

Investment Performance Review
Period Ending December 31, 2022

Delray Beach Police Officers' Retirement System



On behalf of everyone at AndCo, we want to Thank You for the opportunity to serve you and for the trust you place in us! We take our role as your consultant and trusted advisor seriously and will continue working hard to maintain your confidence.

Looking back at the year, we would like to provide a brief update on where we stand as a firm. 2022 marked the 22nd straight year of revenue growth for the firm and we advise on approximately \$90 billion in client assets as of December 31st. We reinvested 100% of our net profits back into the organization so we can continue to evolve and adapt within a market environment that is constantly changing and challenging. As we have stated in previous updates, we do not believe the “status quo” is an effective strategy and we are convicted in our belief that a firm not focused on moving forward in our industry is moving backward.

To execute on our commitment to evolve and continue to enhance the organization, we made additional personnel and technology investments in 2022. Specifically, we hired a Chief Information Officer (Bharat Kumta) after a national search led by a specialized executive recruiting firm. We believe technology is going to drive successful firms in our industry and we plan to invest heavily within this business function to support digital transformation. We also integrated a new Chief Human Resources Officer (Stacie Runion) through a national search led by an executive recruiter. We believe our firm's most important asset is our people, so we need to ensure we have the right leadership team in HR to focus on that asset. We also hired team members in Finance, Human Resources, Consulting, Research, Solutions & Growth, Technology and Performance & Reporting. These personnel investments focused on further enhancing functional areas, departmental service levels, and narrowing potential gaps. We also continued to invest in our proprietary software system to compile and share information firmwide to better serve our clients more effectively and efficiently. Finally, we engaged several outside consulting firms to help us better assess and invest in areas within our firm we believe will drive value for our clients going forward. Some examples include working with an outside group to evaluate and enhance our Operational Due Diligence efforts with investment managers and a separate group to help us review and analyze our current Discretionary Services offerings and how to make this service stronger for our clients.

As we start 2023, we are 93 team members strong with plans to grow. We are targeting several new positions for the year as we thoughtfully continue to invest in our firm to provide the quality services you expect from AndCo. These talent enhancements cover multiple functions and departments at AndCo including Consulting, Research, Performance & Reporting, Marketing, Technology and Compliance. While adding additional resources to a firm our size is a significant investment, it is one we embrace due to the impact we believe it will have on our ability to continue serving our clients at a high level and will push us closer to our vision of being a transformational organization viewed as the leader in our industry. We thoughtfully grow while helping to ensure that service will not suffer at AndCo at the expense of growth. Rather, we utilize growth to enhance our value proposition and overall service to our valued clients.

At the beginning of each year, we also discuss the AndCo partnership and, when earned, announce new partners.

This year I am thrilled to share three new team members were named partners at AndCo – Jon Breth, Tyler Grumbles and Brooke Wilson. Jon has been with AndCo for 11-years and Tyler has been with AndCo for 15-years. Jon and Tyler are both members of our Consulting Department. Brooke was recently promoted to Executive Director of our Performance & Reporting Department and has been with AndCo 7-years. We could not be happier for Jon, Tyler, and Brooke or more grateful for the contributions they have made to AndCo since joining the firm. Jon, Tyler, and Brooke represent what it means to be an AndCo team member, and we are honored and fortunate to have them as partners at our firm.

While three new members will be added to the partnership in 2023, we will also be losing one valuable team member. Donna Sullivan retired on December 31, 2022. Donna joined AndCo at its inception in September of 2000. Donna has been integral in the success of the firm and for many years was the glue that held everything together. Her contributions and sacrifices are too many to reference in this letter. While we are extraordinarily excited for her and the next chapter of her life, she will be greatly missed as a partner and team member. We will be honoring Donna and her legacy with the Donna Sullivan Believe Award. This award will be given each year to the team member at AndCo that best demonstrates their belief in AndCo's Mission, Vision, and Values. Donna believed in what AndCo stood for before anyone else did, and she carried that belief for 23 years. Thank you, Donna!

With the addition of Jon, Tyler, and Brooke, and Donna's retirement, we now have 15 partners representing various functions and departments at AndCo. Our growing partnership group provides great perspective and insight which continues to strengthen AndCo and reaffirm our belief that 100% employee management is vital to the long-term success of our organization. We have great team members at AndCo and this partnership group will continue to expand as we move forward.

In closing, we know that 2022 was a dramatically different environment for investing as compared to 2021, with record high inflation and double-digit losses in both equity AND fixed income assets - all resulting in challenging client portfolio results. Please know our team works tirelessly to provide the advice and guidance you need regardless of the market environment. Our name, AndCo, reminds us of who we work for every day - “Our Client” &Co. You are first in our service model. As we continue to discuss strategic decisions and reinvestments regarding our firm, please know that our decisions are filtered through the following question: “How does this keep our clients' interests first?” If it doesn't meet this standard, we don't do it - it's that simple.

Thank you again for your valued partnership and the opportunity to serve you.
Happy New Year!



Mike Welker, CFA®
CEO



Organizational Chart



PARTNERSHIP

Mike Welker, CFA®
Brian Green
Brooke Wilson, CIPM®
Bryan Bakardjiev, CFA®
Dan Johnson
Dan Osika, CFA®
Evan Scussel, CFA®, CAIA®
Jacob Peacock, CPFA

Jason Purdy
Jon Breth, CFP®
Kerry Richardville, CFA®
Kim Spurlin, CPA
Steve Gordon
Troy Brown, CFA®
Tyler Grumbles, CFA®, CIPM®, CAIA®

LEADERSHIP & MANAGEMENT

Mike Welker, CFA®
 CEO

Bharat Kumta
 CIO

Bryan Bakardjiev, CFA®
 COO

Evan Scussel, CFA®, CAIA®
 Executive Director of Research

Kim Spurlin, CPA
 CFO

Sara Searle
 CCO

Stacie Runion
 CHRO

Steve Gordon
 Solutions & Growth Director

Troy Brown, CFA®
 Executive Director of Consulting

Brooke Wilson, CIPM®
 Executive Director of Performance Reporting

Dan Johnson
 Consulting Director

Jack Evatt
 Consulting Director

Jacob Peacock, CPFA
 Consulting Director

Jason Purdy
 I.T. Director

Molly Halcom
 Solutions & Growth Director

Philip Schmitt
 Research Director

Rachel Brignoni, MHR
 People & Culture Director

INVESTMENT POLICY COMMITTEE

Bryan Bakardjiev, CFA®
Mike Welker, CFA®

Sara Searle
Troy Brown, CFA®

CONSULTING

Annette Bidart
Brad Hess, CFA®, CPFA
Brendon Vavrica, CFP®
Brian Green
Chris Kuhn, CFA®, CAIA®
Christiaan Brokaw, CFA®
Dave West, CFA®
Doug Anderson, CPFA
Frank Burnette
Gwelda Swilley
Ian Jones

James Ross
Jeff Kuchta, CFA®, CPFA
Jennifer Brozstek
Jennifer Gainfort, CFA®, CPFA
John Mellinger
John Thinnis, CFA®, CAIA®, CPFA
Jon Breth, CFP®
Jorge Friguls, CPFA
Justin Lauver, Esq.
Kerry Richardville, CFA®

Mary Nye
Michael Fleiner
Michael Holycross
Mike Bostler
Oleg Sydyak, CFA®, FSA, EA
Paul Murray, CPFA
Peter Brown
Tim Walters
Tony Kay
Tyler Grumbles, CFA®, CIPM®, CAIA®

PERFORMANCE REPORTING

Albert Sauerland
Amy Steele
Bob Bulas
David Gough, CPFA
Don Delaney
Donnell Lehrer, CPFA

Edward Cha
Grace Niebrzydowski
James Culpepper
James Reno
Jeff Pruniski
Joe Carter, CPFA

Julio Garcia Rengifo
Kim Hummel
Rotchild Dorson
Yoon Lee-Choi

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FINANCE
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Michelle Boff
Robert Marquetti

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Shelley Berthold

I.T. & OPERATIONS
Geoffrey Granger
Jerry Camel
Kenneth Day

COMPLIANCE
Allen Caldwell
Thay Arroyo

MARKETING
Lauren Kaufmann

SOLUTIONS & GROWTH
Dan Osika, CFA®
John Rodak, CIPM®
Paola Gervasi

RESEARCH

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 Public Equity & Fixed Income

Ben Baldrige, CFA®, CAIA®
 Private & Hedged Fixed Income

Chester Wyche
 Real Estate & Real Assets

Dan Lomelino, CFA®
 Fixed Income

David Julier
 Real Estate & Real Assets

Elizabeth Wolfe
 Capital Markets & Asset Allocation

Evan Scussel, CFA®, CAIA®
 Private & Public Equity

Joseph Ivaszuk
 Operational Due Diligence

Josue Christiansen, CFA®, CIPM®
 Public Equity

Julie Baker, CFA®, CAIA®
 Private & Hedged Equity

Justin Ellsesser, CFA®, CAIA®
 Private Equity

Kevin Laake, CFA®, CAIA®
 Private Equity

Michael Kosoff
 Hedge Funds

Philip Schmitt
 Fixed Income & Capital Markets

Ryan McCuskey
 Real Estate & Real Assets

Xinxin Liu, CFA®, FRM
 Private Equity and Private Debt

Zac Chichinski, CFA®, CIPM®
 Public Equity



93
EMPLOYEES

37 ADVANCED
DEGREES

23 CFA®

8 CAIA®

11 CPFA 5 CIPM®

Employee counts are as of 1/1/2023 and reflect only full time employees and do not include any who are part time, temporary or independent contractors.



4th Quarter 2022 Market Environment



The Economy

- US GDP growth is expected to remain strong in the 4th quarter. While the final measure of 3rd quarter GDP was revised upward to 3.2%, global GDP growth remains challenged with higher energy prices continuing to act as a headwind, especially in Europe. However, China is beginning the process of reopening its economy which should boost emerging markets.
- The US Federal Reserve Bank (the Fed) continued to increase interest rates during the quarter with a 0.75% increase in November and a 0.50% increase in December. Importantly, the Fed signaled it remains committed to fighting inflation through additional rate hikes if needed.
- The US labor market continued to show its resiliency by adding roughly 680 thousand jobs during the 4th quarter. As a result, the unemployment rate fell to 3.5% in December. Despite these gains, the number of announced layoffs during the quarter increased, which could impact labor markets in the future periods.
- Global markets were broadly positive during the 4th quarter. Despite persistent inflation, tighter central bank monetary policy, slowing GDP growth, and continuing geopolitical risks investors were focused on the potential of central banks slowing the pace of tightening as inflation moderated.

Equity (Domestic and International)

- US equities moved higher during the 4th quarter despite concerns regarding inflation, the potential for higher interest rates, and a slowing global GDP growth. Large cap value was the best performing domestic segment of the equity market relative to other US market capitalizations and styles during the period while large cap growth performed the worst.
- International stocks also experienced strong returns during the 4th quarter. While local currency performance was solid, the primary catalyst for outsized returns was a weakening USD, which fell against most major and emerging market currencies. GDP growth, especially in Europe, remained under pressure as central bank policies remained restrictive and elevated energy prices acted as a headwind. Finally, China began to relax its zero-tolerance policy regarding Covid-19, which positively contributed to both global GDP growth and equity market performance.

Fixed Income

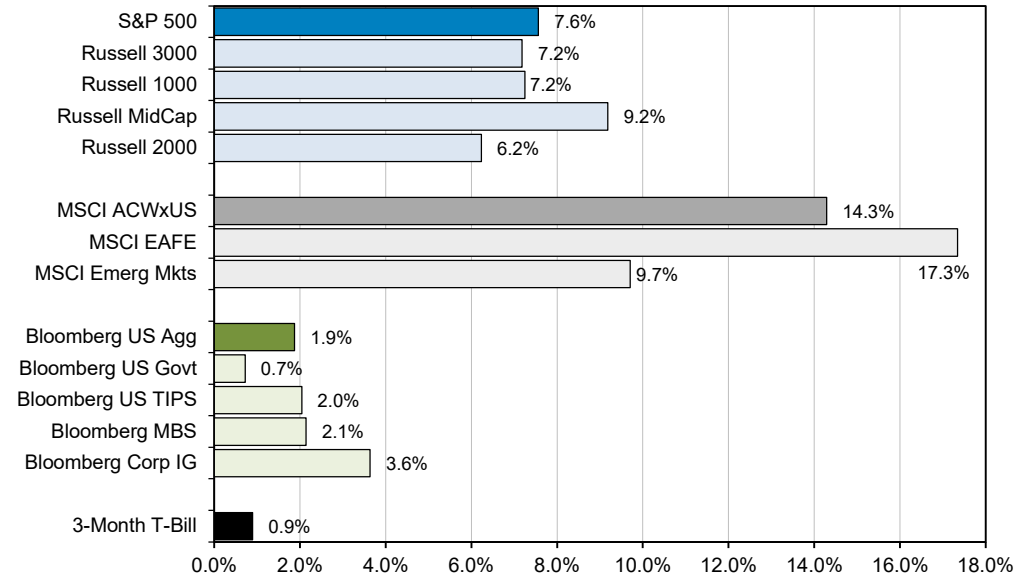
- While inflation declined during the 4th quarter, the Fed continued increasing interest rates with two increases totaling 1.25%. Despite the short-term increases, long-term interest rates remained relatively stable during the period. US interest rates moved slightly higher during the quarter with the US 10-Year Treasury bond rising 0.08% to close the year at a yield of 3.88%.
- Performance across domestic bond market sectors was positive during the quarter, led by US high yield and corporate investment grade bonds. Much like equities, global bonds outperformed their domestic peers mainly due to a weaker USD.
- The combination of higher coupons, a shorter maturity profile relative to high quality government bonds, and narrower credit spreads were the primary drivers of relative return during the period.
- US Treasury bonds lagged their corporate bond peers during the quarter as investors' concerns about rising interest rates and the need for safety subsided.

Market Themes

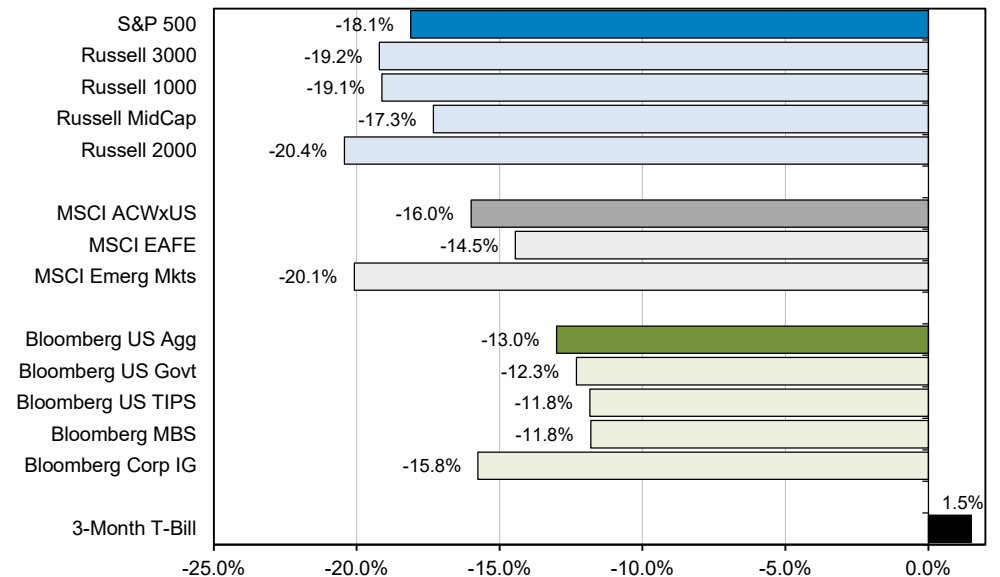
- Central banks remained vigilant in their fight against inflation with the Fed, the Bank of England, and the European Central Bank all raising interest rates during the quarter. Additionally, the Bank of Japan relaxed their targeting of interest rates, allowing the 10-Year Japanese Government Bond to float to 0.50%, above the previous 0.25% level.
- The conflict in Ukraine continues to disrupt global energy markets, in addition to the ongoing humanitarian crisis. Energy costs remain elevated which could further negatively impact economic growth.
- Both US and international equity markets rebounded during the quarter on expectations that inflation would continue to moderate, which could lead central banks to begin the process of slowing the pace of monetary tightening. Value-oriented stocks outperformed growth stocks as investors remained concerned about the pace of future growth.
- Short-term interest rates rose across most developed markets as central banks continued to tighten. Despite concerns about the potential for slowing economic growth, lower quality corporate bonds outperformed higher quality government bonds and USD weakness acted as a tailwind for global bonds during the quarter.

- Equity markets moved higher during the 4th quarter, but it was not sufficient to offset prior quarter pullbacks. Factors that contributed to performance included declining inflation, expectations that the Fed would slow the pace of future interest rate increases, and expectations that China would begin to open its economy. For the period, the S&P 500 large cap benchmark returned 7.6%, compared to 9.2% for mid-cap and 6.2% for small cap benchmarks.
- Like domestic equities, developed markets international and emerging market equities delivered positive results for the 4th quarter. Europe continues to face headwinds from higher-than-expected inflation, elevated energy prices, geopolitical risks related to the conflict in Ukraine, and rising interest rates. Emerging markets were positively impacted by China's decision to loosen restrictions related to the pandemic. Importantly, global equities were positively impacted by a decline in the USD. For the quarter, the MSCI EAFE Index returned 17.3% while the MSCI Emerging Markets Index rose by 9.7%.
- For the quarter, performance of the bond market was broadly positive due to lower inflation and lower interest rate volatility. The Bloomberg (BB) US Aggregate Index returned 1.9%, for the period while investment grade corporate bonds posted a return of 3.6%.
- Performance for developed equity markets was strongly negative over the trailing 1-year period. The bellwether S&P 500 Index dropped -18.1% for the year. The primary drivers of return during the period were concerns related to rising inflation, tighter monetary policy from global central banks, and slowing global economic growth. The weakest relative performance outlier was the Russell 2000 Index which declined by -20.4% for the year.
- Over the trailing 1-year period, international markets declined similarly to domestic markets. The MSCI EAFE Index returned -14.5% while the MSCI Emerging Markets Index fell by -20.1%. Continued concerns related to Ukraine, elevated inflation, and slowing global economic growth negatively impacted markets. However, a weakening USD acted as a tailwind to international performance in the second half of the year.
- Bond market returns were widely negative over the trailing 1-year period due primarily to concerns about persistently high inflation and the expectation of higher future interest rates. US TIPS and mortgage-backed bonds were the least negative sectors with both returning -11.6% for the year. Investment grade corporate bonds suffered the year's largest loss, falling -15.8%.

Quarter Performance



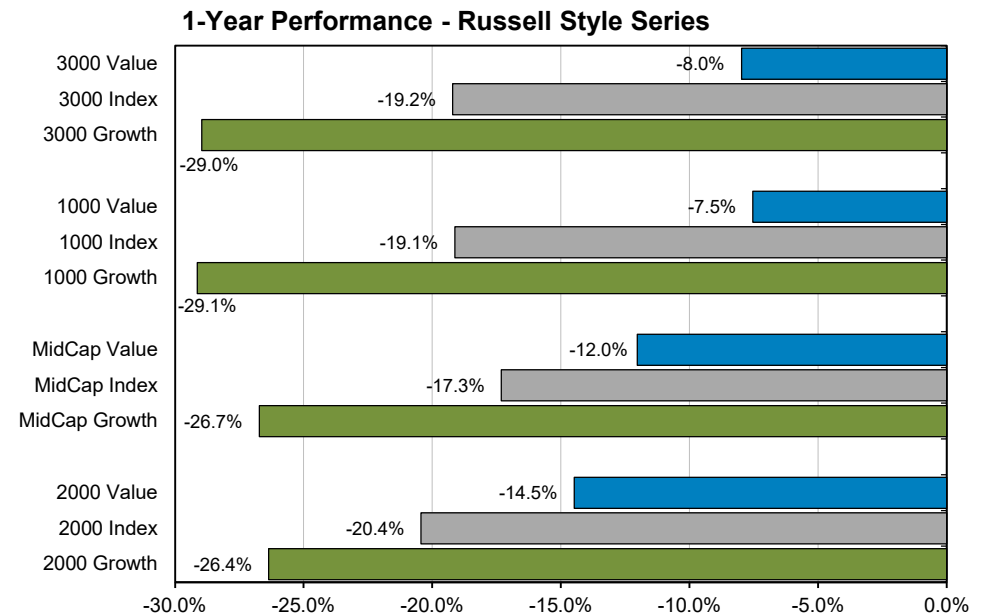
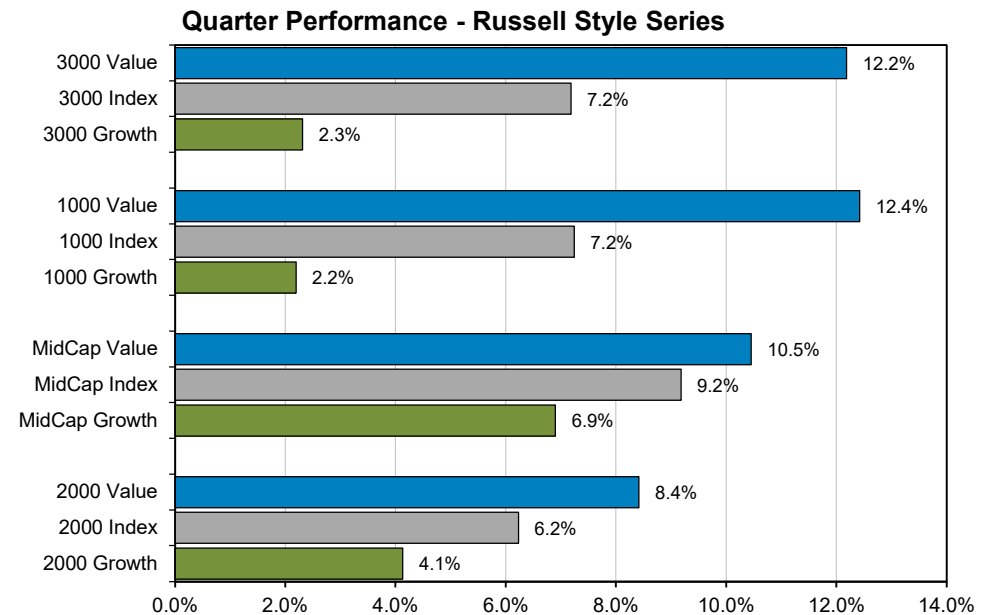
1-Year Performance



Source: Investment Metrics



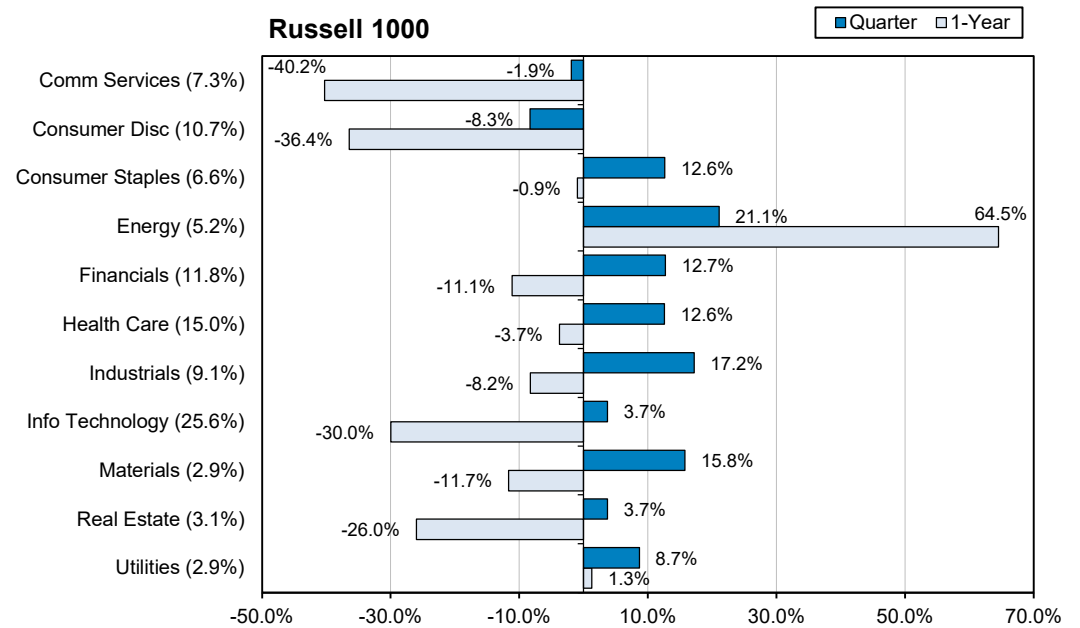
- Despite a pullback in December, equity markets broadly experienced strong absolute returns during the 4th quarter across both the style and market capitalization spectrums. With concerns about the potential for slowing economic conditions, large cap stocks resumed their leadership, followed by mid and small cap stocks. The Russell 1000 Value Index delivered 12.4% for the quarter, followed by while the Russell Mid Cap Value Index and the Russell 2000 Index, which rose by 10.5% and 8.4%, respectively.
- Performance across styles and market capitalizations was disparate during the quarter. Large, mid, and small cap value stocks all outperformed their growth counterparts. For the period, the Russell 1000 Value Index was the best relative performing style index, posting a return of 12.4%. Large and small cap growth stocks were the laggards during the period with the Russell Large Cap Growth Index and Russell 2000 Growth Index returning 2.2% and 4.1%, respectively.
- In contrast to the 4th quarter's positive performance, there was a wide range of negative results across market capitalizations over the trailing 1-year period. The Russell 2000 Index returned a disappointing -20.4% for the year, which underperformed both its large and mid cap index counterparts.
- There was also a wide performance dispersion across the style-based indexes for the year with growth stocks down significantly more than their value counterparts at all capitalization ranges. Within large cap stocks, the Russell 1000 Value Index returned -7.5% compared to much larger -29.1% decline for the Russell Large Cap Growth benchmark. The Russell Mid Cap Value Index returned -12.0% while the Russell 2000 Value Index returned -14.5% for the period. While these value benchmark results represented double-digit losses for the year, the Russell Mid Cap Growth Index fell a much larger -26.7% and the Russell 2000 Growth Index declined by a similar -26.4%.



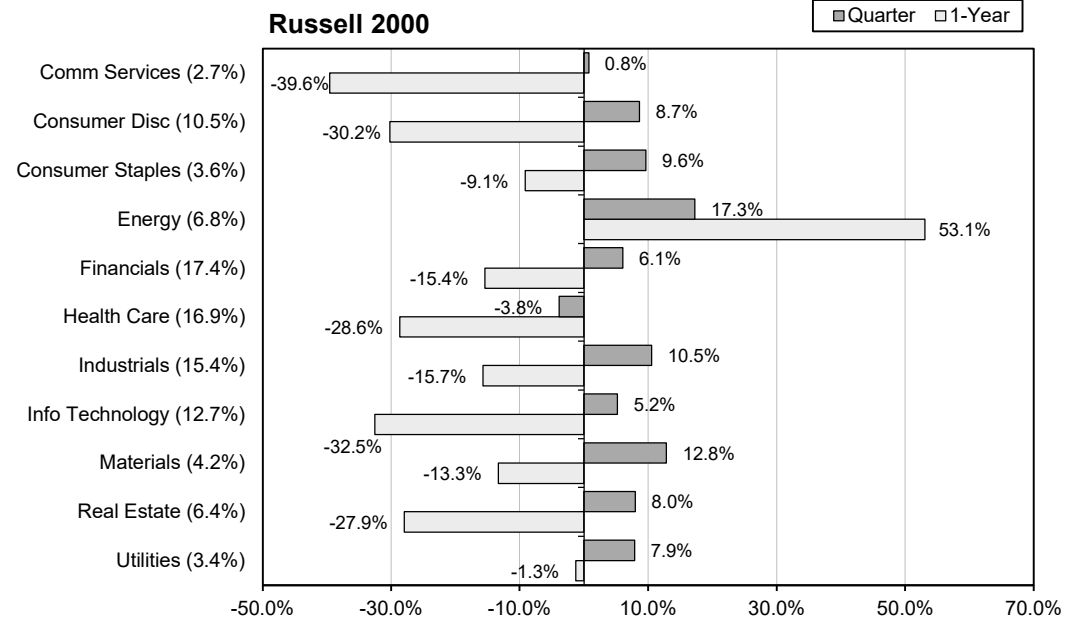
Source: Investment Metrics



- Economic sector performance was positive for nine of the eleven large cap economic sectors for the 4th quarter. Seven sectors outpaced the return of the broad index on a relative basis during the period.
- Energy continued its strong 2022 performance with a 4th quarter return of 21.1%. Other sectors that outpaced the headline index's return for the quarter included industrials (17.2%), materials (15.8%), financials (12.7%), healthcare (12.6%), consumer staples (12.6%), and utilities (8.7%). The real estate (3.7%), information technology (3.7%), communication services (-1.9%), and consumer discretionary (-8.3%) sectors all trailed the Russell 1000 Index return for the period.
- For the full year, seven economic sectors exceeded the return of the broad large cap benchmark but only the energy (64.5%) and utilities (1.3%) sectors managed to post positive, albeit vastly different, results. The weakest economic sector performance in the Russell 1000 for the year was communication services which declined by a staggering -40.2%.



- Ten small cap economic sectors posted positive returns during the quarter and seven exceeded the 6.2% return of the broader Russell 2000 Index. The energy (17.3%), materials (12.8%), and industrials (10.5%) sectors each posted double-digit positive results for the quarter. The only small cap economic sector that posted negative performance for the quarter was health care which fell by -3.8%.
- For the trailing 1-year period, six of the eleven economic sectors were down less than the broad small cap benchmark's return of -20.4%. Energy was the best performing and only positive economic sector for the year with a strong return of 53.1%. The utilities (-1.3%) and consumer staples (-9.1%) sectors were only small cap index segments to fall less than double-digit amounts for the year. The worst performing sector for the full year was communication services with a return of -39.6%. In addition, the information technology (-32.5%), consumer discretionary (-30.2%), health care (28.6%), and real estate (-27.9%) sectors all were down significantly for the year.



Source: Morningstar Direct



The Market Environment
Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000
As of December 31, 2022

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	5.5%	-5.8%	-26.4%	Information Technology
Microsoft Corp	5.1%	3.3%	-28.0%	Information Technology
Amazon.com Inc	2.1%	-25.7%	-49.6%	Consumer Discretionary
Berkshire Hathaway Inc Class B	1.6%	15.7%	3.3%	Financials
Alphabet Inc Class A	1.5%	-7.8%	-39.1%	Communication Services
UnitedHealth Group Inc	1.4%	5.3%	7.0%	Health Care
Alphabet Inc Class C	1.3%	-7.7%	-38.7%	Communication Services
Johnson & Johnson	1.3%	8.8%	6.0%	Health Care
Exxon Mobil Corp	1.3%	27.4%	87.4%	Energy
JPMorgan Chase & Co	1.1%	29.5%	-12.6%	Financials

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Horizon Therapeutics PLC	0.1%	83.9%	5.6%	Health Care
Burlington Stores Inc	0.0%	81.2%	-30.4%	Consumer Discretionary
Halliburton Co	0.1%	60.4%	74.5%	Energy
Universal Health Services Inc Class B	0.0%	60.0%	9.4%	Health Care
PVH Corp	0.0%	57.7%	-33.7%	Consumer Discretionary
Spectrum Brands Holdings Inc	0.0%	57.4%	-38.6%	Consumer Staples
Boeing Co	0.3%	57.3%	-5.4%	Industrials
Under Armour Inc A	0.0%	52.8%	-52.1%	Consumer Discretionary
Exact Sciences Corp	0.0%	52.4%	-36.4%	Health Care
Moderna Inc	0.2%	51.9%	-29.3%	Health Care

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Carvana Co Class A	0.0%	-76.7%	-98.0%	Consumer Discretionary
Opendoor Technologies Inc Class A	0.0%	-62.7%	-92.1%	Real Estate
Tesla Inc	0.9%	-53.6%	-65.0%	Consumer Discretionary
Lucid Group Inc Shs	0.0%	-51.1%	-82.1%	Consumer Discretionary
Guardant Health Inc	0.0%	-49.5%	-72.8%	Health Care
Affirm Holdings Inc - Class A	0.0%	-48.5%	-90.4%	Information Technology
WeWork Inc	0.0%	-46.0%	-83.4%	Real Estate
AppLovin Corp - Class A	0.0%	-46.0%	-88.8%	Information Technology
Ginkgo Bioworks Holdings Inc	0.0%	-45.8%	-79.7%	Materials
Olaplex Holdings Inc	0.0%	-45.5%	-82.1%	Consumer Staples

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Halozyme Therapeutics Inc	0.3%	43.9%	41.5%	Health Care
ShockWave Medical Inc	0.3%	-26.1%	15.3%	Health Care
Inspire Medical Systems Inc	0.3%	42.0%	9.5%	Health Care
EMCOR Group Inc	0.3%	28.4%	16.8%	Industrials
Crocs Inc	0.3%	57.9%	-15.4%	Consumer Discretionary
Matador Resources Co	0.3%	17.2%	55.9%	Energy
Iridium Communications Inc	0.3%	15.8%	24.5%	Communication Services
Murphy Oil Corp	0.3%	22.9%	68.3%	Energy
Agree Realty Corp	0.3%	6.0%	3.5%	Real Estate
Texas Roadhouse Inc	0.3%	4.7%	4.1%	Consumer Discretionary

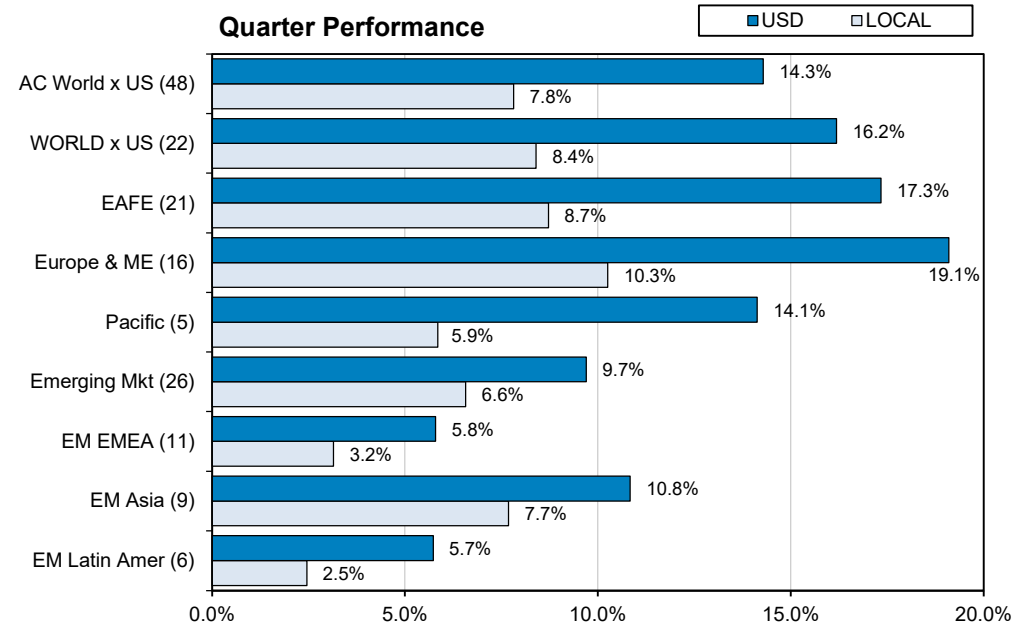
Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Madrigal Pharmaceuticals Inc	0.2%	346.6%	242.5%	Health Care
Immunovant Inc	0.0%	218.1%	108.3%	Health Care
Rayonier Advanced Materials Inc	0.0%	204.8%	68.1%	Materials
Maxar Technologies Inc	0.2%	176.5%	75.5%	Industrials
4D Molecular Therapeutics Inc	0.0%	176.2%	1.2%	Health Care
Icosavax Inc	0.0%	151.3%	-65.3%	Health Care
Imago BioSciences Inc	0.0%	138.9%	51.6%	Health Care
Provention Bio Inc	0.0%	134.9%	88.1%	Health Care
Biohaven Ltd	0.0%	120.3%	N/A	Health Care
Oceaneering International Inc	0.1%	119.7%	54.6%	Energy

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Tricida Inc	0.0%	-98.5%	-98.4%	Health Care
Relmada Therapeutics Inc	0.0%	-90.6%	-84.5%	Health Care
Avaya Holdings Corp	0.0%	-87.7%	-99.0%	Information Technology
Instil Bio Inc	0.0%	-87.0%	-96.3%	Health Care
Greenidge Generation Holdings Inc.	0.0%	-85.5%	-98.2%	Information Technology
Eiger BioPharmaceuticals Inc	0.0%	-84.3%	-77.3%	Health Care
Cano Health Inc - Class A	0.0%	-84.2%	-84.6%	Health Care
Gossamer Bio Inc	0.0%	-81.9%	-80.8%	Health Care
Rockley Photonics Holdings Ltd	0.0%	-80.3%	-96.8%	Information Technology
Boxed Inc	0.0%	-78.9%	-98.6%	Consumer Discretionary

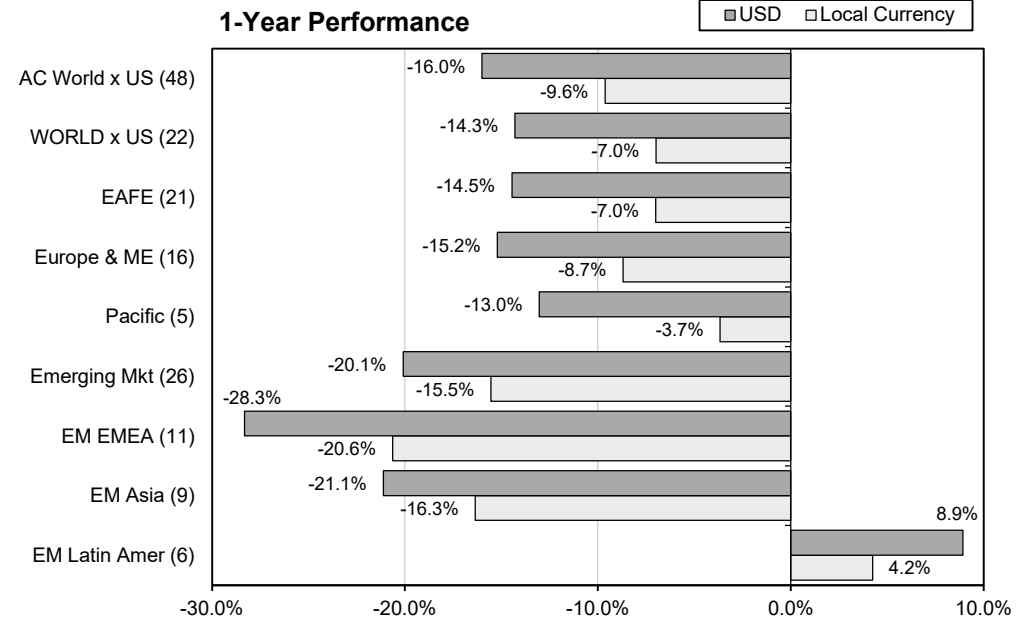
Source: Morningstar Direct



- Each of the developed and emerging market international equity indexes tracked in the chart posted positive returns in both US dollar (USD) and local currency (LC) terms for the 4th quarter. A weaker USD acted as a tailwind for non-US index performance during the quarter. Higher energy prices and the reopening of China also drove performance, especially in emerging markets. The developed market MSCI EAFE Index returned a strong 17.3% in USD and 8.7% in LC terms for the period, and the MSCI Emerging Markets Index rose by 9.7% in USD and 6.6% in LC terms.



