# West Palm Beach Firefighters' Pension Fund

Investment Performance Review Period Ending December 31, 2024

# MARINER

4th Quarter 2024 Market Environment

# The Economy

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

# Equity (Domestic and International)

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

# Fixed Income

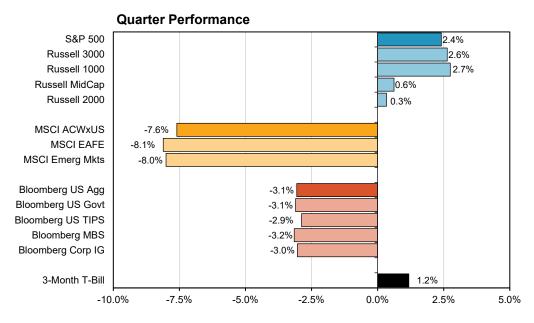
- Fixed-income markets traded lower during the quarter on the back of the Fed's ongoing policy actions. Short term Treasury yields fell while longer term yields rose, leading to a slight steepening in the yield curve. The yield on the bellwether 10-year Treasury advanced by 0.84% during the quarter,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

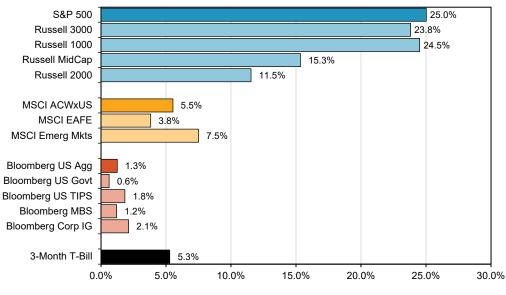
### Market Themes

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

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

Source: Investment Metrics

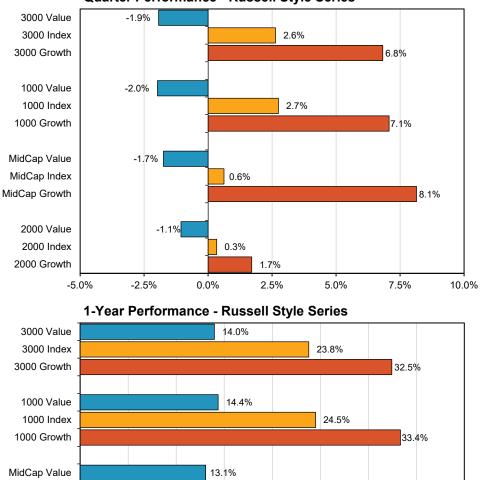




#### 1-Year Performance

- Domestic equity benchmarks exhibited a return to their long-run trend of growth style companies vastly outperforming value during the fourth quarter. This theme was relatively consistent across the capitalization spectrum with growth benchmarks dominating performance results while value benchmarks each posted negative returns for the quarter.
- The broadest disparity between growth and value was visible in the mid-cap index. The Russell Mid Cap Value Index return of -1.7% trailed the Russell Mid Cap Growth Index return of 8.1%, a performance span of nearly 10%. The Russell Mid Cap Growth Index was also the best performing segment of the equity market during the quarter. Conversely, the worst performing segment of the market was large cap value which returned a disappointing -2.0% during the fourth quarter.

- This quarter's ascension of the growth indexes widened their performance gaps relative to the value indexes for the trailing year. The Russell 1000 Growth Index amassed a staggering 33.4% for the year, leading the way among style and market capitalization index performance. Much of the year's strong performance has been attributable to the emergence of the "Magnificent 7" stocks (Alphabet, Amazon, Apple, Meta, Microsoft, Nvidia, and Tesla) which have dominated the large-cap core and growth indexes and the headlines over the past several years. The 10 largest stocks in the Russell 1000 Index have contributed more than 50% of the index's total performance over the trailing 12-month period. The weakest performing index for the year was the Russell 2000 Value Index, which still climbed 8.1%.
- The strength of growth sectors is also evident in the trailing one-year period with the chart on the right showing growth benchmarks at all capitalization ranges outpacing their value counterparts. The performance gap between the Russell 1000 Growth Index and the Russell 1000 Value Index was nearly 20% and the gaps for mid- and small-cap indexes were narrower, but still wide.



