rates at their current levels for an extended period could tip the US economy into a recession. However, inflation remains above the FOMC's long-term 2.0% target level. Additionally, the FOMC continues to remove liquidity from the market by allowing bonds held on its balance sheet to mature without reinvesting principal payments.
- The yield on the US 10-year Treasury (blue line of the top chart) remained stable, opening the quarter at 4.33% and finishing June at a yield of 4.36%. The stability of the benchmark rate reflects the stability of the Federal Reserve's policy stance and the persistently high level of inflation throughout the economy. The 10-year Treasury benchmark's rate peaked in October 2023, cresting at a yield of just under 5.00% before pulling back in the remainder of the year.
- 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 that investors require to purchase and hold non-US Treasury issues with the lowest investment grade rating. During the quarter, the yield spread was relatively unchanged, beginning the quarter at 1.18% and finishing June at 1.17%. The spread measure narrowed over the trailing 12-month period after concerns about the regional banking sector during March 2023 caused credit spreads to spike. High-yield OAS spreads (represented by the orange line in the top chart) have also remained relatively unchanged, rising by just 0.07%. The spread measures' stability 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. The yield curve has been inverted for each of the last four quarter-end readings on the graph and for most of last two years. Historically, a persistent yield curve inversion has been a precursor of an economic recession within six to 24 months.

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 \(jpmorgan.com\)](#)

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

[China's Economy Limpes Into 2024 – WSJ](#)

[Support Site - Global Index Lens: Index Returns – MSCI](#)

[Federal Reserve issues FOMC statement](#)

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[U.S. Treasurys: investors look to inflation data due in week ahead \(cnbc.com\)](#)

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

[Top 25 Stocks in the S&P 500 By Index Weight for July 2024 \(investopedia.com\)](#)

[Will Small-Cap Stocks Ever Catch Up? | Morningstar](#)

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

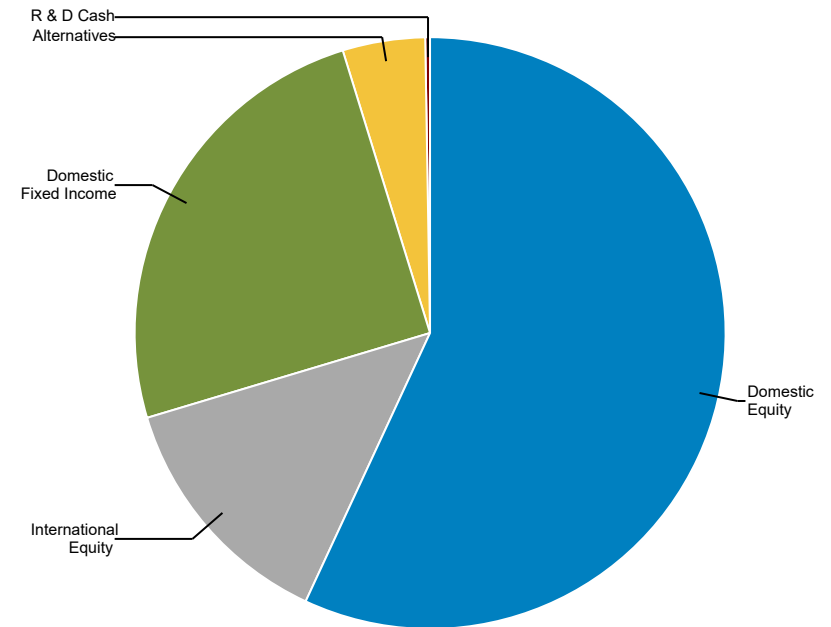
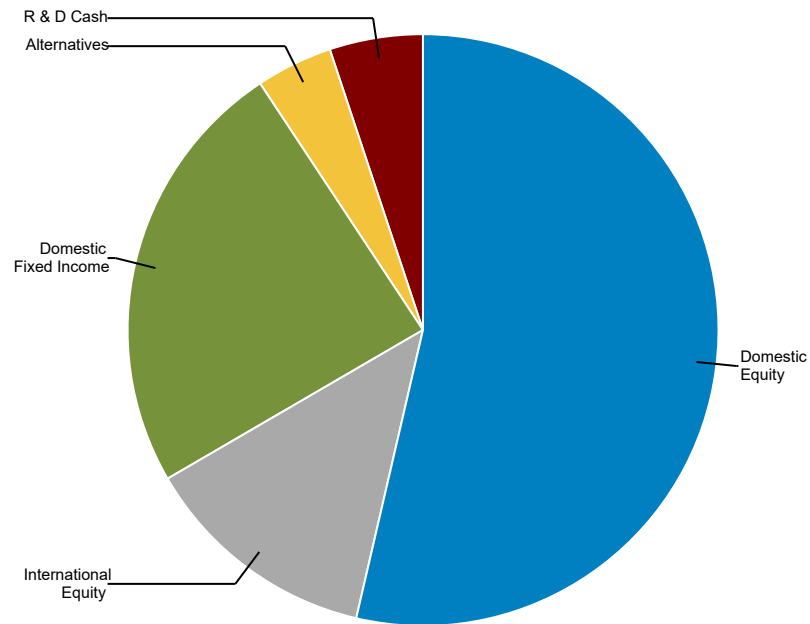
Asset Allocation By Asset Class

Total Fund

As of June 30, 2024

Mar-2024 : \$9,105,815

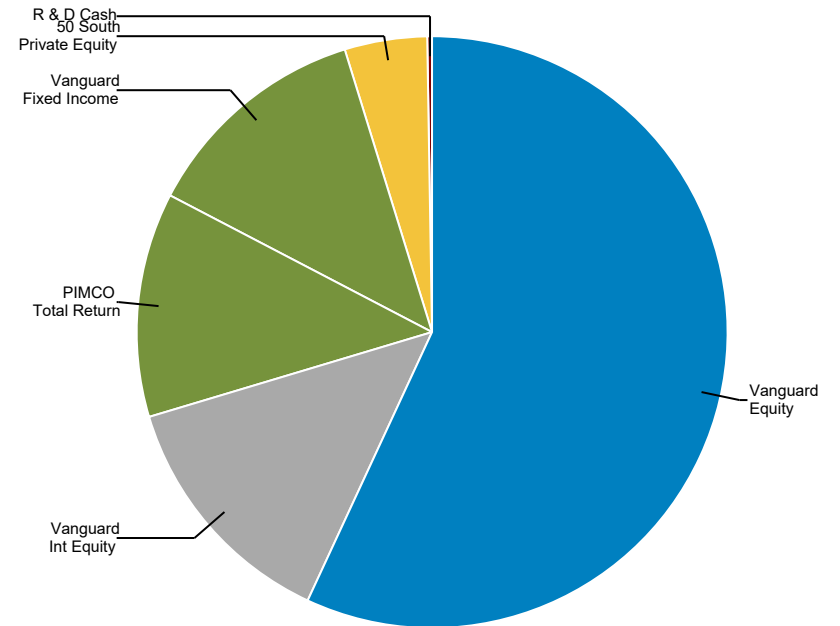
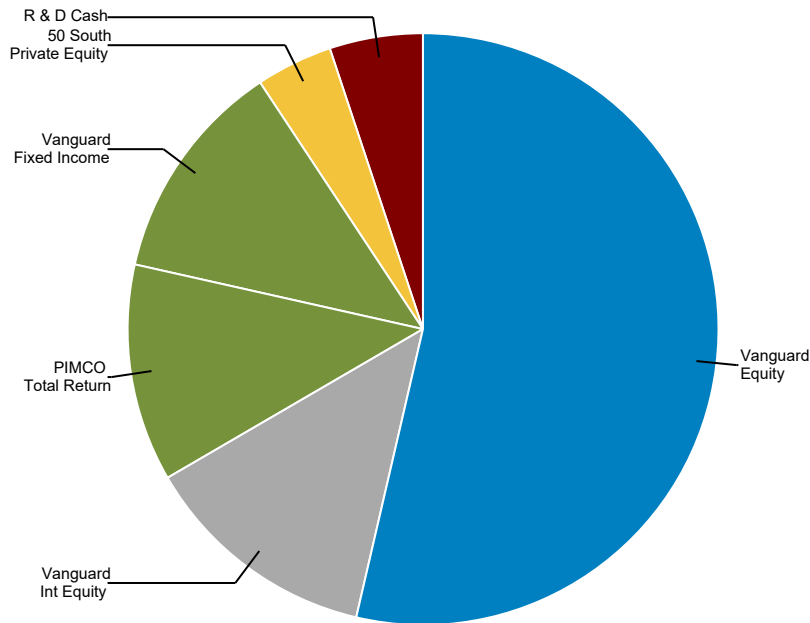
Jun-2024 : \$8,859,089



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Domestic Equity	4,883,733	53.6	■ Domestic Equity	5,042,285	56.9
■ International Equity	1,183,145	13.0	■ International Equity	1,192,553	13.5
■ Domestic Fixed Income	2,191,686	24.1	■ Domestic Fixed Income	2,201,074	24.8
■ Alternatives	382,069	4.2	■ Alternatives	399,419	4.5
■ R & D Cash	465,181	5.1	■ R & D Cash	23,758	0.3