- The trailing 1-year results for international developed and emerging markets were negative across most regions and currencies. The MSCI EAFE Index returned -14.5% in USD for the year and -7.0% in LC terms. Similarly, returns across emerging markets were broadly lower except for Latin America which returned 8.9% in USD and 4.2% in LC terms. The MSCI Emerging Markets Index declined by -20.1% in USD and -15.5% in LC terms for the year. Performance in the EMEA regional benchmark significantly detracted from emerging market index performance with the EMEA Index posting returns of -28.3% in USD and -20.6% in LC terms.



Source: MSCI Global Index Monitor (Returns are Net)



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

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.8%	10.1%	-16.8%
Consumer Discretionary	5.0%	17.8%	-22.4%
Consumer Staples	18.7%	10.6%	-13.0%
Energy	4.5%	19.8%	27.7%
Financials	15.1%	23.9%	-4.6%
Health Care	13.6%	14.2%	-11.0%
Industrials	10.5%	19.0%	-20.6%
Information Technology	7.8%	14.9%	-32.4%
Materials	11.1%	20.7%	-10.3%
Real Estate	3.5%	11.0%	-20.9%
Utilities	2.6%	19.4%	-12.4%
Total	100.0%	17.3%	-14.5%

MSCI - ACWixUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	8.4%	12.0%	-21.6%
Consumer Discretionary	6.0%	14.7%	-21.7%
Consumer Staples	21.0%	9.8%	-11.9%
Energy	5.9%	13.3%	8.1%
Financials	12.3%	15.6%	-7.3%
Health Care	9.8%	14.1%	-12.9%
Industrials	8.9%	17.3%	-18.4%
Information Technology	10.8%	13.5%	-34.5%
Materials	11.4%	16.6%	-11.2%
Real Estate	3.4%	10.4%	-20.6%
Utilities	2.3%	13.0%	-11.1%
Total	100.0%	14.3%	-16.0%

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	8.9%	58.8%	1.8%
Consumer Discretionary	4.9%	46.2%	5.6%
Consumer Staples	22.1%	77.4%	48.9%
Energy	9.9%	92.9%	40.2%
Financials	6.1%	44.6%	24.5%
Health Care	4.1%	53.5%	3.8%
Industrials	6.4%	49.7%	18.8%
Information Technology	18.6%	9.8%	-34.7%
Materials	14.1%	45.6%	10.6%
Real Estate	3.0%	13.8%	-15.4%
Utilities	1.9%	38.8%	26.8%
Total	100.0%	9.7%	-20.1%

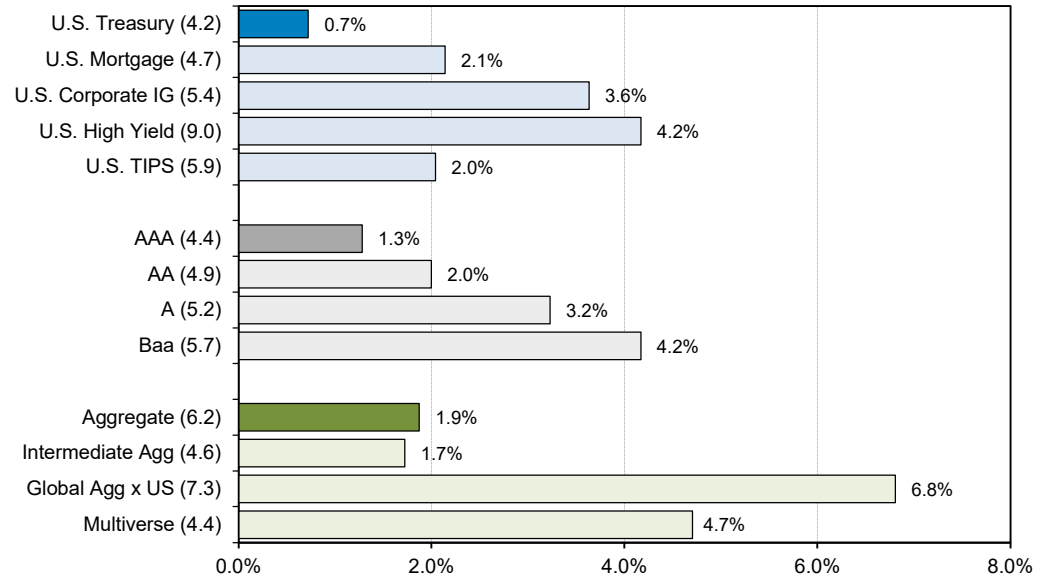
Country	MSCI-EAFE Weight	MSCI-ACWixUS Weight	Quarter Return	1-Year Return
Japan	21.9%	14.0%	13.2%	-16.6%
United Kingdom	15.3%	9.8%	17.0%	-4.8%
France	11.8%	7.6%	22.2%	-13.3%
Switzerland	10.1%	6.5%	10.4%	-18.3%
Australia	7.9%	5.1%	15.7%	-5.3%
Germany	8.2%	5.2%	24.6%	-22.3%
Netherlands	4.3%	2.7%	21.0%	-27.7%
Sweden	3.3%	2.1%	18.1%	-28.4%
Hong Kong	3.0%	1.9%	18.2%	-4.7%
Denmark	3.0%	1.9%	31.6%	-4.8%
Spain	2.4%	1.5%	22.9%	-7.3%
Italy	2.3%	1.5%	26.4%	-14.4%
Singapore	1.5%	1.0%	10.5%	-11.0%
Belgium	1.0%	0.7%	22.6%	-12.5%
Finland	1.0%	0.7%	16.3%	-15.3%
Norway	0.8%	0.5%	16.9%	-7.0%
Israel	0.7%	0.5%	0.4%	-26.7%
Ireland	0.7%	0.4%	21.5%	-26.2%
Portugal	0.2%	0.1%	17.2%	0.2%
Austria	0.2%	0.1%	31.1%	-26.4%
New Zealand	0.2%	0.1%	24.5%	-13.6%
Total EAFE Countries	100.0%	63.9%	17.3%	-14.5%
Canada		7.7%	7.4%	-12.9%
Total Developed Countries		71.6%	16.2%	-14.3%
China		9.2%	13.5%	-21.9%
Taiwan		3.9%	9.6%	-29.8%
India		4.1%	2.0%	-8.0%
Korea		3.2%	18.1%	-29.4%
Brazil		1.5%	2.4%	14.2%
Saudi Arabia		1.2%	-7.4%	-5.1%
South Africa		1.0%	18.3%	-3.9%
Mexico		0.6%	12.5%	-2.0%
Thailand		0.6%	16.1%	5.0%
Indonesia		0.5%	-3.6%	3.6%
Malaysia		0.4%	14.0%	-5.8%
United Arab Emirates		0.4%	-1.5%	-6.2%
Qatar		0.3%	-15.3%	-6.9%
Kuwait		0.3%	5.7%	10.1%
Philippines		0.2%	21.1%	-13.9%
Poland		0.2%	47.7%	-27.2%
Chile		0.2%	6.2%	19.4%
Turkey		0.2%	62.9%	90.4%
Peru		0.1%	17.4%	9.4%
Greece		0.1%	29.1%	0.3%
Colombia		0.0%	19.7%	-6.0%
Czech Republic		0.0%	6.5%	-14.4%
Hungary		0.1%	36.3%	-31.1%
Egypt		0.0%	28.5%	-22.6%
Total Emerging Countries		28.4%	9.7%	-20.1%
Total ACWixUS Countries		100.0%	14.3%	-16.0%

Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)

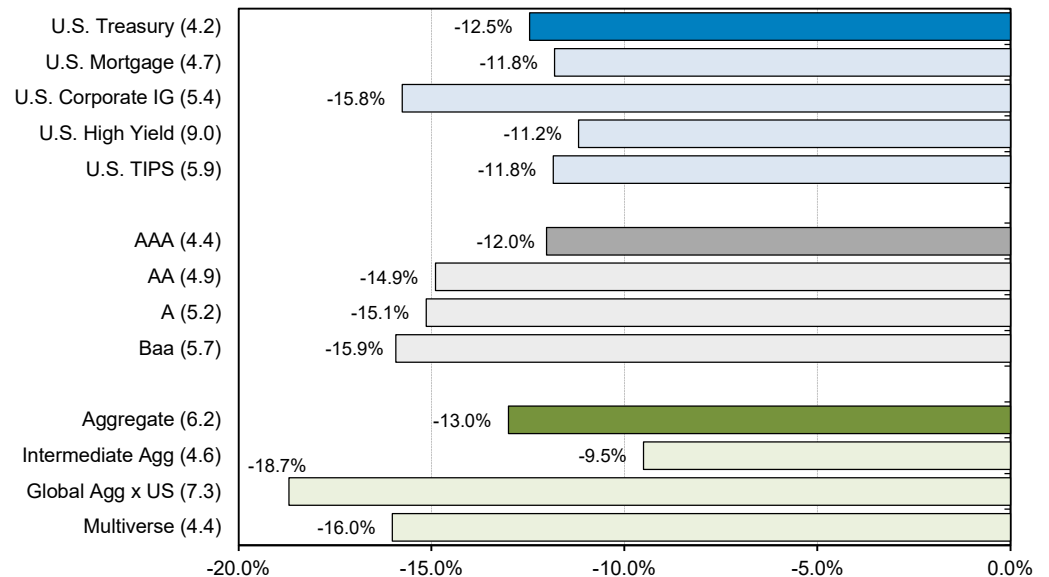


- After an extremely challenging year in fixed income markets, the 4th quarter's positive bond benchmark results were a welcome relief. Despite two rate increases during the quarter, bond performance was aided by lower investor concerns about rising inflation as US CPI declined. This was reflected in both intermediate and long-term interest rates which remained relatively stable during the quarter.
- The return for the BB US Aggregate Bond Index, the bellwether US investment grade benchmark, rose by 1.9% for the period.
- Performance across the investment grade index's segments was also positive during the period with the US Corporate Investment Grade Index returning 3.6% and the US Mortgage Index component posting a return of 2.1%.
- High yield bonds outperformed their investment grade counterparts, surging 4.2% during the quarter. US TIPS, which have delivered strong performance in recent periods, rose by 2.0% as investors' expectations of future inflation declined.
- Outside of domestic markets, the Bloomberg Global Aggregate ex US Index posted a strong return of 6.8% for the quarter. Like domestic bonds, global bond index performance was positively impacted declining inflation, but the benchmark also received a boost from the decline in the USD for the quarter.
- Over the trailing 1-year period, the bellwether BB US Aggregate Bond Index declined by -13.0% and each of the benchmark's components fell by more than -10%. US TIPS, which are excluded from the bellwether index, dropped by -11.8% for the year.
- Lower quality high yield corporate bonds were down less than their investment grade counterparts on a relative basis with the Bloomberg US High Yield Index posting still discouraging return of -11.2% for the period.
- Performance for non-US bonds was also strongly negative for the year with the developed market Bloomberg Global Aggregate ex US Index falling by -18.7%. The combination of rising interest rates overseas, elevated inflation, geopolitical risks, and USD strength earlier in the year hindered non-US index performance.

Quarter Performance



1-Year Performance

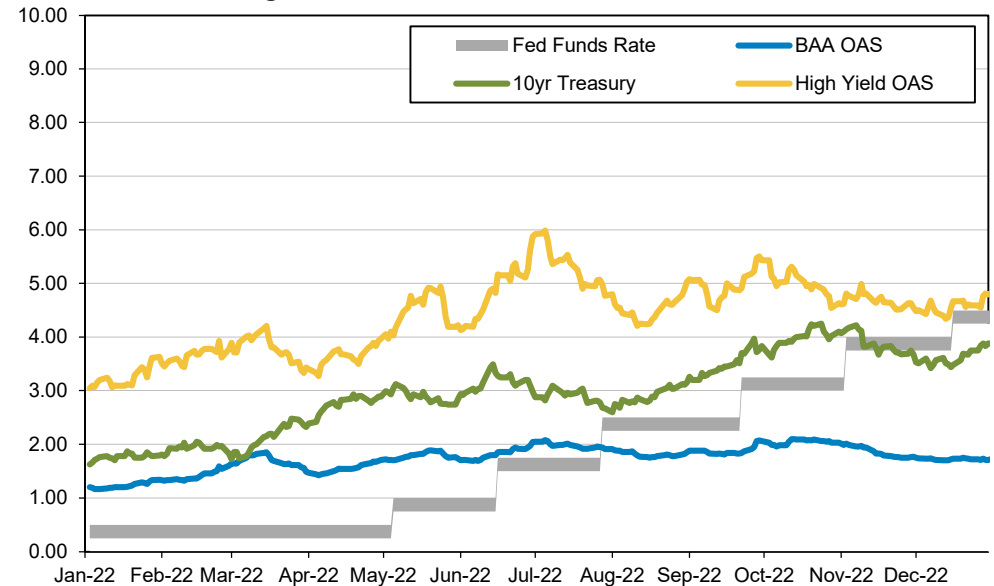


Source: Bloomberg

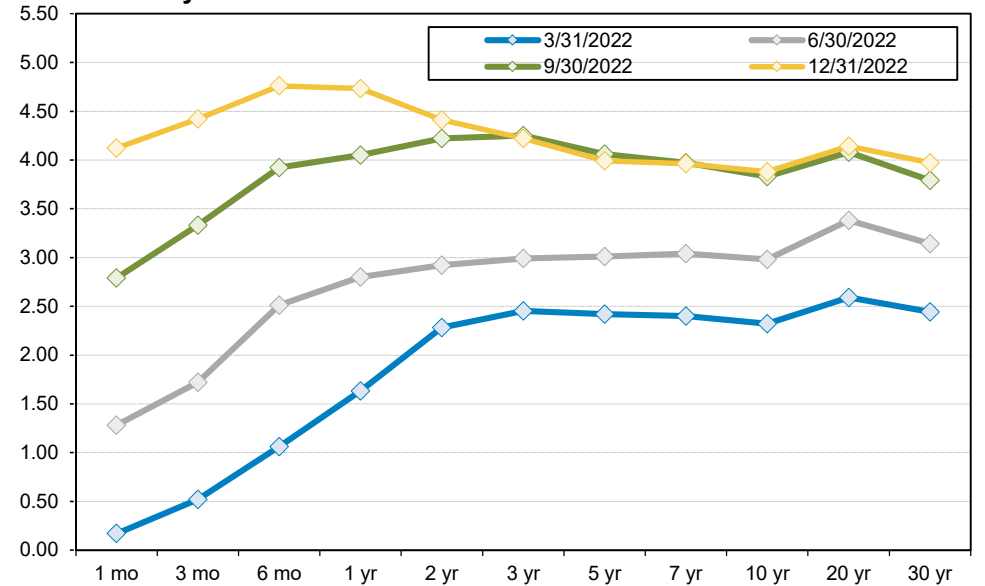


- The gray band across the graph illustrates the range of the current Fed Funds Rate. In the 4th quarter this year, the Fed raised the lower end of its target rate range from 3.00% to 4.25% through a 0.75% increase in November and a 0.50% increase in December. During its December meeting, the Federal Open Market Committee (FOMC) stated it intends to monitor economic growth closely and will continue to raise interest rates to fight inflation if needed. The FOMC also stated that it would continue its policy of removing liquidity from the market by allowing bonds held on its balance sheet to mature without reinvesting those proceeds.
- The yield on the US 10-year Treasury (green line) ended the period slightly higher as concerns over the pace of inflation, combined with the Fed's announced rate increase, drove yields. The closing yield on the 10-Year Treasury was 3.88% at year-end, an increase of 0.08% from its 3rd quarter closing yield. The benchmark's rate peaked in October, reaching a high of roughly 4.25% before declining to end the quarter.
- The blue line illustrates changes in the BAA OAS (Option Adjusted Spread). This measure quantifies the additional yield premium that investors require to purchase and hold non-US Treasury investment grade issues. For the full year, the spread widened slightly from 1.17% to 1.72%. High Yield OAS spreads rose from roughly 3.05% at the beginning of the year to 4.81% at year-end. During 2022, high yield spreads reached a level of 5.80% in early July before trading lower the remainder of the year.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four quarters. Short-term rates continued to rise during the 4th quarter as the FOMC increased interest rates twice to combat elevated inflation. Despite these short-term rate increases, both intermediate and longer-term rates remained largely unchanged during the quarter. The yield curve remained inverted between 2-year and 10-year rates. Said differently, the short-term rate was higher than the long-term rate. Historically, a persistent inversion of these two key rates has been an indication of a future recession withing 6- to 24-months.

1-Year Trailing Market Rates



Treasury Yield Curve



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



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**Delray Beach Police Pension Plan
Compliance Checklist
As of December 31, 2022**

Total Fund Compliance:	Yes	No	N/A
	1. The Total Plan return equaled or exceeded the 6.75% actuarial earnings assumption over the trailing three and five year periods.		•
2. The Total Plan return equaled or exceeded the total plan benchmark over the trailing three and five year periods.		•	
3. The Total Plan return ranked within the top 40th percentile of its peer group over the trailing three and five year periods.		•	

* Based off net of fees and public plan peer group.

Total Equity Compliance:	Yes	No	N/A
	1. Total equity returns meet or exceed the benchmark over the trailing three and five year periods.		•
2. Total equity returns ranked within the top 40th percentile of its peer group over the trailing three and five year periods.			•
3. The total equity allocation was less than 70% of the total plan assets at market.	•		
4. Total foreign equity was less than 25% of the total plan assets at market.	•		

Total Fixed Income Compliance:	Yes	No	N/A
	1. Total fixed income returns meet or exceed the benchmark over the trailing three and five year periods.	•	
2. Total fixed income returns ranked within the top 40th percentile of its peer group over the trailing three and five year periods.		•	
3. No more than 15% of the fixed income portfolio was rated below BBB/Baa.	•		

	Fidelity TM Ix			Rhumbline R1000V			Brandywine		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•			•			•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•		•				•
3. Less than four consecutive quarters of under performance relative to the benchmark.			•			•	•		
4. Three and five-year down-market capture ratio less than the index.*			•			•			•
5. Manager reports compliance with PFIA.			•			•	•		

	Rhumbline R1000G			Polen LCG			Fidelity Mid-Cap		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•		•				•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*	•				•				•
3. Less than four consecutive quarters of under performance relative to the benchmark.			•		•				•
4. Three and five-year down-market capture ratio less than the index.*			•		•				•
5. Manager reports compliance with PFIA.			•	•					•

3 years used when 5 years unavailable



**Delray Beach Police Pension Plan
Compliance Checklist
As of December 31, 2022**

	Clarkston			H.L. Intl Equity			Baird		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*	•			•					•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*		•		•					•
3. Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•		
4. Three and five-year down-market capture ratio less than the index.*	•				•				•
5. Manager reports compliance with PFIA.			•			•			•

	Loomis Bond			Blackrock Multi-Asset			American Realty		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•		•			•	
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•		•		•		
3. Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•		
4. Three and five-year down-market capture ratio less than the index.*			•	•				•	
5. Manager reports compliance with PFIA.			•			•			•

	ABS Emerging			Mass Mutual			Mainstay HY		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•			•			•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•			•			•
3. Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•		
4. Three and five-year down-market capture ratio less than the index.*			•			•			•
5. Manager reports compliance with PFIA.			•			•			•

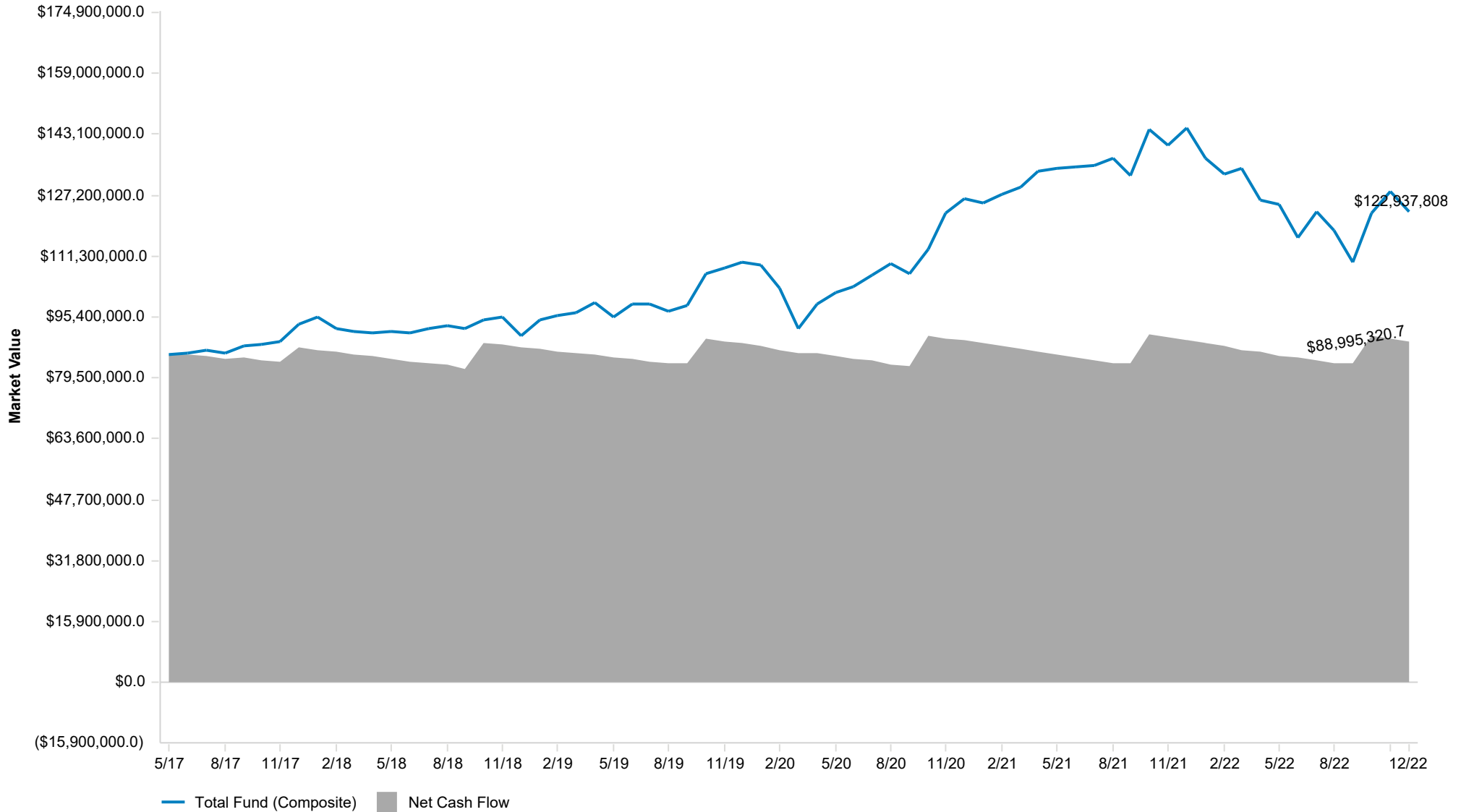
	Fidelity RE								
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•						
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•						
3. Less than four consecutive quarters of under performance relative to the benchmark.	•								
4. Three and five-year down-market capture ratio less than the index.*			•						
5. Manager reports compliance with PFIA.			•						

3 years used when 5 years unavailable



Schedule of Investable Assets
Total Fund (Composite)
10 Years Ending December 31, 2022

Schedule of Investable Assets



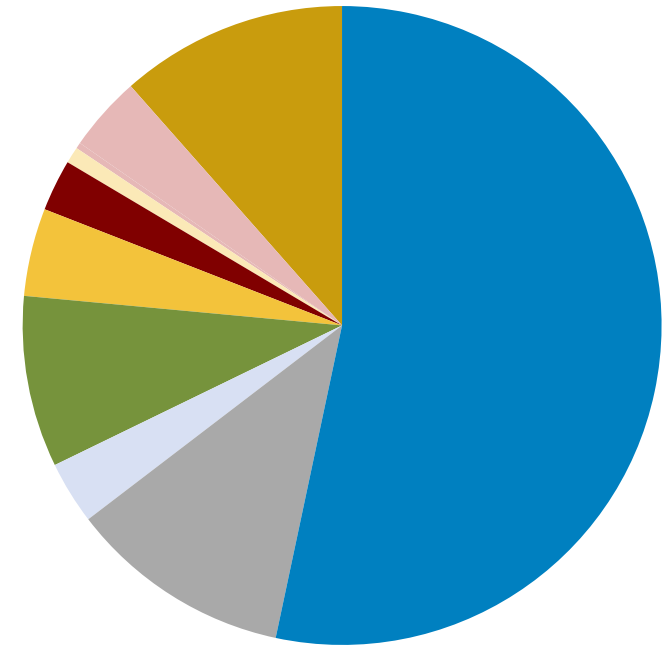
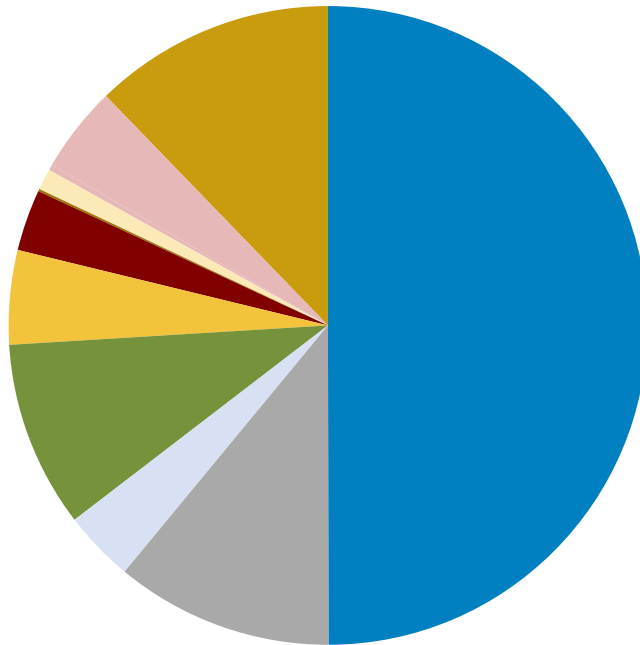
Schedule of Investable Assets

Periods Ending	Beginning Market Value \$	Net Cash Flow \$	Gain/Loss \$	Ending Market Value \$
10 YR	85,630,083	3,365,237	33,942,487	122,937,808



September 30, 2022 : \$109,871,867

December 31, 2022 : \$122,937,808

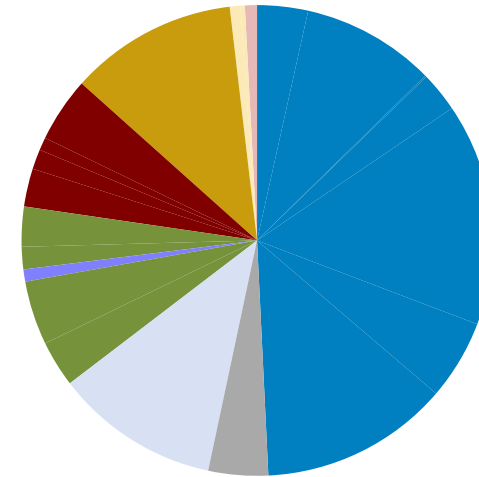
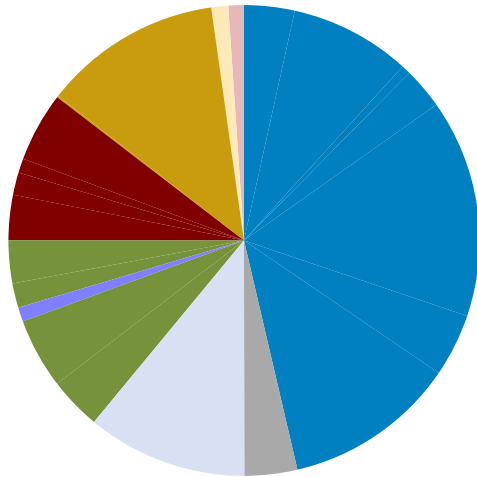


Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ US Equity	54,914,651	50.0	■ US Equity	65,566,774	53.3
■ International Equity	12,092,489	11.0	■ International Equity	13,879,055	11.3
■ International-Emerging Equity	3,960,212	3.6	■ International-Emerging Equity	3,907,550	3.2
■ US Fixed Income	10,373,348	9.4	■ US Fixed Income	10,666,341	8.7
■ US REIT (Real Estate Funds)	5,241,798	4.8	■ US REIT (Real Estate Funds)	5,469,741	4.4
■ US Private Real Estate	3,407,551	3.1	■ US Private Real Estate	3,213,977	2.6
■ US Real Return	133,543	0.1	■ US Real Return	-	0.0
■ Cash	1,176,705	1.1	■ Cash	1,022,455	0.8
■ Private Equity	324,490	0.3	■ Private Equity	377,019	0.3
■ US Private Equity	4,802,201	4.4	■ US Private Equity	4,679,227	3.8
■ US Real Assets	13,444,879	12.2	■ US Real Assets	14,155,670	11.5



September 30, 2022 : \$109,871,867

December 31, 2022 : \$122,937,808



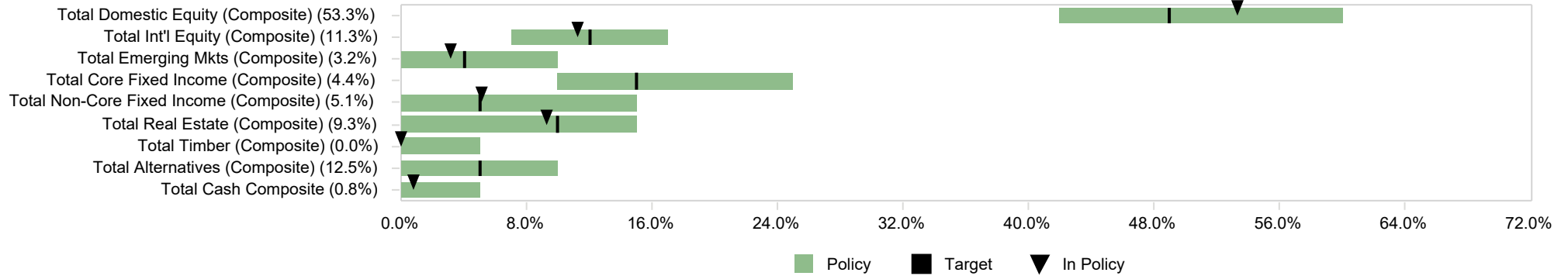
Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Rhumbline R1000V	3,802,218	3.5	■ Rhumbline R1000V	4,274,193	3.5
■ Clarkston Partners (CISMx)	9,115,668	8.3	■ Clarkston Partners (CISMx)	11,278,335	9.2
■ Fidelity Total Market Ix (FSKAX)	695,044	0.6	■ Fidelity Total Market Ix (FSKAX)	130,632	0.1
■ Fidelity Mid Cap Index (FSMDX)	3,095,659	2.8	■ Fidelity Mid Cap Index (FSMDX)	3,380,776	2.7
■ Brandywine LCV	16,467,230	15.0	■ Brandywine LCV	18,789,752	15.3
■ Mass Mutual Small Cap (MSOOX)	4,745,989	4.3	■ Mass Mutual Small Cap (MSOOX)	6,728,907	5.5
■ Polen Capital LCG	13,012,998	11.8	■ Polen Capital LCG	15,949,186	13.0
■ Rhumbline R1000G	3,979,845	3.6	■ Rhumbline R1000G	5,034,993	4.1
■ Harding Loevner Intl Equity (HLIZX)	12,092,489	11.0	■ Harding Loevner Intl Equity (HLIZX)	13,879,055	11.3
■ ABS Emerging Markets Strategic Portfolio, L.P.	3,960,212	3.6	■ ABS Emerging Markets Strategic Portfolio, L.P.	3,907,550	3.2
■ Baird Aggregate Bond Fund (BAGIX)	5,295,749	4.8	■ Baird Aggregate Bond Fund (BAGIX)	5,409,533	4.4
■ Crescent Direct Lending Levered Fund	1,085,181	1.0	■ Crescent Direct Lending Levered Fund	1,027,175	0.8
■ Loomis Sayles Bond Fund (LSBDX)	1,838,573	1.7	■ Loomis Sayles Bond Fund (LSBDX)	1,889,854	1.5
■ MainStay High Yield Corp Bond (MHYSX)	3,239,026	2.9	■ MainStay High Yield Corp Bond (MHYSX)	3,366,953	2.7
■ ARA Core Property	3,407,551	3.1	■ ARA Core Property	3,213,977	2.6
■ Angelo Gordon Net Lease Realty Fund III, L.P.	1,694,568	1.5	■ Angelo Gordon Net Lease Realty Fund III, L.P.	1,676,797	1.4
■ Dune Real Estate Fund III	1,079,985	1.0	■ Dune Real Estate Fund III	1,086,868	0.9
■ Fidelity Real Estate Index Fund	5,241,798	4.8	■ Fidelity Real Estate Index Fund	5,469,741	4.4
■ Molpus Woodlands Timber	133,543	0.1	■ Molpus Woodlands Timber	-	0.0
■ Blackrock Multi-Asset Income (BKMIX)	13,444,879	12.2	■ Blackrock Multi-Asset Income (BKMIX)	14,155,670	11.5
■ PA Secondary Fund VI, L.P.	942,467	0.9	■ PA Secondary Fund VI, L.P.	888,387	0.7
■ NB Secondary Opportunities Fund V	324,490	0.3	■ NB Secondary Opportunities Fund V	377,019	0.3
■ Mutual Fund Cash	4,410	0.0	■ Mutual Fund Cash	4,643	0.0
■ R&D	1,172,295	1.1	■ R&D	1,017,811	0.8