15.3%

15.2%

20.0%

8.1%

10.0%

5.0%

11.5%

15.0%

22.1%

25.0%

30.0%

35.0%

40.0%

MidCap Index

MidCap Growth

2000 Value

2000 Index

2000 Growth

0.0%

Quarter Performance - Russell Style Series

Source: Investment Metrics

- ■Quarter ■1-Year Russell 1000 9.0% Comm Services (8.8%) 39.8% 12.9% Consumer Disc (10.6%) 28.8% -3.0% Consumer Staples (5.6%) 14.7% -0.6% Energy (3.5%) 7.5% 7.9% Financials (13.9%) 31.4% -9.9% Health Care (11.0%) 2.9% -2.2% Industrials (9.5%) 17.3% 5.8% Info Technology (29.7%) 35.9% -11.4% Materials (2.5%) 0.2% -7.8% Real Estate (2.6%) 5.1% -5.2% Utilities (2.4%) 24.8% -20.0% -10.0% 0.0% 20.0% 30.0% 40.0% 10.0% ■Quarter ■1-Year Russell 2000 0.5% Comm Services (2.7%) 12.2% -1.6% Consumer Disc (9.9%) 6.2% 5.5% Consumer Staples (2.7%) 17.9% -2.7% Energy (5.2%) -4.1% 3.5% Financials (18.5%) 15.4% 7.6% Health Care (17.1%) 1.9% 4.1% Industrials (17.4%) 17.0% 9.9% Info Technology (12.7%) 21.6% -4.7% Materials (4.5%) 4.0% -6.1% Real Estate (6.2%) 5.5% -4.6% Utilities (2.8%) 2.8% -5.0% 0.0% 5.0% 10.0% 15.0% 20.0% -10.0% 25.0%
- Economic sector performance delivered mixed results in the fourth quarter as just four of the 11 economic sectors moved higher in the large-cap index. While performance during the year could be characterized by broader participation in the domestic equity markets, this was not the case during the fourth quarter as only the communication services, consumer discretionary, financials, and information technology sectors managed to post positive returns. Within the large cap index, consumer discretionary stocks led the way, collectively returning 12.9% for the quarter while the materials sector struggled, falling -11.4% during the period.
- Full year results during 2024 showcased strong performance across the economic sector classifications. Communication services narrowly outpaced information technology for the year, posting returns of 39.8% and 35.9%, respectively, with financials coming in third with a return of 31.4%. While all sectors posted positive returns for the year, the broad index's strong performance during 2024 was largely driven by three of the five most heavily weighted index sectors.
- Similar to the large cap benchmark, just five of the 11 small-cap economic sectors gained value during the quarter. Communication services, consumer staples, financials, industrials, and information technology led the way with information technology as the best performing sector during the quarter. Health care faltered as the worst-performing sector with a return of -7.6% during the quarter, followed closely by real estate, which finished the quarter with a return of -6.1%.
- Despite their struggles during the most recent quarter, small-cap stocks delivered strong results for the year. Ten small-cap sectors advanced higher during the trailing one-year period, making energy the lone negative performer over the period. The sector's -2.7% return during the fourth quarter pushed the sector's performance to -4.1% for the trailing year. Information technology (up 21.6%) was the only sector to cross the 20% return threshold, but four others also amassed double digit positive returns for the calendar year.

#### Source: Morningstar Direct

As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.

The Market Environment Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000

As of December 31, 2024

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

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

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

Source: Morningstar Direct

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

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

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

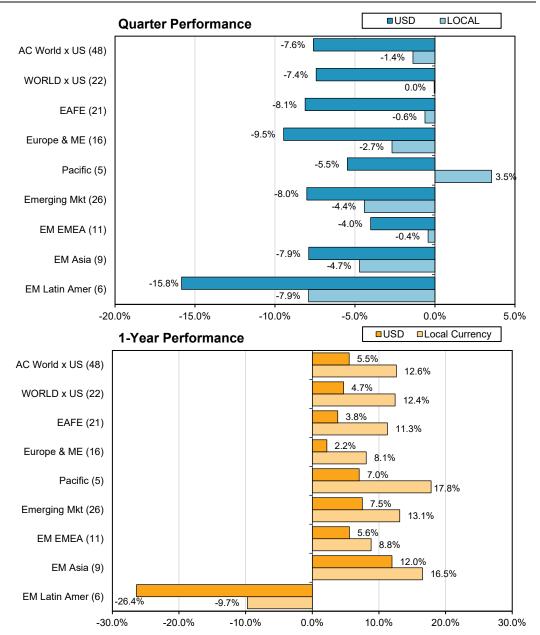
### Results in USD terms among the headline international equity indexes were sharply lower during the quarter. The strengthening USD relative to many major currencies during the quarter was a substantial headwind for the USD performance of non-US regional benchmarks' returns. The developed-market MSCI EAFE Index returned a muted -0.6% in LCL terms but fell -8.1% in USD terms. The MSCI ACWI ex-US Index pulled back -7.6% in USD and -1.4% in LCL terms for the quarter.

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

Source: MSCI Global Index Monitor (Returns are Net)

# The Market Environment International and Regional Market Index Performance (Country Count)

As of December 31, 2024



# The Market Environment US Dollar International Index Attribution & Country Detail As of December 31, 2024

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

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

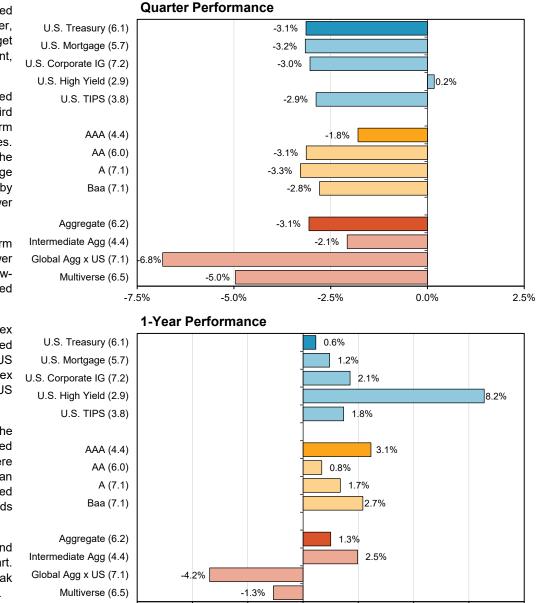
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	9.4%	-8.1%	15.9%
Consumer Discretionary	13.1%	-14.5%	11.8%
Consumer Staples	4.8%	-13.9%	-11.1%
Energy	4.6%	-14.5%	-5.9%
Financials	23.7%	-5.0%	11.0%
Health Care	3.5%	-11.7%	-0.9%
Industrials	6.6%	-10.9%	0.6%
Information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

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

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

As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.