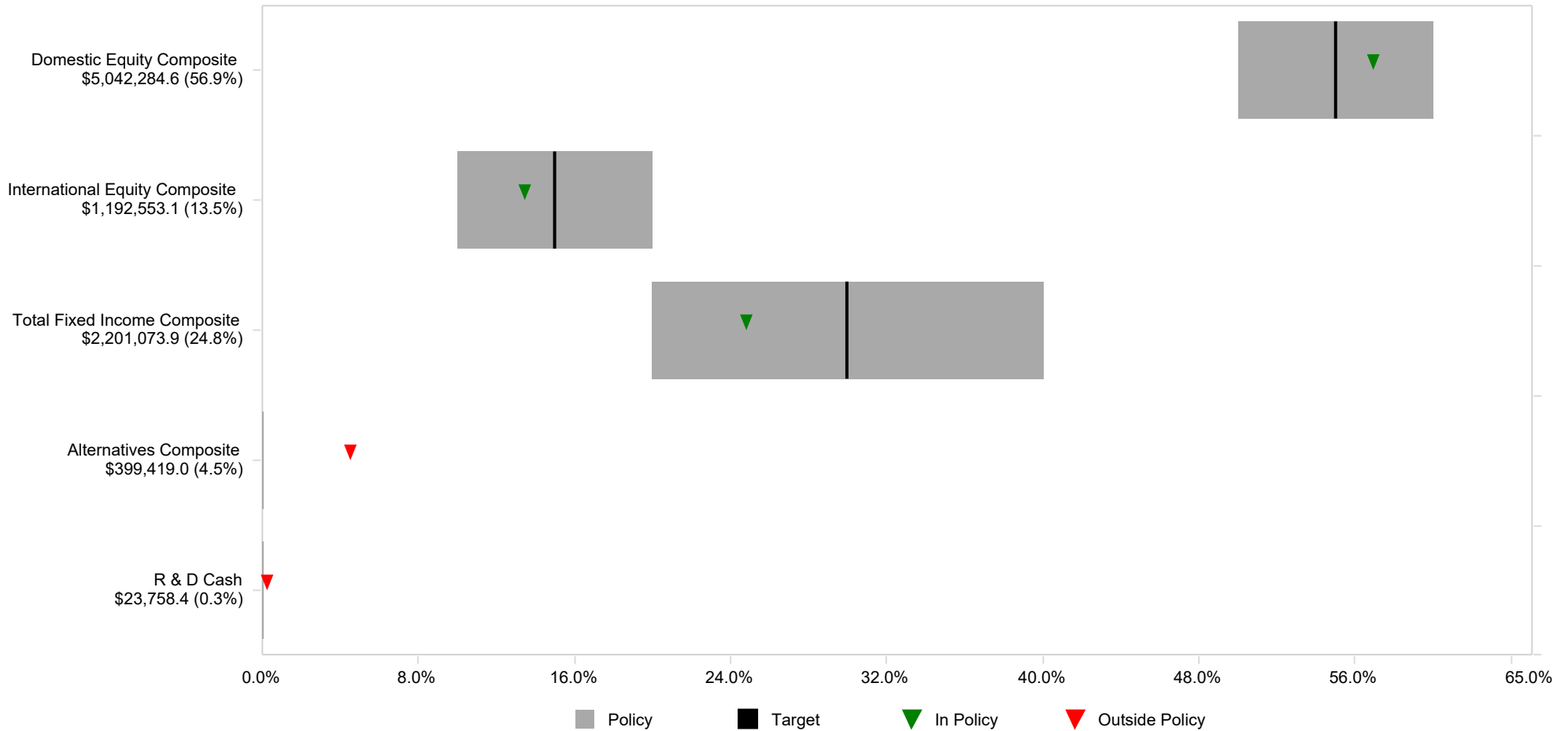
Mar-2024 : \$9,105,815

Jun-2024 : \$8,859,089



Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Vanguard Equity	4,883,733	53.6	■ Vanguard Equity	5,042,285	56.9
■ Vanguard Int Equity	1,183,145	13.0	■ Vanguard Int Equity	1,192,553	13.5
■ PIMCO Total Return	1,082,668	11.9	■ PIMCO Total Return	1,086,813	12.3
■ Vanguard Fixed Income	1,109,018	12.2	■ Vanguard Fixed Income	1,114,261	12.6
■ 50 South Private Equity	382,069	4.2	■ 50 South Private Equity	399,419	4.5
■ R & D Cash	465,181	5.1	■ R & D Cash	23,758	0.3

Executive Summary



Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Rebal. (\$000)	Min. Rebal. (\$000)	Max. Rebal. (\$000)
Total Fund Composite	8,859,089	100.0	100.0	N/A	N/A	-	-	-
Domestic Equity Composite	5,042,285	56.9	55.0	50.0	60.0	-169,786	-612,740	273,169
International Equity Composite	1,192,553	13.5	15.0	10.0	20.0	136,310	-306,644	579,265
Total Fixed Income Composite	2,201,074	24.8	30.0	20.0	40.0	456,653	-429,256	1,342,562
Alternatives Composite	399,419	4.5	0.0	0.0	0.0	-399,419	-399,419	-399,419
R & D Cash	23,758	0.3	0.0	0.0	0.0	-23,758	-23,758	-23,758

Financial Reconciliation
Total Fund
1 Quarter Ending June 30, 2024

Financial Reconciliation Quarter to Date									
	Market Value 04/01/2024	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 06/30/2024
Total Equity Composite	6,066,878	-	-	-	-	-	27,131	140,829	6,234,838
Domestic Equity Composite	4,883,733	-	-	-	-	-	17,749	140,803	5,042,285
Vanguard Total Stock Market Index Fund (VTSAX)	4,883,733	-	-	-	-	-	17,749	140,803	5,042,285
International Equity Composite	1,183,145	-	-	-	-	-	9,382	26	1,192,553
Vanguard Total International Stock Index Fund (VTIAX)	1,183,145	-	-	-	-	-	9,382	26	1,192,553
Total Fixed Income Composite	2,191,686	-	-	-	-	-	25,786	-16,398	2,201,074
PIMCO Total Return Fund (PTTRX)	1,082,668	-	-	-	-	-	12,884	-8,740	1,086,813
Vanguard Intermediate-Term Investment-Grade Fund (VFIDX)	1,109,018	-	-	-	-	-	12,901	-7,658	1,114,261
Alternatives Composite	382,069	17,350	-	-	-	-	-	-	399,419
50 South Capital Private Equity Core Fund IX	382,069	17,350	-	-	-	-	-	-	399,419
R & D Cash	465,181	-17,350	-	-400,000	-	-28,149	4,077	-	23,758
Total Fund Composite	9,105,815	-	-	-400,000	-	-28,149	56,993	124,431	8,859,089

Financial Reconciliation
Total Fund
October 1, 2023 To June 30, 2024

Financial Reconciliation Fiscal Year to Date									
	Market Value 10/01/2023	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 06/30/2024
Total Equity Composite	5,051,000	-65,300	-	-	-	-	83,244	1,165,894	6,234,838
Domestic Equity Composite	3,995,080	-40,300	-	-	-	-	53,358	1,034,146	5,042,285
Vanguard Total Stock Market Index Fund (VTSAX)	3,995,080	-40,300	-	-	-	-	53,358	1,034,146	5,042,285
International Equity Composite	1,055,920	-25,000	-	-	-	-	29,886	131,748	1,192,553
Vanguard Total International Stock Index Fund (VTIAX)	1,055,920	-25,000	-	-	-	-	29,886	131,748	1,192,553
Total Fixed Income Composite	2,039,257	-	-	-	-	-	71,001	90,816	2,201,074
PIMCO Total Return Fund (PTTRX)	1,012,654	-	-	-	-	-	34,257	39,902	1,086,813
Vanguard Intermediate-Term Investment-Grade Fund (VFIDX)	1,026,603	-	-	-	-	-	36,744	50,914	1,114,261
Alternatives Composite	296,562	92,600	-	-	-	-	-	10,257	399,419
50 South Capital Private Equity Core Fund IX	296,562	92,600	-	-	-	-	-	10,257	399,419
R & D Cash	200,298	-27,300	982,661	-1,101,447	-	-44,153	13,699	-	23,758
Total Fund Composite	7,587,117	-	982,661	-1,101,447	-	-44,153	167,944	1,266,966	8,859,089

Comparative Performance

Total Fund

As of June 30, 2024

Comparative Performance Trailing Returns																		
	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR		Inception		Inception Date	
Total Fund (Gross)	2.07	(5)	18.77	(6)	15.16	(6)	2.25	(66)	7.34	(50)	6.88	(70)	5.84	(82)	5.78	(92)	07/01/2004	
Total Fund Policy	1.97	(6)	18.99	(5)	15.16	(6)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
All Public Plans-Total Fund Median	1.03		14.84		11.41		2.75		7.32		7.32		6.65		6.59			
Total Fund (Net)	2.07		18.77		15.16		2.15		6.94		6.37		5.20		4.99		07/01/2004	
Total Equity	2.77		24.98		20.67		N/A		N/A		N/A		N/A		5.05		12/01/2021	
Total Equity Policy	2.76		24.82		20.71		N/A		N/A		N/A		N/A		6.25			
Total Domestic Equity	3.25	(25)	27.39	(25)	23.20	(26)	N/A		N/A		N/A		N/A		6.08	(39)	12/01/2021	
Total Domestic Equity Policy	3.25	(25)	27.37	(25)	23.17	(26)	N/A		N/A		N/A		N/A		7.17	(30)		
IM U.S. Equity (MF) Median	-1.03		18.84		14.60		4.58		9.71		9.38		8.56		4.60			
Total International Equity	0.80	(32)	15.61	(58)	10.96	(56)	N/A		N/A		N/A		N/A		1.04	(92)	12/01/2021	
Total International Equity Policy	0.86	(30)	15.53	(59)	11.68	(38)	N/A		N/A		N/A		N/A		2.51	(68)		
IM International Multi-Cap Core Equity (MF) Median	-0.01		16.02		11.15		1.66		6.00		5.22		4.11		3.49			
Total Domestic Fixed Income	0.43	(19)	7.94	(8)	4.93	(10)	N/A		N/A		N/A		N/A		-2.77	(13)	12/01/2021	
Total Fixed Income Policy	0.15	(66)	6.23	(62)	2.94	(59)	N/A		N/A		N/A		N/A		-3.49	(37)		
IM U.S. Broad Market Core Fixed Income (MF) Median	0.21		6.44		3.13		-3.10		-0.08		0.89		1.34		-3.67			

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

Comparative Performance
Total Fund
As of June 30, 2024

	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR	Inception	Inception Date
Total Domestic Equity									
Vanguard Total Stock Market Index Fund (VTSAX)	3.25 (25)	27.39 (25)	23.20 (26)	7.91 (25)	14.06 (21)	13.43 (21)	12.10 (19)	8.53 (32)	12/01/2000
CRSP U.S. Total Market TR Index	3.25 (25)	27.37 (25)	23.17 (26)	7.91 (25)	14.07 (21)	13.44 (21)	12.11 (19)	N/A	
IM U.S. Equity (MF) Median	-1.03	18.84	14.60	4.58	9.71	9.38	8.56	7.86	
Total International Equity									
Vanguard Total International Stock Index Fund (VTIAX)	0.80 (32)	15.61 (58)	10.96 (56)	0.34 (73)	5.75 (59)	5.18 (54)	4.02 (58)	5.15 (70)	12/01/2010
Vanguard Spliced Total International Stock Index	0.86 (30)	15.53 (59)	11.68 (38)	0.48 (69)	5.87 (55)	5.33 (47)	4.12 (50)	5.21 (65)	
IM International Multi-Cap Core Equity (MF) Median	-0.01	16.02	11.15	1.66	6.00	5.22	4.11	5.52	
Total Domestic Fixed Income									
PIMCO Total Return Fund (PTTRX)	0.38 (22)	7.32 (16)	4.33 (18)	-2.79 (26)	0.19 (32)	1.18 (29)	1.60 (26)	6.21 (1)	06/01/1987
Blmbg. U.S. Aggregate Index	0.07 (80)	6.06 (73)	2.63 (73)	-3.02 (42)	-0.23 (63)	0.86 (54)	1.35 (50)	5.37 (34)	
IM U.S. Broad Market Core Fixed Income (MF) Median	0.21	6.44	3.13	-3.10	-0.08	0.89	1.34	5.32	
Vanguard Intermediate-Term Investment-Grade Fund (VFIDX)	0.47 (16)	8.54 (2)	5.52 (6)	-2.17 (11)	1.01 (5)	1.92 (2)	2.32 (1)	4.46 (1)	03/01/2001
Blmbg. U.S. Credit 5-10 Year Index	0.39 (22)	8.30 (3)	5.36 (7)	-2.27 (11)	0.91 (7)	2.05 (2)	2.52 (1)	4.89 (1)	
IM U.S. Broad Market Core Fixed Income (MF) Median	0.21	6.44	3.13	-3.10	-0.08	0.89	1.34	3.55	

Returns for periods greater than one year are annualized.
Returns are expressed as percentages.
Prior to January 2022, fund performance is shown in the absence of account level data.