Asset Allocation Compliance
Delray Beach Police Officers' Retirement System Total Fund (Composite)

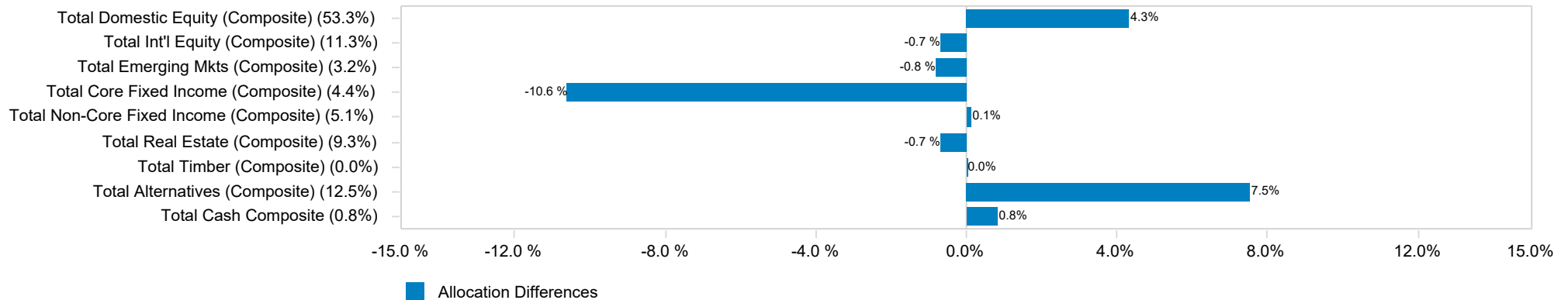
As of December 31, 2022

Executive Summary



Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund (Composite)	122,937,808	100.00	100.00	0.00	-
Total Domestic Equity (Composite)	65,566,774	53.33	49.00	4.33	-5,327,248
Total Int'l Equity (Composite)	13,879,055	11.29	12.00	-0.71	873,482
Total Emerging Mkts (Composite)	3,907,550	3.18	4.00	-0.82	1,009,962
Total Core Fixed Income (Composite)	5,409,533	4.40	15.00	-10.60	13,031,138
Total Non-Core Fixed Income (Composite)	6,283,983	5.11	5.00	0.11	-137,092
Total Real Estate (Composite)	11,447,383	9.31	10.00	-0.69	846,398
Total Timber (Composite)	-	0.00	0.00	0.00	-
Total Alternatives (Composite)	15,421,077	12.54	5.00	7.54	-9,274,186
Total Cash Composite	1,022,455	0.83	0.00	0.83	-1,022,455



Financial Reconciliation
Quarter to Date
1 Quarter Ending December 31, 2022

Financial Reconciliation									
	Market Value 10/01/2022	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 12/31/2022
Total Equity	70,967,351	6,085,044	-	-	-39,017	-3,145	2,319,480	4,023,665	83,353,378
Total Domestic Equity	54,914,651	6,085,044	-	-	-39,017	-3,145	1,966,465	2,642,776	65,566,774
Fidelity Total Market Ix (FSKAX)	695,044	-615,799	-	-	-	-	10,697	40,690	130,632
Brandywine LCV	16,467,230	-	-	-	-18,495	-1,604	122,666	2,219,954	18,789,752
Rhumblin R1000V	3,802,218	409	-	-	-409	-104	25,544	446,535	4,274,193
Polen Capital LCG	13,012,998	3,000,000	-	-	-19,679	-1,279	23,864	-66,718	15,949,186
Rhumblin R1000G	3,979,845	1,000,434	-	-	-434	-158	14,810	40,496	5,034,993
Fidelity Mid Cap Index (FSMDX)	3,095,659	-	-	-	-	-	43,010	242,106	3,380,776
Clarkston Partners (CISMX)	9,115,668	1,200,000	-	-	-	-	1,631,777	-669,109	11,278,335
Mass Mutual Small Cap (MSOOX)	4,745,989	1,500,000	-	-	-	-	94,097	388,821	6,728,907
Total Int'l Equity	12,092,489	-	-	-	-	-	353,016	1,433,550	13,879,055
Harding Loevner Intl Equity (HLIZX)	12,092,489	-	-	-	-	-	353,016	1,433,550	13,879,055
Total Emerging Mkts	3,960,212	-	-	-	-	-	-	-52,662	3,907,550
ABS Emerging Markets Strategic Portfolio, L.P.	3,960,212	-	-	-	-	-	-	-52,662	3,907,550
Total Fixed Income	11,458,529	-10,644	-	-	-	-	136,591	109,040	11,693,516
Total Core Fixed Income	5,295,749	-	-	-	-	-	46,284	67,500	5,409,533
Baird Aggregate Bond Fund (BAGIX)	5,295,749	-	-	-	-	-	46,284	67,500	5,409,533
Total Non-Core Fixed Income	6,162,780	-10,644	-	-	-	-	90,308	41,539	6,283,983
Crescent Direct Lending Levered Fund	1,085,181	-10,644	-	-	-	-	-	-47,362	1,027,175
Loomis Sayles Bond Fund (LSBDX)	1,838,573	-	-	-	-	-	43,644	7,637	1,889,854
MainStay High Yield Corp Bond (MHYSX)	3,239,026	-	-	-	-	-	46,663	81,264	3,366,953



Financial Reconciliation

Quarter to Date

1 Quarter Ending December 31, 2022

	Market Value 10/01/2022	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 12/31/2022
Total Real Estate	11,423,903	-43,288	-	-	-8,863	-	110,178	-34,547	11,447,383
ARA Core Property	3,407,551	-	-	-	-8,863	-	34,076	-218,787	3,213,977
Angelo Gordon Net Lease Realty Fund III, L.P.	1,694,568	-43,288	-	-	-	-	-	25,517	1,676,797
Dune Real Estate Fund III	1,079,985	-	-	-	-	-	-	6,883	1,086,868
Fidelity Real Estate Index Fund	5,241,798	-	-	-	-	-	76,103	151,840	5,469,741
Total Timber	133,543	-133,333	-	-	-	-	-	-210	-
Molpus Woodlands Timber	133,543	-133,333	-	-	-	-	-	-210	-
Total Alternatives	14,711,836	-39,754	-	-	-	-	214,055	534,940	15,421,077
Blackrock Multi-Asset Income (BKMIX)	13,444,879	-	-	-	-	-	214,055	496,736	14,155,670
NB Secondary Opportunities Fund V	324,490	93,455	-	-	-	-	-	-40,926	377,019
PA Secondary Fund VI, L.P.	942,467	-133,210	-	-	-	-	-	79,130	888,387
Total Cash Accounts	1,176,705	-5,858,024	8,164,287	-2,436,606	-	-33,452	8,115	1,430	1,022,455
R&D	1,172,295	-5,858,024	8,164,287	-2,436,606	-	-33,452	7,882	1,430	1,017,811
Mutual Fund Cash	4,410	-	-	-	-	-	233	-	4,643
Total Fund	109,871,867	-	8,164,287	-2,436,606	-47,880	-36,597	2,788,419	4,634,317	122,937,808



Financial Reconciliation									
	Market Value 10/01/2022	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 12/31/2022
Total Equity	70,967,351	6,085,044	-	-	-39,017	-3,145	2,319,480	4,023,665	83,353,378
Total Domestic Equity	54,914,651	6,085,044	-	-	-39,017	-3,145	1,966,465	2,642,776	65,566,774
Fidelity Total Market Ix (FSKAX)	695,044	-615,799	-	-	-	-	10,697	40,690	130,632
Brandywine LCV	16,467,230	-	-	-	-18,495	-1,604	122,666	2,219,954	18,789,752
Rhumblin R1000V	3,802,218	409	-	-	-409	-104	25,544	446,535	4,274,193
Polen Capital LCG	13,012,998	3,000,000	-	-	-19,679	-1,279	23,864	-66,718	15,949,186
Rhumblin R1000G	3,979,845	1,000,434	-	-	-434	-158	14,810	40,496	5,034,993
Fidelity Mid Cap Index (FSMDX)	3,095,659	-	-	-	-	-	43,010	242,106	3,380,776
Clarkston Partners (CISMX)	9,115,668	1,200,000	-	-	-	-	1,631,777	-669,109	11,278,335
Mass Mutual Small Cap (MSOOX)	4,745,989	1,500,000	-	-	-	-	94,097	388,821	6,728,907
Total Int'l Equity	12,092,489	-	-	-	-	-	353,016	1,433,550	13,879,055
Harding Loevner Intl Equity (HLIZX)	12,092,489	-	-	-	-	-	353,016	1,433,550	13,879,055
Total Emerging Mkts	3,960,212	-	-	-	-	-	-	-52,662	3,907,550
ABS Emerging Markets Strategic Portfolio, L.P.	3,960,212	-	-	-	-	-	-	-52,662	3,907,550
Total Fixed Income	11,458,529	-10,644	-	-	-	-	136,591	109,040	11,693,516
Total Core Fixed Income	5,295,749	-	-	-	-	-	46,284	67,500	5,409,533
Garcia Hamilton Fixed Income	-	-	-	-	-	-	-	-	-
Baird Aggregate Bond Fund (BAGIX)	5,295,749	-	-	-	-	-	46,284	67,500	5,409,533
Total Non-Core Fixed Income	6,162,780	-10,644	-	-	-	-	90,308	41,539	6,283,983
Crescent Direct Lending Levered Fund	1,085,181	-10,644	-	-	-	-	-	-47,362	1,027,175
Loomis Sayles Bond Fund (LSBDX)	1,838,573	-	-	-	-	-	43,644	7,637	1,889,854
MainStay High Yield Corp Bond (MHYSX)	3,239,026	-	-	-	-	-	46,663	81,264	3,366,953

Financial Reconciliation

FYTD

October 1, 2022 To December 31, 2022

	Market Value 10/01/2022	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 12/31/2022
Total Real Estate	11,423,903	-43,288	-	-	-8,863	-	110,178	-34,547	11,447,383
ARA Core Property	3,407,551	-	-	-	-8,863	-	34,076	-218,787	3,213,977
Angelo Gordon Net Lease Realty Fund III, L.P.	1,694,568	-43,288	-	-	-	-	-	25,517	1,676,797
Dune Real Estate Fund III	1,079,985	-	-	-	-	-	-	6,883	1,086,868
Fidelity Real Estate Index Fund	5,241,798	-	-	-	-	-	76,103	151,840	5,469,741
Total Timber	133,543	-133,333	-	-	-	-	-	-210	-
Molpus Woodlands Timber	133,543	-133,333	-	-	-	-	-	-210	-
Total Alternatives	14,711,836	-39,754	-	-	-	-	214,055	534,940	15,421,077
Blackrock Multi-Asset Income (BKMIX)	13,444,879	-	-	-	-	-	214,055	496,736	14,155,670
NB Secondary Opportunities Fund V	324,490	93,455	-	-	-	-	-	-40,926	377,019
PA Secondary Fund VI, L.P.	942,467	-133,210	-	-	-	-	-	79,130	888,387
Total Cash Accounts	1,176,705	-5,858,024	8,164,287	-2,436,606	-	-33,452	8,115	1,430	1,022,455
R&D	1,172,295	-5,858,024	8,164,287	-2,436,606	-	-33,452	7,882	1,430	1,017,811
Mutual Fund Cash	4,410	-	-	-	-	-	233	-	4,643
Total Fund	109,871,867	-	8,164,287	-2,436,606	-47,880	-36,597	2,788,419	4,634,317	122,937,808



Comparative Performance
Total Fund Trailing Returns
As of December 31, 2022

Comparative Performance																		
	QTR		YTD		FYTD		1 YR		2 YR		3 YR		5 YR		Inception		Inception Date	
Total Fund (Net)	6.32	(30)	-15.63	(78)	6.32	(30)	-15.63	(78)	-1.81	(64)	3.31	(59)	5.02	(47)	5.24	(90)	10/01/2005	
Total Fund Policy	5.57	(57)	-15.02	(69)	5.57	(57)	-15.02	(69)	-1.57	(59)	3.55	(50)	5.15	(40)	6.08	(43)		
Difference	0.75		-0.61		0.75		-0.61		-0.24		-0.24		-0.13		-0.84			
All Public Plans-Total Fund Median	5.72		-13.87		5.72		-13.87		-1.08		3.55		4.91		5.95			
Total Fund (Gross)	6.36	(56)	-15.44	(80)	6.36	(56)	-15.44	(80)	-1.60	(52)	3.53	(40)	5.28	(27)	5.66	(69)	10/01/2005	
Total Fund Policy	5.57	(74)	-15.02	(71)	5.57	(74)	-15.02	(71)	-1.57	(51)	3.55	(36)	5.15	(30)	6.08	(52)		
Difference	0.79		-0.42		0.79		-0.42		-0.03		-0.02		0.13		-0.42			
IM Mixed-Asset Target Alloc Moderate (MF) Median	6.45		-13.54		6.45		-13.54		-1.39		3.14		4.33		6.10			
Total Equity (Composite)	8.22		-18.36		8.22		-18.36		-1.61		4.90		6.80		6.89		10/01/2005	
Total Equity Policy	8.66		-19.02		8.66		-19.02		-1.34		5.09		6.57		6.59			
Difference	-0.44		0.66		-0.44		0.66		-0.27		-0.19		0.23		0.30			
Total Domestic Equity (Composite)	7.57	(62)	-17.63	(55)	7.57	(62)	-17.63	(55)	0.27	(63)	6.15	(67)	8.43	(46)	7.92	(79)	10/01/2005	
Total Domestic Equity Policy	6.72	(70)	-20.15	(67)	6.72	(70)	-20.15	(67)	-0.29	(66)	6.70	(59)	8.42	(46)	8.71	(53)		
Difference	0.85		2.52		0.85		2.52		0.56		-0.55		0.01		-0.79			
IM U.S. All Cap Equity (SA+CF+MF) Median	9.13		-16.54		9.13		-16.54		2.67		7.13		8.27		8.85			
Total Int'l Equity (Composite)	14.77	(66)	-20.16	(85)	14.77	(66)	-20.16	(85)	-6.87	(87)	1.37	(54)	2.36	(44)	3.89	(20)	05/01/2007	
Total Int'l Policy	14.28	(76)	-16.00	(51)	14.28	(76)	-16.00	(51)	-4.83	(72)	0.07	(79)	0.88	(80)	1.39	(98)		
Difference	0.49		-4.16		0.49		-4.16		-2.04		1.30		1.48		2.50			
IM International Large Cap Core Equity (SA+CF) Median	15.58		-15.89		15.58		-15.89		-3.33		1.51		2.18		3.15			
Total Fixed Income (Composite)	2.15	(41)	-10.51	(19)	2.15	(41)	-10.51	(19)	-5.35	(27)	-1.65	(43)	0.78	(49)	3.92	(33)	10/01/2005	
Total Fixed Policy	1.87	(58)	-13.01	(55)	1.87	(58)	-13.01	(55)	-7.45	(78)	-2.71	(90)	0.02	(93)	3.03	(94)		
Difference	0.28		2.50		0.28		2.50		2.10		1.06		0.76		0.89			
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	2.00		-12.88		2.00		-12.88		-6.85		-1.86		0.75		3.69			
Total Real Estate (Composite)	0.66	(3)	-11.14	(100)	0.66	(3)	-11.14	(100)	2.98	(98)	1.28	(97)	3.62	(96)	3.87	(100)	07/01/2007	
NCREIF ODCE	-4.90	(40)	8.41	(30)	-4.90	(40)	8.41	(30)	15.47	(37)	10.64	(37)	9.23	(40)	6.50	(52)		
Difference	5.56		-19.55		5.56		-19.55		-12.49		-9.36		-5.61		-2.63			
IM U.S. Open End Private Real Estate (SA+CF) Median	-5.18		6.78		-5.18		6.78		14.03		9.72		9.01		6.62			
Total Alternatives (Composite)	5.11		-7.77		5.11		-7.77		-0.53		1.78		2.91		1.91		08/01/2010	
Alternatives Policy	4.83		-15.26		4.83		-15.26		-2.23		2.80		5.03		4.49			
Difference	0.28		7.49		0.28		7.49		1.70		-1.02		-2.12		-2.58			



**Comparative Performance
Total Fund Trailing Returns**

As of December 31, 2022

	QTR	YTD	FYTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
Total Domestic Equity (Composite)	7.57	-17.63	7.57	-17.63	0.27	6.15	8.43	7.92	10/01/2005
Fidelity Total Market Ix (FSKAX)	7.18 (67)	-19.52 (65)	7.18 (67)	-19.52 (65)	0.56 (74)	N/A	N/A	0.56 (74)	01/01/2021
Dow Jones U.S. Total Stock Market Index	7.18 (67)	-19.53 (66)	7.18 (67)	-19.53 (66)	0.56 (74)	6.89 (52)	8.65 (54)	0.56 (74)	
Difference	0.00	0.01	0.00	0.01	0.00	N/A	N/A	0.00	
IM U.S. Large Cap Core Equity (MF) Median	7.83	-18.72	7.83	-18.72	1.47	6.95	8.77	1.47	
Brandywine LCV	14.24 (27)	-5.30 (49)	14.24 (27)	-5.30 (49)	N/A	N/A	N/A	-0.20 (62)	08/01/2021
Russell 1000 Value Index	12.42 (56)	-7.54 (70)	12.42 (56)	-7.54 (70)	7.58 (73)	5.96 (86)	6.67 (81)	-1.36 (70)	
Difference	1.82	2.24	1.82	2.24	N/A	N/A	N/A	1.16	
IM U.S. Large Cap Value Equity (SA+CF) Median	12.75	-5.44	12.75	-5.44	9.67	8.06	8.11	0.68	
Rhumblin R1000V	12.42 (56)	-7.48 (70)	12.42 (56)	-7.48 (70)	7.60 (73)	5.98 (86)	6.68 (81)	6.68 (81)	01/01/2018
Russell 1000 Value Index	12.42 (56)	-7.54 (70)	12.42 (56)	-7.54 (70)	7.58 (73)	5.96 (86)	6.67 (81)	6.67 (81)	
Difference	0.00	0.06	0.00	0.06	0.02	0.02	0.01	0.01	
IM U.S. Large Cap Value Equity (SA+CF) Median	12.75	-5.44	12.75	-5.44	9.67	8.06	8.11	8.11	
Total Growth (Composite)	0.13 (83)	-35.69 (85)	0.13 (83)	-35.69 (85)	-10.21 (75)	3.03 (84)	9.18 (61)	6.52 (100)	07/01/2007
Russell 1000 Growth Index	2.20 (64)	-29.14 (36)	2.20 (64)	-29.14 (36)	-4.91 (31)	7.79 (20)	10.96 (24)	10.21 (34)	
Difference	-2.07	-6.55	-2.07	-6.55	-5.30	-4.76	-1.78	-3.69	
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	2.92	-30.56	2.92	-30.56	-7.18	6.01	9.72	9.87	
Rhumblin R1000G	2.21 (73)	-29.10 (49)	2.21 (73)	-29.10 (49)	-4.89 (42)	7.82 (30)	10.97 (29)	10.97 (29)	01/01/2018
Russell 1000 Growth Index	2.20 (73)	-29.14 (49)	2.20 (73)	-29.14 (49)	-4.91 (42)	7.79 (30)	10.96 (30)	10.96 (30)	
Difference	0.01	0.04	0.01	0.04	0.02	0.03	0.01	0.01	
IM U.S. Large Cap Growth Equity (SA+CF) Median	3.91	-29.57	3.91	-29.57	-5.98	6.30	9.98	9.98	
Polen Capital LCG	-0.20 (90)	-37.65 (91)	-0.20 (90)	-37.65 (91)	-11.84 (86)	1.56 (93)	N/A	9.91 (86)	01/01/2019
Russell 1000 Growth Index	2.20 (73)	-29.14 (49)	2.20 (73)	-29.14 (49)	-4.91 (42)	7.79 (30)	10.96 (30)	14.32 (25)	
Difference	-2.40	-8.51	-2.40	-8.51	-6.93	-6.23	N/A	-4.41	
IM U.S. Large Cap Growth Equity (SA+CF) Median	3.91	-29.57	3.91	-29.57	-5.98	6.30	9.98	12.69	
Fidelity Mid Cap Index (FSMDX)	9.21 (58)	-17.28 (87)	9.21 (58)	-17.28 (87)	0.69 (83)	N/A	N/A	0.69 (83)	01/01/2021
Russell Midcap Index	9.18 (60)	-17.32 (88)	9.18 (60)	-17.32 (88)	0.68 (83)	5.88 (51)	7.10 (28)	0.68 (83)	
Difference	0.03	0.04	0.03	0.04	0.01	N/A	N/A	0.01	
IM U.S. Mid Cap Core Equity (MF) Median	9.63	-13.21	9.63	-13.21	4.34	5.90	5.94	4.34	
Clarkston Partners (CISMX)	9.58 (79)	-0.12 (19)	9.58 (79)	-0.12 (19)	3.84 (97)	8.18 (48)	7.82 (13)	7.82 (13)	01/01/2018
Russell 2500 Value Index	9.21 (79)	-13.08 (74)	9.21 (79)	-13.08 (74)	5.39 (88)	5.22 (95)	4.75 (88)	4.75 (88)	
Difference	0.37	12.96	0.37	12.96	-1.55	2.96	3.07	3.07	
IM U.S. SMID Cap Value Equity (MF) Median	13.21	-3.64	13.21	-3.64	10.31	7.89	6.15	6.15	



Comparative Performance
Total Fund Trailing Returns
As of December 31, 2022

	QTR		YTD		FYTD		1 YR		2 YR		3 YR		5 YR		Inception	Inception Date
Mass Mutual Small Cap (MSOXX)	8.43	(54)	N/A		8.43	(54)	N/A		N/A		N/A		N/A		5.46 (34)	07/01/2022
Russell 2000 Index	6.23	(71)	-20.44	(64)	6.23	(71)	-20.44	(64)	-4.42	(68)	3.10	(71)	4.13	(69)	3.91 (56)	
Difference	2.20		N/A		2.20		N/A		N/A		N/A		N/A		1.55	
IM U.S. Small Cap Equity (MF) Median	8.74		-17.20		8.74		-17.20		1.05		4.99		5.13		4.22	



**Comparative Performance
Total Fund Trailing Returns**

As of December 31, 2022

	QTR		YTD		FYTD		1 YR		2 YR		3 YR		5 YR		Inception	Inception Date	
Total Int'l Equity (Composite)	14.77	(66)	-20.16	(85)	14.77	(66)	-20.16	(85)	-6.87	(87)	1.37	(54)	2.36	(44)	3.89	(20)	05/01/2007
Total Int'l Policy	14.28	(76)	-16.00	(51)	14.28	(76)	-16.00	(51)	-4.83	(72)	0.07	(79)	0.88	(80)	1.39	(98)	
Difference	0.49		-4.16		0.49		-4.16		-2.04		1.30		1.48		2.50		
IM International Large Cap Core Equity (SA+CF) Median	15.58		-15.89		15.58		-15.89		-3.33		1.51		2.18		3.15		
Harding Loevner Intl Equity (HLIZX)	14.77	(46)	-20.16	(56)	14.77	(46)	-20.16	(56)	-6.87	(53)	1.45	(25)	2.39	(16)	5.47	(21)	09/01/2016
MSCI AC World ex USA (Net)	14.28	(50)	-16.00	(36)	14.28	(50)	-16.00	(36)	-4.83	(41)	0.07	(47)	0.88	(43)	4.59	(40)	
Difference	0.49		-4.16		0.49		-4.16		-2.04		1.38		1.51		0.88		
IM International Equity (MF) Median	14.28		-18.96		14.28		-18.96		-6.38		-0.14		0.43		4.12		
Total Emerging Mkts (Composite)	-1.33	(99)	-21.91	(63)	-1.33	(99)	-21.91	(63)	N/A		N/A		N/A		-17.87	(48)	07/01/2021
MSCI Emerging Markets IMI (Net)	9.50	(65)	-19.83	(53)	9.50	(65)	-19.83	(53)	-10.59	(50)	-1.82	(61)	-1.10	(67)	-18.55	(53)	
Difference	-10.83		-2.08		-10.83		-2.08		N/A		N/A		N/A		0.68		
IM Emerging Markets Equity (SA+CF) Median	10.59		-19.57		10.59		-19.57		-10.81		-0.98		-0.12		-18.28		
ABS Emerging Markets Strategic Portfolio, L.P.	-1.33	(99)	-21.91	(63)	-1.33	(99)	-21.91	(63)	N/A		N/A		N/A		-17.87	(48)	07/01/2021
MSCI Emerging Markets IMI (Net)	9.50	(65)	-19.83	(53)	9.50	(65)	-19.83	(53)	-10.59	(50)	-1.82	(61)	-1.10	(67)	-18.55	(53)	
Difference	-10.83		-2.08		-10.83		-2.08		N/A		N/A		N/A		0.68		
IM Emerging Markets Equity (SA+CF) Median	10.59		-19.57		10.59		-19.57		-10.81		-0.98		-0.12		-18.28		
Total Core Fixed Income (Composite)	2.15		-13.47		2.15		-13.47		-7.82		-2.76		-0.05		3.00		10/01/2005
Total Core Fixed	1.87		-13.01		1.87		-13.01		-7.45		-2.71		0.02		2.98		
Difference	0.28		-0.46		0.28		-0.46		-0.37		-0.05		-0.07		0.02		
Baird Aggregate Bond Fund (BAGIX)	2.15	(15)	-13.35	(35)	2.15	(15)	-13.35	(35)	N/A		N/A		N/A		-13.35	(35)	01/01/2022
Blmbg. U.S. Aggregate Index	1.87	(35)	-13.01	(21)	1.87	(35)	-13.01	(21)	-7.45	(28)	-2.71	(50)	0.02	(42)	-13.01	(21)	
Difference	0.28		-0.34		0.28		-0.34		N/A		N/A		N/A		-0.34		
IM U.S. Broad Market Core Fixed Income (MF) Median	1.71		-13.67		1.71		-13.67		-7.75		-2.72		-0.07		-13.67		
Total Non-Core Fixed Income (Composite)	2.14		-7.68		2.14		-7.68		-1.71		-1.42		1.23		5.52		07/01/2010
Loomis Sayles Bond Fund (LSBDX)	2.79	(2)	-12.49	(12)	2.79	(2)	-12.49	(12)	-4.96	(4)	N/A		N/A		-2.01	(2)	11/01/2020
Blmbg. U.S. Aggregate Index	1.87	(35)	-13.01	(21)	1.87	(35)	-13.01	(21)	-7.45	(28)	-2.71	(50)	0.02	(42)	-6.42	(45)	
Difference	0.92		0.52		0.92		0.52		2.49		N/A		N/A		4.41		
IM U.S. Broad Market Core Fixed Income (MF) Median	1.71		-13.67		1.71		-13.67		-7.75		-2.72		-0.07		-6.47		
MainStay High Yield Corp Bond (MHYSX)	3.95	(52)	-7.81	(8)	3.95	(52)	-7.81	(8)	N/A		N/A		N/A		-2.06	(11)	03/01/2021
Blmbg. U.S. Corp High Yield	4.17	(35)	-11.19	(57)	4.17	(35)	-11.19	(57)	-3.31	(52)	0.05	(34)	2.31	(22)	-3.97	(53)	
Difference	-0.22		3.38		-0.22		3.38		N/A		N/A		N/A		1.91		
IM U.S. High Yield Bonds (MF) Median	3.96		-10.94		3.96		-10.94		-3.25		-0.49		1.70		-3.91		



Comparative Performance
Total Fund Trailing Returns
As of December 31, 2022

	QTR	YTD	FYTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
Total Real Estate (Composite)	0.66	-11.14	0.66	-11.14	2.98	1.28	3.62	3.87	07/01/2007
ARA Core Property	-5.42 (57)	9.33 (16)	-5.42 (57)	9.33 (16)	15.39 (37)	10.59 (37)	9.35 (38)	6.51 (52)	07/01/2007
NCREIF ODCE	-4.90 (40)	8.41 (30)	-4.90 (40)	8.41 (30)	15.47 (37)	10.64 (37)	9.23 (40)	6.50 (52)	
Difference	-0.52	0.92	-0.52	0.92	-0.08	-0.05	0.12	0.01	
IM U.S. Open End Private Real Estate (SA+CF) Median	-5.18	6.78	-5.18	6.78	14.03	9.72	9.01	6.62	
Fidelity Real Estate Index Fund	4.35 (27)	-26.12 (47)	4.35 (27)	-26.12 (47)	N/A	N/A	N/A	-7.21 (74)	05/01/2021
MSCI U.S. REIT Index	5.22 (8)	-24.51 (15)	5.22 (8)	-24.51 (15)	3.92 (10)	-0.06 (49)	3.69 (51)	-4.94 (16)	
Difference	-0.87	-1.61	-0.87	-1.61	N/A	N/A	N/A	-2.27	
IM Real Estate Sector (MF) Median	3.86	-26.17	3.86	-26.17	2.09	-0.13	3.70	-6.25	
Alternatives									
Blackrock Multi-Asset Income (BKMIX)	5.29 (49)	-11.54 (37)	5.29 (49)	-11.54 (37)	-2.58 (50)	0.37 (58)	N/A	2.03 (62)	04/01/2019
50% MSCI World Value/ 50% BBA	8.29 (22)	-9.55 (25)	8.29 (22)	-9.55 (25)	-0.33 (33)	1.11 (47)	2.46 (47)	3.05 (45)	
Difference	-3.00	-1.99	-3.00	-1.99	-2.25	-0.74	N/A	-1.02	
IM Flexible Portfolio (MF) Median	5.14	-12.97	5.14	-12.97	-2.65	0.83	2.27	2.70	

^ Some products shown on IRR page.



As of December 31, 2022

Comparative Performance - IRR						
	QTR	1 YR	3 YR	5 YR	Inception	Inception Date
Angelo Gordon Net Lease Realty Fund III, L.P.	1.51	9.41	6.66	7.22	7.02	03/10/2014
Dune Real Estate Fund III	0.64	3.94	-2.54	0.60	7.39	11/06/2014
Crescent Direct Lending Levered Fund	-4.39	0.78	3.12	5.51	6.98	10/09/2014
NB Secondary Opportunities Fund V	-12.17	N/A	N/A	N/A	75.16	03/31/2022
PA Secondary Fund VI, L.P.	9.02	N/A	N/A	N/A	67.11	02/10/2022



Comparative Performance

Fiscal Year Returns

As of December 31, 2022

Comparative Performance										
	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	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
Total Fund (Net)	-16.95 (76)	21.61 (28)	8.70 (48)	4.49 (33)	8.11 (44)	11.07 (68)	8.82 (64)	-1.22 (64)	10.01 (43)	10.96 (69)
Total Fund Policy	-15.18 (56)	18.47 (70)	10.42 (29)	5.02 (21)	8.59 (35)	11.90 (47)	10.34 (20)	0.55 (19)	10.23 (38)	10.24 (78)
Difference	-1.77	3.14	-1.72	-0.53	-0.48	-0.83	-1.52	-1.77	-0.22	0.72
All Public Plans-Total Fund Median	-14.76	19.88	8.51	4.00	7.86	11.70	9.33	-0.72	9.60	11.84
Total Fund (Gross)	-16.76 (75)	21.86 (9)	8.94 (35)	4.79 (54)	8.47 (17)	11.48 (47)	9.41 (63)	-0.72 (44)	10.58 (36)	11.52 (50)
Total Fund Policy	-15.18 (48)	18.47 (39)	10.42 (21)	5.02 (52)	8.59 (16)	11.90 (36)	10.34 (44)	0.55 (13)	10.23 (38)	10.24 (69)
Difference	-1.58	3.39	-1.48	-0.23	-0.12	-0.42	-0.93	-1.27	0.35	1.28
IM Mixed-Asset Target Alloc Moderate (MF) Median	-15.50	17.55	7.39	5.20	6.33	11.30	10.05	-1.20	9.65	11.51
Total Equity (Composite)	-20.52	30.49	12.31	2.91	12.88	16.39	11.59	-3.61	13.96	21.06
Total Equity Policy	-20.42	29.97	12.49	1.49	13.60	18.94	13.34	-6.20	11.73	19.62
Difference	-0.10	0.52	-0.18	1.42	-0.72	-2.55	-1.75	2.59	2.23	1.44
Total Domestic Equity (Composite)	-18.92 (63)	33.58 (45)	11.79 (46)	5.16 (25)	15.75 (49)	14.97 (85)	12.80 (49)	-1.73 (57)	17.23 (49)	22.56 (62)
Total Domestic Equity Policy	-18.87 (63)	31.98 (52)	15.74 (35)	2.36 (46)	17.73 (39)	18.62 (54)	14.77 (28)	-1.18 (53)	17.67 (43)	22.03 (67)
Difference	-0.05	1.60	-3.95	2.80	-1.98	-3.65	-1.97	-0.55	-0.44	0.53
IM U.S. All Cap Equity (SA+CF+MF) Median	-16.27	32.13	9.90	1.99	15.51	18.91	12.62	-0.81	17.13	24.30
Total Int'l Equity (Composite)	-27.22 (76)	20.58 (88)	13.93 (14)	-3.33 (73)	5.86 (16)	18.68 (72)	7.98 (53)	-8.63 (67)	6.07 (47)	16.67 (89)
Total Int'l Policy	-25.17 (49)	23.92 (68)	3.00 (59)	-1.23 (47)	1.76 (62)	19.61 (60)	9.26 (37)	-12.16 (90)	4.77 (64)	16.48 (90)
Difference	-2.05	-3.34	10.93	-2.10	4.10	-0.93	-1.28	3.53	1.30	0.19
IM International Large Cap Core Equity (SA+CF) Median	-25.45	25.45	4.80	-1.65	2.57	20.54	8.26	-6.92	5.77	22.28
Total Fixed Income (Composite)	-12.06 (15)	1.06 (62)	5.26 (81)	7.95 (82)	0.97 (20)	3.91 (25)	5.81 (64)	2.09 (60)	6.00 (34)	2.81 (12)
Total Fixed Policy	-14.60 (51)	-0.90 (95)	6.98 (57)	10.30 (51)	-1.22 (89)	0.07 (94)	5.19 (84)	2.94 (29)	3.96 (86)	-2.35 (97)
Difference	2.54	1.96	-1.72	-2.35	2.19	3.84	0.62	-0.85	2.04	5.16
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	-14.59	1.71	7.20	10.30	-0.46	1.88	6.27	2.46	5.33	-0.43
Total Real Estate (Composite)	-2.48 (100)	9.22 (88)	-2.00 (82)	5.87 (71)	10.09 (25)	9.82 (26)	9.06 (89)	14.70 (56)	12.33 (71)	8.10 (100)
NCREIF ODCE	22.76 (43)	15.75 (52)	1.74 (44)	6.17 (69)	8.82 (58)	7.81 (51)	10.62 (68)	14.71 (56)	12.39 (69)	12.47 (66)
Difference	-25.24	-6.53	-3.74	-0.30	1.27	2.01	-1.56	-0.01	-0.06	-4.37
IM U.S. Open End Private Real Estate (SA+CF) Median	21.16	15.91	1.62	6.80	8.98	7.83	11.18	15.20	12.90	13.22
Total Timber (Composite)	-43.56	-8.13	-4.04	5.58	-9.38	0.28	6.48	6.70	9.49	4.51
NCREIF Timberland Index	12.54	5.01	0.19	2.10	4.00	3.28	3.28	9.26	10.38	9.68
Difference	-56.10	-13.14	-4.23	3.48	-13.38	-3.00	3.20	-2.56	-0.89	-5.17
Total Alternatives (Composite)	-10.56	12.13	2.44	5.25	4.93	8.16	9.11	-3.68	6.84	-9.88
Alternatives Policy	-14.75	13.80	11.70	7.72	8.07	9.04	10.41	1.09	7.56	-3.91
Difference	4.19	-1.67	-9.26	-2.47	-3.14	-0.88	-1.30	-4.77	-0.72	-5.97