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



-7.5%

-5.0%

-2.5%

0.0%

2.5%

5.0%

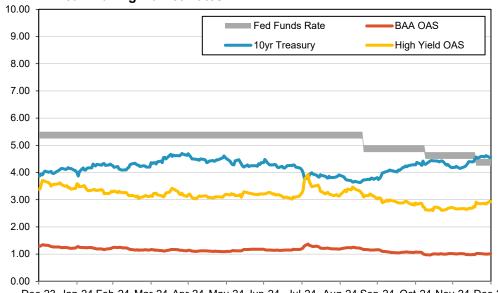
7.5%

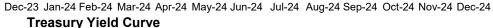
10.0%

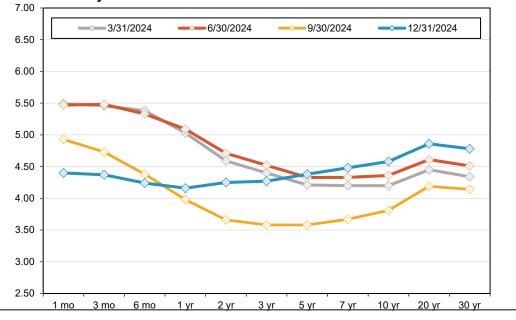
Source: Bloomberg

#### The Market Environment Market Rate & Yield Curve Comparison As of December 31, 2024

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







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

#### 1-Year Trailing Market Rates

CME FedWatch Tool - CME Group

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

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

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

U.S. Department of the Treasury

China's Economy Limps Into 2024 - WSJ Support Site - Global Index Lens: Index Returns - MSCI

Federal Reserve issues FOMC statement

The Fed - Meeting calendars and information (federalreserve.gov)

The Federal Reserve's latest dot plot, explained - and what it says about interest rates | Bankrate

Why Chinese banks are now vanishing (economist.com)

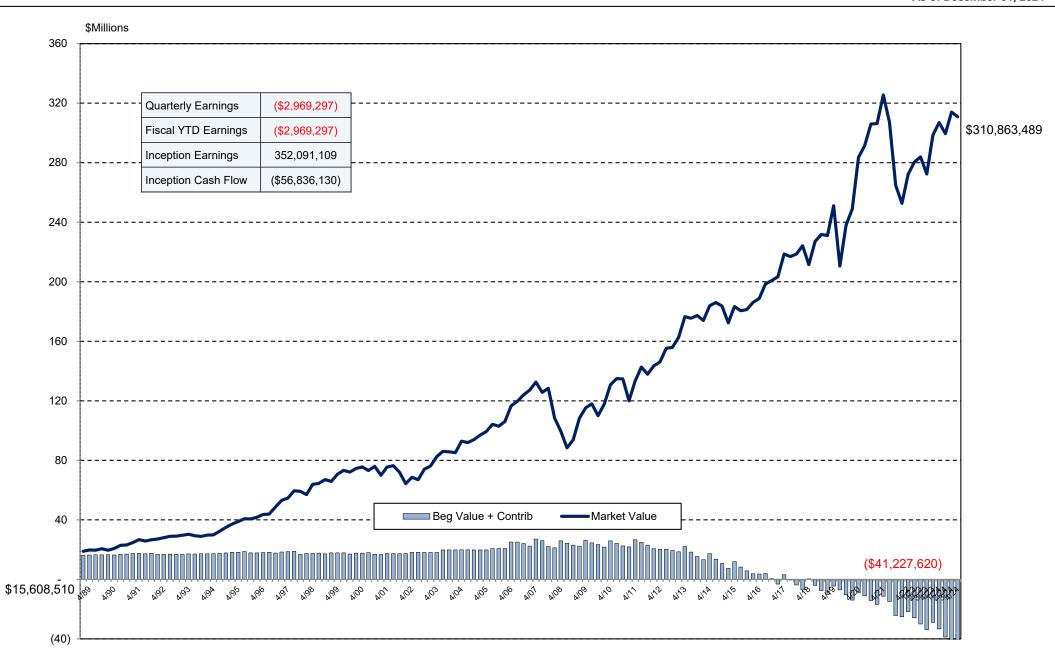
Fed rate cut: Here's what changed in the central bank's statement (cnbc.com)

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

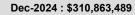
The Fed's dot plot shows only two rate cuts in 2025, fewer than previously projected

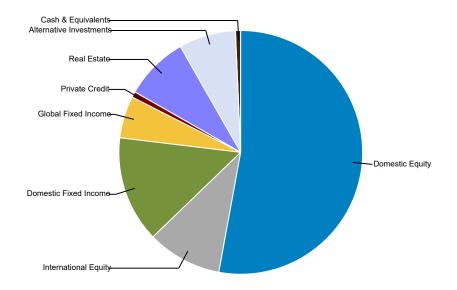
Portfolio Segment	Market Value	Current Allocation	Target Allocation	Difference
Domestic Equity	\$159,129,792	51.2%	49.0%	+2.2%
International Equity	\$30,929,863	9.9%	10.0%	(0.1%)
Domestic Fixed Income	\$48,591,217	15.6%	14.0%	+1.6%
Global Fixed Income	\$17,421,535	5.6%	5.0%	+0.6%
Private Credit	\$3,502,191	1.1%	0.0%	+1.1%
Real Estate	\$25,895,760	8.3%	12.0%	(3.7%)
Alternative	\$23,331,277	7.5%	10.0%	(2.5%)
Cash & Equivalents	\$2,061,854	0.7%	0.0%	+0.7%
Total Market Value	\$310,863,489	100.0%	100.0%	

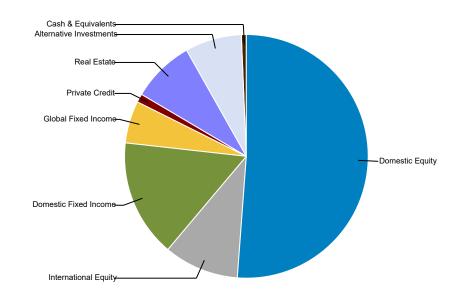
Total Portfolio	Quarter	Fiscal YTD
Portfolio Earnings	(\$2,969,297)	(\$2,969,297)
Portfolio Return	-0.95%	-0.95%
Policy Return	-0.16%	-0.16%