Comparative Performance Fiscal Year Returns											
	FYTD	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015	FY2014
Total Fund (Gross)	18.77 (6)	13.77 (8)	-20.63 (99)	25.55 (5)	5.28 (84)	2.54 (86)	5.99 (86)	11.09 (71)	9.05 (61)	-2.56 (81)	6.03 (97)
Total Fund Policy	18.99 (5)	14.47 (5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Public Plans-Total Fund Median	14.84	10.76	-14.90	20.02	8.07	3.99	7.84	11.88	9.42	-0.77	9.67
Total Fund (Net)	18.77	13.77	-20.76	24.69	4.43	1.77	5.20	10.25	8.08	-3.49	5.09
Total Equity	24.98	20.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Equity Policy	24.82	20.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Domestic Equity	27.39 (25)	20.37 (28)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Domestic Equity Policy	27.37 (25)	20.37 (28)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Equity (MF) Median	18.84	15.06	-17.38	31.94	4.43	0.15	13.34	17.56	12.15	-0.92	13.76
Total International Equity	15.61 (58)	20.46 (85)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total International Equity Policy	15.53 (59)	20.40 (85)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM International Multi-Cap Core Equity (MF) Median	16.02	24.29	-25.64	24.90	1.14	-2.75	1.53	19.08	6.44	-7.75	4.44
Total Domestic Fixed Income	7.94 (8)	2.52 (7)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Fixed Income Policy	6.23 (62)	0.96 (40)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Broad Market Core Fixed Income (MF) Median	6.44	0.77	-15.29	0.17	6.94	9.78	-1.32	0.50	5.23	1.96	4.24

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

Comparative Performance

Total Fund

As of June 30, 2024

	FYTD	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015	FY2014
Total Domestic Equity											
Vanguard Total Stock Market Index Fund (VTSAX)	27.39 (25)	20.37 (28)	-18.01 (54)	32.08 (50)	14.99 (33)	2.88 (34)	17.62 (32)	18.63 (40)	14.98 (28)	-0.58 (47)	17.76 (23)
CRSP U.S. Total Market TR Index	27.37 (25)	20.37 (28)	-17.98 (53)	32.11 (50)	14.99 (33)	2.92 (34)	17.62 (32)	18.64 (40)	14.99 (28)	-0.55 (46)	17.77 (23)
IM U.S. Equity (MF) Median	18.84	15.06	-17.38	31.94	4.43	0.15	13.34	17.56	12.15	-0.92	13.76
Total International Equity											
Vanguard Total International Stock Index Fund (VTIAX)	15.61 (58)	20.46 (85)	-25.21 (37)	24.36 (60)	3.77 (20)	-1.56 (33)	1.61 (48)	19.27 (46)	9.66 (17)	-10.72 (80)	4.89 (37)
Vanguard Spliced Total International Stock Index	15.53 (59)	20.40 (85)	-25.20 (37)	25.37 (43)	3.69 (21)	-1.66 (34)	1.99 (39)	19.39 (42)	9.90 (14)	-11.10 (85)	5.18 (33)
IM International Multi-Cap Core Equity (MF) Median	16.02	24.29	-25.64	24.90	1.14	-2.75	1.53	19.08	6.44	-7.75	4.44
Total Domestic Fixed Income											
PIMCO Total Return Fund (PTTRX)	7.32 (16)	1.17 (32)	-15.66 (63)	0.28 (46)	7.42 (33)	10.08 (36)	-1.51 (66)	2.42 (4)	5.68 (32)	1.58 (64)	3.29 (84)
Blmbg. U.S. Aggregate Index	6.06 (73)	0.64 (56)	-14.60 (24)	-0.90 (83)	6.98 (49)	10.30 (24)	-1.22 (42)	0.07 (65)	5.19 (53)	2.94 (9)	3.96 (61)
IM U.S. Broad Market Core Fixed Income (MF) Median	6.44	0.77	-15.29	0.17	6.94	9.78	-1.32	0.50	5.23	1.96	4.24
Vanguard Intermediate-Term Investment-Grade Fund (VFIDX)	8.54 (2)	3.88 (2)	-17.02 (91)	1.13 (22)	9.07 (7)	11.01 (4)	-1.38 (54)	0.97 (29)	6.90 (4)	3.14 (5)	5.12 (20)
Blmbg. U.S. Credit 5-10 Year Index	8.30 (3)	3.89 (2)	-17.07 (91)	1.05 (23)	8.31 (15)	13.12 (1)	-1.59 (70)	1.66 (11)	8.23 (1)	2.71 (17)	6.65 (4)
IM U.S. Broad Market Core Fixed Income (MF) Median	6.44	0.77	-15.29	0.17	6.94	9.78	-1.32	0.50	5.23	1.96	4.24

Returns for periods greater than one year are annualized.
Returns are expressed as percentages.
Prior to January 2022, fund performance is shown in the absence of account level data.

As of June 30, 2024

Comparative Performance - IRR						
	QTR	1 YR	3 YR	5 YR	Inception	Inception Date
50 South Capital Private Equity Core Fund IX	0.00	2.56	6.64	N/A	11.76	01/12/2021

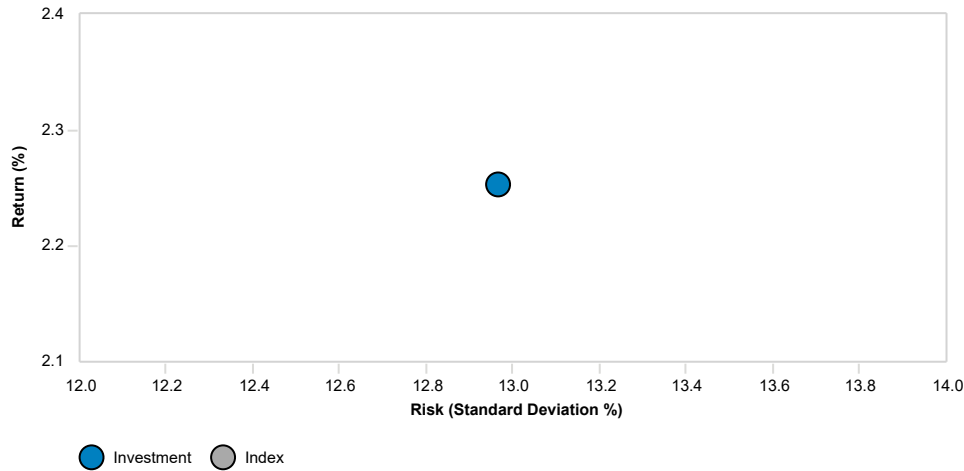
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.25	12.97	0.01	N/A	7	N/A	5
Index	N/A	N/A	N/A	N/A	N/A	N/A	N/A

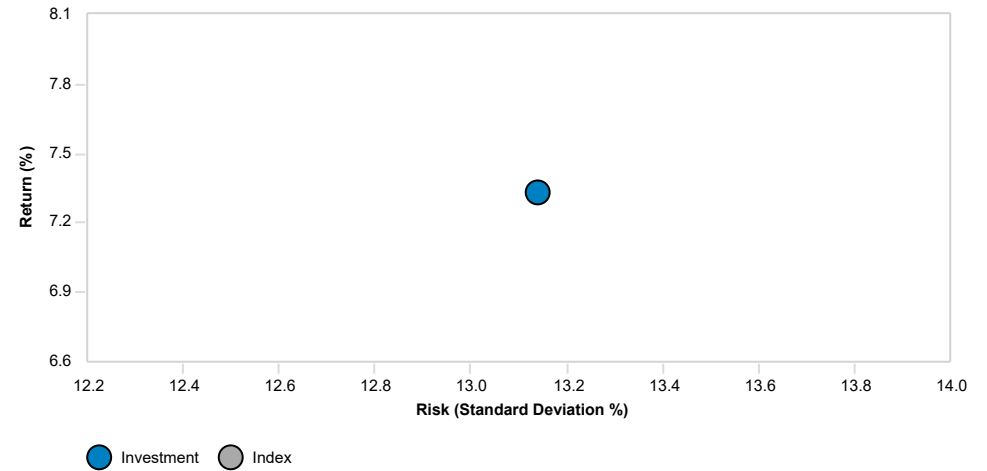
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.34	13.14	0.44	N/A	14	N/A	6
Index	N/A	N/A	N/A	N/A	N/A	N/A	N/A

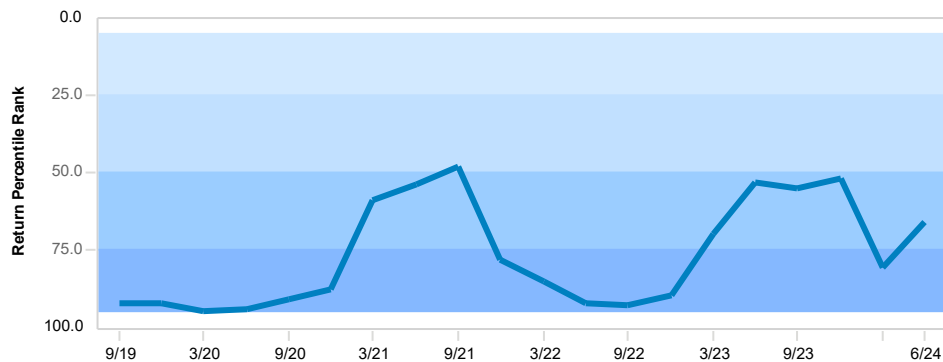
Risk and Return 3 Years



Risk and Return 5 Years

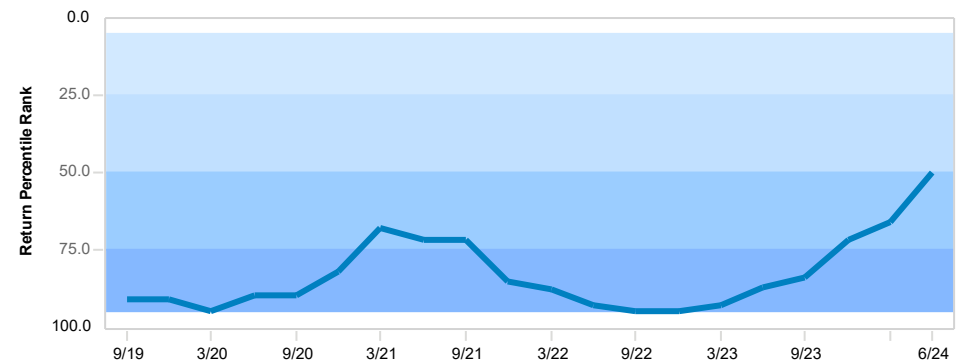


3 Year Rolling Percentile Rank All Public Plans-Total Fund



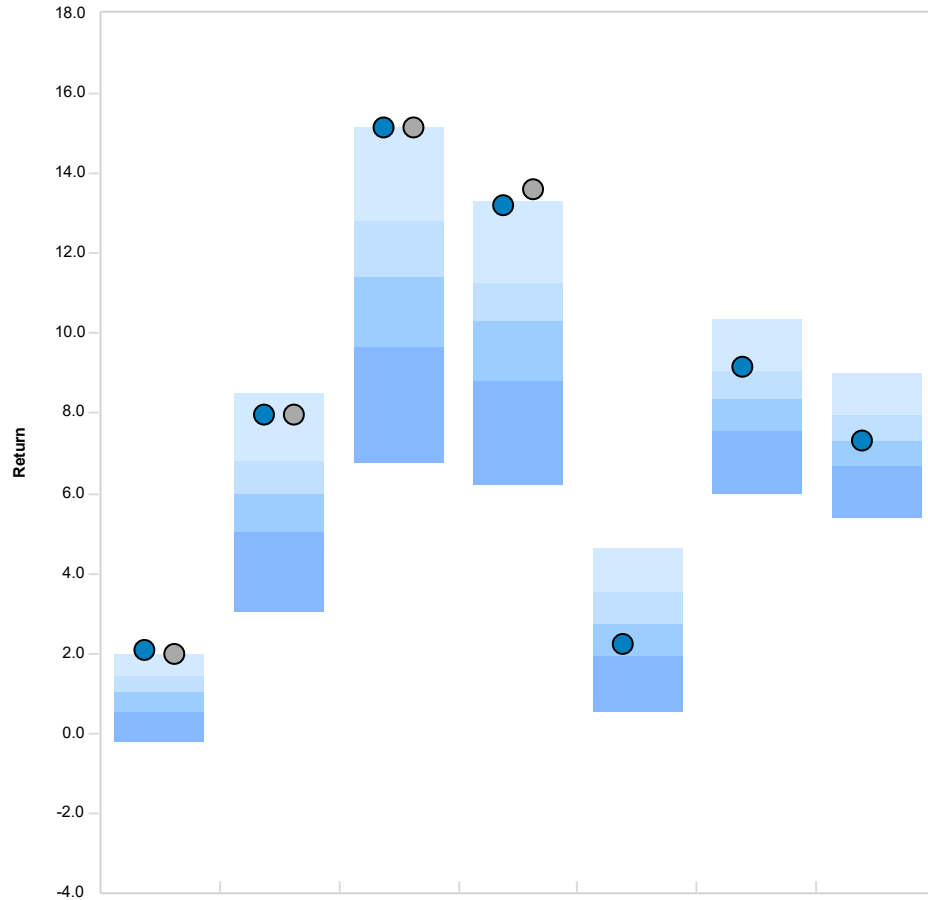
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	1 (5%)	7 (35%)	12 (60%)
Index	0	0	0	0	0