Comparative Performance

Fiscal Year Returns

As of December 31, 2022

	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	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
Total Domestic Equity (Composite)	-18.92	33.58	11.79	5.16	15.75	14.97	12.80	-1.73	17.23	22.56
Fidelity Total Market Ix (FSKAX)	-18.03 (66)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dow Jones U.S. Total Stock Market Index	-18.05 (66)	32.13 (11)	14.77 (50)	2.81 (58)	17.58 (39)	18.67 (44)	14.93 (24)	-0.55 (33)	17.69 (48)	21.44 (24)
Difference	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Core Equity (MF) Median	-17.11	29.04	14.72	3.57	16.73	18.34	13.01	-1.33	17.49	19.82
Rhumbline R1000V	-11.30 (66)	34.91 (59)	-4.97 (65)	4.00 (39)	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index	-11.36 (67)	35.01 (58)	-5.03 (66)	4.00 (39)	9.45 (75)	15.12 (76)	16.19 (25)	-4.42 (63)	18.89 (42)	22.30 (58)
Difference	0.06	-0.10	0.06	0.00	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Value Equity (SA+CF) Median	-9.53	36.98	-3.28	2.49	11.73	17.78	13.33	-3.39	18.38	23.54
Boston LCV	N/A	44.93 (21)	-7.29 (78)	3.28 (45)	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index	-11.36 (67)	35.01 (58)	-5.03 (66)	4.00 (39)	9.45 (75)	15.12 (76)	16.19 (25)	-4.42 (63)	18.89 (42)	22.30 (58)
Difference	N/A	9.92	-2.26	-0.72	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Value Equity (SA+CF) Median	-9.53	36.98	-3.28	2.49	11.73	17.78	13.33	-3.39	18.38	23.54
Brandywine LCV	-12.35 (74)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index	-11.36 (67)	35.01 (58)	-5.03 (66)	4.00 (39)	9.45 (75)	15.12 (76)	16.19 (25)	-4.42 (63)	18.89 (42)	22.30 (58)
Difference	-0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Value Equity (SA+CF) Median	-9.53	36.98	-3.28	2.49	11.73	17.78	13.33	-3.39	18.38	23.54
Total Growth (Composite)	-31.46 (77)	29.75 (18)	36.10 (41)	11.10 (6)	22.18 (79)	14.68 (98)	7.63 (92)	4.20 (43)	18.19 (51)	18.74 (71)
Russell 1000 Growth Index	-22.59 (27)	27.32 (47)	37.53 (34)	3.71 (46)	26.30 (44)	21.94 (41)	13.76 (21)	3.17 (58)	19.15 (40)	19.27 (65)
Difference	-8.87	2.43	-1.43	7.39	-4.12	-7.26	-6.13	1.03	-0.96	-0.53
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	-26.62	27.18	34.98	3.33	25.47	21.34	12.03	3.81	18.26	20.86
Vanguard Total Stock Mkt (VTSAX)	N/A	N/A	14.99 (33)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Total Market TR Index	-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)	21.59 (55)
Difference	N/A	N/A	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Equity (MF) Median	-17.39	31.93	4.43	0.15	13.34	17.56	12.15	-0.93	13.77	22.53
Rhumbline R1000G	-22.55 (39)	27.32 (49)	37.55 (31)	3.70 (52)	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	-22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)	13.76 (21)	3.17 (58)	19.15 (39)	19.27 (65)
Difference	0.04	0.00	0.02	-0.01	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median	-25.12	27.23	33.78	3.81	24.81	21.10	11.84	3.87	18.18	20.26
Sawgrass Large Cap Growth	N/A	N/A	N/A	N/A	21.71 (70)	14.68 (96)	7.63 (89)	4.20 (44)	18.19 (50)	18.74 (70)
Russell 1000 Growth Index	-22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)	13.76 (21)	3.17 (58)	19.15 (39)	19.27 (65)
Difference	N/A	N/A	N/A	N/A	-4.59	-7.26	-6.13	1.03	-0.96	-0.53
IM U.S. Large Cap Growth Equity (SA+CF) Median	-25.12	27.23	33.78	3.81	24.81	21.10	11.84	3.87	18.18	20.26



Comparative Performance

Fiscal Year Returns

As of December 31, 2022

	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	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
Polen Capital LCG	-34.26 (91)	30.52 (20)	35.64 (39)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	-22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)	13.76 (21)	3.17 (58)	19.15 (39)	19.27 (65)
Difference	-11.67	3.20	-1.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median	-25.12	27.23	33.78	3.81	24.81	21.10	11.84	3.87	18.18	20.26
Vanguard Mid-Cap Index (VIMAX)	N/A	N/A	7.08 (10)	3.65 (33)	13.42 (24)	15.30 (46)	12.63 (44)	N/A	N/A	N/A
CRSP U.S. Mid Cap TR Index	-19.47 (91)	36.12 (66)	7.07 (10)	3.70 (32)	13.44 (24)	15.33 (45)	12.68 (44)	1.76 (18)	15.94 (14)	28.08 (40)
Difference	N/A	N/A	0.01	-0.05	-0.02	-0.03	-0.05	N/A	N/A	N/A
IM U.S. Mid Cap Core Equity (MF) Median	-14.07	37.86	-2.64	1.86	9.96	15.17	11.88	-1.28	12.77	27.41
Fidelity Mid Cap Index (FSMDX)	-19.38 (90)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell Midcap Index	-19.39 (90)	38.11 (47)	4.55 (17)	3.19 (37)	13.98 (19)	15.32 (46)	14.25 (27)	-0.25 (30)	15.83 (16)	27.91 (41)
Difference	0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Mid Cap Core Equity (MF) Median	-14.07	37.86	-2.64	1.86	9.96	15.17	11.88	-1.28	12.77	27.41
Clarkston Partners (CISMX)	-6.39 (7)	29.33 (100)	2.07 (1)	3.45 (6)	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Value Index	-15.35 (84)	54.38 (63)	-12.62 (34)	-4.35 (36)	10.24 (58)	15.75 (76)	17.68 (6)	-2.44 (39)	9.88 (56)	27.58 (83)
Difference	8.96	-25.05	14.69	7.80	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. SMID Cap Value Equity (MF) Median	-10.96	63.40	-14.54	-6.44	10.32	16.71	14.88	-3.68	11.03	31.01
Total Int'l Equity (Composite)	-27.22 (76)	20.58 (88)	13.93 (14)	-3.33 (73)	5.86 (16)	18.68 (72)	7.98 (53)	-8.63 (67)	6.07 (47)	16.67 (89)
Total Int'l Policy	-25.17 (49)	23.92 (68)	3.00 (59)	-1.23 (47)	1.76 (62)	19.61 (60)	9.26 (37)	-12.16 (90)	4.77 (64)	16.48 (90)
Difference	-2.05	-3.34	10.93	-2.10	4.10	-0.93	-1.28	3.53	1.30	0.19
IM International Large Cap Core Equity (SA+CF) Median	-25.45	25.45	4.80	-1.65	2.57	20.54	8.26	-6.92	5.77	22.28
Harding Loevner Intl Equity (HLIZX)	-27.22 (44)	20.58 (64)	14.11 (29)	-3.34 (62)	5.85 (11)	18.65 (58)	N/A	N/A	N/A	N/A
MSCI AC World ex USA (Net)	-25.17 (29)	23.92 (47)	3.00 (63)	-1.23 (44)	1.76 (35)	19.61 (48)	9.26 (51)	-12.16 (65)	4.77 (43)	16.48 (56)
Difference	-2.05	-3.34	11.11	-2.11	4.09	-0.96	N/A	N/A	N/A	N/A
IM International Equity (MF) Median	-28.15	23.07	6.53	-1.89	0.18	19.37	9.31	-8.71	4.26	17.85
Total Emerging Mkts (Composite)	-20.74 (22)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI Emerging Markets IMI (Net)	-27.51 (51)	20.80 (56)	10.14 (51)	-2.41 (74)	-1.18 (33)	21.43 (60)	16.19 (61)	-18.74 (67)	4.87 (67)	1.41 (75)
Difference	6.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM Emerging Markets Equity (SA+CF) Median	-27.48	22.15	10.35	0.21	-2.53	22.66	17.27	-16.95	6.57	4.68
ABS Emerging Markets Strategic Portfolio, L.P.	-20.74 (20)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI Emerging Markets IMI (Net)	-27.51 (45)	20.80 (52)	10.14 (50)	-2.41 (69)	-1.18 (26)	21.43 (57)	16.19 (51)	-18.74 (63)	4.87 (57)	1.41 (74)
Difference	6.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM Emerging Markets Equity (SA+CF) Median	-28.23	21.04	9.98	-0.60	-3.48	22.02	16.20	-17.19	5.47	3.93



Comparative Performance

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	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	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
Total Core Fixed Income (Composite)	-14.99	-1.42	7.40	8.75	-0.70	0.79	5.78	3.88	4.40	-1.26
Total Core Fixed	-14.60	-0.90	6.98	10.30	-1.22	0.07	5.19	2.94	3.96	-1.68
Difference	-0.39	-0.52	0.42	-1.55	0.52	0.72	0.59	0.94	0.44	0.42
Garcia Hamilton Fixed Income	N/A	-1.42 (96)	7.40 (55)	8.75 (95)	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. U.S. Aggregate Index	-14.60 (60)	-0.90 (84)	6.98 (77)	10.30 (69)	-1.22 (88)	0.07 (84)	5.19 (80)	2.94 (62)	3.96 (80)	-1.68 (78)
Difference	N/A	-0.52	0.42	-1.55	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	-14.50	-0.03	7.53	10.42	-0.74	0.63	5.66	3.02	4.44	-1.29
Baird Aggregate Bond Fund (BAGIX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. U.S. Aggregate Index	-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)	-1.68 (54)
Difference	N/A	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	-15.29	0.16	6.94	9.78	-1.32	0.49	5.23	1.95	4.24	-1.60
Total Non-Core Fixed Income (Composite)	-9.50	8.24	-2.27	5.19	4.99	11.18	6.07	-2.56	9.33	11.74
Bloomberg Global Aggregate	-20.43	-0.91	6.24	7.60	-1.31	-1.26	8.83	-3.26	1.19	-2.64
Difference	10.93	9.15	-8.51	-2.41	6.30	12.44	-2.76	0.70	8.14	14.38
Templeton Global Total Return (FTTRX)	N/A	N/A	-4.57 (100)	2.49 (99)	-1.90 (64)	13.82 (1)	2.64 (95)	-8.23 (95)	5.71 (22)	5.29 (2)
Blmbg. Global Multiverse	-20.34 (63)	-0.45 (79)	5.99 (33)	7.54 (51)	-1.32 (50)	-0.56 (78)	9.23 (25)	-3.56 (42)	1.40 (79)	-2.22 (57)
Difference	N/A	N/A	-10.56	-5.05	-0.58	14.38	-6.59	-4.67	4.31	7.51
IM Global Fixed Income (MF) Median	-17.63	0.89	5.39	7.65	-1.33	1.10	7.40	-3.88	3.35	-1.81
Loomis Sayles Bond Fund (LSBDX)	-14.64 (26)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. U.S. Aggregate Index	-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)	-1.68 (54)
Difference	-0.04	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	-15.29	0.16	6.94	9.78	-1.32	0.49	5.23	1.95	4.24	-1.60
MainStay High Yield Corp Bond (MHYSX)	-11.05 (10)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. U.S. Corp High Yield	-14.14 (56)	11.28 (39)	3.25 (21)	6.36 (29)	3.05 (25)	8.88 (25)	12.73 (3)	-3.43 (55)	7.20 (19)	7.14 (35)
Difference	3.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. High Yield Bonds (MF) Median	-13.92	10.57	2.06	5.50	2.29	7.77	9.81	-3.22	6.14	6.57
Total Real Estate (Composite)	-2.48	9.22	-2.00	5.87	10.09	9.82	9.06	14.70	12.33	8.10
ARA Core Property	25.79 (20)	13.51 (74)	1.62 (50)	6.81 (49)	8.50 (63)	7.53 (55)	9.04 (89)	13.98 (60)	12.49 (67)	12.27 (69)
NCREIF ODCE	22.76 (43)	15.75 (52)	1.74 (44)	6.17 (69)	8.82 (58)	7.81 (51)	10.62 (68)	14.71 (56)	12.39 (69)	12.47 (66)
Difference	3.03	-2.24	-0.12	0.64	-0.32	-0.28	-1.58	-0.73	0.10	-0.20
IM U.S. Open End Private Real Estate (SA+CF) Median	21.16	15.91	1.62	6.80	8.98	7.83	11.18	15.20	12.90	13.22
Total Timber (Composite)	-43.56	-8.13	-4.04	5.58	-9.38	0.28	6.48	6.70	9.49	4.51

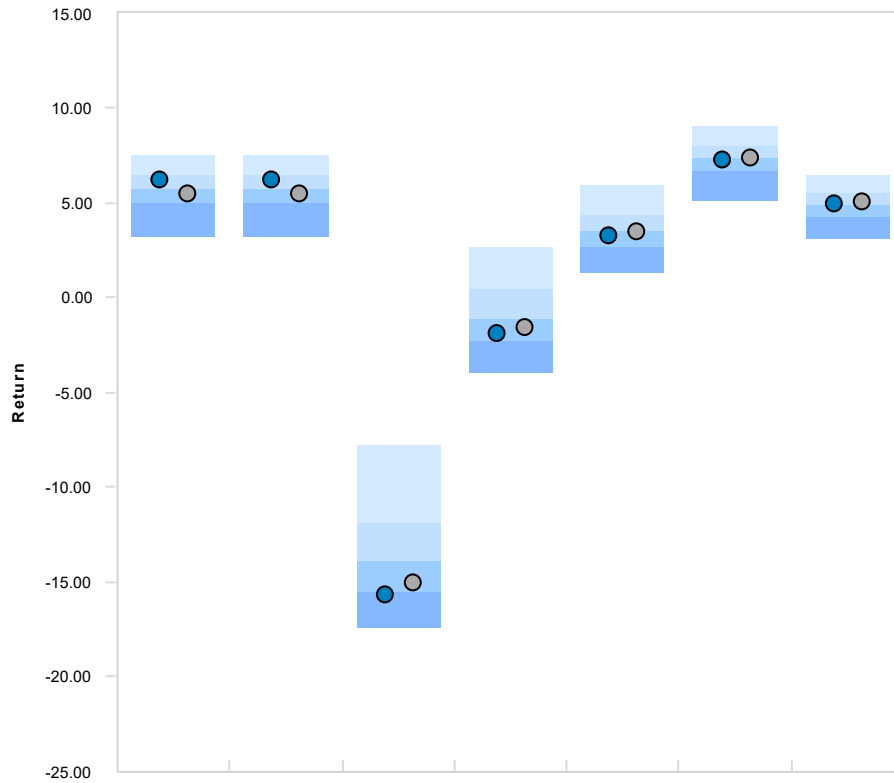


Comparative Performance
Fiscal Year Returns
As of December 31, 2022

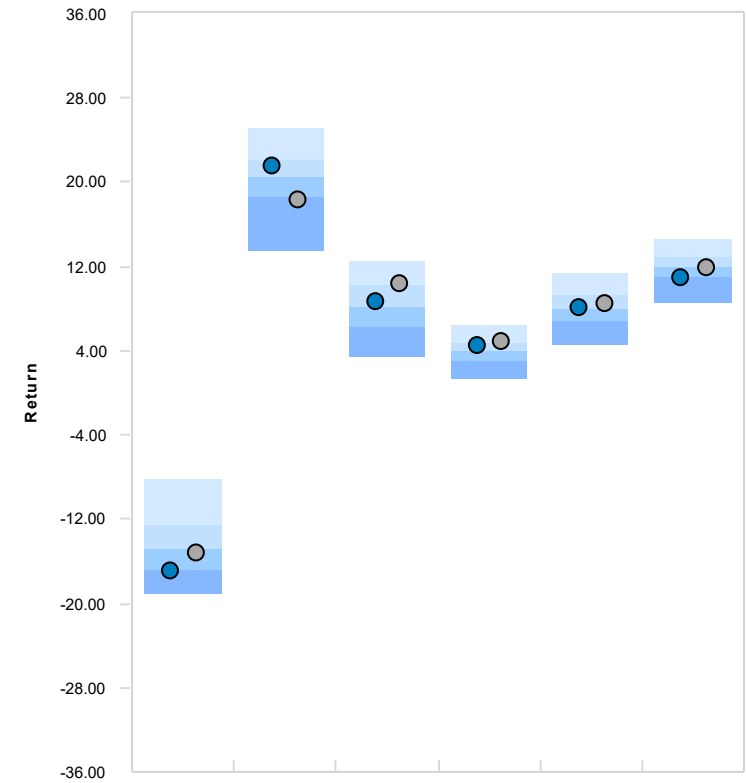
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
Amsouth Timber Fund	N/A	N/A	N/A	N/A	-15.26	-0.52	6.12	11.73	7.98	3.85
NCREIF Timberland Index	12.54	5.01	0.19	2.10	4.00	3.28	3.28	9.26	10.38	9.68
Difference	N/A	N/A	N/A	N/A	-19.26	-3.80	2.84	2.47	-2.40	-5.83
Molpus Woodlands Timber	-43.56	-8.13	-4.04	5.91	-2.66	1.18	6.08	1.64	10.96	5.25
NCREIF Timberland Index	12.54	5.01	0.19	2.10	4.00	3.28	3.28	9.26	10.38	9.68
Difference	-56.10	-13.14	-4.23	3.81	-6.66	-2.10	2.80	-7.62	0.58	-4.43
Alternatives										
Blackrock Multi-Asset Income (BKMIX)	-14.36 (46)	12.13 (77)	2.44 (52)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50% MSCI World Value/ 50% BBA	-13.43 (40)	14.65 (64)	-0.25 (71)	5.80 (24)	N/A	N/A	N/A	N/A	N/A	N/A
Difference	-0.93	-2.52	2.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM Flexible Portfolio (MF) Median	-14.79	16.31	2.56	2.63	3.45	9.51	8.68	-4.37	8.19	8.68
Westwood Income Opportunity Fund (WHGIX)	N/A	N/A	N/A	N/A	4.93 (35)	8.14 (64)	9.20 (41)	-3.83 (45)	N/A	N/A
Alternatives Policy	-14.75 (50)	13.80 (68)	11.70 (13)	7.72 (15)	8.07 (19)	9.04 (54)	10.41 (25)	1.09 (12)	7.56 (57)	-3.91 (95)
Difference	N/A	N/A	N/A	N/A	-3.14	-0.90	-1.21	-4.92	N/A	N/A
IM Flexible Portfolio (MF) Median	-14.79	16.31	2.56	2.63	3.45	9.51	8.68	-4.37	8.19	8.68



Peer Group Analysis - All Public Plans-Total Fund



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Fund (Composite)	6.32 (30)	6.32 (30)	-15.63 (77)	-1.81 (64)	3.31 (59)	7.29 (57)	5.02 (46)
○ Total Fund Policy	5.57 (57)	5.57 (57)	-15.02 (69)	-1.57 (58)	3.55 (50)	7.43 (51)	5.15 (40)
Median	5.72	5.72	-13.88	-1.10	3.54	7.44	4.91



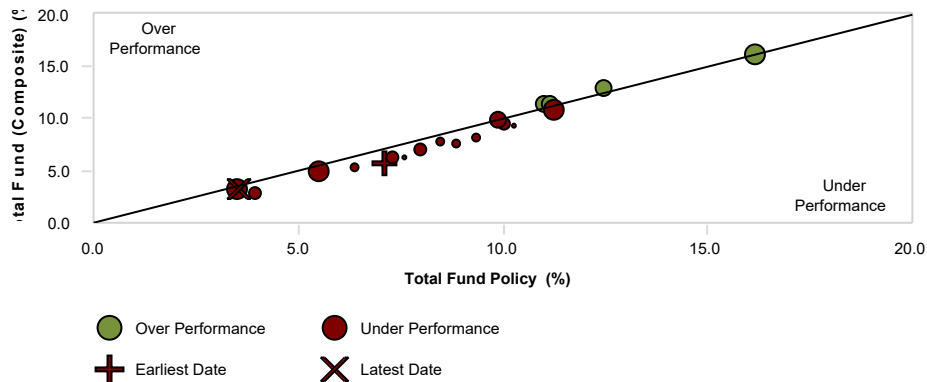
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Total Fund (Composite)	16.95 (76)	21.61 (31)	8.70 (44)	4.49 (33)	8.11 (47)	11.07 (72)
○ Total Fund Policy	15.18 (56)	18.47 (76)	10.42 (24)	5.02 (21)	8.59 (38)	11.90 (53)
Median	14.76	20.38	8.14	3.98	7.98	11.98

Comparative Performance

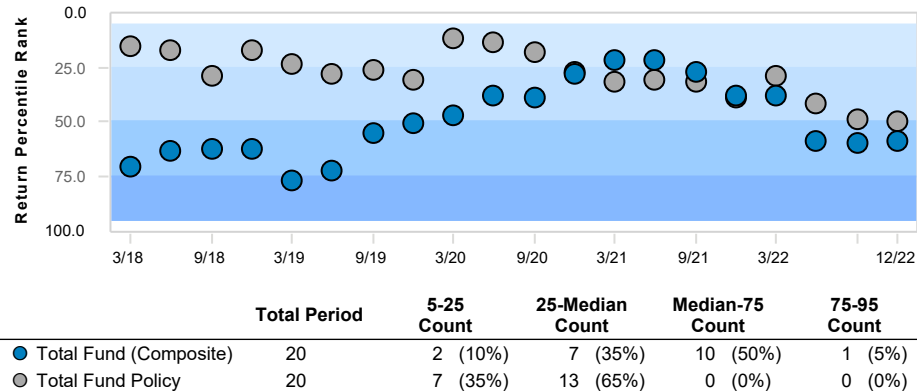
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Total Fund (Composite)	-4.51 (59)	-12.01 (86)	-5.55 (66)	4.66 (45)	-0.84 (95)	5.81 (27)
Total Fund Policy	-4.68 (66)	-11.76 (81)	-4.30 (31)	5.37 (17)	-0.01 (42)	5.61 (39)
All Public Plans-Total Fund Median	-4.30	-10.64	-4.94	4.50	-0.13	5.46



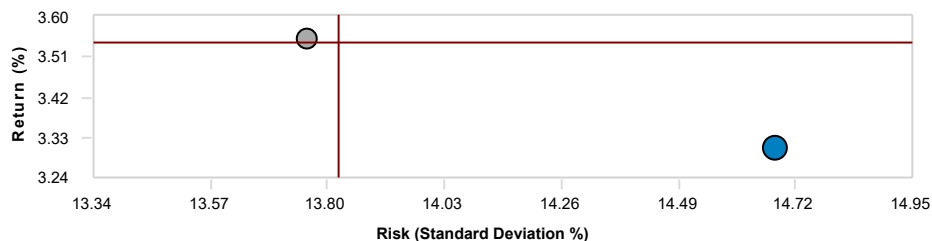
3 Yr Rolling Under/Over Performance - 5 Years



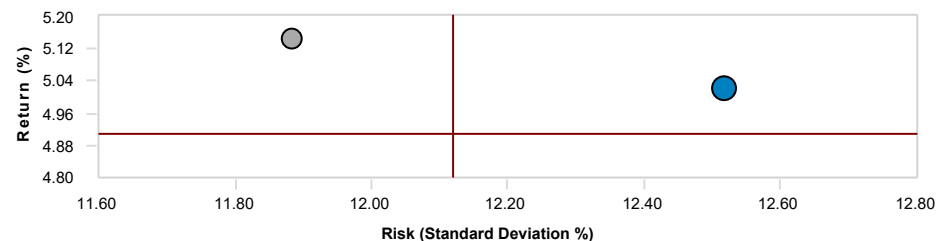
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

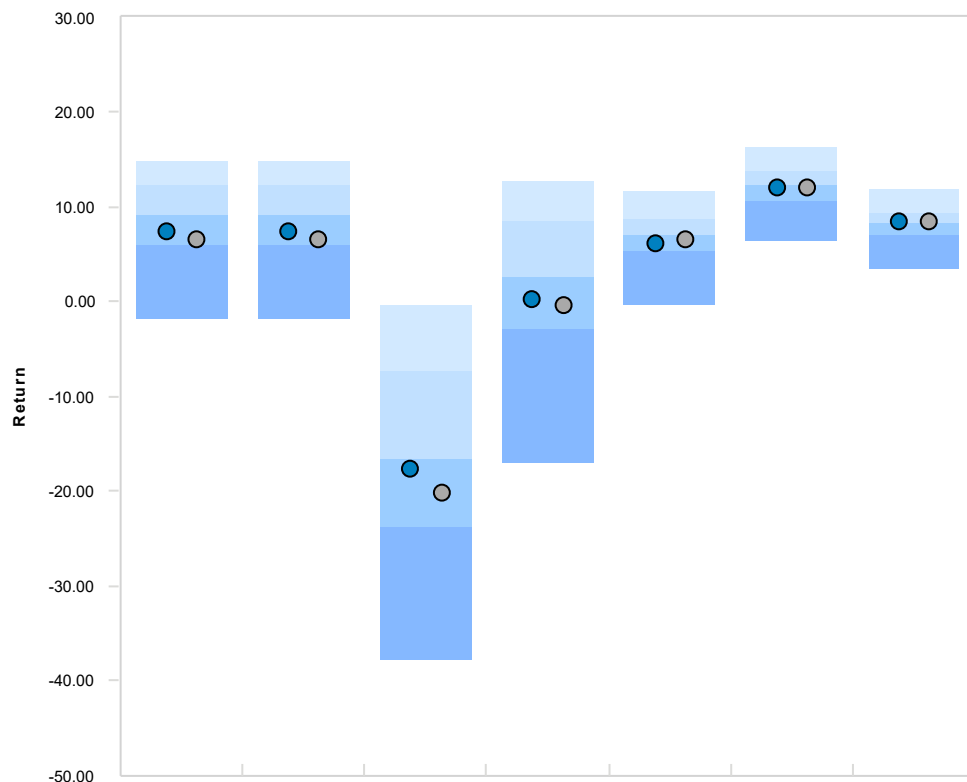
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	2.14	107.01	109.39	-0.36	-0.05	0.24	1.06	10.24
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.27	1.00	9.57

Historical Statistics - 5 Years

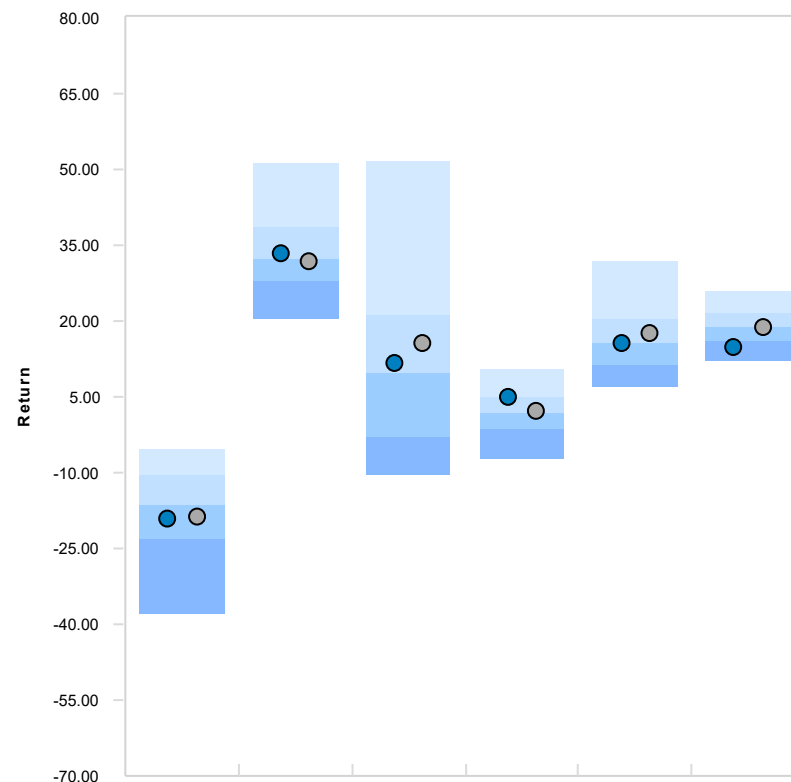
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	1.76	105.00	107.37	-0.29	-0.02	0.35	1.04	8.67
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.37	1.00	8.17



Peer Group Analysis - IM U.S. All Cap Equity (SA+CF+MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Dom Eqty	7.57 (62)	7.57 (62)	-17.63 (55)	0.27 (63)	6.15 (67)	12.20 (52)	8.43 (46)
● Total DE Policy	6.72 (70)	6.72 (70)	-20.15 (67)	-0.29 (66)	6.70 (59)	12.15 (53)	8.42 (46)
Median	9.13	9.13	-16.54	2.67	7.13	12.30	8.27



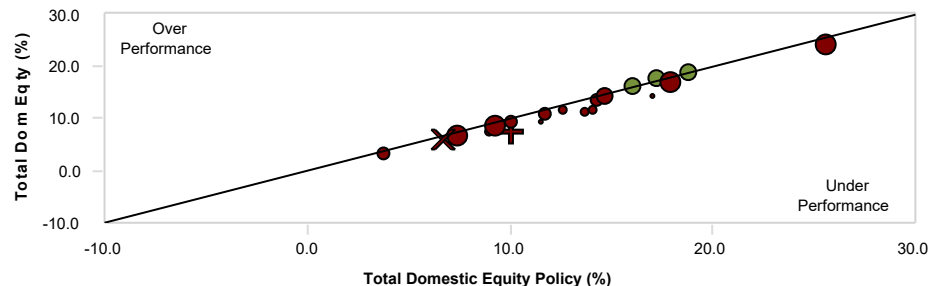
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Total Dom Eqty	-18.92 (63)	33.58 (45)	11.79 (46)	5.16 (25)	15.75 (49)	14.97 (85)
● Total DE Policy	-18.87 (63)	31.98 (52)	15.74 (35)	2.36 (46)	17.73 (39)	18.62 (54)
Median	-16.27	32.13	9.90	1.99	15.51	18.91

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Total Dom Eqty	-4.51 (52)	-15.23 (50)	-5.41 (52)	5.89 (72)	-0.91 (68)	7.79 (46)
Total Domestic Equity Policy	-4.20 (43)	-17.30 (71)	-5.55 (54)	8.44 (46)	-0.25 (49)	8.43 (33)
IM U.S. All Cap Equity (SA+CF+MF) Median	-4.46	-15.28	-5.26	7.95	-0.32	7.37

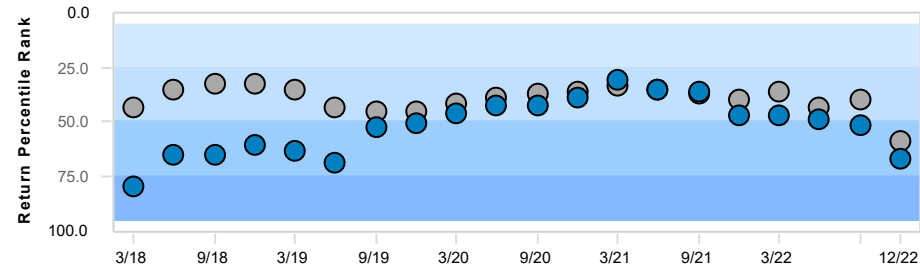


3 Yr Rolling Under/Over Performance - 5 Years



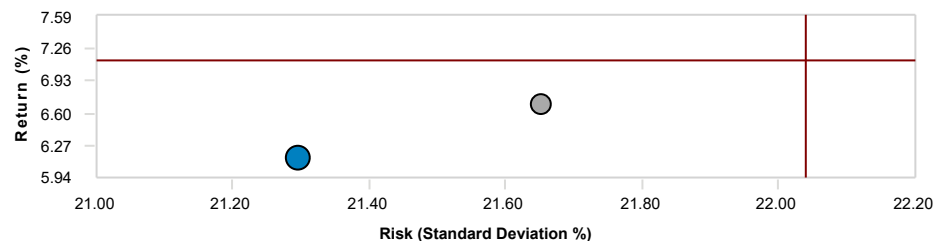
- Over Performance
- Under Performance
- +** Earliest Date
- X** Latest Date

3 Yr Rolling Percentile Ranking - 5 Years



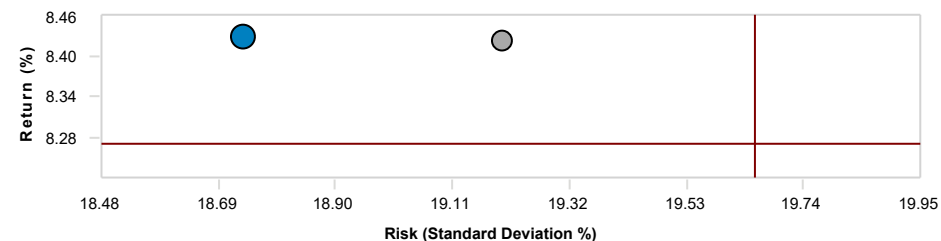
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
● Total Dom Eqty	20	0 (0%)	10 (50%)	9 (45%)	1 (5%)
● Total DE Policy	20	0 (0%)	19 (95%)	1 (5%)	0 (0%)

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
● Total Dom Eqty	6.15	21.29
● Total DE Policy	6.70	21.65
— Median	7.13	22.04

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
● Total Dom Eqty	8.43	18.73
● Total DE Policy	8.42	19.20
— Median	8.27	19.65

Historical Statistics - 3 Years

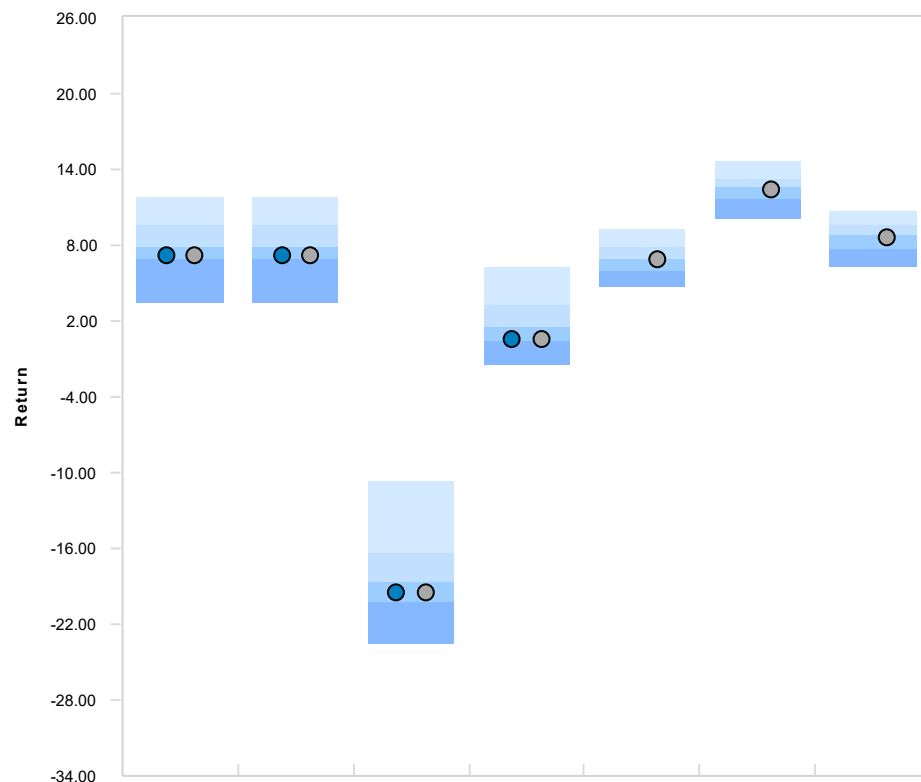
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Dom Eqty	2.69	97.53	98.91	-0.37	-0.22	0.35	0.98	14.49
Total DE Policy	0.00	100.00	100.00	0.00	N/A	0.37	1.00	14.54