#### Sep-2024 : \$314,103,638





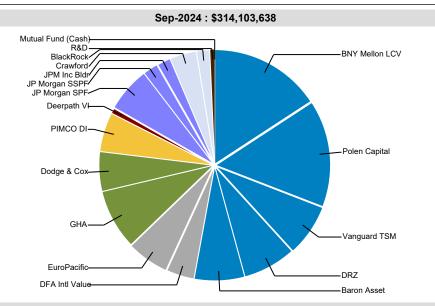


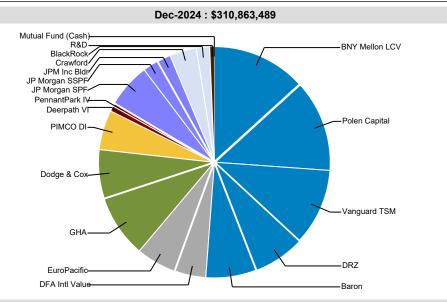
Allocation		
	Market Value	Allocation
Domestic Equity	166,109,388	52.9
International Equity	31,122,237	9.9
Domestic Fixed Income	44,345,279	14.1
Global Fixed Income	17,533,182	5.6
Private Credit	2,405,769	0.8
Real Estate	26,653,970	8.5
Alternative Investments	23,752,089	7.6
Cash & Equivalents	2,181,724	0.7

#### Allocation

liooulion			
	Market Value	Allocation	
Domestic Equity	159,129,792	51.2	
International Equity	30,929,863	9.9	
Domestic Fixed Income	48,591,217	15.6	
Global Fixed Income	17,421,535	5.6	
Private Credit	3,502,191	1.1	
Real Estate	25,895,760	8.3	
Alternative Investments	23,331,277	7.5	
Cash & Equivalents	2,061,854	0.7	

# Asset Allocation by Manager Total Fund As of December 31, 2024



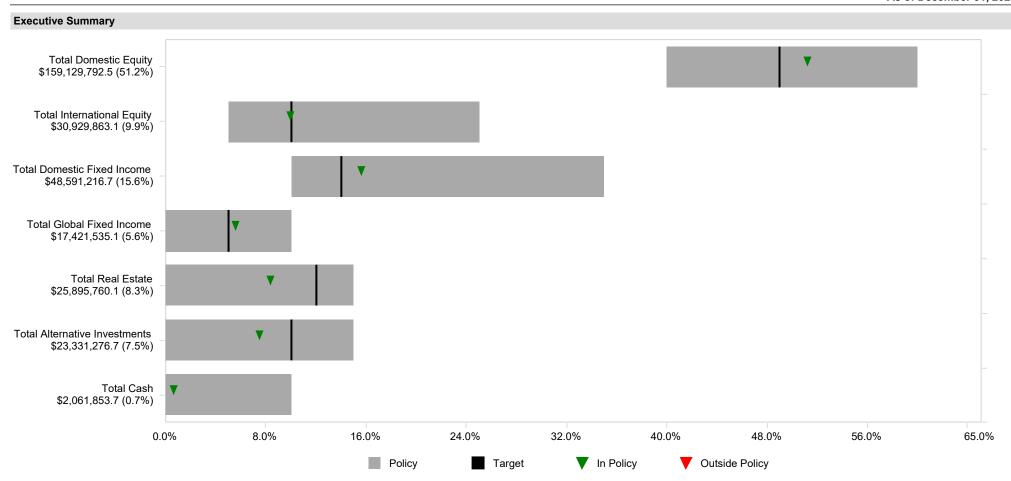


#### Allocation

location		
	Market Value	Allocation
BNY Mellon LCV	49,537,532	15.8
Polen Capital	47,446,510	15.1
Vanguard TSM	23,180,557	7.4
DRZ	23,605,888	7.5
Baron Asset	22,338,900	7.1
DFA Intl Value	12,418,566	4.0
EuroPacific	18,703,671	6.0
GHA	26,747,655	8.5
Dodge & Cox	17,597,625	5.6
PIMCO DI	17,533,182	5.6
Deerpath VI	2,405,769	0.8
PennantPark IV	-	0.0
JP Morgan SPF	19,959,379	6.4
JP Morgan SSPF	6,694,591	2.1
JPM Inc Bldr	5,921,887	1.9
Crawford	11,917,430	3.8
BlackRock	5,912,771	1.9
PIMCO DISCO III	-	0.0
R&D	2,176,282	0.7
Mutual Fund (Cash)	5,442	0.0

## Allocation

	Market Value	Allocation
BNY Mellon LCV	41,141,880	13.2
Polen Capital	40,126,066	12.9
Vanguard TSM	33,487,967	10.8
DRZ	22,382,313	7.2
Baron	21,991,567	7.1
DFA Intl Value	13,541,756	4.4
EuroPacific	17,388,107	5.6
GHA	27,346,118	8.8
Dodge & Cox	21,245,098	6.8
PIMCO DI	17,421,535	5.6
Deerpath VI	2,344,321	0.8
PennantPark IV	1,157,870	0.4
JP Morgan SPF	19,258,441	6.2
JP Morgan SSPF	6,637,319	2.1
JPM Inc Bldr	5,763,480	1.9
Crawford	11,756,984	3.8
BlackRock	5,810,813	1.9
PIMCO DISCO III	-	0.0
R&D	2,056,371	0.7
Mutual Fund (Cash)	5,482	0.0