5 Year Rolling Percentile Rank All Public Plans-Total Fund

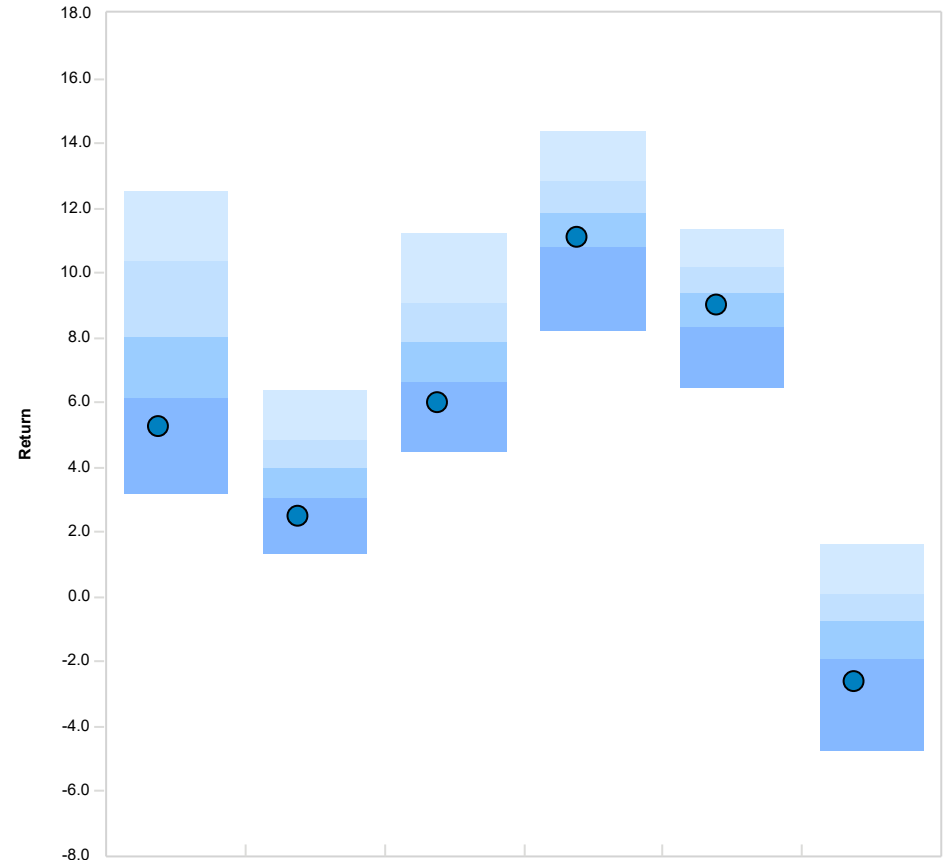


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	1 (5%)	5 (25%)	14 (70%)
Index	0	0	0	0	0

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



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



	QTR	YTD	1 YR	2 YR	3 YR	4 YR	5 YR
Investment	2.07 (5)	7.96 (9)	15.16 (6)	13.20 (7)	2.25 (66)	9.18 (23)	7.34 (50)
Index	1.97 (6)	7.96 (9)	15.16 (6)	13.59 (5)	N/A	N/A	N/A
Median	1.03	5.98	11.41	10.29	2.75	8.39	7.32

	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015
Investment	5.28 (84)	2.54 (86)	5.99 (86)	11.09 (71)	9.05 (61)	-2.56 (81)
Index	N/A	N/A	N/A	N/A	N/A	N/A
Median	8.07	3.99	7.84	11.88	9.42	-0.77

Comparative Performance

	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023	1 Qtr Ending Mar-2023	1 Qtr Ending Dec-2022
Investment	5.77 (19)	10.01 (8)	-3.04 (54)	4.47 (7)	5.48 (8)	6.47 (29)
Index	5.87 (17)	10.21 (5)	-3.21 (64)	4.68 (5)	5.85 (4)	6.75 (19)
Median	4.88	8.20	-2.98	3.28	4.37	5.80

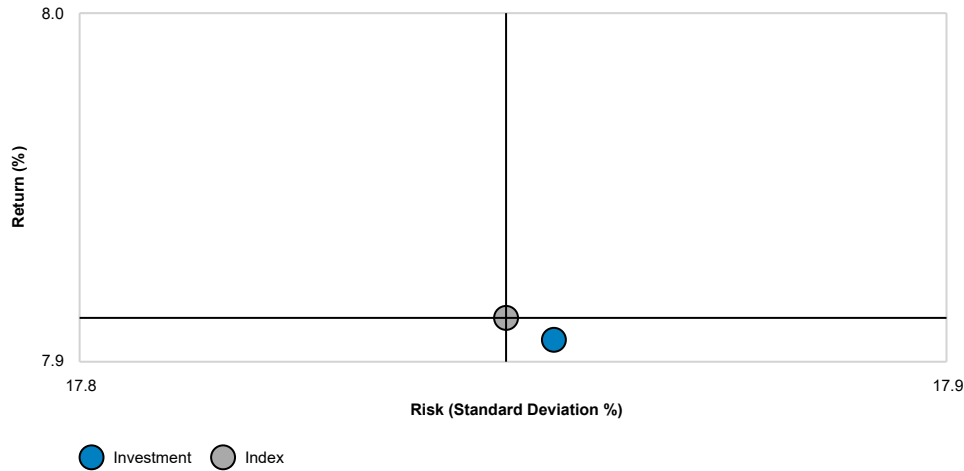
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.91	17.85	0.35	100.01	7	100.04	5
Index	7.91	17.85	0.35	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	14.06	18.50	0.69	99.98	14	100.01	6
Index	14.07	18.50	0.69	100.00	14	100.00	6

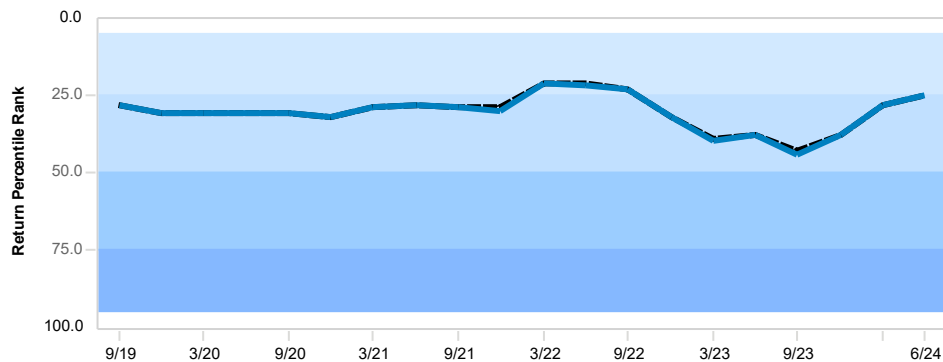
Risk and Return 3 Years



Risk and Return 5 Years

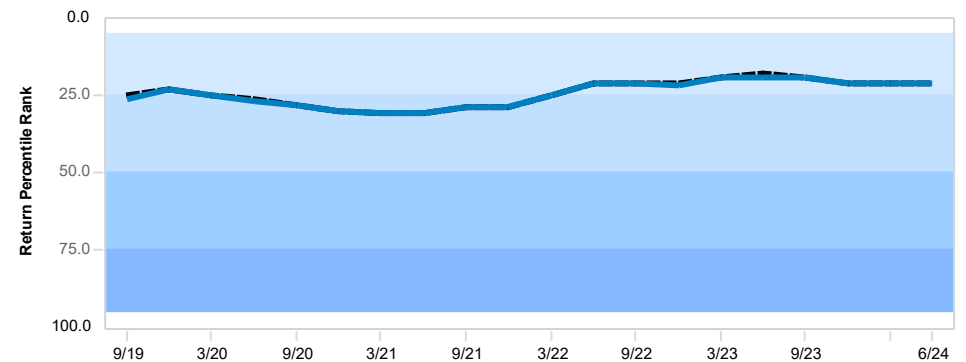


3 Year Rolling Percentile Rank IM U.S. Equity (MF)



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

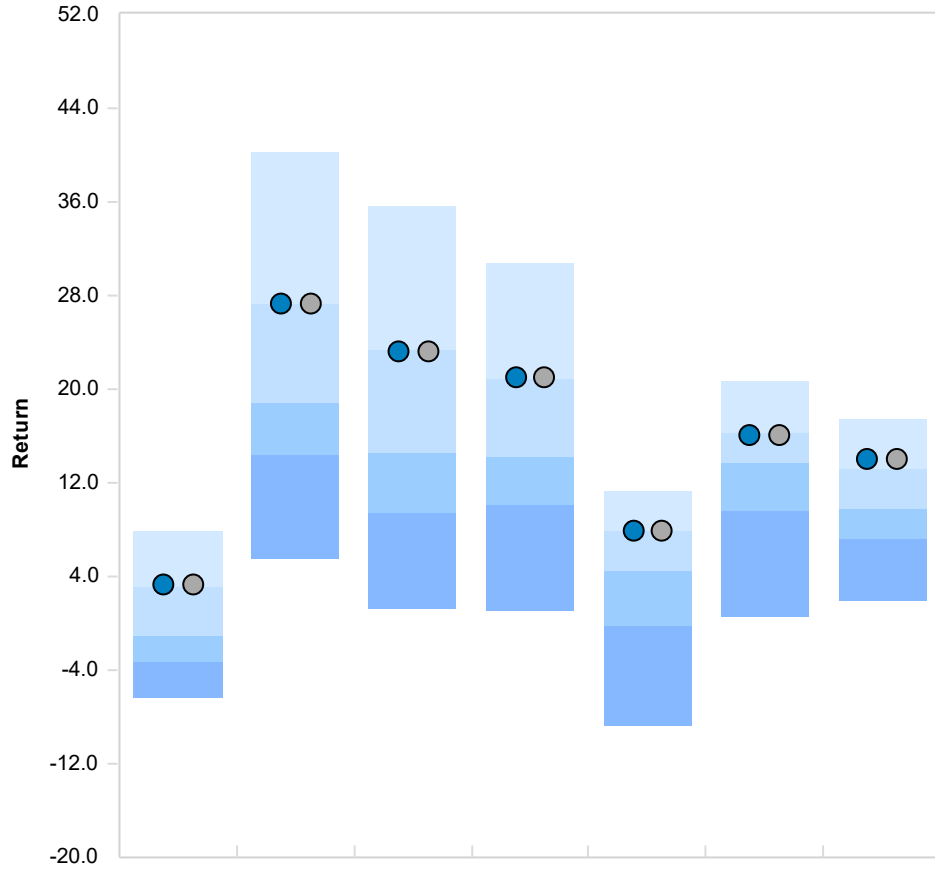
5 Year Rolling Percentile Rank IM U.S. Equity (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	12 (60%)	8 (40%)	0 (0%)	0 (0%)
Index	20	13 (65%)	7 (35%)	0 (0%)	0 (0%)