Historical Statistics - 5 Years

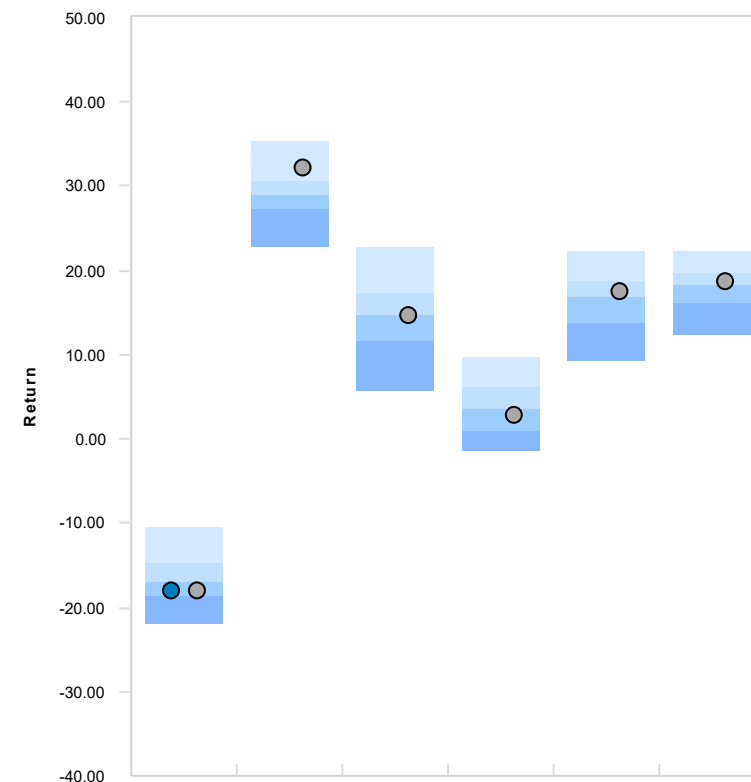
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Dom Eqty	2.35	97.95	97.38	0.24	-0.03	0.46	0.97	12.78
Total DE Policy	0.00	100.00	100.00	0.00	N/A	0.45	1.00	12.97



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Fidelity T. Market Ix	7.18 (67)	7.18 (67)	-19.52 (65)	0.56 (74)	N/A	N/A	N/A
● DJ U.S. T. Stock Mkt	7.18 (67)	7.18 (67)	-19.53 (66)	0.56 (74)	6.89 (52)	12.45 (53)	8.65 (54)
Median	7.83	7.83	-18.72	1.47	6.95	12.51	8.77



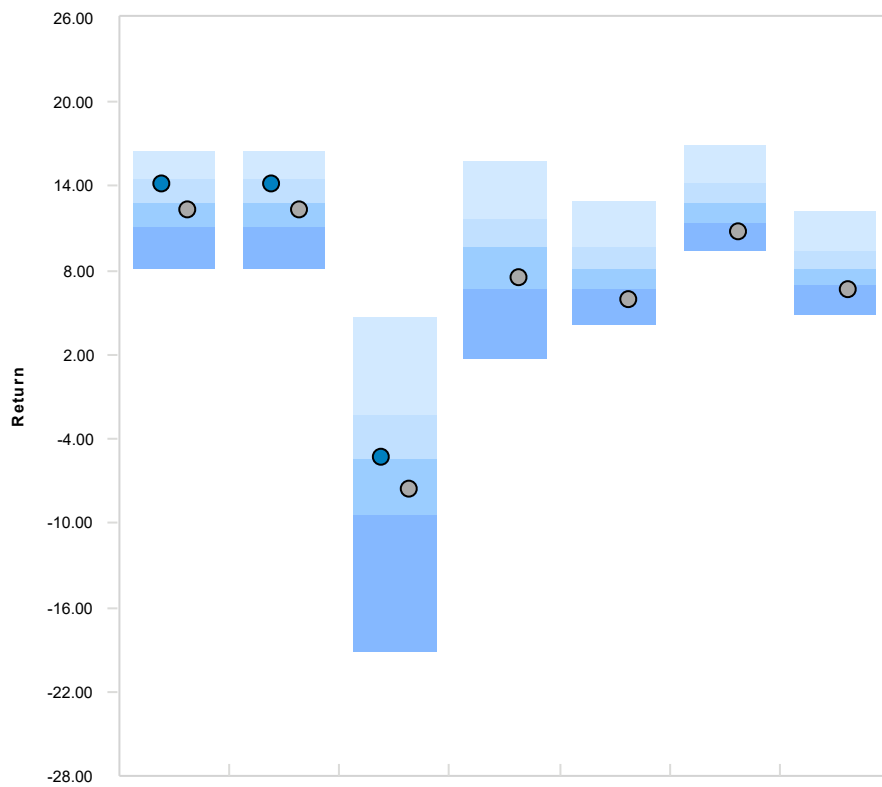
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Fidelity T. Market Ix	18.03 (66)	N/A	N/A	N/A	N/A	N/A
● DJ U.S. T. Stock Mkt	18.05 (66)	32.13 (11)	14.77 (50)	2.81 (58)	17.58 (39)	18.67 (44)
Median	17.11	29.04	14.72	3.57	16.73	18.34

Comparative Performance

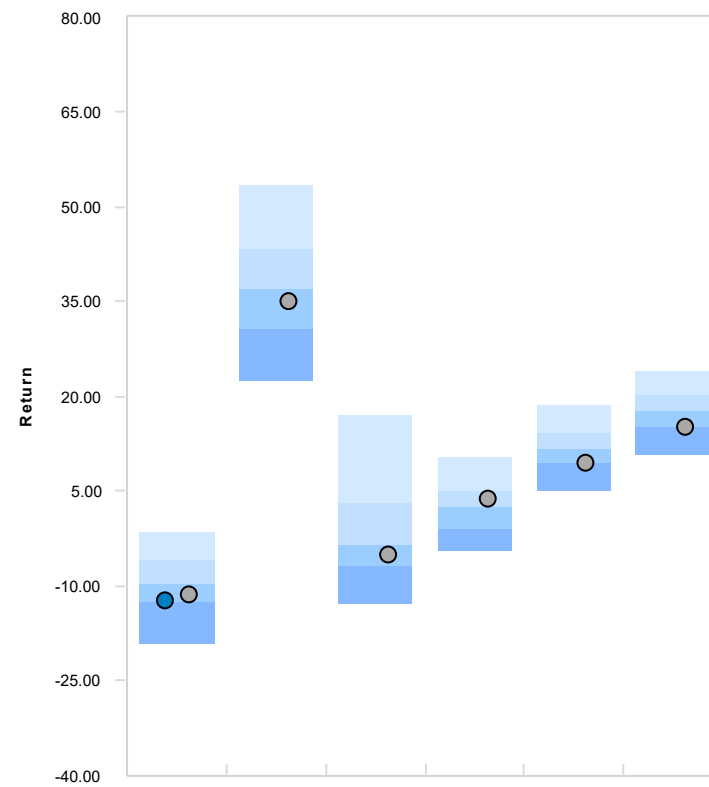
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Fidelity T. Market Ix	-4.56 (28)	-16.83 (76)	-5.40 (45)	9.15 (71)	-0.12 (73)	8.28 (52)
Dow Jones U.S. Total Stock Market Index	-4.56 (28)	-16.84 (76)	-5.40 (45)	9.14 (71)	-0.12 (73)	8.29 (51)
IM U.S. Large Cap Core Equity (MF) Median	-5.16	-15.79	-5.62	10.18	0.26	8.32



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Brandywine LCV	14.24 (27)	14.24 (27)	-5.30 (49)	N/A	N/A	N/A	N/A
● Russell 1000 Value Index	12.42 (56)	12.42 (56)	-7.54 (70)	7.58 (73)	5.96 (86)	10.77 (85)	6.67 (81)
Median	12.75	12.75	-5.44	9.67	8.06	12.75	8.11



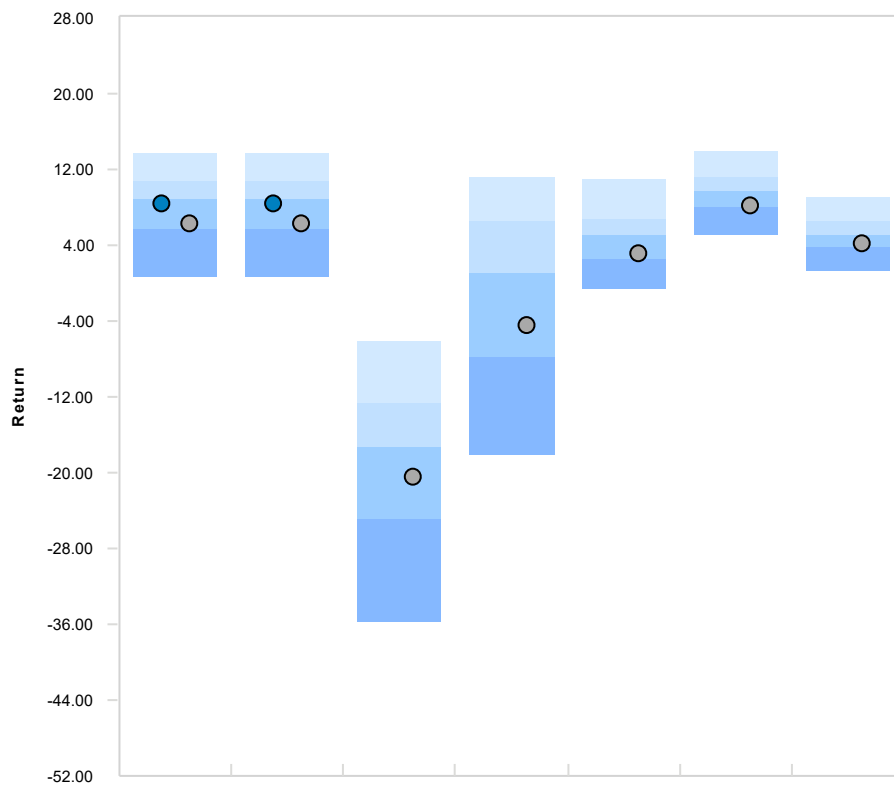
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Brandywine LCV	12.35 (74)	N/A	N/A	N/A	N/A	N/A
● Russell 1000 Value Index	11.36 (67)	35.01 (58)	-5.03 (66)	4.00 (39)	9.45 (75)	15.12 (76)
Median	-9.53	36.98	-3.28	2.49	11.73	17.78

Comparative Performance

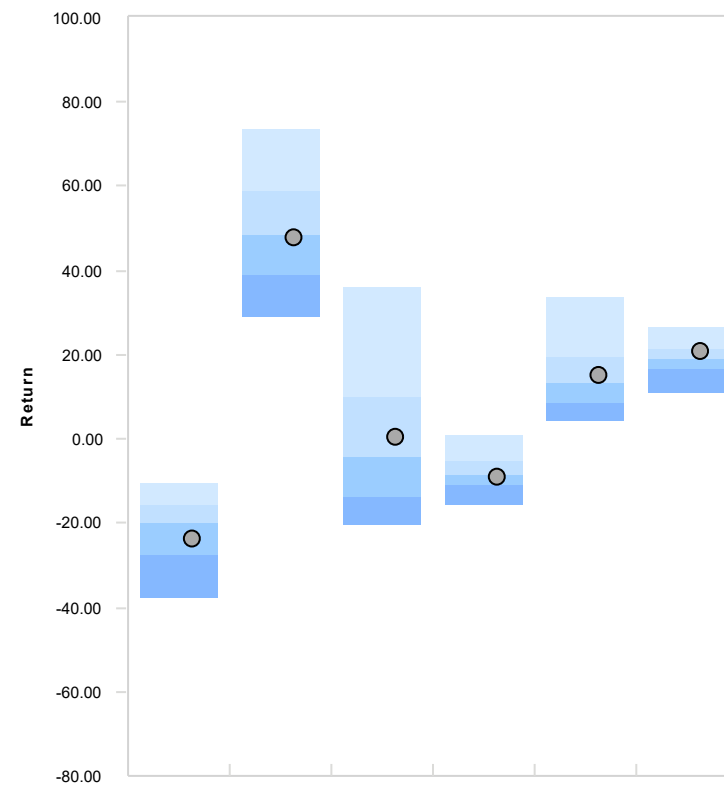
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Brandywine LCV	-4.50 (29)	-12.12 (60)	-1.22 (64)	5.74 (90)	N/A	N/A
Russell 1000 Value Index	-5.62 (50)	-12.21 (61)	-0.74 (60)	7.77 (61)	-0.78 (61)	5.21 (66)
IM U.S. Large Cap Value Equity (SA+CF) Median	-5.64	-11.67	-0.22	8.27	-0.51	5.81



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Mass Mutual (MSOXX)	8.43 (54)	8.43 (54)	N/A	N/A	N/A	N/A	N/A
● Russell 2000 Index	6.23 (71)	6.23 (71)	-20.44 (64)	-4.42 (68)	3.10 (71)	8.30 (72)	4.13 (69)
Median	8.74	8.74	-17.20	1.05	4.99	9.60	5.13



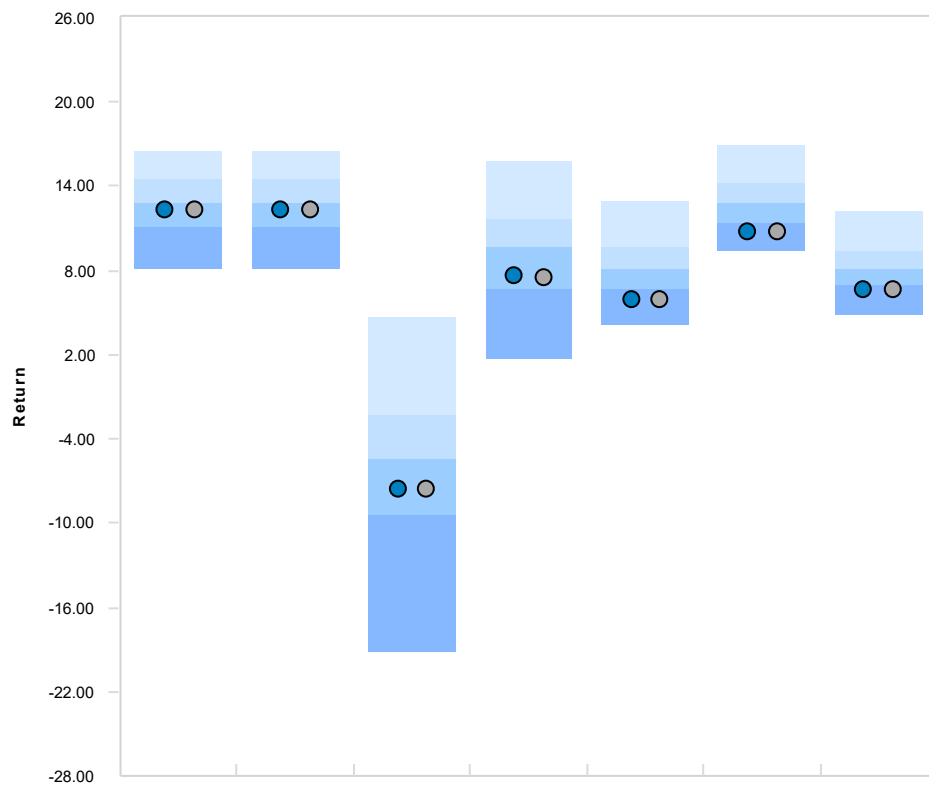
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Mass Mutual (MSOXX)	N/A	N/A	N/A	N/A	N/A	N/A
● Russell 2000 Index	23.50 (65)	47.68 (53)	0.39 (40)	-8.89 (57)	15.24 (41)	20.74 (30)
Median	19.95	48.49	-4.24	-8.26	13.44	19.18

Comparative Performance

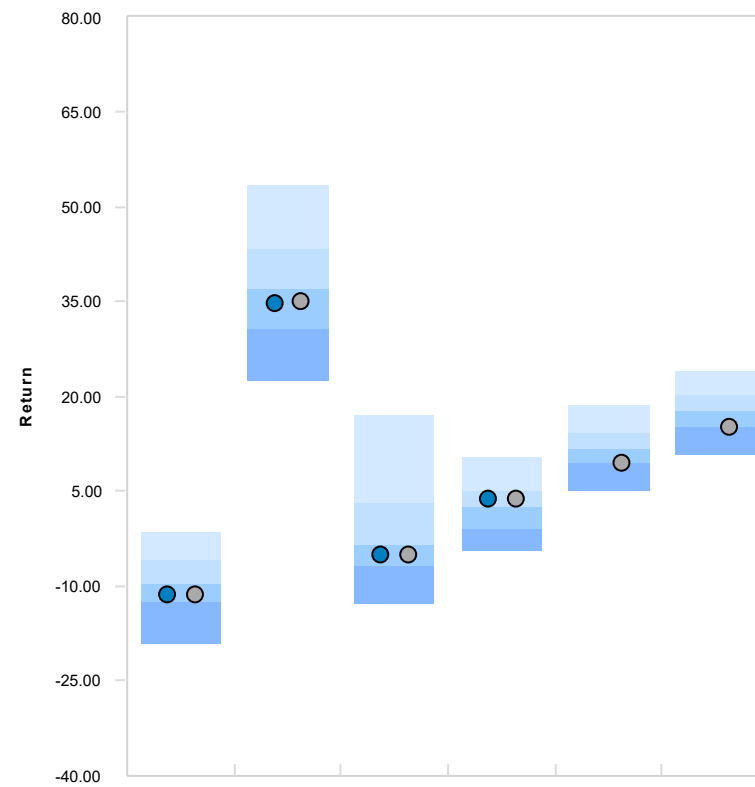
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Mass Mutual (MSOXX)	-2.74 (30)	N/A	N/A	N/A	N/A	N/A
Russell 2000 Index	-2.19 (24)	-17.20 (85)	-7.53 (61)	2.14 (72)	-4.36 (70)	4.29 (23)
IM U.S. Small Cap Equity (MA) Median	-4.19	-13.59	-4.98	4.53	-2.73	2.58



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Rhumblin R1000V	12.42 (56)	12.42 (56)	-7.48 (70)	7.60 (73)	5.98 (86)	10.77 (85)	6.68 (81)
● Russell 1000 Value	12.42 (56)	12.42 (56)	-7.54 (70)	7.58 (73)	5.96 (86)	10.77 (85)	6.67 (81)
Median	12.75	12.75	-5.44	9.67	8.06	12.75	8.11



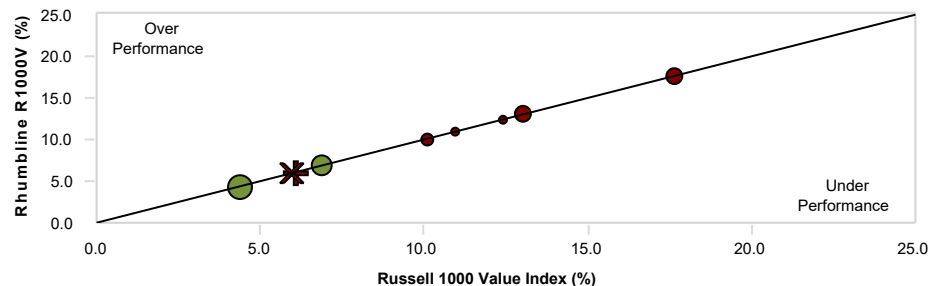
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Rhumblin R1000V	-11.30 (66)	34.91 (59)	-4.97 (65)	4.00 (39)	N/A	N/A
● Russell 1000 Value	-11.36 (67)	35.01 (58)	-5.03 (66)	4.00 (39)	9.45 (75)	15.12 (76)
Median	-9.53	36.98	-3.28	2.49	11.73	17.78

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Rhumblin R1000V	-5.61 (49)	-12.17 (60)	-0.73 (60)	7.77 (61)	-0.77 (60)	5.19 (66)
Russell 1000 Value Index	-5.62 (50)	-12.21 (61)	-0.74 (60)	7.77 (61)	-0.78 (61)	5.21 (66)
IM U.S. Large Cap Value Equity (SA+CF) Median	-5.64	-11.67	-0.22	8.27	-0.51	5.81

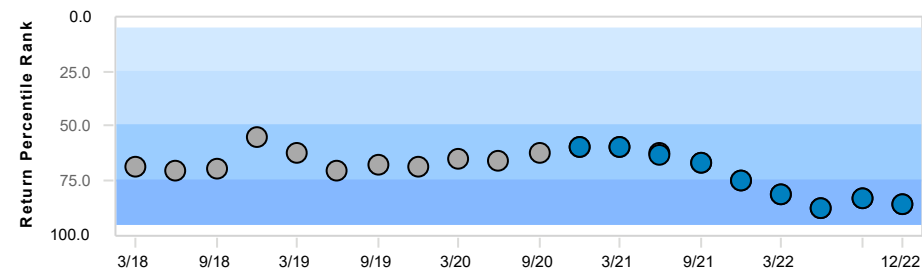


3 Yr Rolling Under/Over Performance - 5 Years



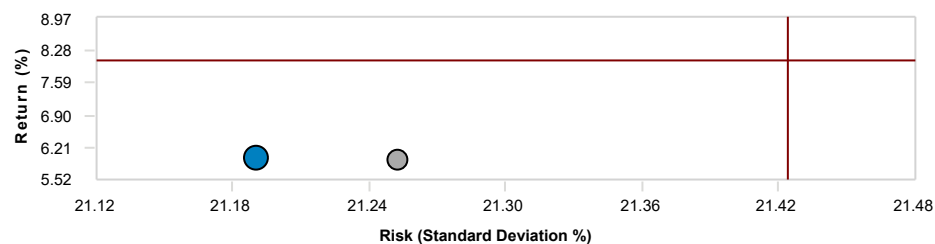
- Over Performance
- Under Performance
- + Earliest Date
- X Latest Date

3 Yr Rolling Percentile Ranking - 5 Years



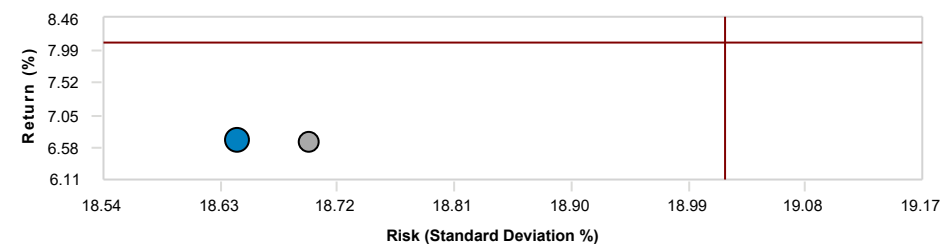
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
● Rhumbline R1000V	9	0 (0%)	0 (0%)	5 (56%)	4 (44%)
● Russell 1000 Value	20	0 (0%)	0 (0%)	16 (80%)	4 (20%)

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
● Rhumbline R1000V	5.98	21.19
● Russell 1000 Value	5.96	21.25
— Median	8.06	21.42

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
● Rhumbline R1000V	6.68	18.64
● Russell 1000 Value	6.67	18.70
— Median	8.11	19.02

Historical Statistics - 3 Years

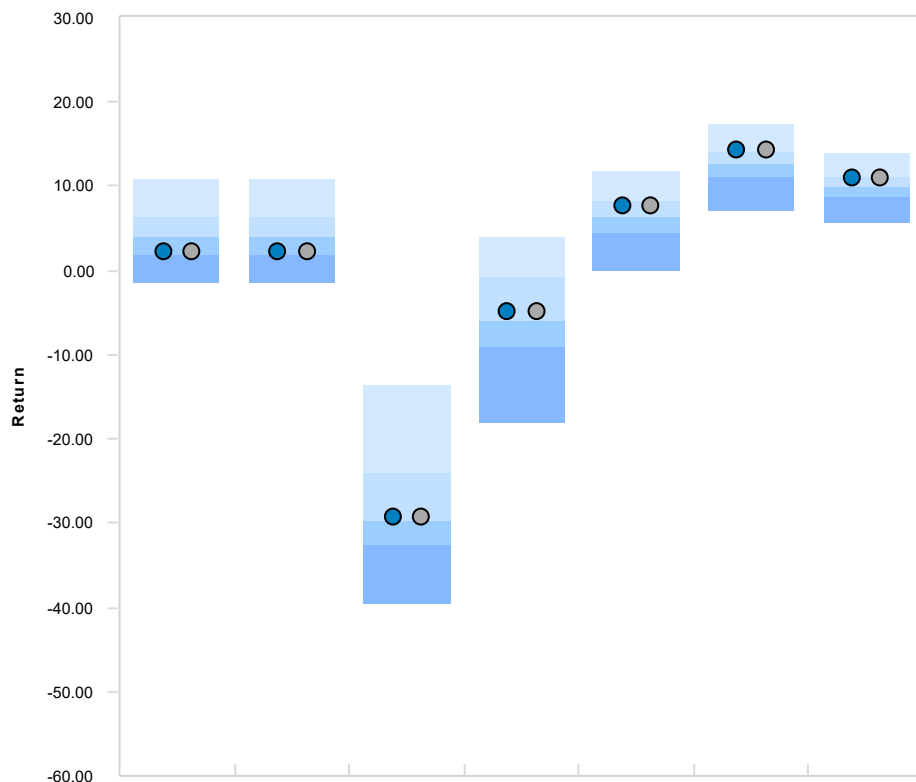
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Rhumbline R1000V	0.07	99.79	99.70	0.03	0.10	0.35	1.00	14.58
Russell 1000 Value	0.00	100.00	100.00	0.00	N/A	0.35	1.00	14.63

Historical Statistics - 5 Years

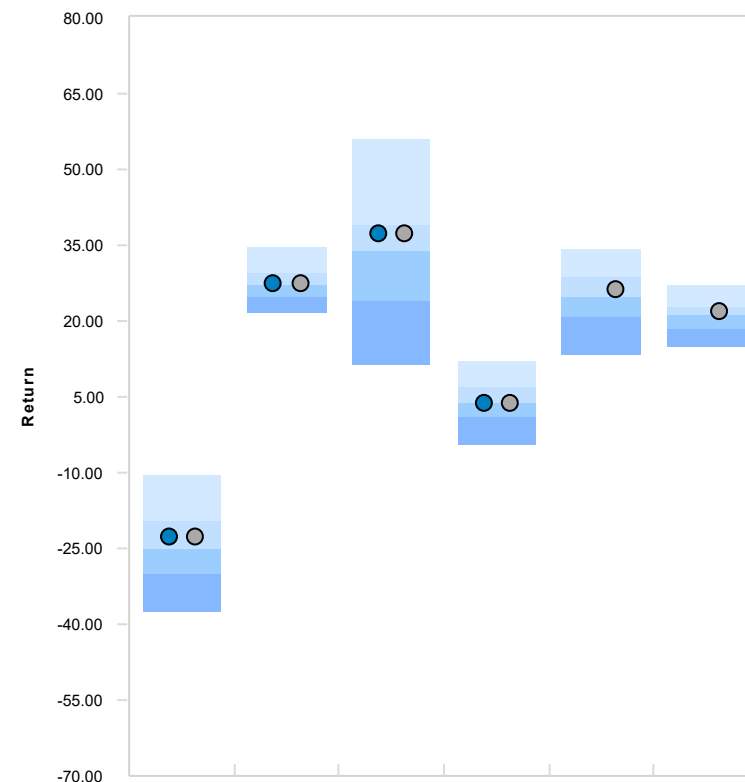
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Rhumbline R1000V	0.06	99.77	99.69	0.02	-0.04	0.37	1.00	12.89
Russell 1000 Value	0.00	100.00	100.00	0.00	N/A	0.37	1.00	12.94



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Rhumbline R1000G	2.21 (73)	2.21 (73)	-29.10 (49)	-4.89 (42)	7.82 (30)	14.33 (24)	10.97 (29)
● Russell 1000 Growth	2.20 (73)	2.20 (73)	-29.14 (49)	-4.91 (42)	7.79 (30)	14.32 (25)	10.96 (30)
Median	3.91	3.91	-29.57	-5.98	6.30	12.69	9.98



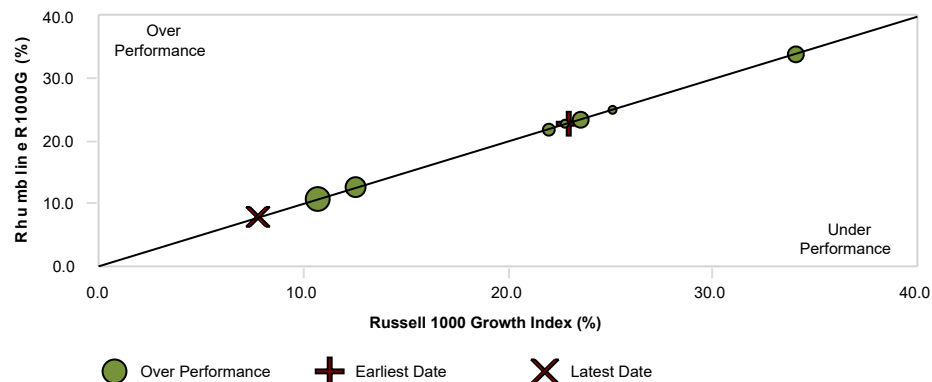
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Rhumbline R1000G	22.55 (39)	27.32 (49)	37.55 (31)	3.70 (52)	N/A	N/A
● Russell 1000 Growth	22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)
Median	25.12	27.23	33.78	3.81	24.81	21.10

Comparative Performance

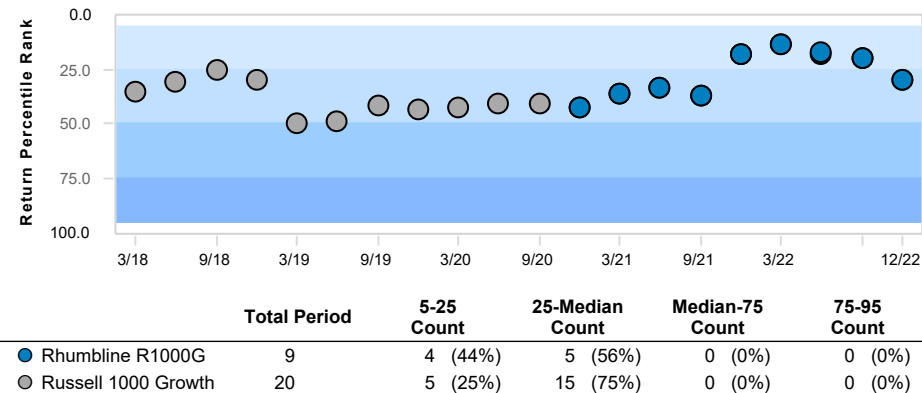
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Rhumbline R1000G	-3.60 (38)	-20.90 (56)	-9.03 (36)	11.65 (23)	1.15 (38)	11.92 (33)
Russell 1000 Growth Index	-3.60 (38)	-20.92 (56)	-9.04 (36)	11.64 (23)	1.16 (38)	11.93 (33)
IM U.S. Large Cap Growth Equity (SA+CF) Median	-4.12	-20.30	-10.23	9.29	0.73	11.21



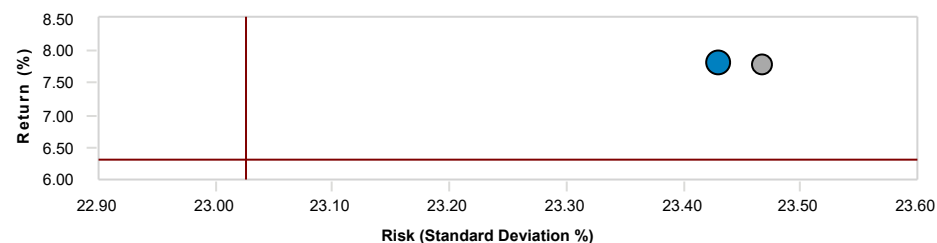
3 Yr Rolling Under/Over Performance - 5 Years



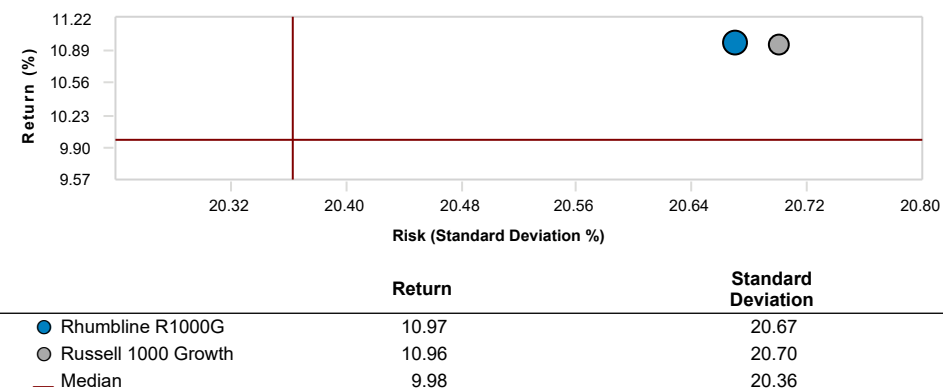
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

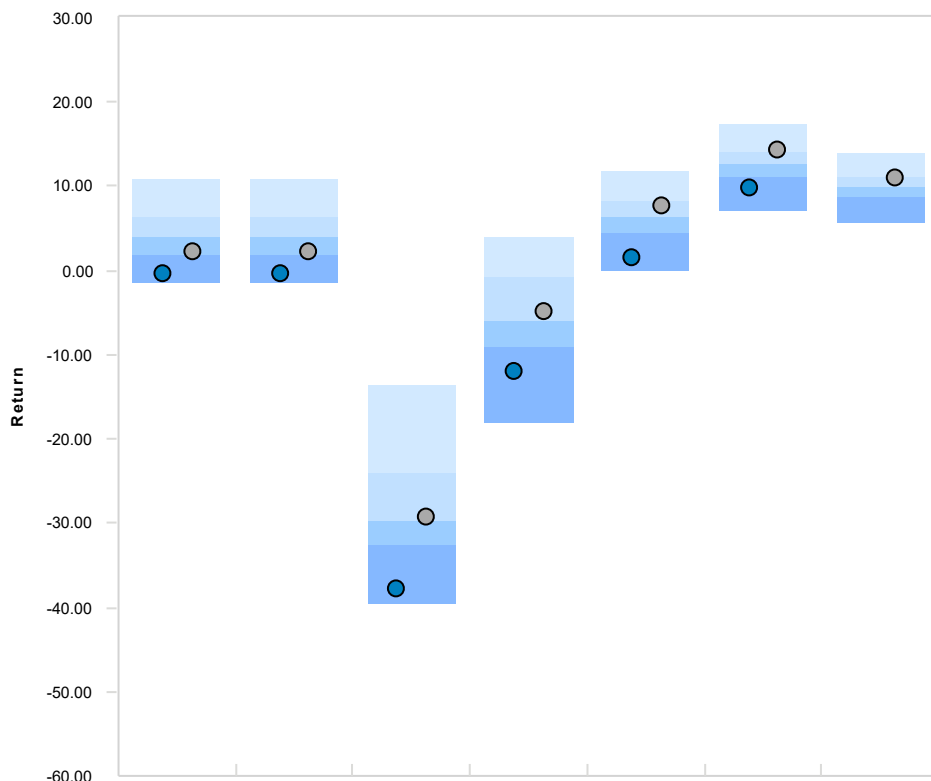
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Rhumblin R1000G	0.05	99.91	99.81	0.04	0.50	0.41	1.00	15.15
Russell 1000 Growth	0.00	100.00	100.00	0.00	N/A	0.40	1.00	15.18

Historical Statistics - 5 Years

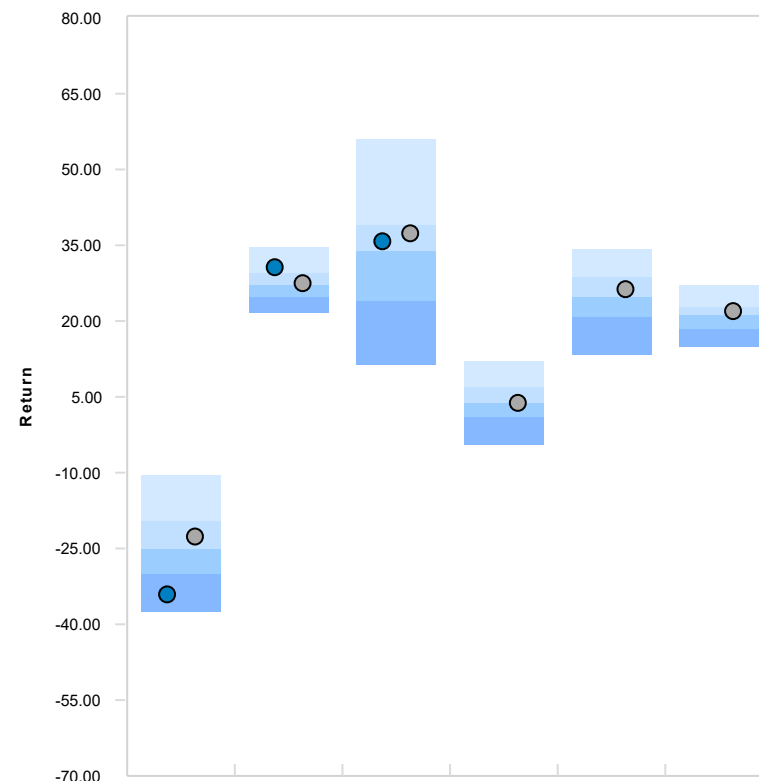
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Rhumblin R1000G	0.04	99.90	99.83	0.02	0.14	0.55	1.00	13.39
Russell 1000 Growth	0.00	100.00	100.00	0.00	N/A	0.55	1.00	13.42