#### **Asset Allocation Compliance**

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Rebal. (\$000)	Min. Rebal. (\$000)	Max. Rebal. (\$000)
Total Fund	310,863,489	100.0	100.0	N/A	N/A	-	-	-
Total Domestic Equity	159,129,792	51.2	49.0	40.0	60.0	-6,806,683	-34,784,397	27,388,301
Total International Equity	30,929,863	9.9	10.0	5.0	25.0	156,486	-15,386,689	46,786,009
Total Domestic Fixed Income	48,591,217	15.6	14.0	10.0	35.0	-5,070,328	-17,504,868	60,211,004
Total Global Fixed Income	17,421,535	5.6	5.0	0.0	10.0	-1,878,361	-17,421,535	13,664,814
Total Real Estate	25,895,760	8.3	12.0	0.0	15.0	11,407,859	-25,895,760	20,733,763
Total Alternative Investments	23,331,277	7.5	10.0	0.0	15.0	7,755,072	-23,331,277	23,298,247
Total Cash	2,061,854	0.7	0.0	0.0	10.0	-2,061,854	-2,061,854	29,024,495

Asset Allocation Attributes										
	Domestic Equity (\$)	International Equity (\$)	Fixed Income (\$)	International Fixed Income (\$)	Global Fixed Income (\$)	Real Estate (\$)	Alternative Investment (\$)	Private Equity (\$)	Cash Equivalent (\$)	Total Fund (\$)
Total Domestic Equity	157,281,259	-	-	-	-	-	-	-	1,848,533	159,129,792
Newton LCV	40,933,625	-	-	-	-	-	-	-	208,255	41,141,880
Polen Capital	39,572,452	-	-	-	-	-	-	-	553,614	40,126,066
Vanguard Total Stk Mkt Index (VITSX)	33,487,967	-	-	-	-	-	-	-	-	33,487,967
Deprince, Race, Zollo (Equity)	22,112,275	-	-	-	-	-	-	-	270,038	22,382,313
Baron Asset	21,174,940	-	-	-	-	-	-	-	816,627	21,991,567
Total International Equity	-	30,929,863	-	-	-	-	-	-	-	30,929,863
DFA Intl Value (DFIVX)	-	13,541,756	-	-	-	-	-	-	-	13,541,756
EuroPacific Growth Fund (RERGX)	-	17,388,107	-	-	-	-	-	-	-	17,388,107
Total Domestic Fixed Income	-	-	48,336,614	-	-	-	-	-	254,603	48,591,217
Garcia Hamilton & Associates	-	-	27,091,516	-	-	-	-	-	254,603	27,346,118
Dodge & Cox Income (DODIX)	-	-	21,245,098	-	-	-	-	-	-	21,245,098
Total Global Fixed Income	-	-	-	-	17,421,535	-	-	-	-	17,421,535
PIMCO Diversified Income (PDIIX)	-	-	-	-	17,421,535	-	-	-	-	17,421,535
Total Private Credit	-	-	-	-	2,344,321	-	-	1,157,870	-	3,502,191
Deerpath Capital Advantage VI	-	-	-	-	2,344,321	-	-	-	-	2,344,321
PennantPark Credit Opportunities IV	-	-	-	-	-	-	-	1,157,870	-	1,157,870
Total Real Estate	-	-	-	-	-	25,895,760	-	-	-	25,895,760
JP Morgan Strategic Property Fund	-	-	-	-	-	19,258,441	-	-	-	19,258,441
JP Morgan Special Situation Property Fund	-	-	-	-	-	6,637,319	-	-	-	6,637,319
Total Alternative Investments	8,154,288	298,614	1,906,860	233,115	-	-	11,574,292	-	1,164,106	23,331,277
JPMorgan Income Builder Fund (JNBZX)	-	-	-	-	-	-	5,763,480	-	-	5,763,480
Crawford Portfolio	8,154,288	298,614	1,906,860	233,115	-	-	-	-	1,164,106	11,756,984
BlackRock Multi-Asset Income Fund (BIICX)	-	-	-	-	-	-	5,810,813	-	-	5,810,813
PIMCO DISCO Fund III	-	-	-	-	-	-	-	-	-	-
Total Cash	-	-	-	-	-	-	-	-	2,061,854	2,061,854
R&D Account	-	-	-	-	-	-	-	-	2,056,371	2,056,371
Mutual Fund (Cash)	-	-	-	-	-	-	-	-	5,482	5,482