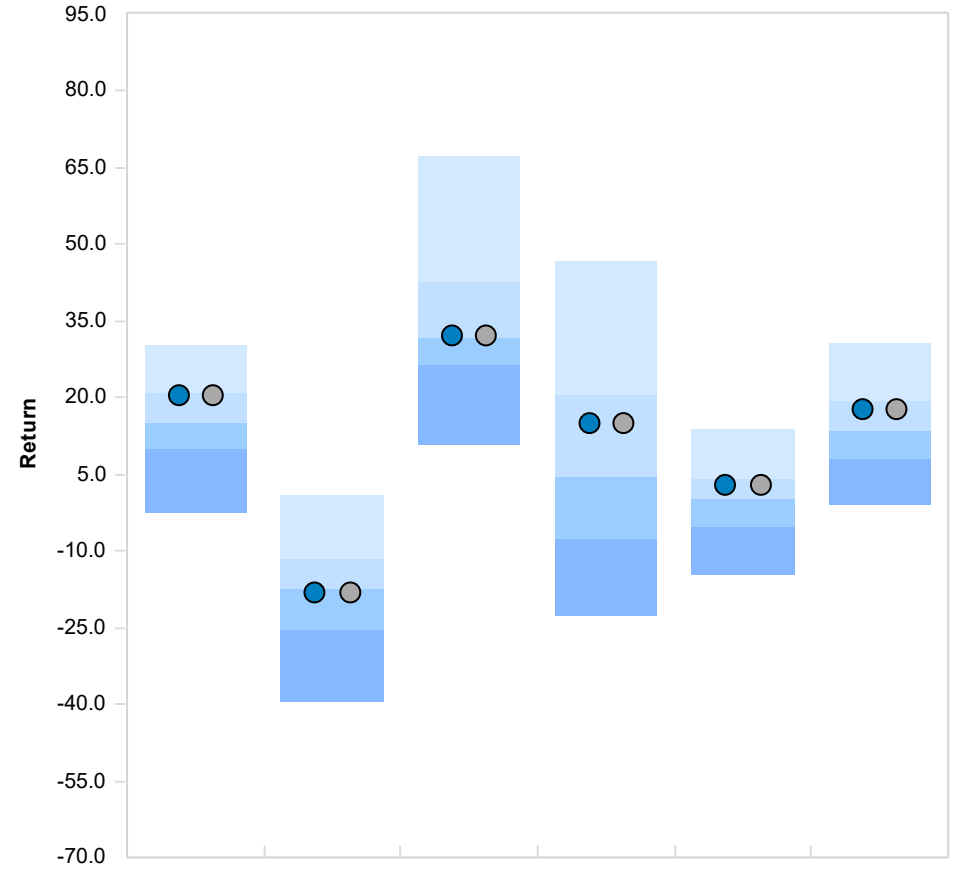
Prior to January 2022, fund performance is shown in the absence of account level data.

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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	3.25 (25)	27.39 (25)	23.20 (26)	21.04 (25)	7.91 (25)	16.04 (28)	14.06 (21)
● Index	3.25 (25)	27.37 (25)	23.17 (26)	21.04 (25)	7.91 (25)	16.05 (28)	14.07 (21)
Median	-1.03	18.84	14.60	14.28	4.58	13.71	9.71

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



	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
● Investment	20.37 (28)	-18.01 (54)	32.08 (50)	14.99 (33)	2.88 (34)	17.62 (32)
● Index	20.37 (28)	-17.98 (53)	32.11 (50)	14.99 (33)	2.92 (34)	17.62 (32)
Median	15.06	-17.38	31.94	4.43	0.15	13.34

Comparative Performance

	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023	1 Qtr Ending Mar-2023	1 Qtr Ending Dec-2022
Investment	10.00 (38)	12.17 (43)	-3.29 (43)	8.41 (24)	7.16 (31)	7.14 (60)
Index	10.01 (38)	12.14 (43)	-3.30 (43)	8.41 (24)	7.15 (31)	7.15 (60)
Median	8.78	11.68	-3.67	5.16	4.30	8.34

Prior to January 2022, fund performance is shown in the absence of account level data.

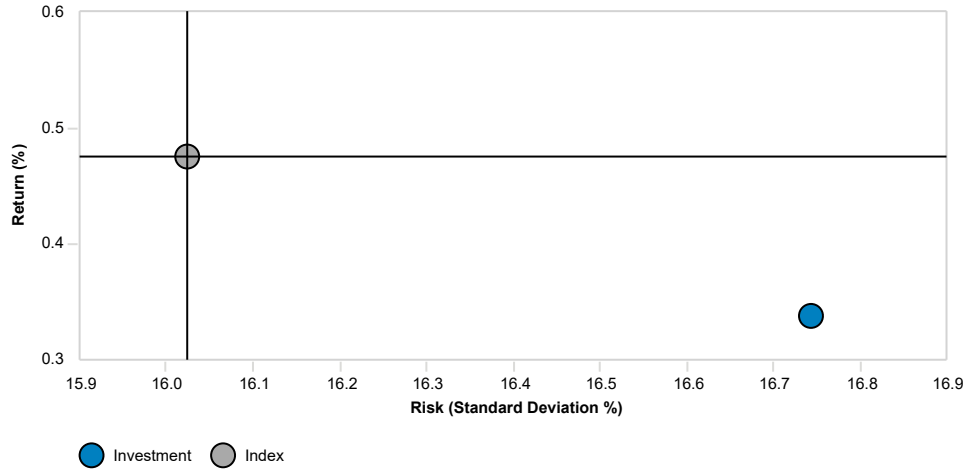
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	0.34	16.74	-0.08	106.48	7	107.15	5
Index	0.48	16.02	-0.08	100.00	7	100.00	5

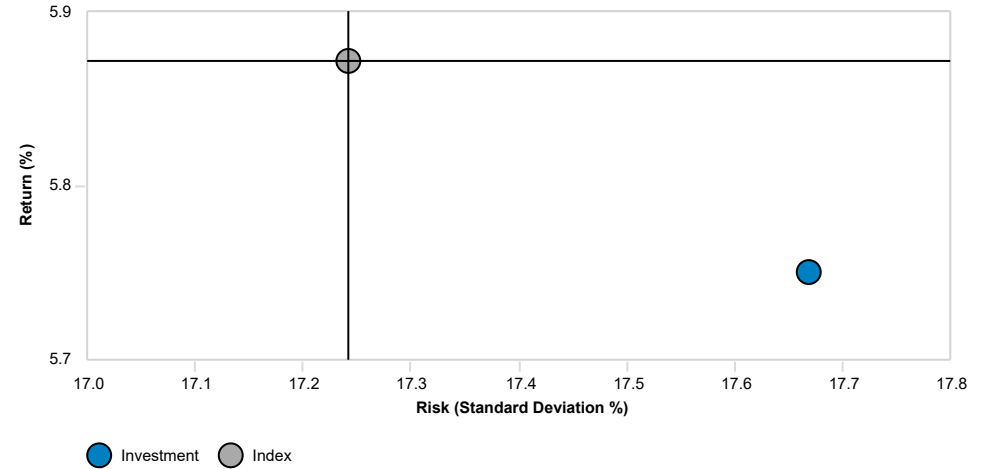
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.75	17.67	0.28	103.18	13	104.53	7
Index	5.87	17.24	0.29	100.00	13	100.00	7

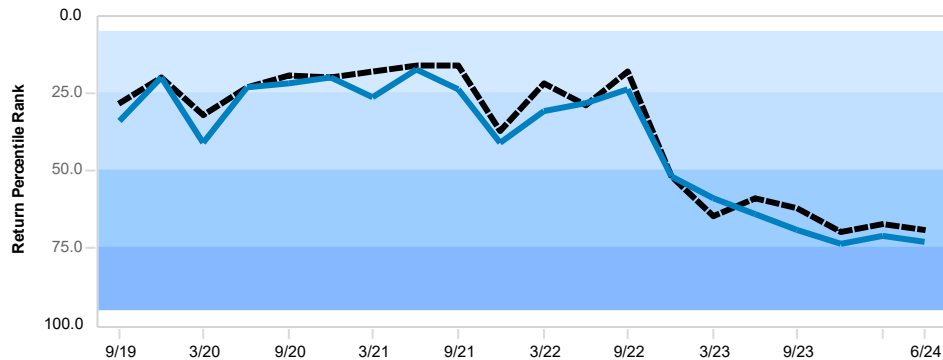
Risk and Return 3 Years



Risk and Return 5 Years

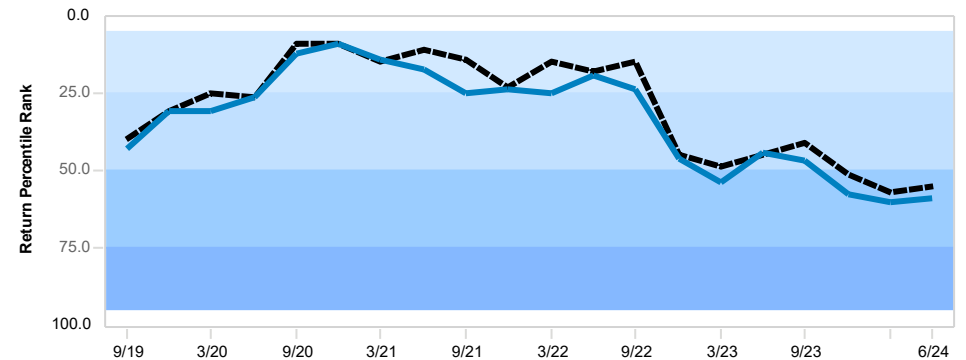


3 Year Rolling Percentile Rank IM International Multi-Cap Core Equity (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	7 (35%)	6 (30%)	7 (35%)	0 (0%)
Index	20	9 (45%)	4 (20%)	7 (35%)	0 (0%)