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Polen Capital LCG	-0.20 (90)	-0.20 (90)	-37.65 (91)	-11.84 (86)	1.56 (93)	9.91 (86)	N/A
● Russell 1000 Gwth	2.20 (73)	2.20 (73)	-29.14 (49)	-4.91 (42)	7.79 (30)	14.32 (25)	10.96 (30)
Median	3.91	3.91	-29.57	-5.98	6.30	12.69	9.98



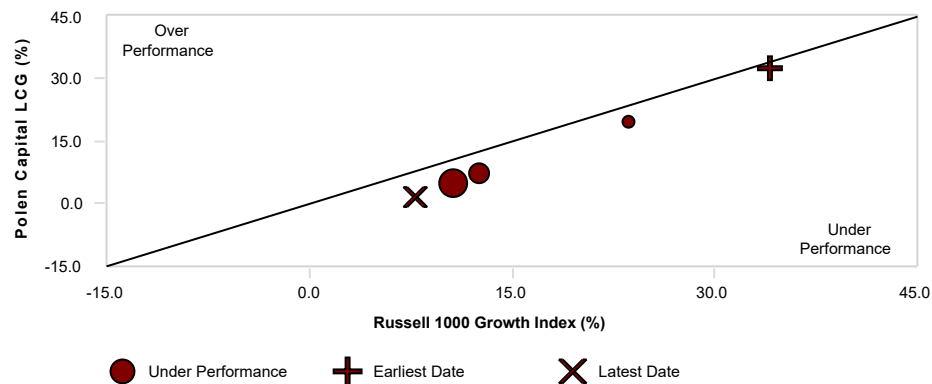
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Polen Capital LCG	-34.26 (91)	30.52 (20)	35.64 (39)	N/A	N/A	N/A
● Russell 1000 Gwth	22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)
Median	-25.12	27.23	33.78	3.81	24.81	21.10

Comparative Performance

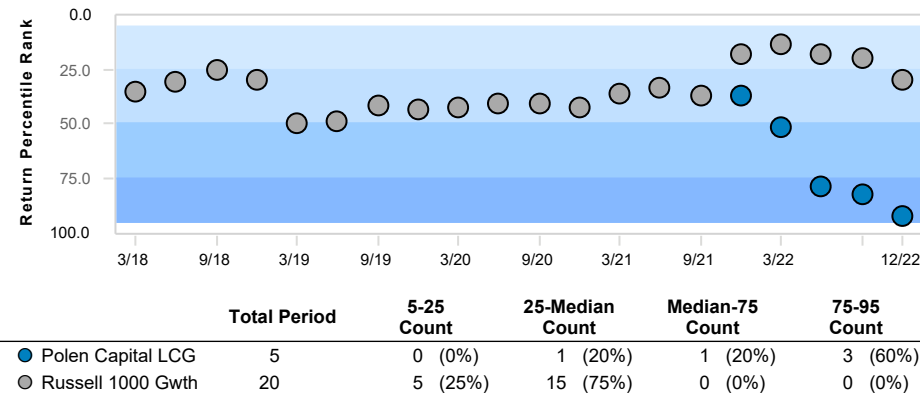
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Polen Capital LCG	-5.30 (79)	-23.76 (83)	-13.47 (87)	5.22 (83)	2.78 (10)	13.28 (13)
Russell 1000 Growth Index	-3.60 (38)	-20.92 (56)	-9.04 (36)	11.64 (23)	1.16 (38)	11.93 (33)
IM U.S. Large Cap Growth Equity (SA+CF) Median	-4.12	-20.30	-10.23	9.29	0.73	11.21



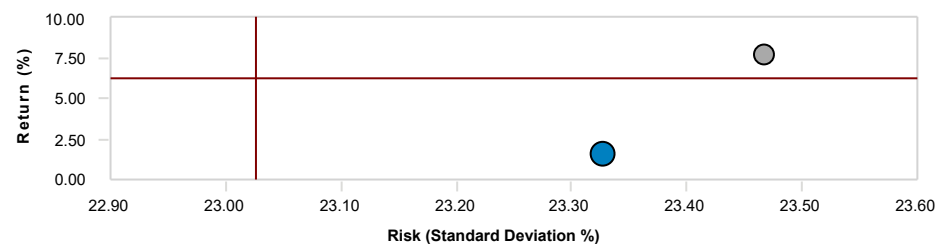
3 Yr Rolling Under/Over Performance - 5 Years



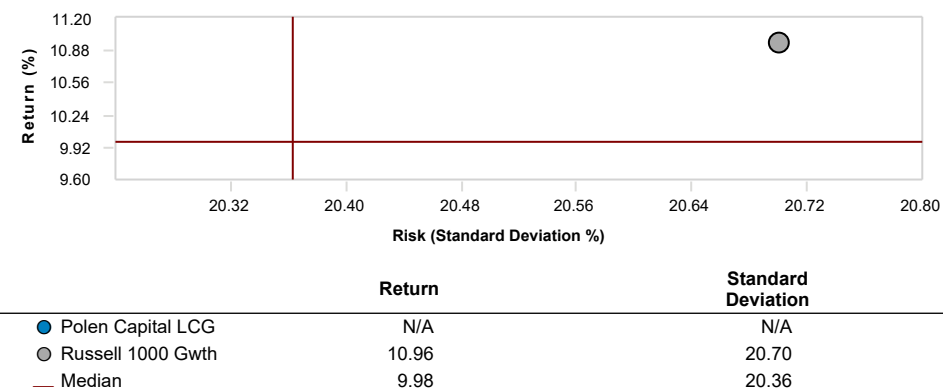
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

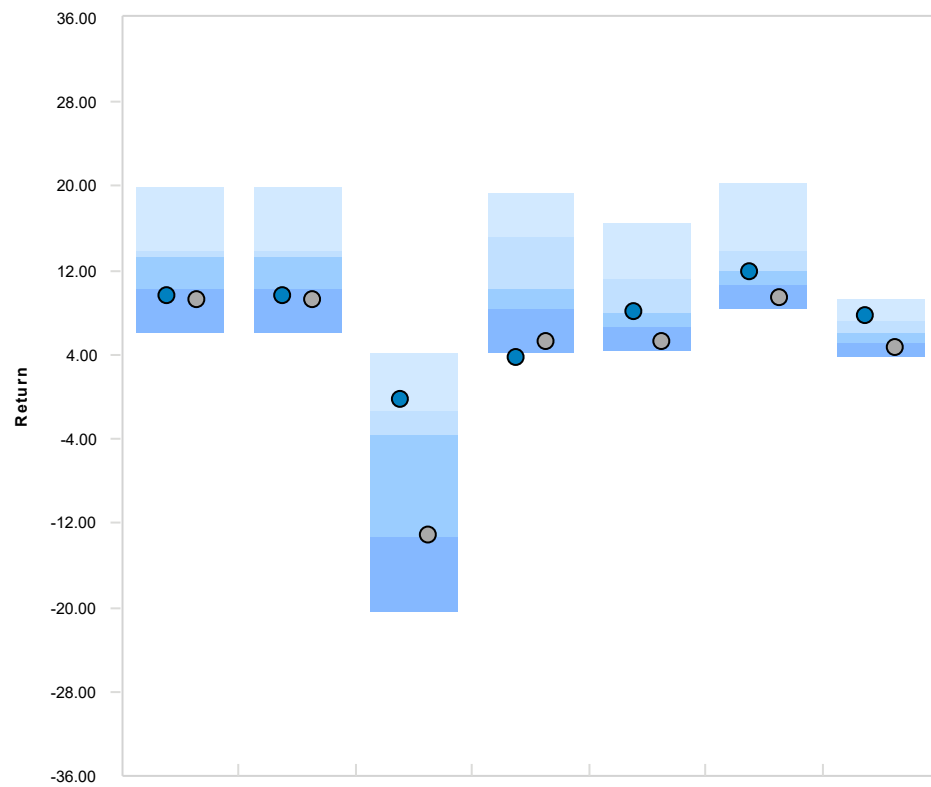
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Polen Capital LCG	4.96	86.50	101.90	-5.55	-1.21	0.15	0.97	16.22
Russell 1000 Gwth	0.00	100.00	100.00	0.00	N/A	0.40	1.00	15.18

Historical Statistics - 5 Years

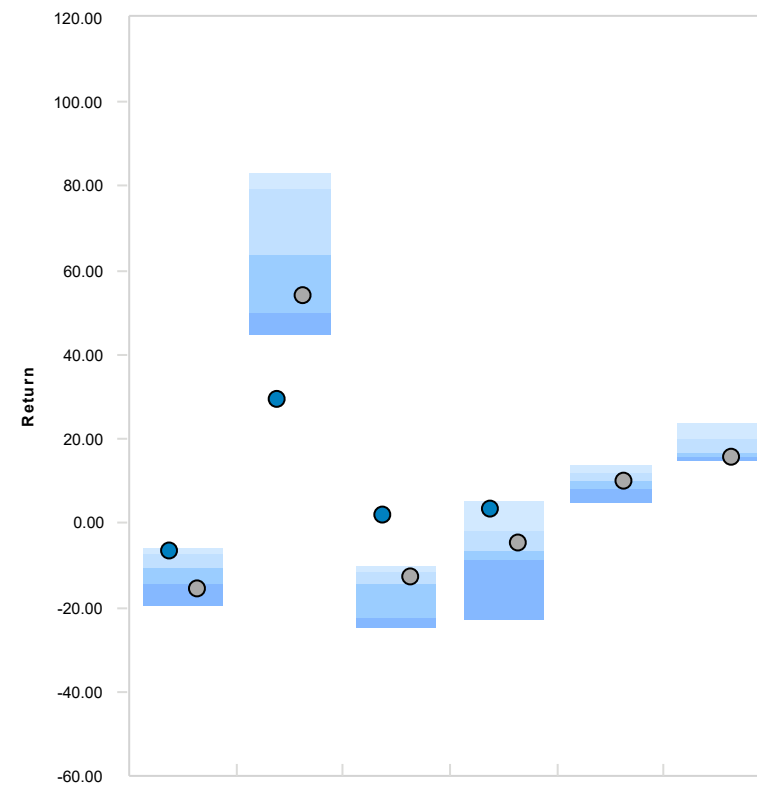
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Polen Capital LCG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Gwth	0.00	100.00	100.00	0.00	N/A	0.55	1.00	13.42



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Clarkston (CISMX)	9.58 (79)	9.58 (79)	-0.12 (19)	3.84 (97)	8.18 (48)	11.92 (50)	7.82 (13)
○ Russell 2500 Value	9.21 (79)	9.21 (79)	-13.08 (74)	5.39 (88)	5.22 (95)	9.53 (94)	4.75 (88)
Median	13.21	13.21	-3.64	10.31	7.89	11.86	6.15



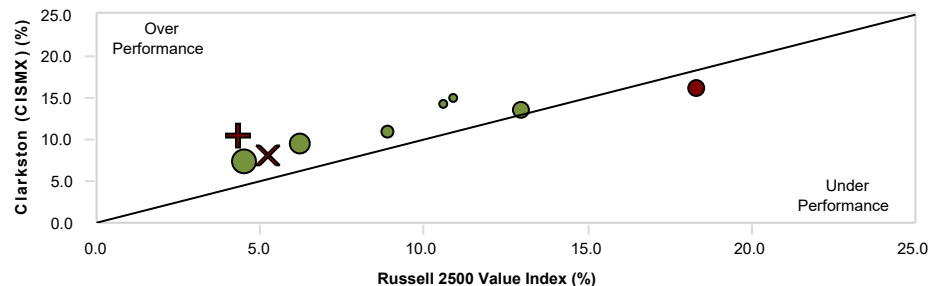
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Clarkston (CISMX)	-6.39 (7)	29.33 (100)	2.07 (1)	3.45 (6)	N/A	N/A
○ Russell 2500 Value	-15.35 (84)	54.38 (63)	-12.62 (34)	-4.35 (36)	10.24 (58)	15.75 (76)
Median	-10.96	63.40	-14.54	-6.44	10.32	16.71

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Clarkston (CISMX)	-4.66 (44)	-7.36 (1)	3.20 (37)	2.70 (99)	-7.67 (99)	0.53 (100)
Russell 2500 Value Index	-4.50 (42)	-15.39 (73)	-1.50 (69)	6.36 (57)	-2.07 (54)	5.00 (29)
IM U.S. SMID Cap Value Equity (MF) Median	-5.11	-12.54	1.50	6.96	-2.02	4.15

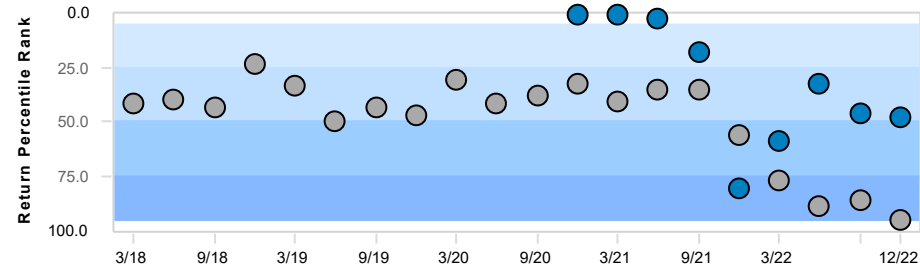


3 Yr Rolling Under/Over Performance - 5 Years



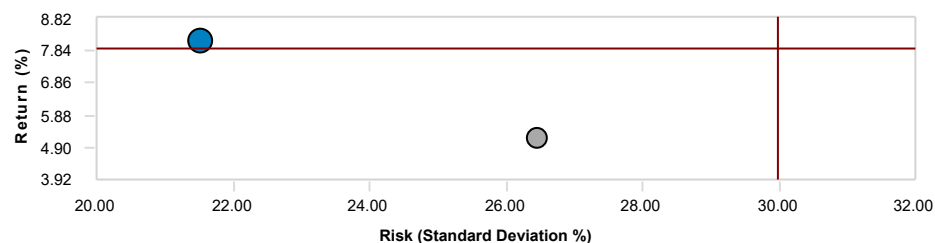
- Over Performance
- Under Performance
- + Earliest Date
- + Latest Date

3 Yr Rolling Percentile Ranking - 5 Years



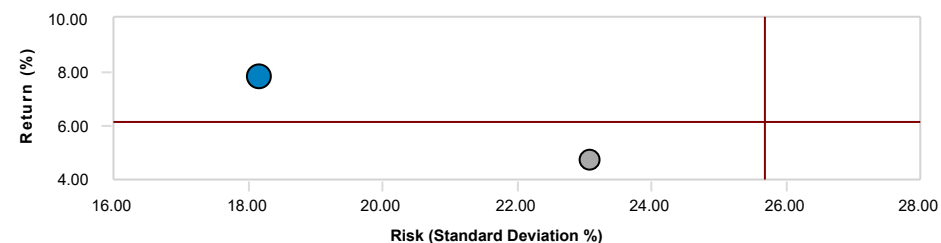
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
● Clarkston (CISMx)	9	4 (44%)	3 (33%)	1 (11%)	1 (11%)
● Russell 2500 Value	20	1 (5%)	14 (70%)	1 (5%)	4 (20%)

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
● Clarkston (CISMx)	8.18	21.50
● Russell 2500 Value	5.22	26.46
— Median	7.89	30.00

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
● Clarkston (CISMx)	7.82	18.16
● Russell 2500 Value	4.75	23.07
— Median	6.15	25.70

Historical Statistics - 3 Years

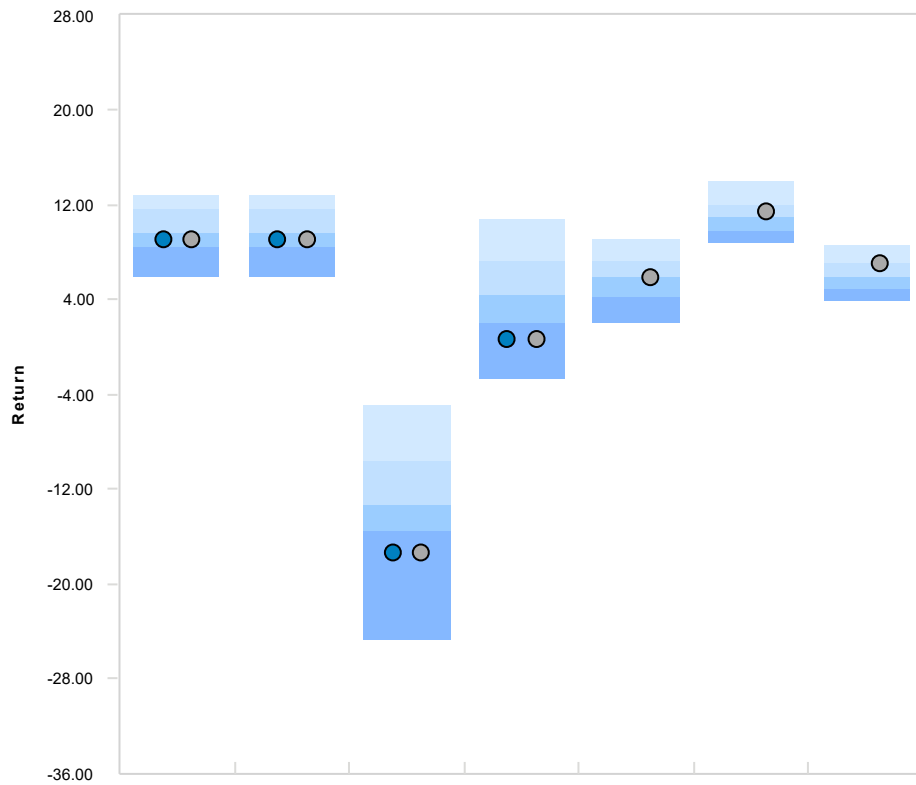
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Clarkston (CISMx)	9.22	88.16	80.16	3.52	0.16	0.44	0.77	13.83
Russell 2500 Value	0.00	100.00	100.00	0.00	N/A	0.30	1.00	19.19

Historical Statistics - 5 Years

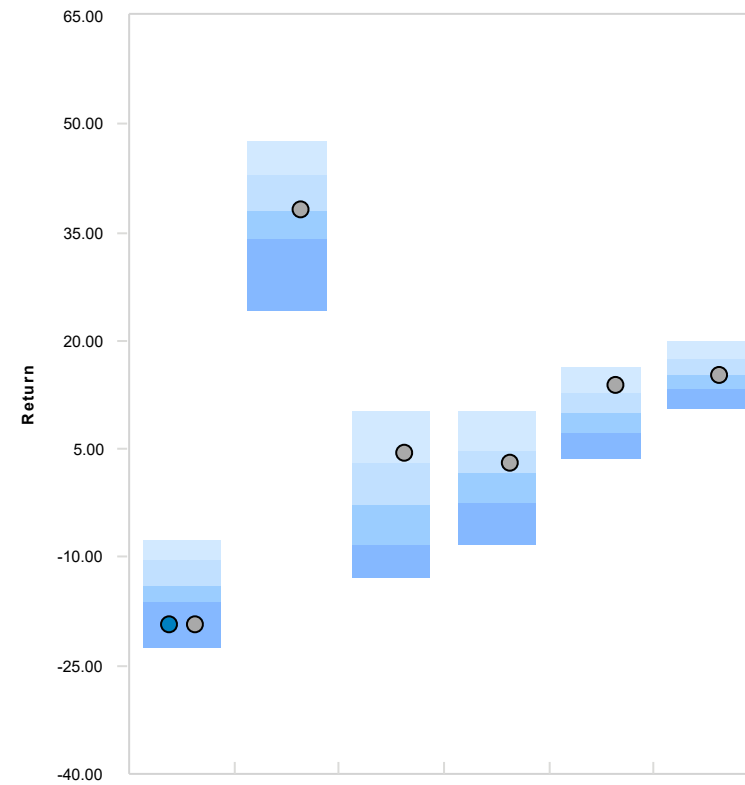
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Clarkston (CISMx)	8.30	84.21	73.10	3.73	0.21	0.44	0.74	11.82
Russell 2500 Value	0.00	100.00	100.00	0.00	N/A	0.27	1.00	16.79



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Fidelity MC Index	9.21 (58)	9.21 (58)	-17.28 (87)	0.69 (83)	N/A	N/A	N/A
● Russell Midcap Index	9.18 (60)	9.18 (60)	-17.32 (88)	0.68 (83)	5.88 (51)	11.57 (38)	7.10 (28)
Median	9.63	9.63	-13.21	4.34	5.90	11.01	5.94



	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	Oct-2016 To Sep-2017
● Fidelity MC Index	19.38 (90)	N/A	N/A	N/A	N/A	N/A
● Russell Midcap Index	19.39 (90)	38.11 (47)	4.55 (17)	3.19 (37)	13.98 (19)	15.32 (46)
Median	14.07	37.86	-2.64	1.86	9.96	15.17

Comparative Performance

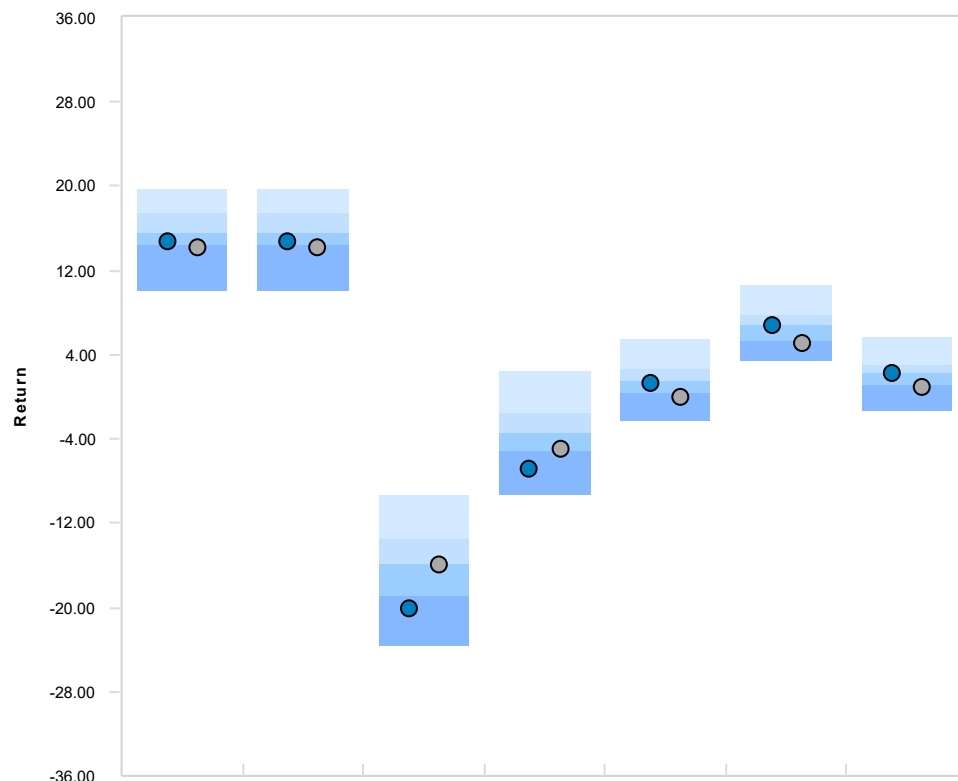
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Fidelity MC Index	-3.42 (31)	-16.85 (91)	-5.69 (78)	6.44 (80)	-0.93 (52)	7.47 (4)
Russell Midcap Index	-3.44 (32)	-16.85 (91)	-5.68 (77)	6.44 (80)	-0.93 (52)	7.50 (3)
IM U.S. Mid Cap Core Equity (MF) Median	-4.32	-13.63	-4.08	8.20	-0.87	5.14



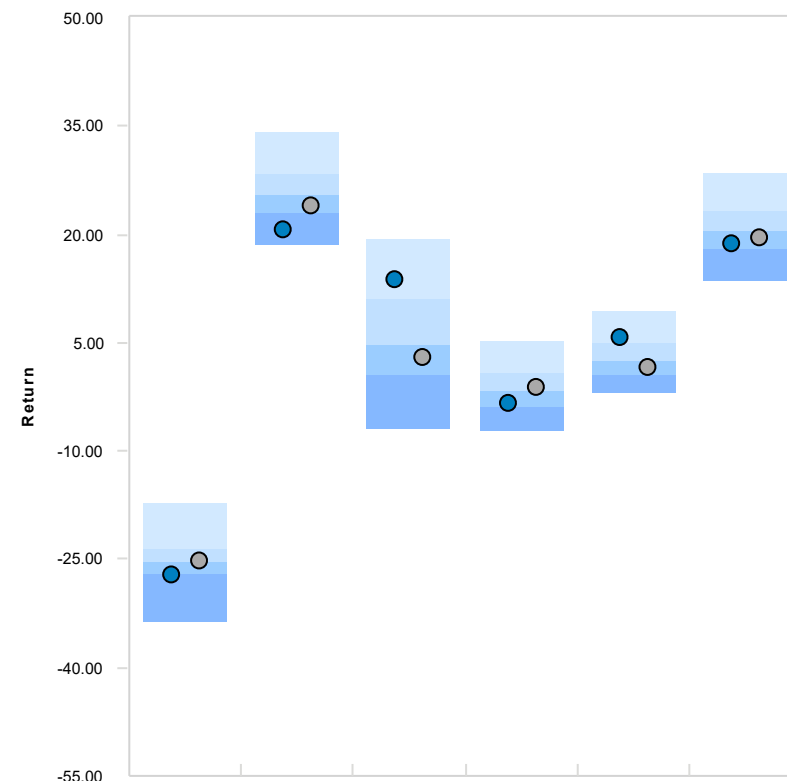
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Peer Group Analysis - IM International Large Cap Core Equity (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Int'l Equity	14.77 (66)	14.77 (66)	-20.16 (85)	-6.87 (87)	1.37 (54)	6.90 (47)	2.36 (44)
○ Total Int'l Policy	14.28 (76)	14.28 (76)	-16.00 (51)	-4.83 (72)	0.07 (79)	5.05 (80)	0.88 (80)
Median	15.58	15.58	-15.89	-3.33	1.51	6.81	2.18



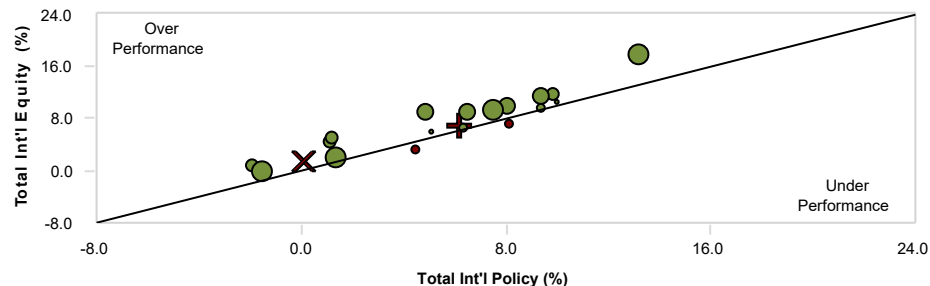
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Total Int'l Equity	-27.22 (76)	20.58 (88)	13.93 (14)	-3.33 (73)	5.86 (16)	18.68 (72)
○ Total Int'l Policy	-25.17 (49)	23.92 (68)	3.00 (59)	-1.23 (47)	1.76 (62)	19.61 (60)
Median	-25.45	25.45	4.80	-1.65	2.57	20.54

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Total Int'l Equity	-8.29 (23)	-14.80 (56)	-10.98 (90)	4.63 (17)	-2.35 (78)	5.41 (61)
Total Int'l Policy	-9.91 (72)	-13.73 (37)	-5.44 (34)	1.82 (74)	-2.99 (84)	5.48 (59)
IM International Large Cap Core Equity (SA+CF) Median	-9.26	-14.44	-6.29	3.00	-1.04	5.78

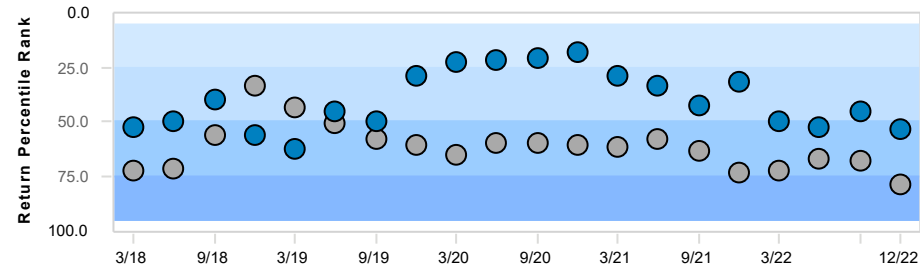


3 Yr Rolling Under/Over Performance - 5 Years



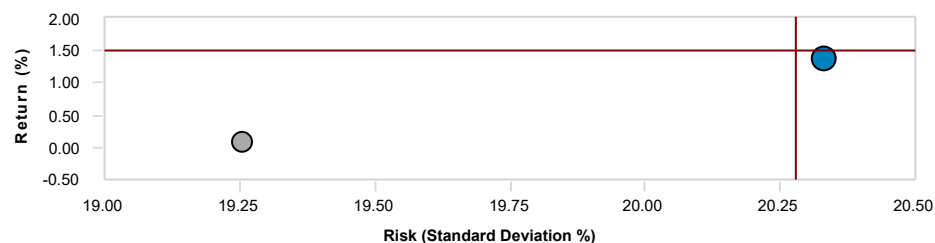
- Over Performance
- Under Performance
- + Earliest Date
- + Latest Date

3 Yr Rolling Percentile Ranking - 5 Years



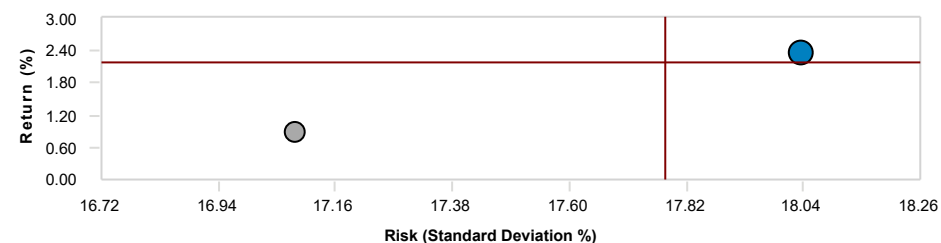
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
● Total Int'l Equity	20	4 (20%)	11 (55%)	5 (25%)	0 (0%)
● Total Int'l Policy	20	0 (0%)	2 (10%)	17 (85%)	1 (5%)

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
● Total Int'l Equity	1.37	20.33
● Total Int'l Policy	0.07	19.26
— Median	1.51	20.28

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
● Total Int'l Equity	2.36	18.04
● Total Int'l Policy	0.88	17.08
— Median	2.18	17.78

Historical Statistics - 3 Years

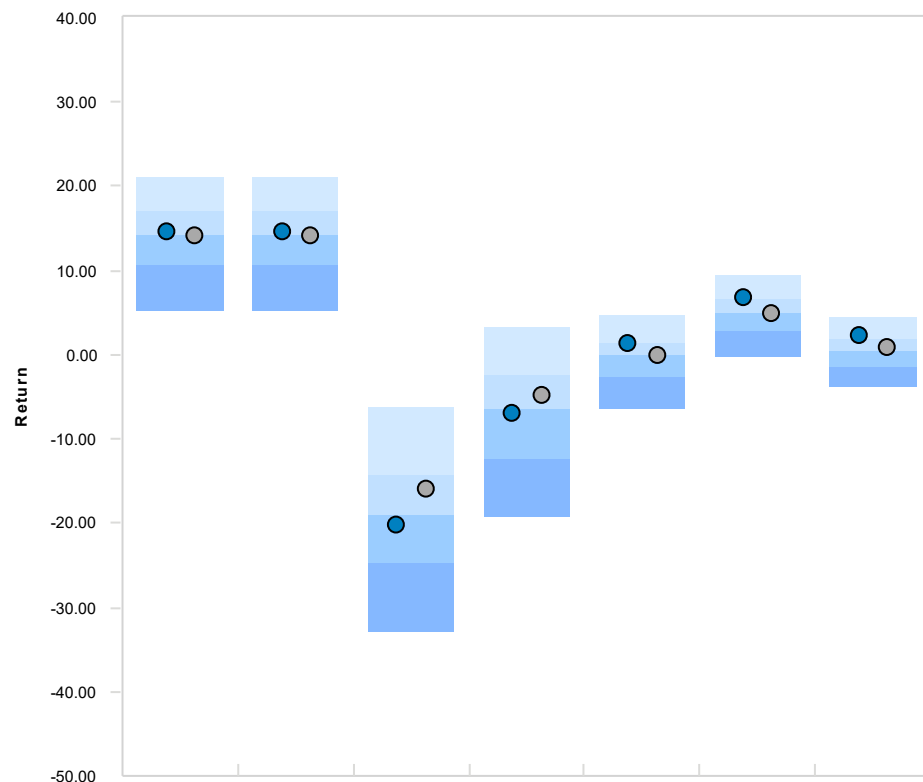
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity	6.39	107.62	102.30	1.47	0.23	0.13	1.00	13.36
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.06	1.00	13.73

Historical Statistics - 5 Years

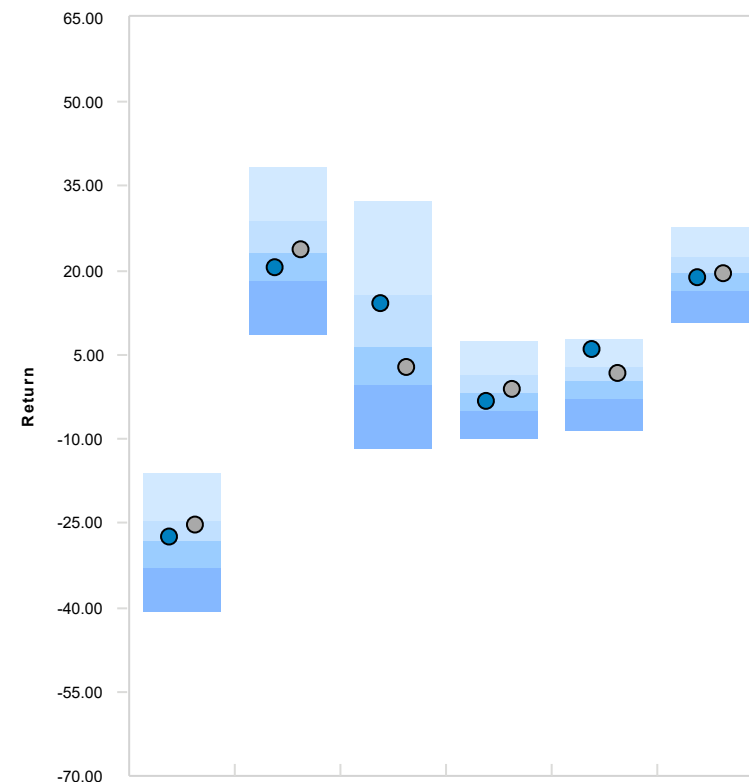
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity	5.33	106.11	99.44	1.59	0.30	0.15	1.01	12.06
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.06	1.00	12.09



Peer Group Analysis - IM International Equity (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Harding Loevner Intl	14.77 (46)	14.77 (46)	-20.16 (56)	-6.87 (53)	1.45 (25)	6.94 (21)	2.39 (16)
● MSCI ACW ex USA	14.28 (50)	14.28 (50)	-16.00 (36)	-4.83 (41)	0.07 (47)	5.05 (49)	0.88 (43)
Median	14.28	14.28	-18.96	-6.38	-0.14	4.98	0.43