Financial Reconciliation Quarter to Date								
	Market Value 10/01/2024	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Return On Investment	Market Value 12/31/2024
Total Domestic Equity	166,109,388	-8,000,000	10,970	-	-101,856	-11,246	1,122,536	159,129,792
Newton LCV	49,537,532	-8,000,000	4,522	-	-30,299	-4,522	-365,353	41,141,880
Polen Capital	47,446,510	-10,000,000	2,860	-	-71,557	-2,860	2,751,112	40,126,066
Vanguard Total Stk Mkt Index (VITSX)	23,180,557	10,000,000	-	-	-	-	307,410	33,487,967
Deprince, Race, Zollo (Equity)	23,605,888	-	2,334	-	-	-2,610	-1,223,299	22,382,313
Baron Asset	22,338,900	-	1,254	-	-	-1,254	-347,334	21,991,567
Total International Equity	31,122,237	1,900,000	-	-	-	-	-2,092,374	30,929,863
DFA Intl Value (DFIVX)	12,418,566	1,900,000	-	-	-	-	-776,810	13,541,756
EuroPacific Growth Fund (RERGX)	18,703,671	-	-	-	-	-	-1,315,564	17,388,107
Total Domestic Fixed Income	44,345,279	6,100,000	1,390	-	-16,497	-1,390	-1,837,566	48,591,217
Garcia Hamilton & Associates	26,747,655	1,830,000	1,390	-	-16,497	-1,390	-1,215,040	27,346,118
Dodge & Cox Income (DODIX)	17,597,625	4,270,000	-	-	-	-	-622,527	21,245,098
Total Global Fixed Income	17,533,182	-	-	-	-	-	-111,647	17,421,535
PIMCO Diversified Income (PDIIX)	17,533,182	-	-	-	-	-	-111,647	17,421,535
Total Private Credit	2,405,769	1,171,433	-	-75,011	-	-	-	3,502,191
Deerpath Capital Advantage VI	2,405,769	-61,448	-	-	-	-	-	2,344,321
PennantPark Credit Opportunities IV	-	1,232,881	-	-75,011	-	-	-	1,157,870
Total Real Estate	26,653,970	-1,027,228	-	-	-78,288	-	347,307	25,895,760
JP Morgan Strategic Property Fund	19,959,379	-983,815	-	-	-51,219	-	334,096	19,258,441
JP Morgan Special Situation Property Fund	6,694,591	-43,414	-	-	-27,069	-	13,211	6,637,319
Total Alternative Investments	23,752,089	-	724	-	-	-724	-420,812	23,331,277
JPMorgan Income Builder Fund (JNBZX)	5,921,887	-	-	-	-	-	-158,408	5,763,480
Crawford Portfolio	11,917,430	-	724	-	-	-724	-160,446	11,756,984
BlackRock Multi-Asset Income Fund (BIICX)	5,912,771	-	-	-	-	-	-101,959	5,810,813
PIMCO DISCO Fund III	-	-	-	-	-	-	-	-
Total Cash	2,181,724	-143,130	5,195	-	-	-5,195	23,259	2,061,854
R&D Account	2,176,282	-143,130	108	-	-	-108	23,219	2,056,371
Mutual Fund (Cash)	5,442	-	5,087	-	-	-5,087	40	5,482
Total Fund	314,103,638	1,075	18,279	-75,011	-196,641	-18,555	-2,969,297	310,863,489

Financial Reconciliation Fiscal Year to Date								
	Market Value 10/01/2024	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Return On Investment	Market Value 12/31/2024
Total Domestic Equity	166,109,388	-8,000,000	10,970	-	-101,856	-11,246	1,122,536	159,129,792
Newton LCV	49,537,532	-8,000,000	4,522	-	-30,299	-4,522	-365,353	41,141,880
Polen Capital	47,446,510	-10,000,000	2,860	-	-71,557	-2,860	2,751,112	40,126,066
Vanguard Total Stk Mkt Index (VITSX)	23,180,557	10,000,000	-	-	-	-	307,410	33,487,967
Deprince, Race, Zollo (Equity)	23,605,888	-	2,334	-	-	-2,610	-1,223,299	22,382,313
Baron Asset	22,338,900	-	1,254	-	-	-1,254	-347,334	21,991,567
Total International Equity	31,122,237	1,900,000	-	-	-	-	-2,092,374	30,929,863
DFA Intl Value (DFIVX)	12,418,566	1,900,000	-	-	-	-	-776,810	13,541,756
EuroPacific Growth Fund (RERGX)	18,703,671	-	-	-	-	-	-1,315,564	17,388,107
Total Domestic Fixed Income	44,345,279	6,100,000	1,390	-	-16,497	-1,390	-1,837,566	48,591,217
Garcia Hamilton & Associates	26,747,655	1,830,000	1,390	-	-16,497	-1,390	-1,215,040	27,346,118
Dodge & Cox Income (DODIX)	17,597,625	4,270,000	-	-	-	-	-622,527	21,245,098
Total Global Fixed Income	17,533,182	-	-	-	-	-	-111,647	17,421,535
PIMCO Diversified Income (PDIIX)	17,533,182	-	-	-	-	-	-111,647	17,421,535
Total Private Credit	2,405,769	1,171,433	-	-75,011	-	-	-	3,502,191
Deerpath Capital Advantage VI	2,405,769	-61,448	-	-	-	-	-	2,344,321
PennantPark Credit Opportunities IV	-	1,232,881	-	-75,011	-	-	-	1,157,870
Total Real Estate	26,653,970	-1,027,228	-	-	-78,288	-	347,307	25,895,760
JP Morgan Strategic Property Fund	19,959,379	-983,815	-	-	-51,219	-	334,096	19,258,441
JP Morgan Special Situation Property Fund	6,694,591	-43,414	-	-	-27,069	-	13,211	6,637,319
Total Alternative Investments	23,752,089	-	724	-	-	-724	-420,812	23,331,277
JPMorgan Income Builder Fund (JNBZX)	5,921,887	-	-	-	-	-	-158,408	5,763,480
Crawford Portfolio	11,917,430	-	724	-	-	-724	-160,446	11,756,984
BlackRock Multi-Asset Income Fund (BIICX)	5,912,771	-	-	-	-	-	-101,959	5,810,813
PIMCO DISCO Fund III	-	-	-	-	-	-	-	-
Total Cash	2,181,724	-143,130	5,195	-	-	-5,195	23,259	2,061,854
R&D Account	2,176,282	-143,130	108	-	-	-108	23,219	2,056,371
Mutual Fund (Cash)	5,442	-	5,087	-	-	-5,087	40	5,482
Total Fund	314,103,638	1,075	18,279	-75,011	-196,641	-18,555	-2,969,297	310,863,489