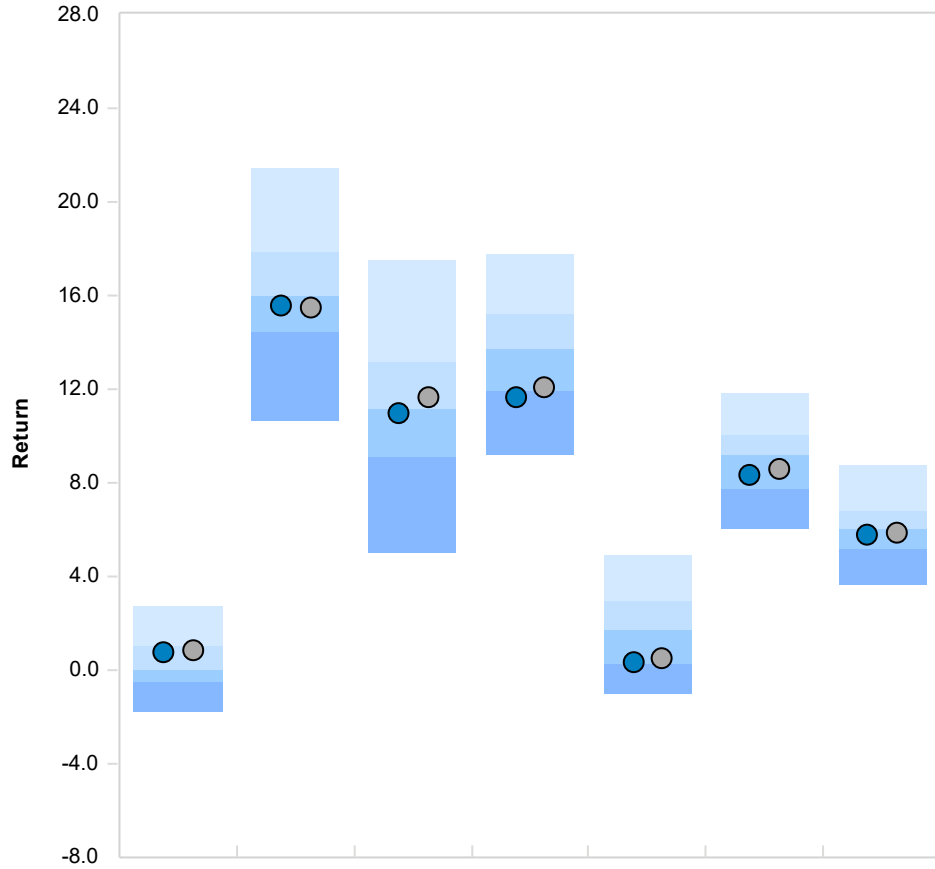
5 Year Rolling Percentile Rank IM International Multi-Cap Core Equity (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	9 (45%)	7 (35%)	4 (20%)	0 (0%)
Index	20	10 (50%)	7 (35%)	3 (15%)	0 (0%)

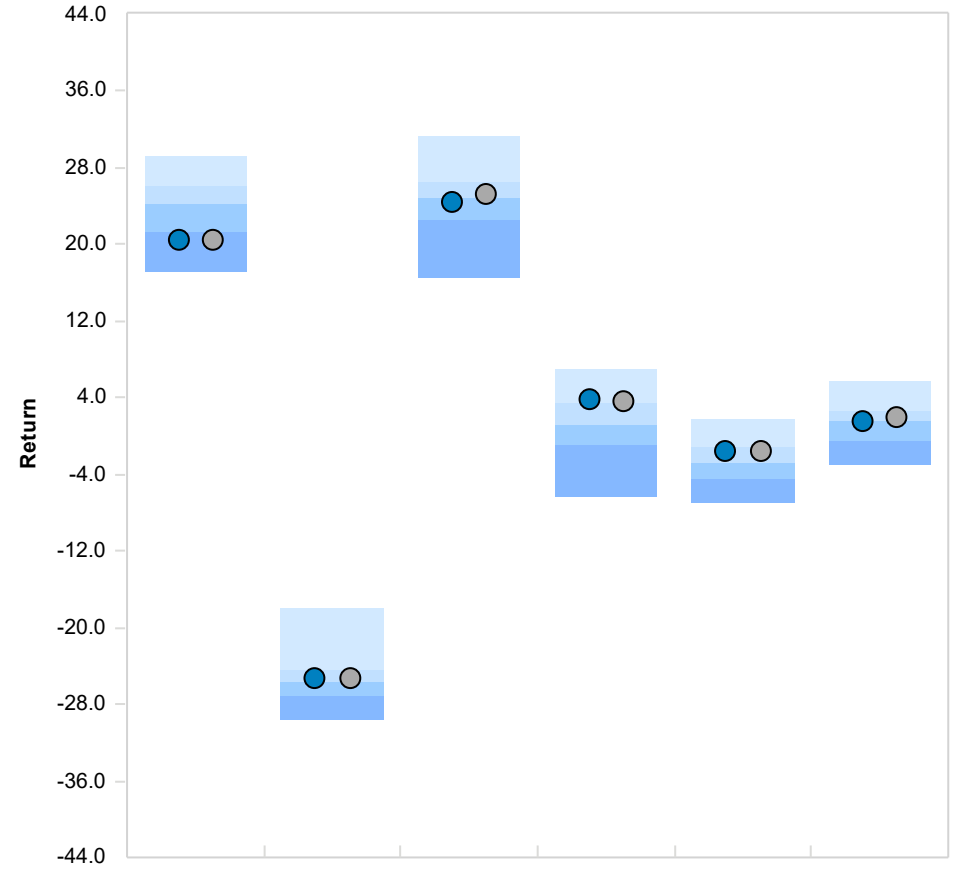
Prior to January 2022, fund performance is shown in the absence of account level data.

Peer Group Analysis - IM International Multi-Cap Core Equity (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	0.80 (32)	15.61 (58)	10.96 (56)	11.64 (81)	0.34 (73)	8.37 (67)	5.75 (59)
● Index	0.86 (30)	15.53 (59)	11.68 (38)	12.09 (69)	0.48 (69)	8.61 (60)	5.87 (55)
Median	-0.01	16.02	11.15	13.74	1.66	9.16	6.00

Peer Group Analysis - IM International Multi-Cap Core Equity (MF)



	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
● Investment	20.46 (85)	-25.21 (37)	24.36 (60)	3.77 (20)	-1.56 (33)	1.61 (48)
● Index	20.40 (85)	-25.20 (37)	25.37 (43)	3.69 (21)	-1.66 (34)	1.99 (39)
Median	24.29	-25.64	24.90	1.14	-2.75	1.53

Comparative Performance

	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023	1 Qtr Ending Mar-2023	1 Qtr Ending Dec-2022
Investment	4.33 (75)	9.93 (54)	-4.02 (47)	2.61 (63)	6.66 (83)	14.67 (85)
Index	4.34 (75)	9.77 (58)	-3.33 (27)	2.53 (66)	6.42 (89)	14.14 (91)
Median	5.14	9.98	-4.13	2.95	7.84	16.91

Prior to January 2022, fund performance is shown in the absence of account level data.

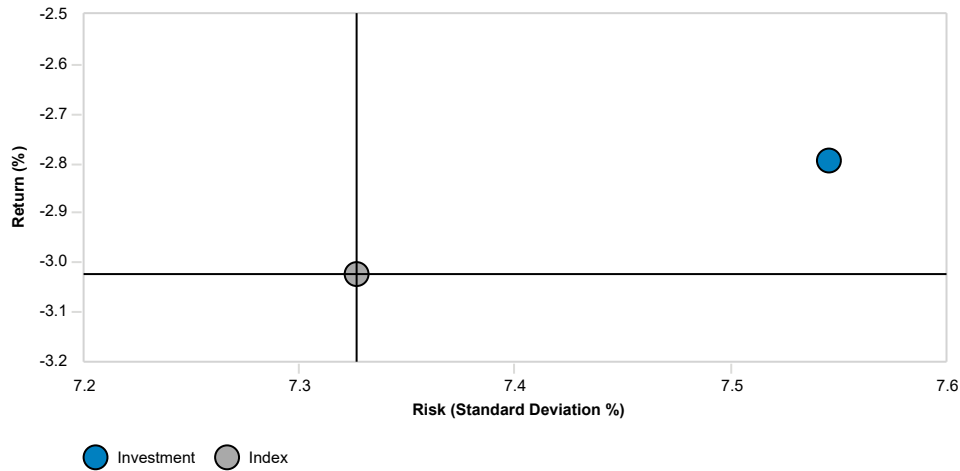
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-2.79	7.55	-0.75	101.62	5	99.06	7
Index	-3.02	7.33	-0.81	100.00	6	100.00	6

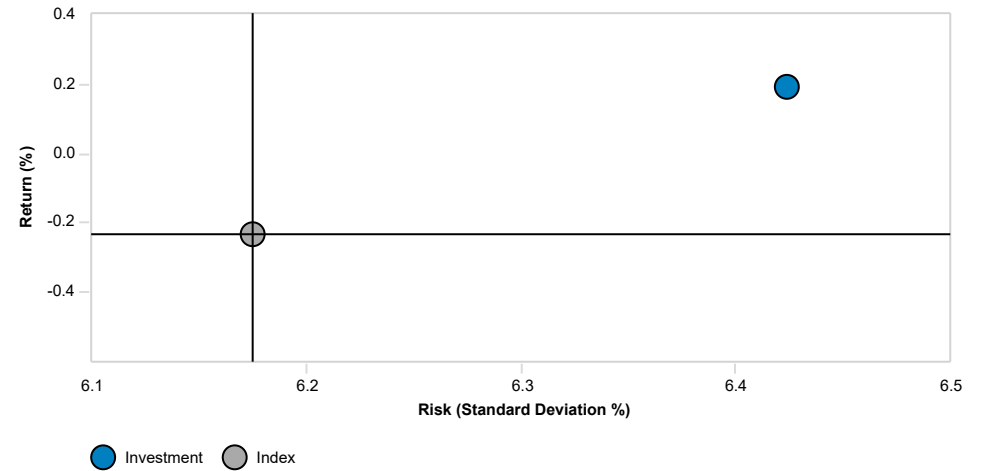
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	0.19	6.42	-0.27	105.50	11	100.02	9
Index	-0.23	6.17	-0.36	100.00	13	100.00	7

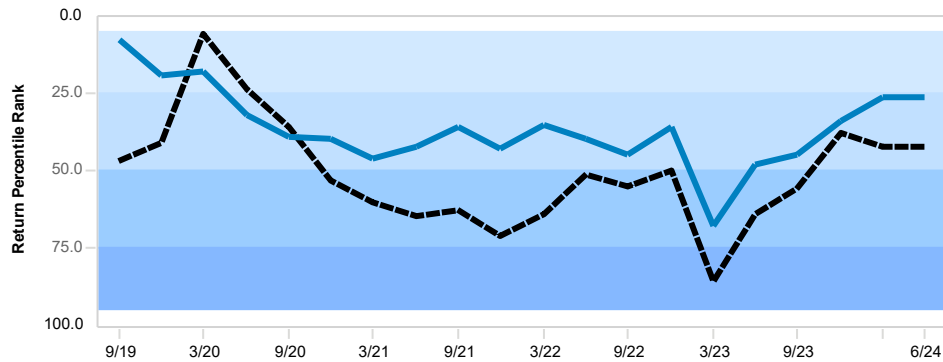
Risk and Return 3 Years



Risk and Return 5 Years

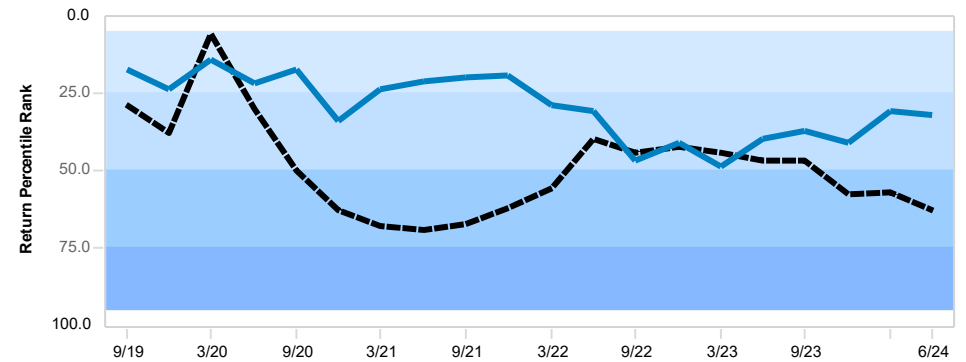


3 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	3 (15%)	16 (80%)	1 (5%)	0 (0%)
Index	20	2 (10%)	7 (35%)	10 (50%)	1 (5%)