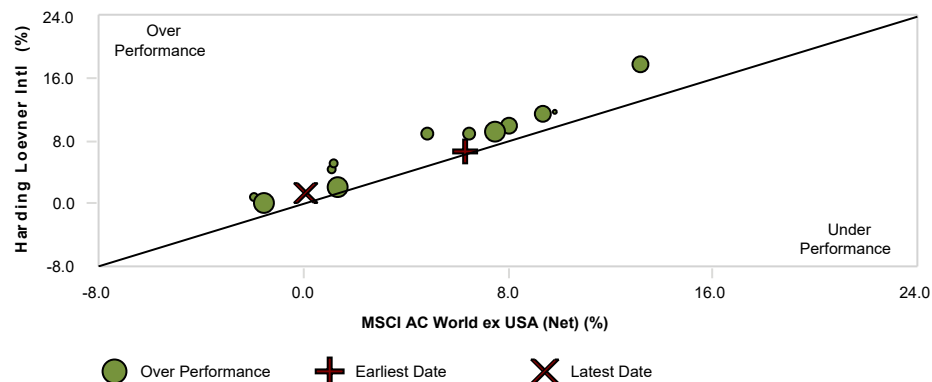
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Harding Loevner Intl	27.22 (44)	20.58 (64)	14.11 (29)	-3.34 (62)	5.85 (11)	18.65 (58)
● MSCI ACW ex USA	25.17 (29)	23.92 (47)	3.00 (63)	-1.23 (44)	1.76 (35)	19.61 (48)
Median	28.15	23.07	6.53	-1.89	0.18	19.37

Comparative Performance

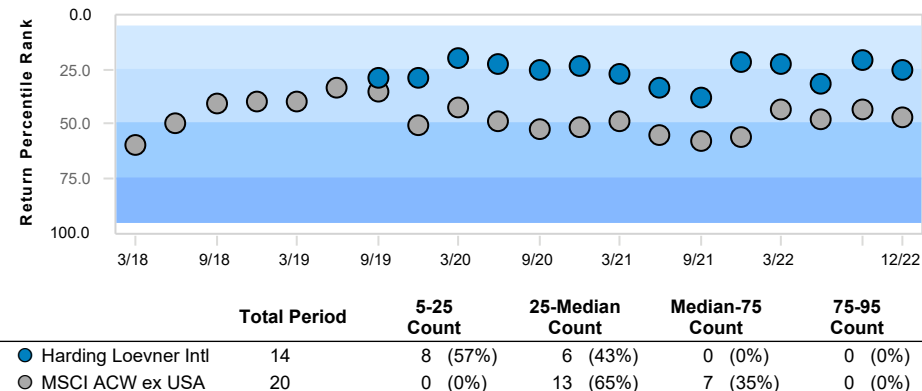
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Harding Loevner Intl	-8.29 (16)	-14.80 (71)	-10.98 (66)	4.63 (10)	-2.35 (48)	5.41 (47)
MSCI AC World ex USA (Net)	-9.91 (41)	-13.73 (59)	-5.44 (24)	1.82 (45)	-2.99 (57)	5.48 (46)
IM International Equity (MF) Median	-10.39	-13.08	-8.77	1.29	-2.46	5.30



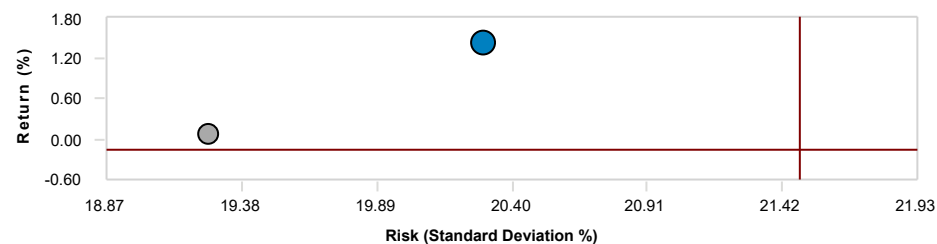
3 Yr Rolling Under/Over Performance - 5 Years



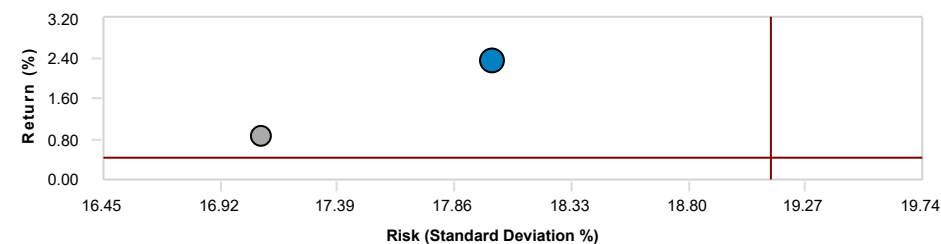
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

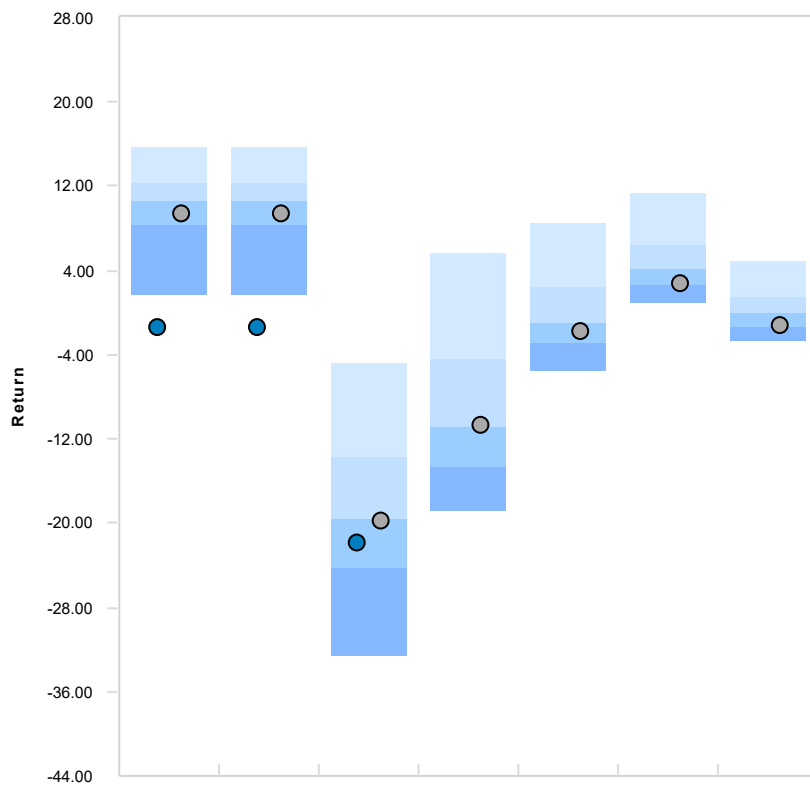
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Harding Loevner Intl	6.41	107.62	102.03	1.54	0.24	0.14	1.00	13.30
MSCI ACW ex USA	0.00	100.00	100.00	0.00	N/A	0.06	1.00	13.73

Historical Statistics - 5 Years

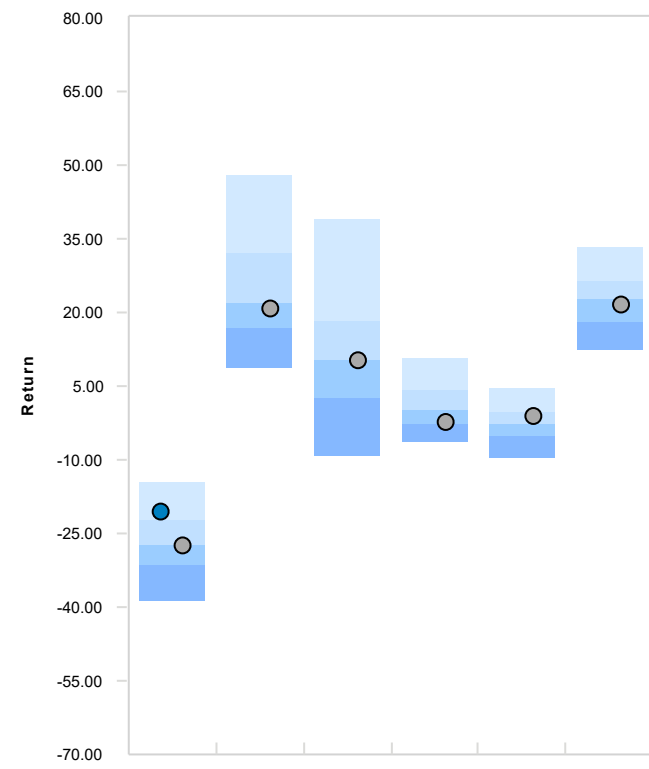
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Harding Loevner Intl	5.35	106.05	99.26	1.62	0.30	0.15	1.01	12.02
MSCI ACW ex USA	0.00	100.00	100.00	0.00	N/A	0.06	1.00	12.09



Peer Group Analysis - IM Emerging Markets Equity (SA+CF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Emerging Mkts (Composite)	-1.33 (99)	-1.33 (99)	21.91 (63)	N/A	N/A	N/A	N/A
○ MSCI Emerging Markets IMI (Net)	9.50 (65)	9.50 (65)	19.83 (53)	10.59 (50)	-1.82 (61)	2.73 (74)	-1.10 (67)
Median	10.59	10.59	19.57	10.81	-0.98	4.05	-0.12



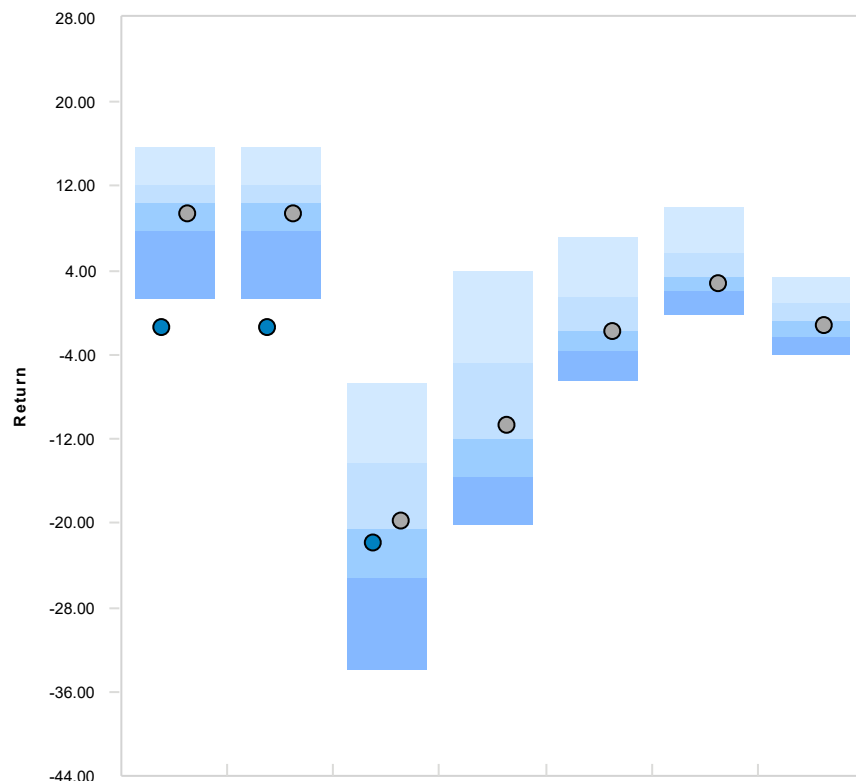
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Total Emerging Mkts (Composite)	0.74 (22)	N/A	N/A	N/A	N/A	N/A
○ MSCI Emerging Markets IMI (Net)	7.51 (51)	0.80 (56)	0.14 (51)	2.41 (74)	1.18 (33)	1.43 (60)
Median	7.48	2.15	0.35	0.21	2.53	2.66

Comparative Performance

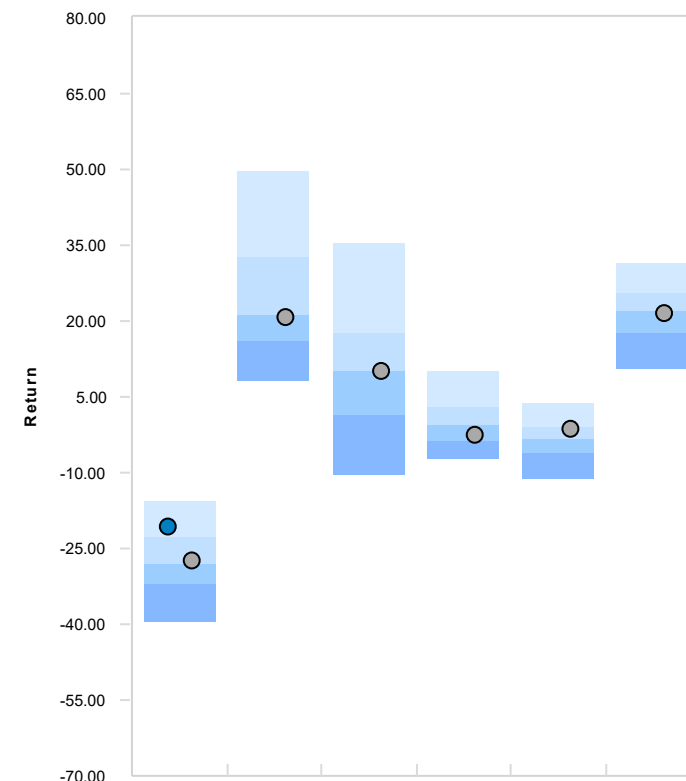
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Total Emerging Mkts (Composite)	-5.12 (15)	-6.62 (11)	-10.68 (66)	0.14 (35)	-4.83 (36)	N/A
MSCI Emerging Markets IMI (Net)	-10.79 (59)	-12.10 (54)	-6.65 (42)	-0.98 (56)	-7.39 (59)	5.73 (49)
IM Emerging Markets Equity (SA+CF) Median	-10.21	-11.76	-7.90	-0.68	-6.59	5.63



Peer Group Analysis - IM Emerging Markets Equity (SA+CF)



	QTR		FYTD		1 YR		2 YR		3 YR		4 YR		5 YR	
● ABS Emerging Markets, L.P.	-1.33	(99)	-1.33	(99)	21.91	(56)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
○ MSCI EM IMI (Net)	9.50	(63)	9.50	(63)	19.83	(48)	10.59	(45)	-1.82	(52)	2.73	(61)	-1.10	(55)
Median	10.43		10.43		20.54		11.94		-1.66		3.39		-0.74	



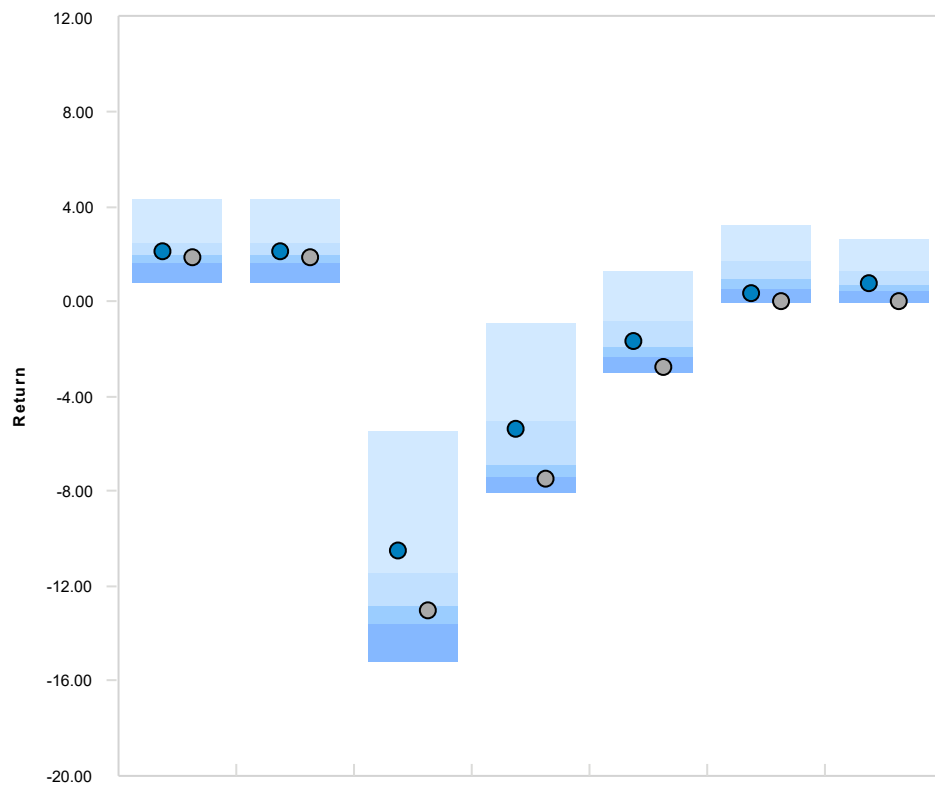
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● ABS Emerging Markets, L.P.	20.74 (20)	N/A	N/A	N/A	N/A	N/A
○ MSCI EM IMI (Net)	27.51 (45)	20.80 (52)	10.14 (50)	-2.41 (69)	-1.18 (26)	1.43 (57)
Median	28.23	21.04	9.98	-0.60	-3.48	22.02

Comparative Performance

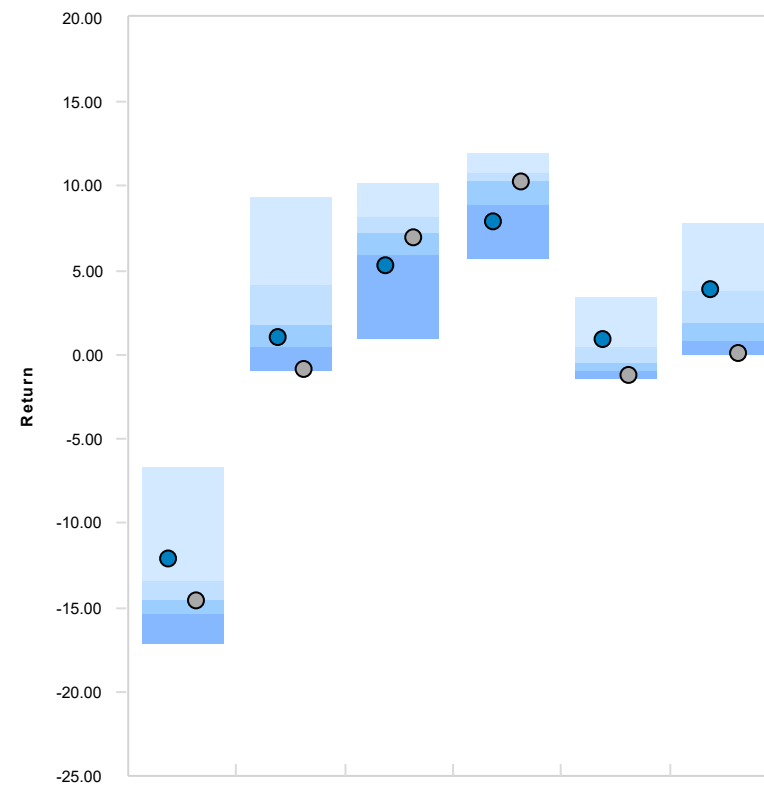
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
ABS Emerging Markets, L.P.	-5.12 (15)	-6.62 (11)	-10.68 (65)	0.14 (29)	-4.83 (35)	N/A
MSCI Emerging Markets IMI (Net)	-10.79 (56)	-12.10 (51)	-6.65 (40)	-0.98 (54)	-7.39 (60)	5.73 (46)
IM Emerging Markets Equity (SA+CF) Median	-10.35	-11.98	-8.78	-0.83	-6.41	5.39



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Total Fixed Income	2.15 (41)	2.15 (41)	-10.51 (19)	-5.35 (27)	-1.65 (43)	0.39 (84)	0.78 (49)
● Total Fixed Policy	1.87 (58)	1.87 (58)	-13.01 (55)	-7.45 (78)	-2.71 (90)	0.03 (93)	0.02 (93)
Median	2.00	2.00	-12.88	-6.85	-1.86	0.99	0.75



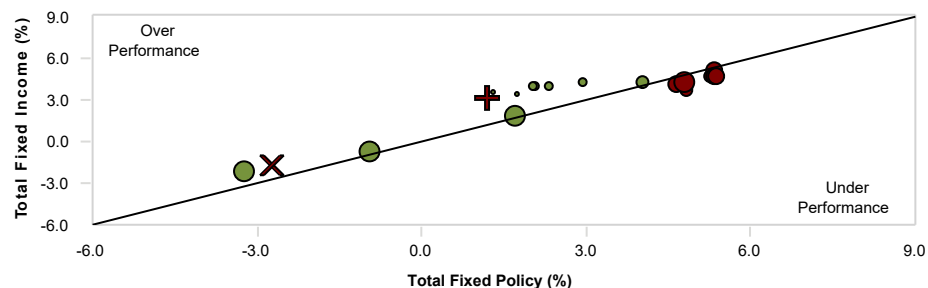
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Total Fixed Income	-12.06 (15)	1.06 (62)	5.26 (81)	7.95 (82)	0.97 (20)	3.91 (25)
● Total Fixed Policy	-14.60 (51)	-0.90 (95)	6.98 (57)	10.30 (51)	-1.22 (89)	0.07 (94)
Median	-14.59	1.71	7.20	10.30	-0.46	1.88

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Total Fixed Income	-2.67 (20)	-5.59 (56)	-4.66 (22)	0.38 (12)	0.28 (40)	1.78 (86)
Total Fixed Policy	-4.75 (83)	-4.69 (21)	-5.93 (67)	0.01 (53)	0.05 (82)	1.83 (82)
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	-4.28	-5.44	-5.68	0.03	0.22	2.20

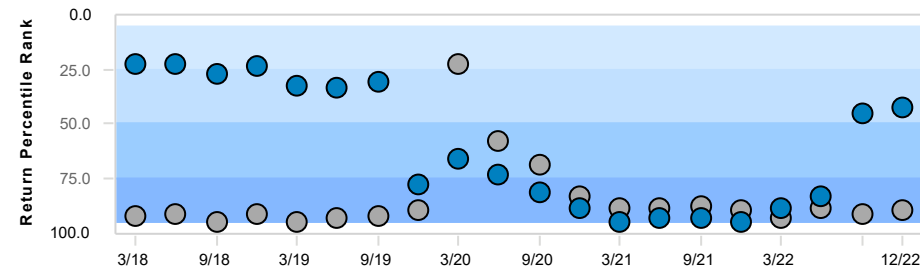


3 Yr Rolling Under/Over Performance - 5 Years



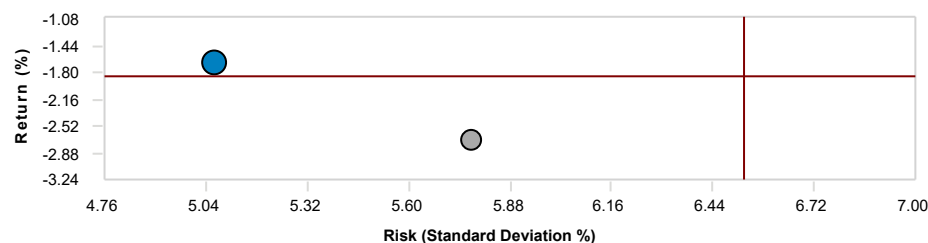
- Over Performance
- Under Performance
- + Earliest Date
- X Latest Date

3 Yr Rolling Percentile Ranking - 5 Years



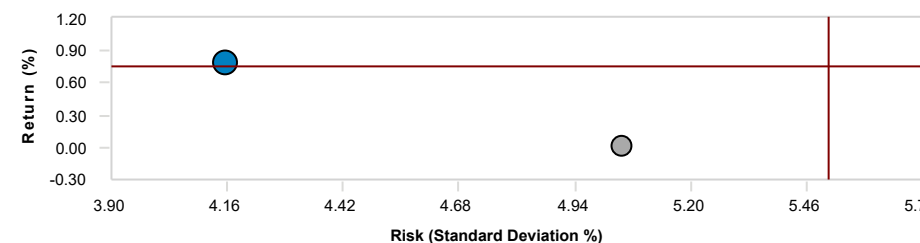
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
● Total Fixed Income	20	3 (15%)	6 (30%)	2 (10%)	9 (45%)
● Total Fixed Policy	20	1 (5%)	0 (0%)	2 (10%)	17 (85%)

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
● Total Fixed Income	-1.65	5.06
● Total Fixed Policy	-2.71	5.77
— Median	-1.86	6.53

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
● Total Fixed Income	0.78	4.16
● Total Fixed Policy	0.02	5.04
— Median	0.75	5.51

Historical Statistics - 3 Years

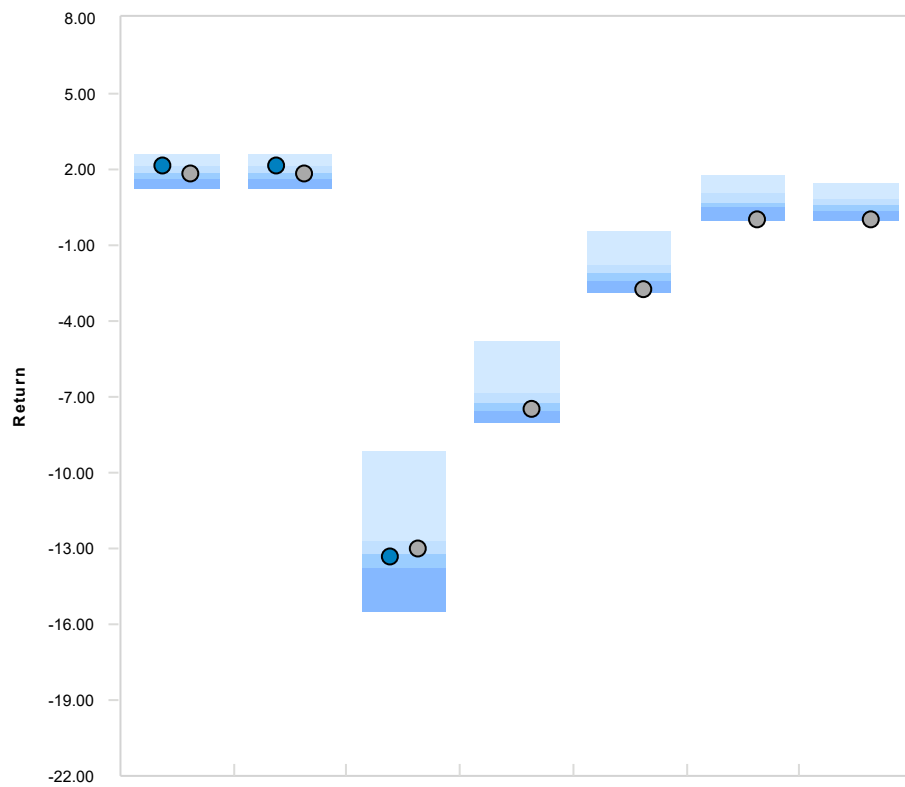
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income	2.29	87.29	79.32	0.54	0.46	-0.44	0.81	4.09
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	-0.57	1.00	4.66

Historical Statistics - 5 Years

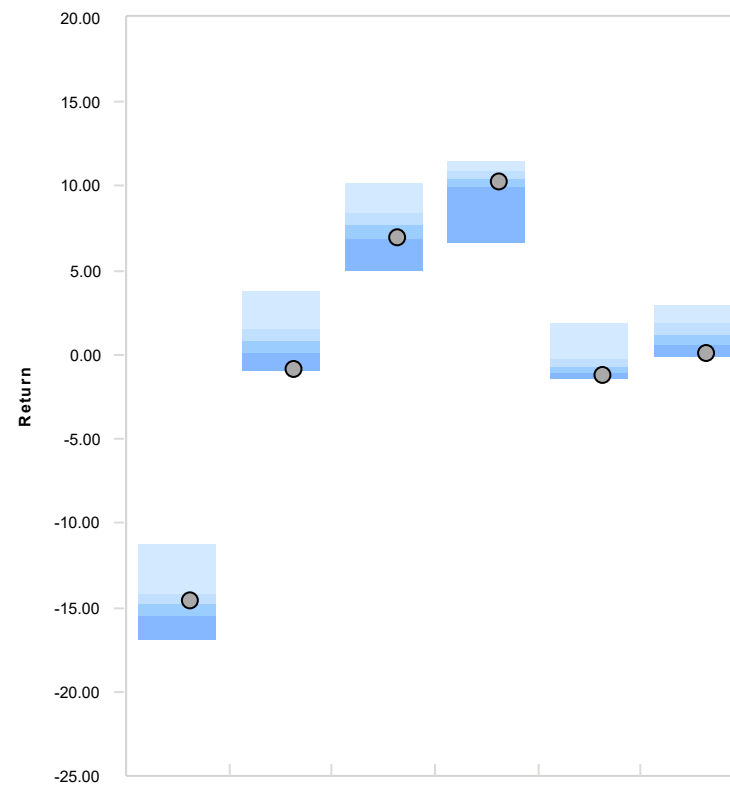
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income	2.18	78.76	67.06	0.76	0.33	-0.09	0.75	3.18
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	-0.22	1.00	3.72



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



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Baird Agg Bond Fund	2.15 (27)	2.15 (27)	-13.35 (57)	N/A	N/A	N/A	N/A
● Blmbg. U.S. Agg Index	1.87 (50)	1.87 (50)	-13.01 (37)	-7.45 (66)	-2.71 (88)	0.03 (91)	0.02 (90)
Median	1.85	1.85	-13.22	-7.25	-2.09	0.66	0.55



	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	Oct-2016 To Sep-2017
● Baird Agg Bond Fund	N/A	N/A	N/A	N/A	N/A	N/A
● Blmbg. U.S. Agg Index	14.60 (38)	-0.90 (93)	6.98 (70)	10.30 (63)	-1.22 (83)	0.07 (90)
Median	14.79	0.82	7.63	10.46	-0.70	1.17

Comparative Performance

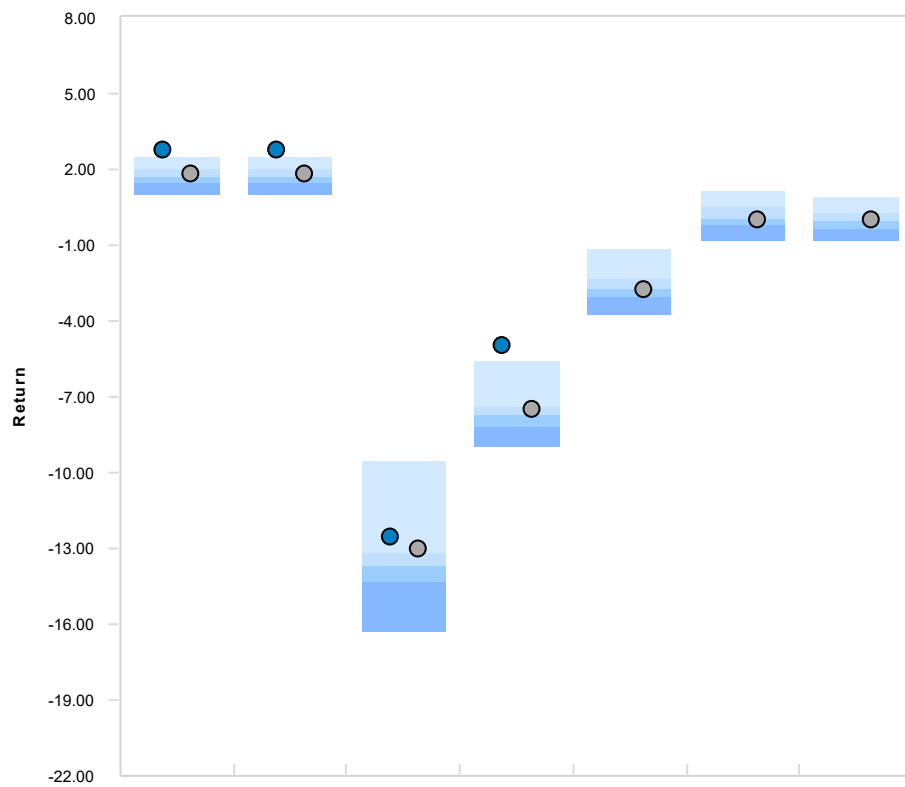
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Baird Agg Bond Fund	-4.66 (63)	-5.01 (41)	-6.33 (82)	N/A	N/A	N/A
Blmbg. U.S. Aggregate Index	-4.75 (75)	-4.69 (19)	-5.93 (55)	0.01 (49)	0.05 (78)	1.83 (81)
IM U.S. Broad Market Core Fixed Income (MF) Median	-4.53	-5.22	-5.87	-0.01	0.18	2.09



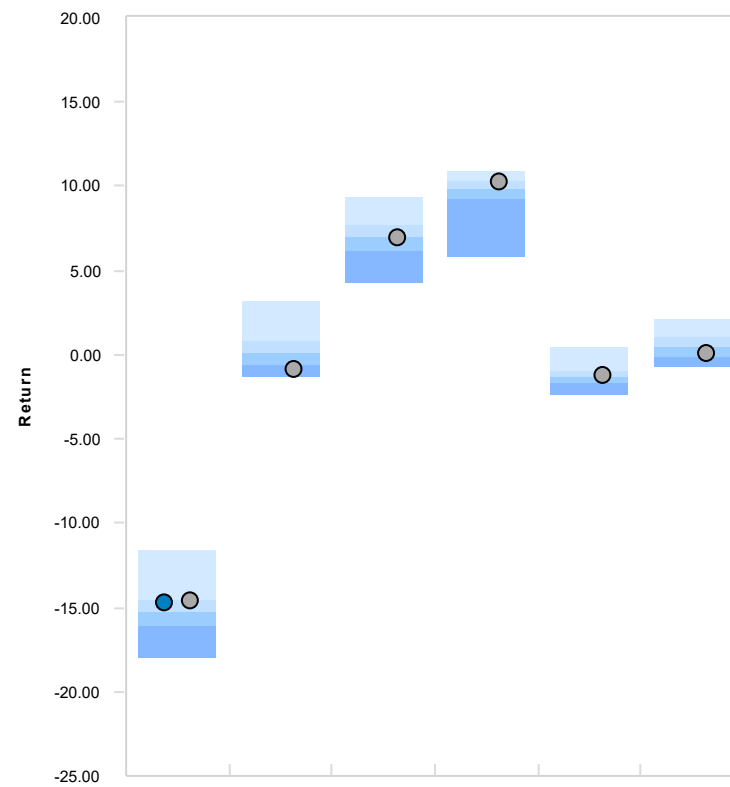
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Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Loomis Sayles BF	2.79 (2)	2.79 (2)	-12.49 (12)	-4.96 (4)	N/A	N/A	N/A
● Blmbg. U.S. Agg Index	1.87 (35)	1.87 (35)	-13.01 (21)	-7.45 (28)	-2.71 (50)	0.03 (54)	0.02 (42)
Median	1.71	1.71	-13.67	-7.75	-2.72	0.06	-0.07