# **Comparative Performance Total Fund**

As of December 31, 2024

Comparative Performance Trailing Returns																	
	Q	TR	FY	TD	1`	YR	3 Y	′R	5	YR	7	YR	10	YR	Incep	otion	Inception Date
otal Fund (Gross)	-0.95	(51)	-0.95	(51)	8.59	(82)	1.81	(79)	7.11	(43)	7.66	(18)	7.97	(11)	7.60	(2)	10/01/1997
Total Fund Policy	-0.16	(16)	-0.16	(16)	12.80	(15)	3.60	(20)	8.40	(7)	8.41		8.48	(3)	7.23	(9)	
All Public Plans-Total Fund Median	-0.93	( - )	-0.93	( - )	10.83	( - )	2.66	( - )	6.93	( )	6.93	( )	6.96	(-)	6.47	(-7	
Fotal Fund (Net)	-1.01		-1.01		8.15		1.41		6.71		7.27		7.57		7.19		04/01/2008
Total Fund Policy	-0.16		-0.16		12.80		3.60		8.40		8.41		8.48		7.71		
otal Equity	-0.57		-0.57		12.50		3.90		10.78		11.05		10.90		8.99		10/01/1997
Total Equity Policy	0.89		0.89		20.69		6.92		12.30		11.62		11.33		8.07		
otal Domestic Equity	0.54	(57)	0.54	(57)	13.76	(85)	4.86	(83)	11.99	(64)	12.36	(52)	11.91	(51)	9.37	(57)	10/01/1997
Total Domestic Equity Policy	2.63	(27)	2.63	(27)	23.81	(29)	8.01	(32)	13.86	(35)	13.16	(37)	12.55	(33)	8.87	(92)	
IM U.S. All Cap Core Equity (SA+CF) Median	1.18		1.18		20.48		6.95		12.95		12.44		11.97		9.72		
lewton LCV	-1.14	(46)	-1.14	(46)	17.08	(34)	11.39	(5)	14.28	(8)	12.34	(14)	11.94	(11)	9.24	(35)	01/01/2001
Russell 1000 Value Index	-1.98	(66)	-1.98	(66)	14.37	(58)	5.63	(72)	8.68	(86)	8.41	(84)	8.49	(89)	7.38	(94)	
IM U.S. Large Cap Value Equity (SA+CF) Median	-1.26		-1.26		15.65		7.42		10.85		10.05		9.90		8.76		
olen Capital	4.58	(54)	4.58	(54)	16.38	(88)	0.65	(98)	11.42	(91)	N/A		N/A		13.71	(81)	07/01/2018
Russell 1000 Growth Index	7.07	(17)	7.07	(17)	33.36	(26)	10.47	(22)	18.96	(15)	18.08	(16)	16.78	(11)	18.32	(13)	
IM U.S. Large Cap Growth Equity (SA+CF) Median	4.91		4.91		29.05		8.25		16.26		16.36		15.23		16.10		
eprince, Race, Zollo (Equity)	-5.18	(97)	-5.18	(97)	-0.31	(96)	N/A		N/A		N/A		N/A		3.99	(84)	02/01/2022
Russell 2500 Value Index	-0.26	(37)	-0.26	(37)	10.98	(52)	3.81	(56)	8.44	(70)	7.17	(76)	7.81	(84)	5.80	(55)	
IM U.S. SMID Cap Value Equity (SA+CF) Median	-0.91		-0.91		11.35		4.78		9.50		8.60		8.84		6.45		
anguard Total Stk Mkt Index (VITSX)	2.63	(21)	2.63	(21)	23.75	(45)	7.88	(51)	13.82	(41)	13.12	(35)	12.50	(30)	13.72	(31)	02/01/2013
Vanguard Total Stock Market Index	2.63	(20)	2.63	(20)	23.77	(44)	7.87	(51)	13.81	(41)	13.11	(35)	12.50	(30)	13.72	(30)	
Large Blend Median	2.05		2.05		23.23		7.88		13.39		12.50		11.89		13.14		
aron Asset	-1.55	(88)	-1.55	(88)	4.59	(98)	-3.11	(77)	8.35	(68)	10.27	(62)	10.63	(59)	11.75	(26)	01/01/2004
Russell 2000 Growth Index	1.70	(45)	1.70	(45)	15.15	(55)	0.21	(48)	6.86	(90)	7.17	(97)	8.09	(96)	8.59	(98)	
IM U.S. Small Cap Growth Equity (SA+CF) Median	1.10		1.10		15.74		-0.29		9.45		11.02		11.09		10.92		