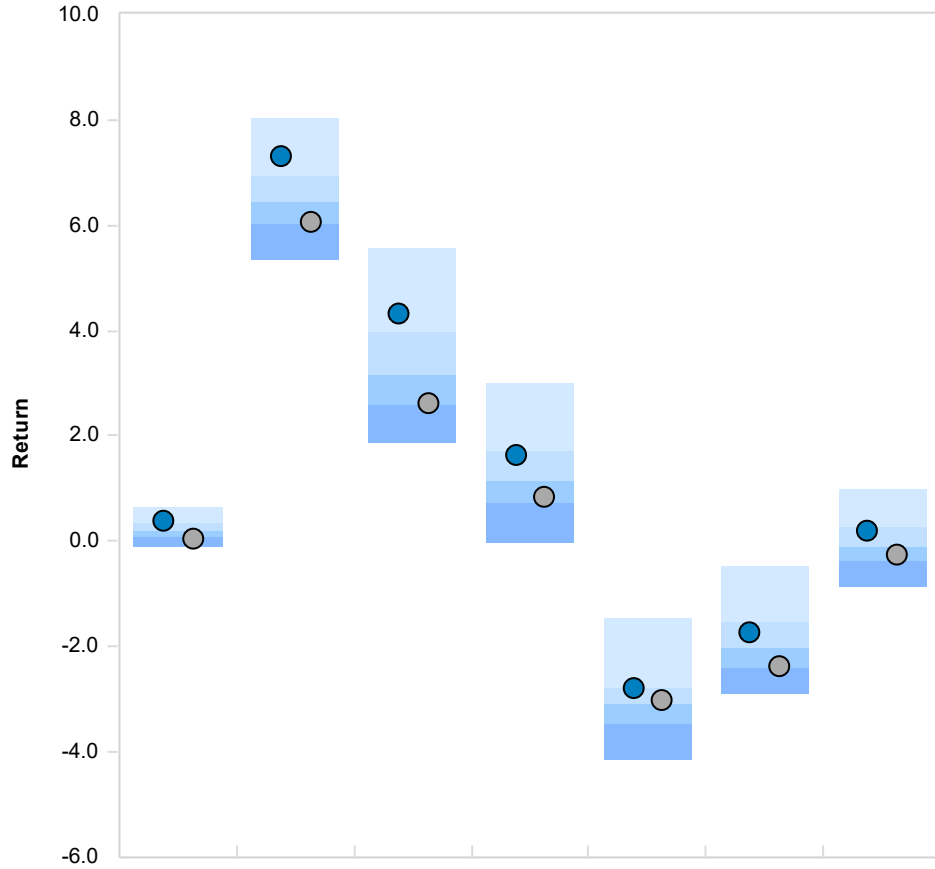
5 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (MF)



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

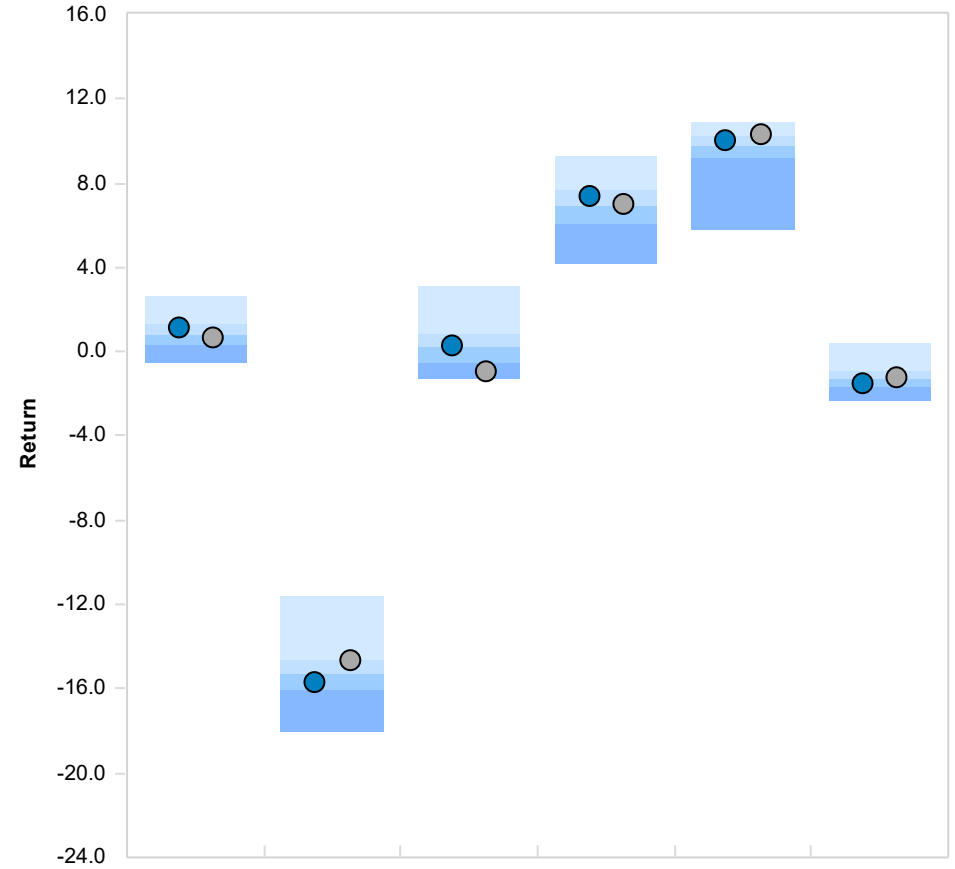
Prior to January 2022, fund performance is shown in the absence of account level data.

Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	0.38 (22)	7.32 (16)	4.33 (18)	1.66 (26)	-2.79 (26)	-1.74 (36)	0.19 (32)
● Index	0.07 (80)	6.06 (73)	2.63 (73)	0.83 (69)	-3.02 (42)	-2.36 (71)	-0.23 (63)
Median	0.21	6.44	3.13	1.15	-3.10	-2.04	-0.08

Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (MF)



	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
● Investment	1.17 (32)	-15.66 (63)	0.28 (46)	7.42 (33)	10.08 (36)	-1.51 (66)
● Index	0.64 (56)	-14.60 (24)	-0.90 (83)	6.98 (49)	10.30 (24)	-1.22 (42)
Median	0.77	-15.29	0.17	6.94	9.78	-1.32

Comparative Performance

	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023	1 Qtr Ending Mar-2023	1 Qtr Ending Dec-2022
Investment	-0.02 (17)	6.93 (35)	-2.79 (20)	-0.64 (24)	2.92 (73)	1.77 (45)
Index	-0.78 (80)	6.82 (46)	-3.23 (70)	-0.84 (55)	2.96 (69)	1.87 (35)
Median	-0.53	6.77	-3.08	-0.81	3.14	1.71

Prior to January 2022, fund performance is shown in the absence of account level data.

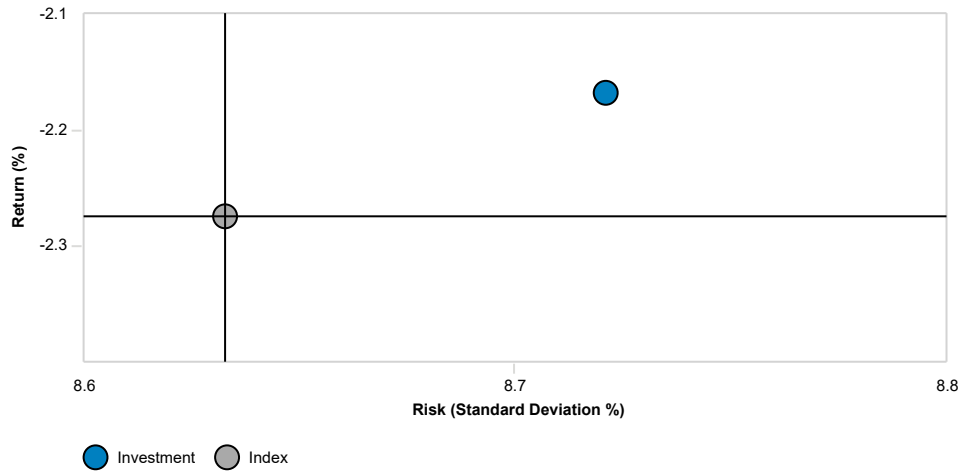
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-2.17	8.72	-0.56	101.89	5	100.69	7
Index	-2.27	8.63	-0.58	100.00	5	100.00	7

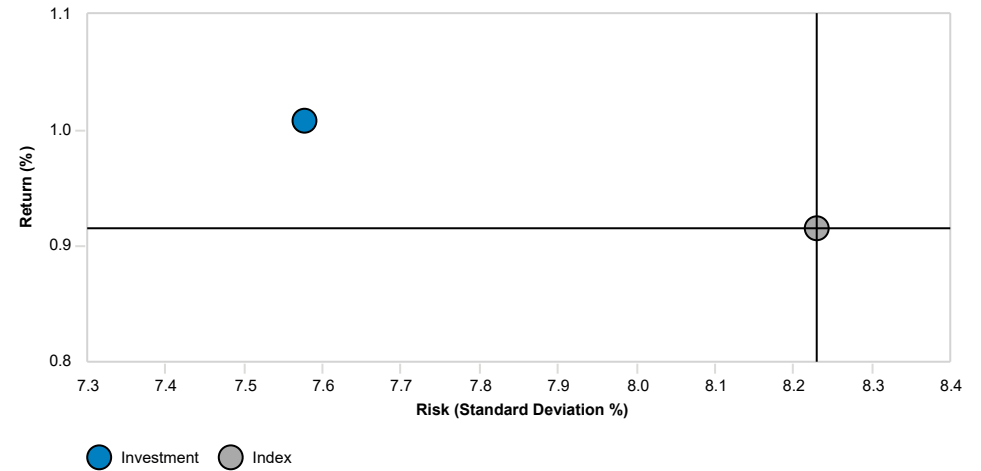
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	1.01	7.58	-0.11	94.26	11	93.14	9
Index	0.91	8.23	-0.11	100.00	11	100.00	9