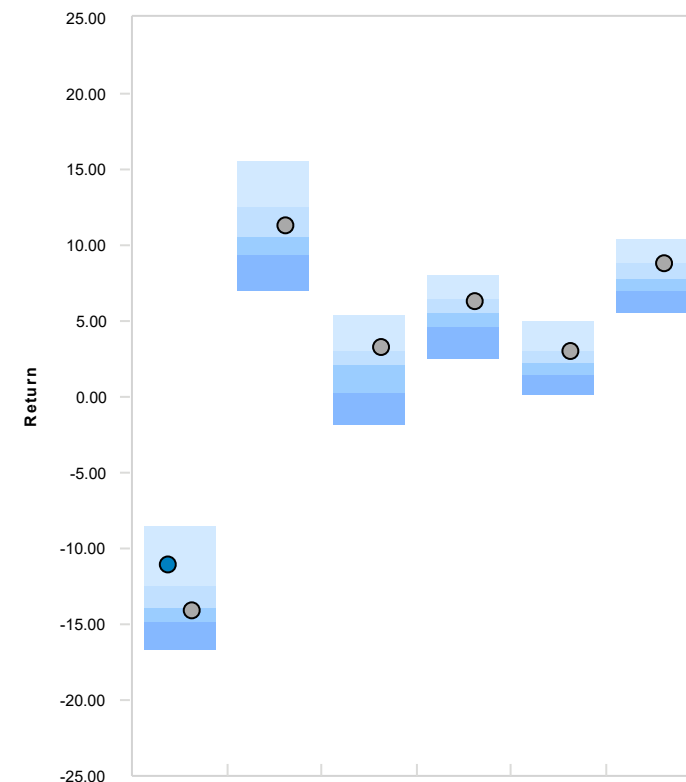
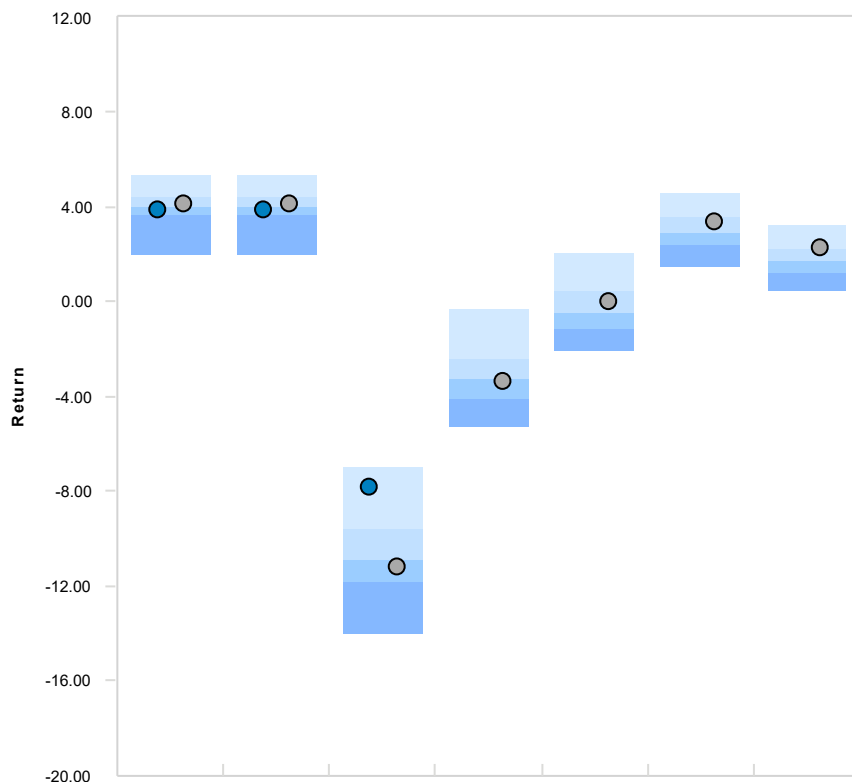
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Loomis Sayles BF	14.64 (26)	N/A	N/A	N/A	N/A	N/A
● Blmbg. U.S. Agg Index	14.60 (24)	-0.90 (83)	6.98 (49)	10.30 (24)	-1.22 (42)	0.07 (65)
Median	15.29	0.16	6.94	9.78	-1.32	0.49

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Loomis Sayles BF	-2.69 (4)	-7.79 (99)	-5.13 (10)	0.27 (4)	0.18 (16)	4.07 (1)
Blmbg. U.S. Aggregate Index	-4.75 (60)	-4.69 (15)	-5.93 (47)	0.01 (21)	0.05 (45)	1.83 (64)
IM U.S. Broad Market Core Fixed Income (MF) Median	-4.67	-5.35	-5.98	-0.14	0.03	1.94



Peer Group Analysis - IM U.S. High Yield Bonds (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● MainStay HY Corp (MHYSX)	3.95 (52)	3.95 (52)	-7.81 (8)	N/A	N/A	N/A	N/A
● Blmbg. U.S. Corp High Yield	4.17 (35)	4.17 (35)	11.19 (57)	-3.31 (52)	0.05 (34)	3.44 (30)	2.31 (22)
Median	3.96	3.96	10.94	-3.25	-0.49	2.89	1.70

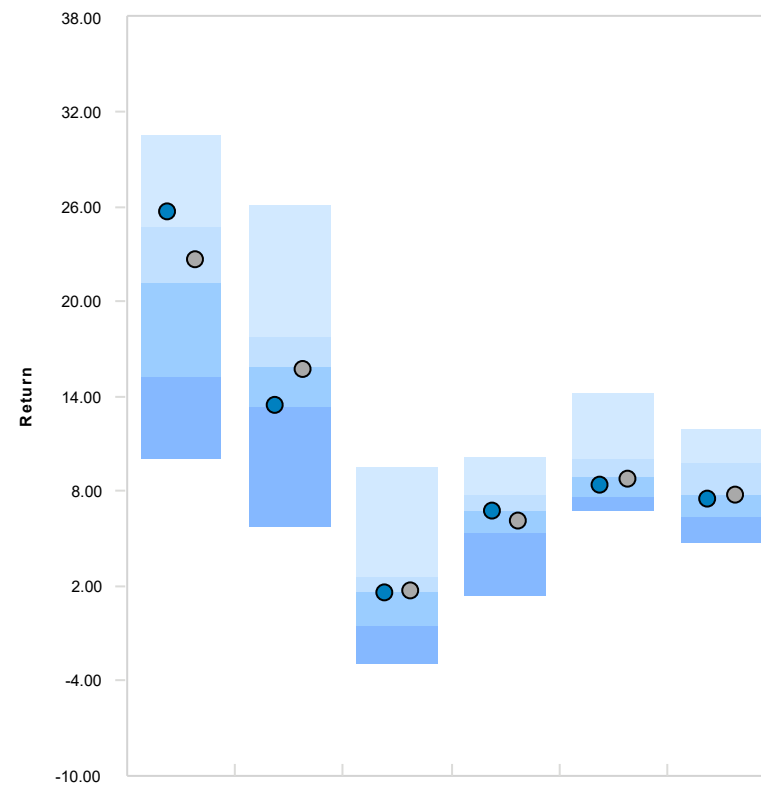
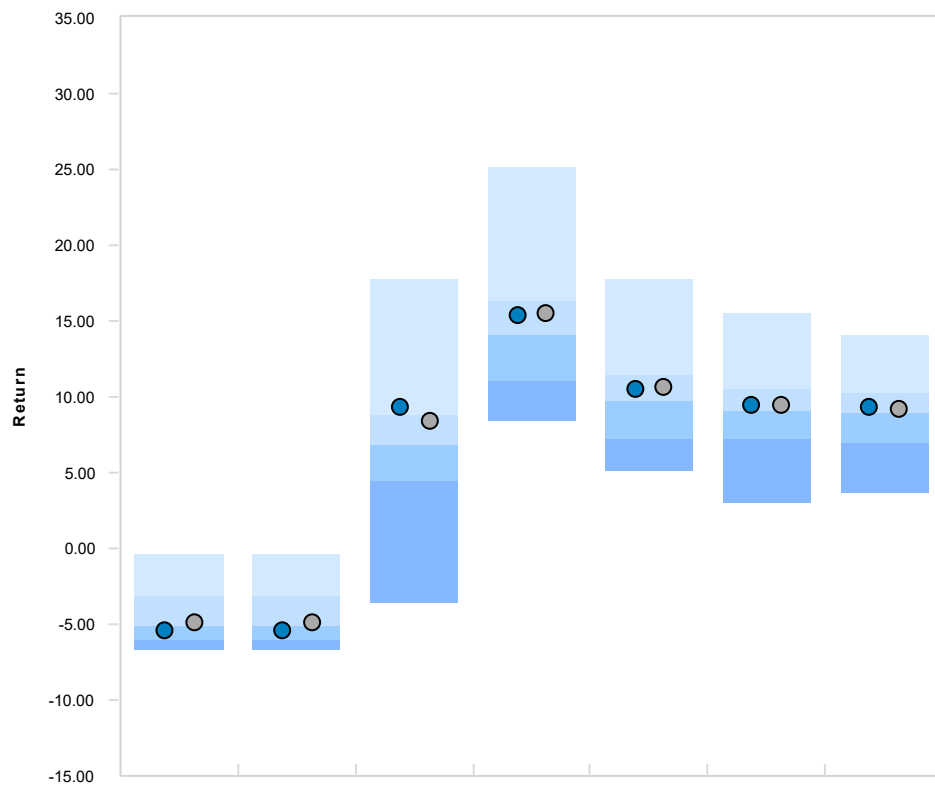
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● MainStay HY Corp (MHYSX)	11.05 (10)	N/A	N/A	N/A	N/A	N/A
● Blmbg. U.S. Corp High Yield	14.14 (56)	11.28 (39)	3.25 (21)	6.36 (29)	3.05 (25)	8.88 (25)
Median	13.92	10.57	2.06	5.50	2.29	7.77

Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
MainStay HY Corp (MHYSX)	-0.49 (29)	-7.93 (10)	-3.21 (13)	0.29 (84)	0.99 (15)	2.80 (36)
Blmbg. U.S. Corp High Yield	-0.65 (40)	-9.83 (50)	-4.84 (88)	0.71 (33)	0.89 (25)	2.74 (40)
IM U.S. High Yield Bonds (MF) Median	-0.78	-9.83	-4.20	0.59	0.71	2.65



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

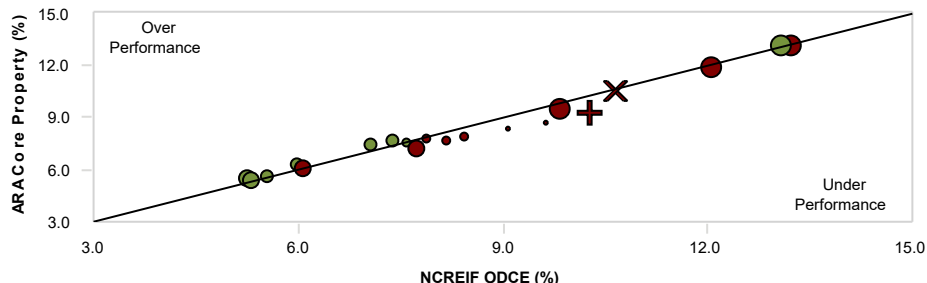


Comparative Performance

	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
ARA Core Property	1.66 (20)	4.84 (35)	8.46 (12)	8.81 (34)	5.62 (78)	4.03 (56)
NCREIF ODCE	0.96 (39)	4.55 (41)	7.99 (17)	7.70 (47)	6.96 (32)	4.39 (41)
IM U.S. Open End Private Real Estate (SA+CF) Median	0.60	4.39	6.86	7.58	6.33	4.17

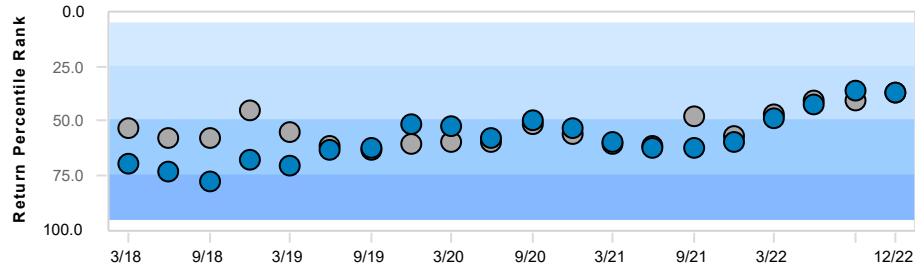


3 Yr Rolling Under/Over Performance - 5 Years



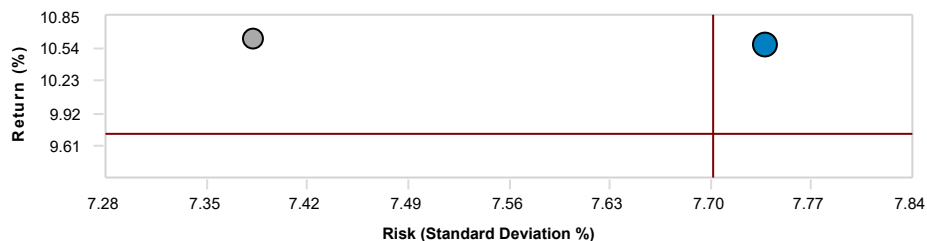
- Over Performance
- Under Performance
- + Earliest Date
- X Latest Date

3 Yr Rolling Percentile Ranking - 5 Years



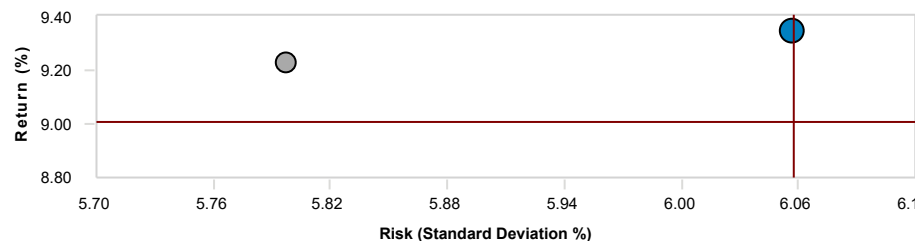
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
● ARA Core Property	20	0 (0%)	5 (25%)	14 (70%)	1 (5%)
● NCREIF ODCE	20	0 (0%)	6 (30%)	14 (70%)	0 (0%)

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
● ARA Core Property	10.59	7.74
● NCREIF ODCE	10.64	7.38
— Median	9.72	7.70

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
● ARA Core Property	9.35	6.06
● NCREIF ODCE	9.23	5.80
— Median	9.01	6.06

Historical Statistics - 3 Years

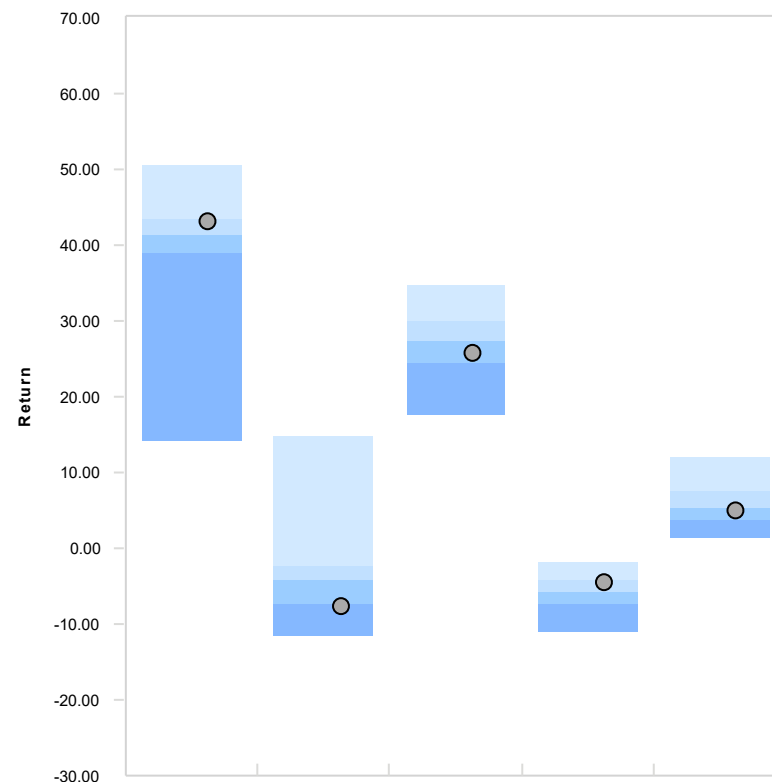
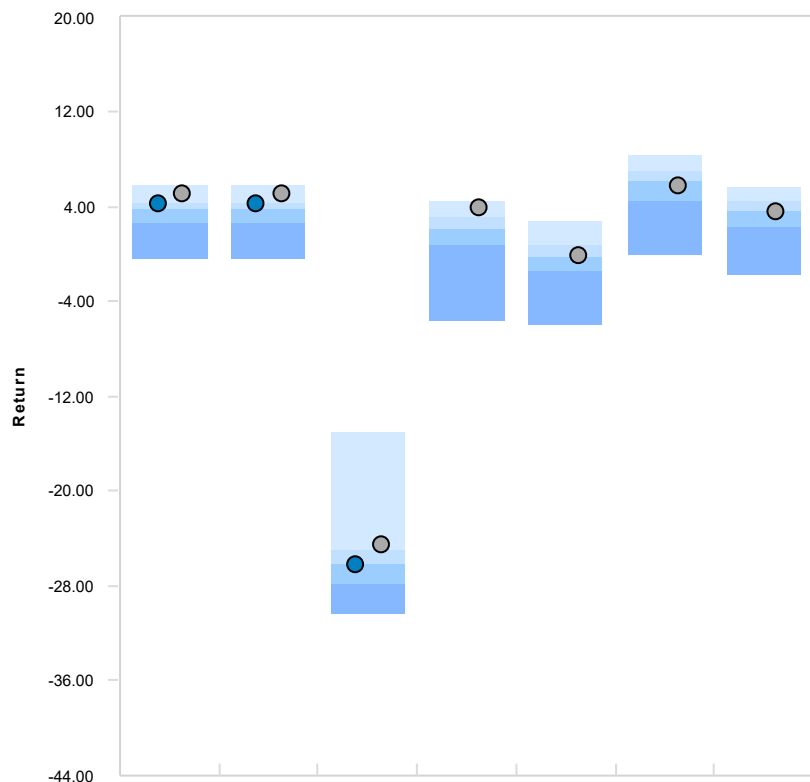
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
ARA Core Property	1.33	101.16	107.83	-0.27	-0.01	1.09	1.02	3.21
NCREIF ODCE	0.00	100.00	100.00	0.00	N/A	1.13	1.00	2.92

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
ARA Core Property	1.05	102.13	107.83	-0.10	0.12	1.10	1.02	2.49
NCREIF ODCE	0.00	100.00	100.00	0.00	N/A	1.12	1.00	2.26



Peer Group Analysis - IM Real Estate Sector (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Fidelity RE Index Fund	4.35 (27)	4.35 (27)	26.12 (47)	N/A	N/A	N/A	N/A
○ MSCI U.S. REIT Index	5.22 (8)	5.22 (8)	24.51 (15)	3.92 (10)	-0.06 (49)	5.87 (55)	3.69 (51)
Median	3.86	3.86	26.17	2.09	-0.13	6.11	3.70

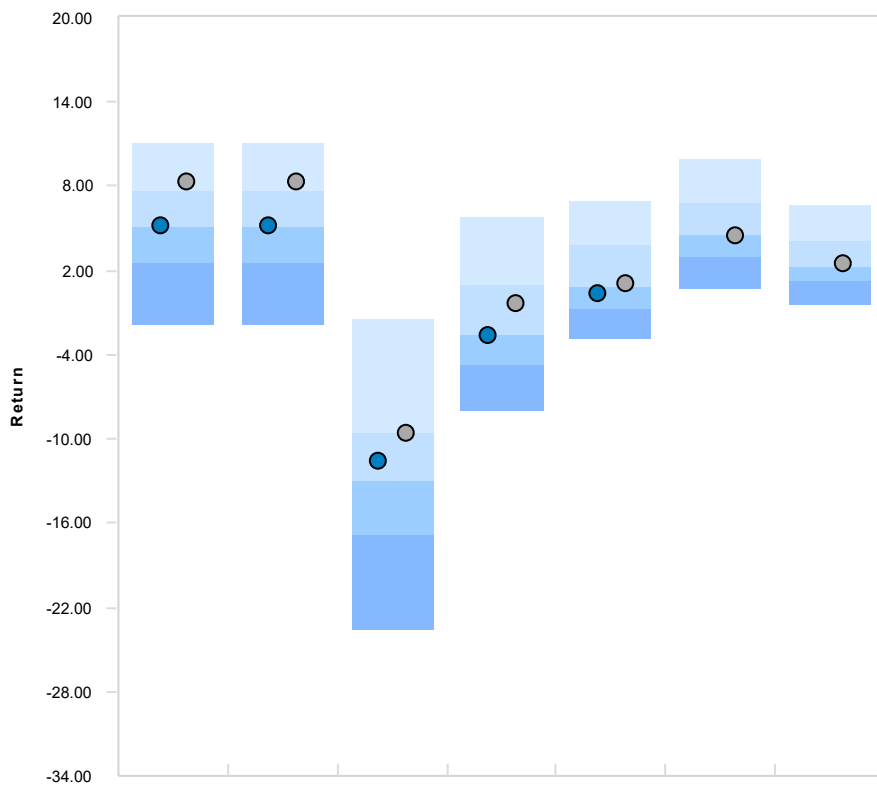
	2021	2020	2019	2018	2017
● Fidelity RE Index Fund	N/A	N/A	N/A	N/A	N/A
○ MSCI U.S. REIT Index	43.06 (29)	-7.57 (77)	25.84 (64)	-4.57 (30)	5.07 (54)
Median	41.32	-4.31	27.32	-5.71	5.32

Comparative Performance

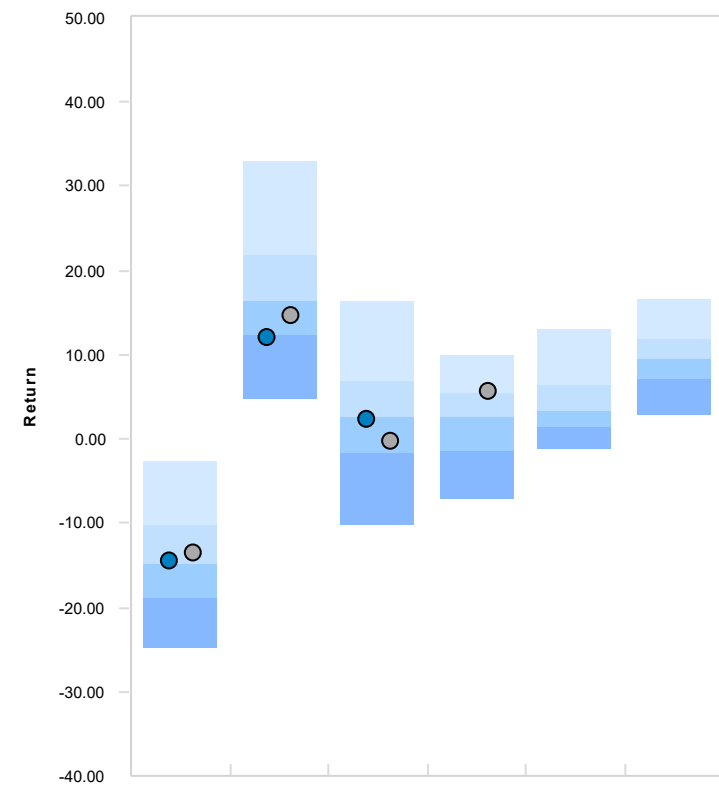
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Fidelity RE Index Fund	-11.00 (65)	-15.42 (37)	-5.95 (61)	14.87 (68)	0.66 (65)	N/A
MSCI U.S. REIT Index	-9.96 (31)	-16.95 (64)	-4.06 (29)	16.32 (34)	0.98 (54)	12.00 (57)
IM Real Estate Sector (MF) Median	-10.74	-15.81	-5.29	15.66	1.07	12.08



Peer Group Analysis - IM Flexible Portfolio (MF)



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Blackrock (BKMIX)	5.29 (49)	5.29 (49)	-11.54 (37)	-2.58 (50)	0.37 (58)	N/A	N/A
● 50% MSCI WV/ 50% BBA	8.29 (22)	8.29 (22)	-9.55 (25)	-0.33 (33)	1.11 (47)	4.50 (52)	2.46 (47)
Median	5.14	5.14	-12.97	-2.65	0.83	4.57	2.27



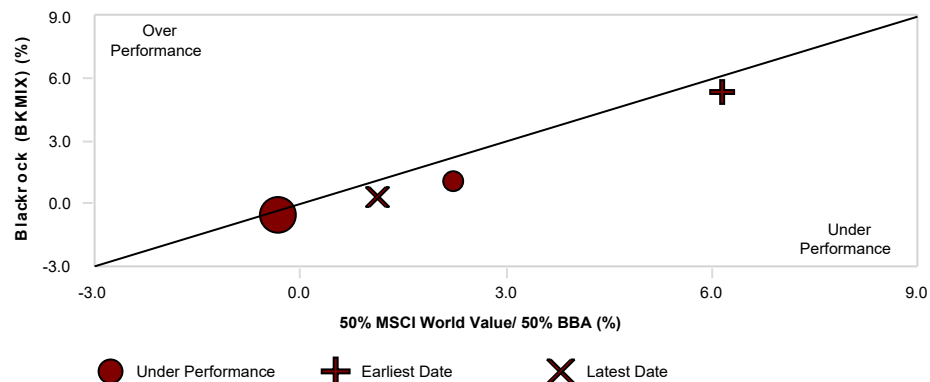
	Oct-2021 To Sep-2022	Oct-2020 To Sep-2021	Oct-2019 To Sep-2020	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017
● Blackrock (BKMIX)	14.36 (46)	12.13 (77)	2.44 (52)	N/A	N/A	N/A
● 50% MSCI WV/ 50% BBA	13.43 (40)	14.65 (64)	-0.25 (71)	5.80 (24)	N/A	N/A
Median	14.79	16.31	2.56	2.63	3.45	9.51

Comparative Performance

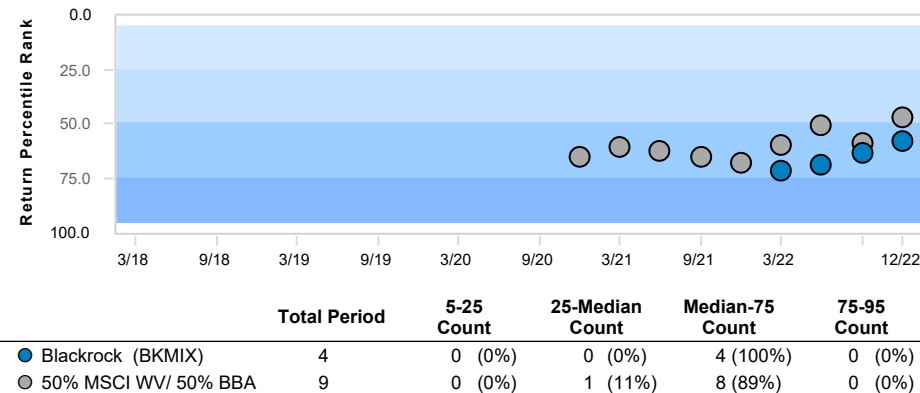
	1 Qtr Ending Sep-2022	1 Qtr Ending Jun-2022	1 Qtr Ending Mar-2022	1 Qtr Ending Dec-2021	1 Qtr Ending Sep-2021	1 Qtr Ending Jun-2021
Blackrock (BKMIX)	-3.47 (40)	-9.28 (43)	-4.06 (39)	1.93 (73)	-0.29 (37)	3.36 (75)
50% MSCI World Value/ 50% BBA	-5.98 (66)	-8.13 (29)	-3.30 (32)	3.64 (48)	-0.38 (40)	3.28 (76)
IM Flexible Portfolio (MF) Median	-4.54	-10.07	-4.80	3.56	-0.69	4.47



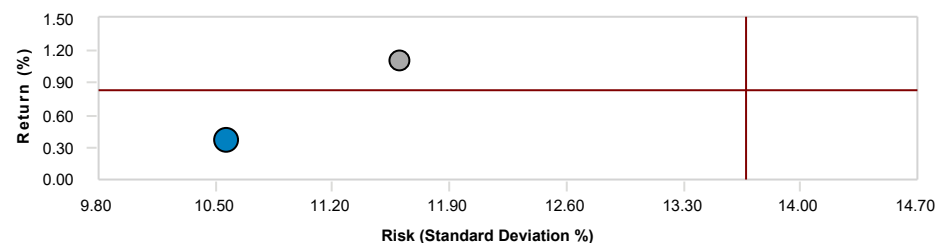
3 Yr Rolling Under/Over Performance - 5 Years



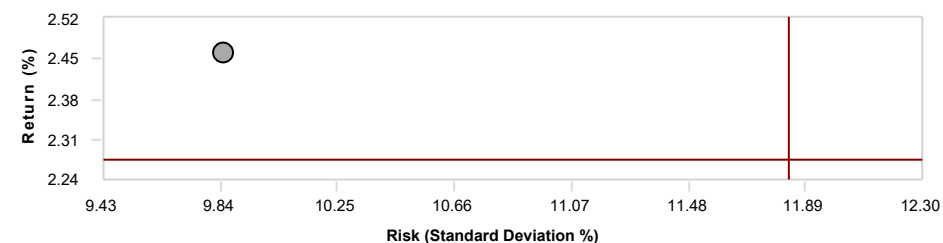
3 Yr Rolling Percentile Ranking - 5 Years



Peer Group Scattergram - 3 Years



Peer Group Scattergram - 5 Years



Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Blackrock (BKMIX)	3.47	81.19	84.57	-0.61	-0.24	0.02	0.87	8.09
50% MSCI WV/ 50% BBA	0.00	100.00	100.00	0.00	N/A	0.09	1.00	8.30

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Blackrock (BKMIX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50% MSCI WV/ 50% BBA	0.00	100.00	100.00	0.00	N/A	0.17	1.00	6.93



**Delray Beach Police Officers' Retirement System
Illiquid Investments
December 31, 2022**

	Market Value	Uncalled Capital Commitment	QTD IRR	Inception IRR	Inception Date	Expected Termination
*Angelo Gordon Net Lease Realty Fund III, L.P.	\$1,676,797.00	\$75,889	1.51	7.02	3/10/2014	4/1/2027
*Crescent Direct Lending Levered Fund	\$1,027,175.00	\$390,451	-4.39	6.98	10/9/2014	12/1/2022
*Dune Real Estate Fund III	\$1,086,868.00	\$0	0.64	7.39	11/6/2014	12/1/2024
*NB Secondary OPP Fund V	\$377,019.00	\$2,720,920	-12.17	75.16	3/21/2022	TBD
*PA Secondary Fund VI	\$888,387.00	\$1,521,069	9.02	67.11	2/14/2022	TBD

* Market Value as of 9/30/2022

Market Value includes contributions & distributions since end of period.



Benchmark History
Investment Policy Benchmarks
As of December 31, 2022

Total Fund Policy

Allocation Mandate	Weight (%)
Jan-1978	
S&P 500 Index	65.00
Blmbg. U.S. Gov't/Credit	30.00
FTSE 3 Month T-Bill	5.00
Apr-2007	
Blmbg. U.S. Gov't/Credit	30.00
Blmbg. U.S. TIPS 1-10 Year	5.00
S&P 500 Index	60.00
MSCI EAFE (Net) Index	5.00
Oct-2007	
MSCI EAFE (Net) Index	10.00
Bloomberg Intermed Aggregate Index	30.00
Blmbg. U.S. TIPS 1-10 Year	5.00
Russell 3000 Index	50.00
NCREIF Property Index	5.00
Jan-2010	
MSCI AC World ex USA (Net)	15.00
Blmbg. U.S. Aggregate Index	30.00
Bloomberg U.S. TIPS Index	5.00
Russell 3000 Index	45.00
NCREIF Property Index	5.00
Jul-2010	
FT Wilshire 5000 Total Market (full-cap) Index	35.00
MSCI AC World ex USA (Net)	15.00
Blmbg. U.S. Aggregate Index	25.00
Bloomberg U.S. TIPS Index	5.00
NCREIF ODCE	5.00
Barclay BTOP 50	5.00
Quadrant Custom Policy	5.00
NCREIF Timberland Index	5.00

Allocation Mandate	Weight (%)
Oct-2013	
FT Wilshire 5000 Total Market (full-cap) Index	35.00
MSCI AC World ex USA (Net)	15.00
Blmbg. U.S. Aggregate Index	27.50
NCREIF ODCE	5.00
Quadrant Custom Policy	5.00
NCREIF Timberland Index	5.00
CPI+5%	7.50
May-2014	
FT Wilshire 5000 Total Market (full-cap) Index	35.00
MSCI AC World ex USA (Net)	15.00
Blmbg. U.S. Aggregate Index	27.50
NCREIF ODCE	10.00
NCREIF Timberland Index	5.00
CPI+5%	7.50
Jul-2015	
FT Wilshire 5000 Total Market (full-cap) Index	35.00
MSCI AC World ex USA (Net)	15.00
Blmbg. U.S. Aggregate Index	27.50
NCREIF ODCE	10.00
NCREIF Timberland Index	5.00
Alternatives Policy	7.50
Nov-2015	
FT Wilshire 5000 Total Market (full-cap) Index	42.50
MSCI AC World ex USA (Net)	15.00
Blmbg. U.S. Aggregate Index	27.50
NCREIF ODCE	10.00
Alternatives Policy	5.00
Jul-2021	
FT Wilshire 5000 Total Market (full-cap) Index	49.00
MSCI AC World ex USA (Net)	12.00
Blmbg. U.S. Aggregate Index	20.00
NCREIF ODCE	10.00
Alternatives Policy	5.00
MSCI Emerging Markets IMI (Net)	4.00



Benchmark History
Investment Policy Benchmarks
As of December 31, 2022

Total Equity Policy	
Allocation Mandate	Weight (%)
Oct-2005	
S&P 500 Index	95.00
FTSE 3 Month T-Bill	5.00
Apr-2007	
S&P 500 Index	85.00
MSCI EAFE (Net) Index	10.00
FTSE 3 Month T-Bill	5.00
Oct-2007	
Russell 3000 Index	85.00
MSCI EAFE (Net) Index	15.00
Jan-2010	
Russell 3000 Index	75.00
MSCI AC World ex USA (Net)	25.00
Jul-2010	
FT Wilshire 5000 Total Market (full-cap) Index	55.00
MSCI AC World ex USA (Net)	45.00
Nov-2015	
FT Wilshire 5000 Total Market (full-cap) Index	75.00
MSCI AC World ex USA (Net)	25.00

Domestic Equity Policy	
Allocation Mandate	Weight (%)
Oct-2005	
S&P 500 Index	100.00
Oct-2007	
Russell 3000 Index	100.00
Jul-2010	
FT Wilshire 5000 Total Market (full-cap) Index	100.00

Total Int'l Policy	
Allocation Mandate	Weight (%)
Jan-1970	
MSCI EAFE (Net) Index	100.00
Jan-2010	
MSCI AC World ex USA (Net)	100.00
Alternatives Policy	
Allocation Mandate	Weight (%)
Aug-2010	
Barclay BTOP 50	100.00
Nov-2013	
CPI+5% 1	100.00
Jul-2015	
S&P 500 Index	50.00
Blmbg. U.S. Aggregate Index	50.00

Total Fixed Policy	
Allocation Mandate	Weight (%)
Oct-2005	
Blmbg. U.S. Gov't/Credit	95.00
FTSE 3 Month T-Bill	5.00
Jan-2007	
Blmbg. U.S. Gov't/Credit	85.00
Blmbg. U.S. TIPS 1-10 Year	15.00
Oct-2007	
Bloomberg Intermed Aggregate Index	85.00
Blmbg. U.S. TIPS 1-10 Year	15.00
Jan-2010	
Blmbg. U.S. Aggregate Index	85.00
Bloomberg U.S. TIPS Index	15.00
Oct-2013	
Blmbg. U.S. Aggregate Index	100.00



Delray Beach Police Officers' Retirement System

Fee Analysis

As of December 31, 2022

	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)	Fee Schedule
Fidelity Total Market Ix (FSKAX)	130,632	13	0.01	0.01 % of Assets
Rhumblin R1000V	4,274,193	1,710	0.04	0.04 % of Assets
Brandywine LCV	18,789,752	80,159	0.43	0.45 % of First \$10 M 0.40 % of Next \$15 M 0.38 % of Next \$25 M 0.35 % Thereafter
Rhumblin R1000G	5,034,993	2,014	0.04	0.04 % of Assets
Polen Capital LCG	15,949,186	95,695	0.60	0.60 % of Assets
Fidelity Mid Cap Index (FSMDX)	3,380,776	1,014	0.03	0.03 % of Assets
Clarkston Partners (CISM)	11,278,335	112,783	1.00	1.00 % of Assets
Mass Mutual Small Cap (MSOOX)	6,728,907	46,429	0.69	0.69 % of Assets
Harding Loevner Intl Equity (HLIZX)	13,879,055	101,317	0.73	0.73 % of Assets
ABS Emerging Markets Strategic Portfolio, L.P.	3,907,550	17,584	0.45	0.45 % of Assets
Baird Aggregate Bond Fund (BAGIX)	5,409,533	16,229	0.30	0.30 % of Assets
Loomis Sayles Bond Fund (LSBDX)	1,889,854	12,662	0.67	0.67 % of Assets
MainStay High Yield Corp Bond (MHYSX)	3,366,953	18,855	0.56	0.56 % of Assets
ARA Core Property	3,213,977	35,354	1.10	1.10 % of Assets
Fidelity Real Estate Index Fund	5,469,741	3,829	0.07	0.07 % of Assets
Blackrock Multi-Asset Income (BKMIX)	14,155,670	73,609	0.52	0.52 % of Assets
Total Fund (Composite)	122,937,808	619,393	0.50	



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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