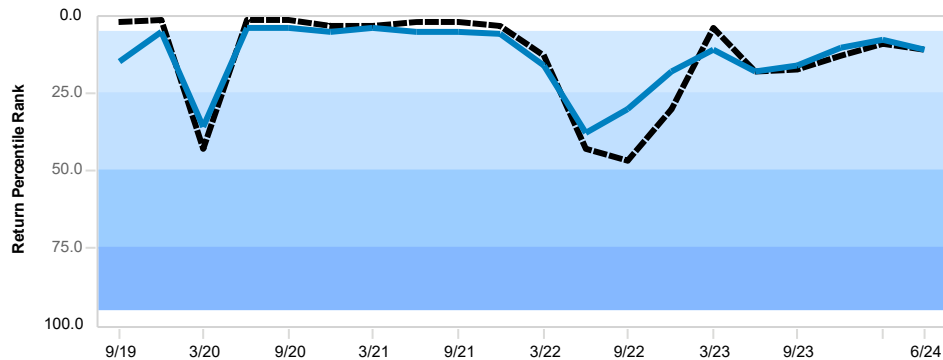
Risk and Return 3 Years



Risk and Return 5 Years

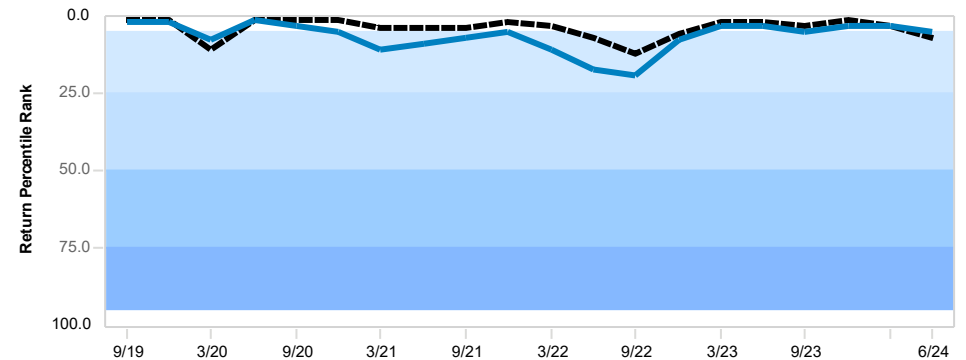


3 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (MF)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)
Index	20	16 (80%)	4 (20%)	0 (0%)	0 (0%)

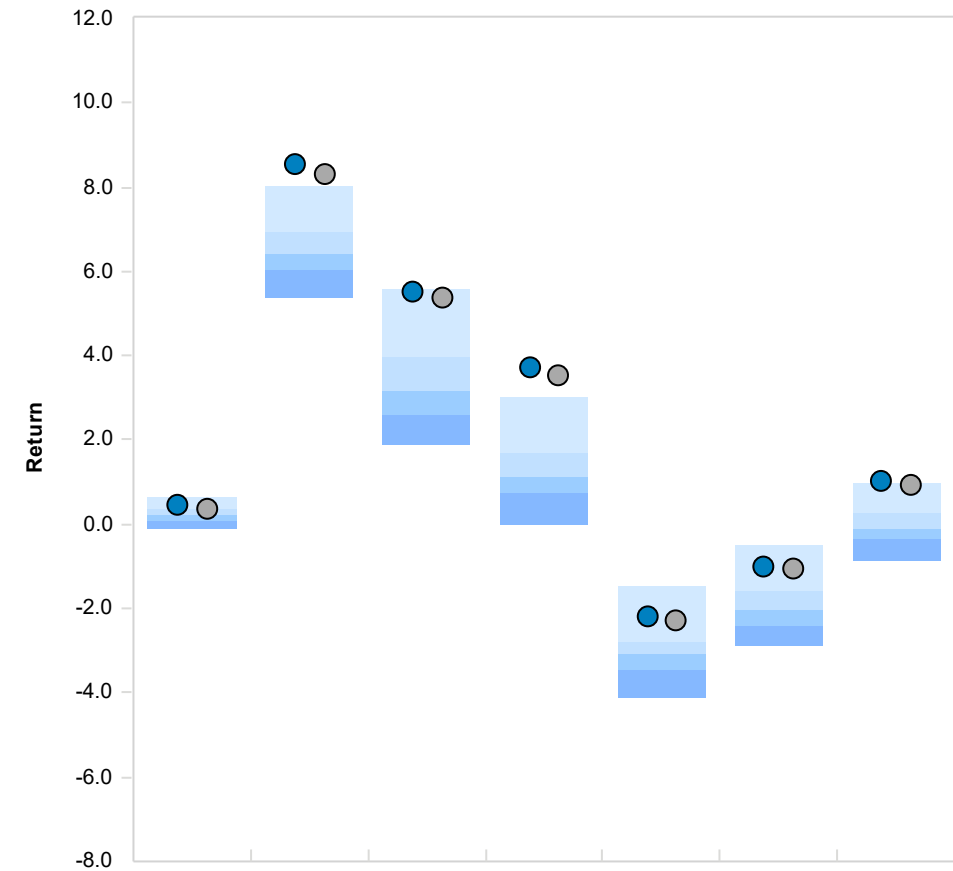
5 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (MF)



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

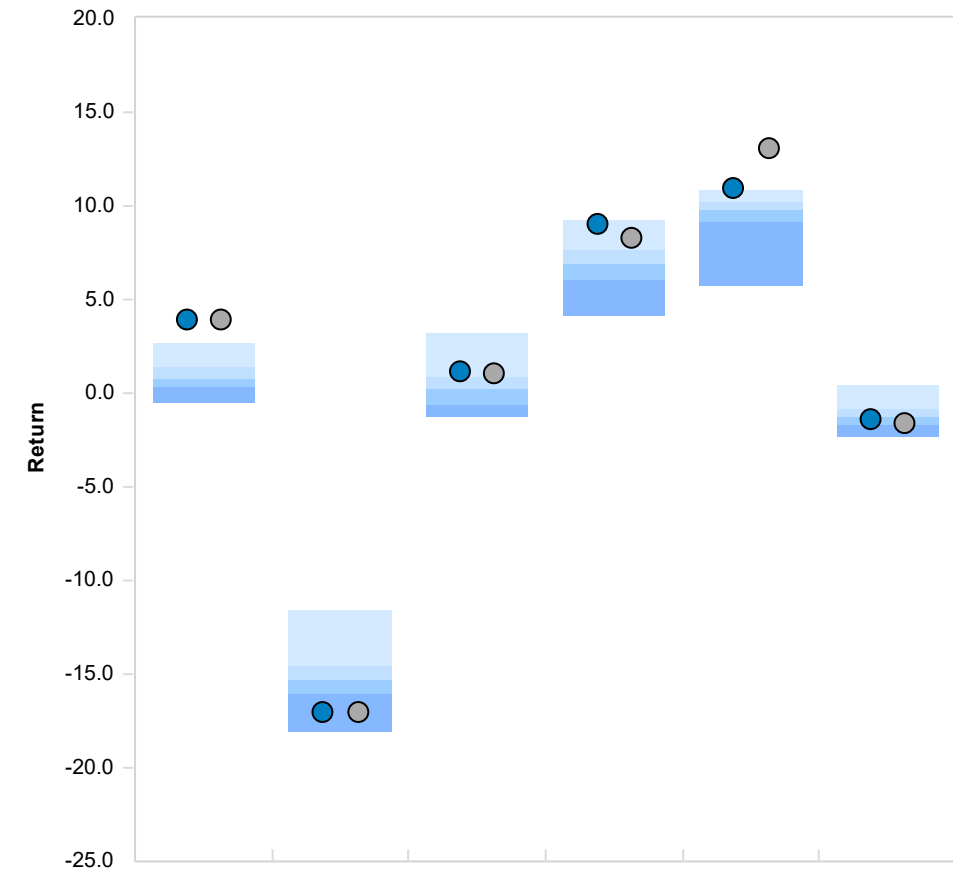
Prior to January 2022, fund performance is shown in the absence of account level data.

Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	0.47 (16)	8.54 (2)	5.52 (6)	3.71 (2)	-2.17 (11)	-1.01 (11)	1.01 (5)
● Index	0.39 (22)	8.30 (3)	5.36 (7)	3.55 (3)	-2.27 (11)	-1.03 (11)	0.91 (7)
Median	0.21	6.44	3.13	1.15	-3.10	-2.04	-0.08

Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (MF)



	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
● Investment	3.88 (2)	-17.02 (91)	1.13 (22)	9.07 (7)	11.01 (4)	-1.38 (54)
● Index	3.89 (2)	-17.07 (91)	1.05 (23)	8.31 (15)	13.12 (1)	-1.59 (70)
Median	0.77	-15.29	0.17	6.94	9.78	-1.32

Comparative Performance

	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023	1 Qtr Ending Mar-2023	1 Qtr Ending Dec-2022
Investment	-0.16 (22)	8.20 (1)	-2.78 (20)	-0.54 (17)	3.81 (5)	3.49 (1)
Index	-0.29 (30)	8.20 (1)	-2.71 (16)	-0.54 (16)	3.61 (10)	3.63 (1)
Median	-0.53	6.77	-3.08	-0.81	3.14	1.71

Prior to January 2022, fund performance is shown in the absence of account level data.

Private Equity Summary of Partnership
50 South Capital Private Equity Core Fund IX
As of June 30, 2024

Private Equity Summary of Partnership							
Partnerships	Valuation Date	Capital Commitment \$	Drawn Down \$	Market Value \$	Distributed \$	IRR (%)	TVPI Multiple
50 South Capital Private Equity Core Fund IX	06/30/2024	500,000	334,379	399,419	-	11.8	1.2

Fee Analysis
Total Fund
As of June 30, 2024

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Vanguard Total Stock Market Index Fund (VTSAX)	0.04	5,042,285	2,017	0.04 % of Assets
Total Domestic Equity	0.04	5,042,285	2,017	
Vanguard Total International Stock Index Fund (VTIAX)	0.11	1,192,553	1,312	0.11 % of Assets
Total International Equity	0.11	1,192,553	1,312	
PIMCO Total Return Fund (PTTRX)	0.47	1,086,813	5,108	0.47 % of Assets
Vanguard Intermediate-Term Investment-Grade Fund (VFIDX)	0.10	1,114,261	1,114	0.10 % of Assets
Total Domestic Fixed Income	0.28	2,201,074	6,222	
50 South Capital Private Equity Core Fund IX	0.94	399,419	3,755	0.94 % of Assets
Alternatives Composite	0.94	399,419	3,755	
R & D Cash		23,758	-	
Total Fund	0.15	8,859,089	13,306	

*Manager fees associated with money market or cash accounts are not tracked.
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.

Total Fund Policy	
Allocation Mandate	Weight (%)
Dec-2021	
CRSP U.S. Total Market TR Index	55.00
FTSE Global ex USA All Cap Index (Net)	15.00
Total Fixed Income Policy	30.00

Total Fixed Income Policy	
Allocation Mandate	Weight (%)
Dec-2021	
Blmbg. U.S. Aggregate Index	50.00
Blmbg. U.S. Gov/Credit: 5-10 Yr	50.00

Total Equity Policy	
Allocation Mandate	Weight (%)
Dec-2021	
CRSP U.S. Total Market TR Index	79.00
FTSE Global ex USA All Cap Index (Net)	21.00

Total Domestic Equity Policy	
Allocation Mandate	Weight (%)
Dec-2021	
CRSP U.S. Total Market TR Index	100.00

Total International Equity	
Allocation Mandate	Weight (%)
Dec-2021	
FTSE Global ex USA All Cap Index (Net)	100.00

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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