**Total Fund** 

As of December 31, 2024

	Q	TR	FY	TD	1`	YR	3 Y	′R	5 ١	(R	7	YR	10	YR	Incep	otion	Inception Date
otal International Equity	-6.61	(21)	-6.61	(21)	5.75	(30)	-1.23	(83)	4.42	(48)	4.34	(24)	5.68	(20)	6.99	(13)	10/01/1998
Total International Equity Policy	-7.50	(49)	-7.50	(49)	6.09	(27)	1.35	(32)	4.61	(41)	4.04	(33)	5.31	(31)	5.22	(59)	
Foreign Large Blend Median	-7.54		-7.54		4.30		0.67		4.35		3.72		4.92		5.43		
PFA Intl Value (DFIVX)	-5.93	(12)	-5.93	(12)	6.88	(19)	N/A		N/A		N/A		N/A		13.03	(7)	06/01/2023
Total International Equity Policy	-7.50	(49)	-7.50	(49)	6.09	(27)	1.35	(32)	4.61	(41)	4.04	(33)	5.31	(31)	10.61	(20)	
Foreign Large Blend Median	-7.54		-7.54		4.30		0.67		4.35		3.72		4.92		8.67		
uroPacific Growth Fund (RERGX)	-7.03	(28)	-7.03	(28)	5.04	(41)	-1.97	(91)	3.95	(65)	4.00	(35)	5.66	(20)	7.48	(10)	10/01/2003
Total International Equity Policy	-7.50	(49)	-7.50	(49)	6.09	(27)	1.35	(32)	4.61	(41)	4.04	(33)	5.31	(31)	6.27	(49)	
Foreign Large Blend Median	-7.54		-7.54		4.30		0.67		4.35		3.72		4.92		6.19		
otal Fixed Income	-2.91		-2.91		2.64		-0.96		0.35		1.25		1.98		4.68		10/01/1997
Total Fixed Income Policy	-3.47		-3.47		0.54		-2.99		-0.79		0.55		1.03		3.88		
otal Domestic Fixed Income	-3.98	(98)	-3.98	(98)	0.99	(97)	-1.59	(38)	0.31	(64)	1.42	(76)	1.82	(71)	2.67	(77)	06/01/2010
Total Domestic Fixed Income Policy	-3.06	(78)	-3.06	(78)	1.25	(93)	-2.41	(91)	-0.33	(98)	0.97	(100)	1.35	(99)	2.18	(99)	
IM U.S. Broad Market Fixed Income (SA+CF) Median	-2.87		-2.87		2.38		-1.78		0.54		1.67		2.07		3.06		
Garcia Hamilton & Associates	-4.45	(100)	-4.45	(100)	0.12	(100)	-2.25	(72)	-0.33	(99)	0.90	(100)	1.42	(86)	1.73	(79)	05/01/2014
Blmbg. U.S. Aggregate Index	-3.06	(74)	-3.06	(74)	1.25	(91)	-2.41	(93)	-0.33	(98)		(99)	1.35	(97)	1.56	(99)	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	-2.98		-2.98		1.94		-2.03		0.23		1.46		1.85		2.07		
odge & Cox Income (DODIX)	-3.33	(88)	-3.33	(88)	2.26	( )	-0.62	(5)	1.25	(1)	2.20		2.46	(1)	2.45	(1)	11/01/2014
Blmbg. U.S. Aggregate Index	-3.06	(50)	-3.06	(50)	1.25	(66)	-2.41	(45)	-0.33	(57)	0.97	(47)	1.35	(46)	1.40	(45)	
Intermediate Core Bond Median	-3.07		-3.07		1.48		-2.46		-0.26		0.94		1.31		1.36		
otal Global Fixed Income	-0.64	(12)	-0.64	(12)	6.35		0.42	· · /	0.04	(26)	0.39		0.81	(31)	2.36	(17)	07/01/2010
Total Global Fixed Income Policy	-5.44	(57)	-5.44	(57)	-2.87	(64)	-5.83	(85)	-3.08	(79)	-1.52	(72)	-0.55	(71)	0.26	(81)	
Global Bond Median	-5.27		-5.27		-1.43		-4.53		-2.18		-0.76		0.06		1.09		
IMCO Diversified Income (PDIIX)	-0.64	(12)	-0.64	(12)	6.35	• •	0.38	(14)	N/A		N/A		N/A		1.40	(8)	10/01/2020
Blmbg. Global Multiverse Global Bond Median	-4.96	(44)	-4.96	(44)	-1.34	(50)	-4.22	(47)	-1.77	(43)	-0.48	(42)	0.35	(41)	-3.26	(46)	
	-5.27		-5.27		-1.43		-4.53		-2.18		-0.76		0.06		-3.53		

**Comparative Performance Total Fund** 

As of December 31, 2024

	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR	Inception	Inception Date
Total Private Credit	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	07/01/2022
Morningstar LSTA Leverage Loan Index + 3%	3.03	3.03	12.22	10.21	9.03	8.62	8.30	13.82	
Deerpath Capital Advantage VI	0.00	0.00	7.66	N/A	N/A	N/A	N/A	10.40	08/01/2022
Morningstar LSTA Leverage Loan Index + 3%	3.03	3.03	12.22	10.21	9.03	8.62	8.30	13.22	
PennantPark Credit Opportunities IV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	11/01/2024
Morningstar LSTA Leverage Loan Index + 3%	3.03	3.03	12.22	10.21	9.03	8.62	8.30	1.90	

**Total Fund** 

As of December 31, 2024

	Q	TR	FY	TD	1`	YR	3 Y	′R	5 `	YR	7	YR	10	YR	Incep	otion	Inception Date
Total Real Estate	1.36	(37)	1.36	(37)	-3.80	(93)	-6.11	(90)	0.60	(81)	2.38	(85)	4.91	(83)	5.17	(61)	01/01/2007
Total Real Estate Policy	1.03	(55)	1.03	(55)	-1.67	(77)	-2.37	(60)	3.06	(52)	4.21	(61)	6.12	(58)	6.12	(22)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.30		1.30		-1.13		-2.22		3.07		4.47		6.17		5.37		
JP Morgan Strategic Property Fund	1.76	(23)	1.76	(23)	-1.72	(78)	-4.13	(84)	1.59	(78)	2.88	(80)	5.03	(82)	5.19	(58)	01/01/2007
NCREIF Fund Index-Open End Diversified Core (EW)	1.03	(55)	1.03	(55)	-1.67	(77)	-2.37	(60)	3.06	(52)	4.21	(61)	6.12	(58)	5.19	(58)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.30		1.30		-1.13		-2.22		3.07		4.47		6.17		5.37		
IP Morgan Special Situation Property Fund	0.20	(87)	0.20	(87)	-9.69	(100)	-11.39	(96)	-2.15	(95)	0.91	(93)	4.54	(88)	5.05	(86)	07/01/2014
NCREIF Fund Index-Open End Diversified Core (EW)	1.03	(55)	1.03	(55)	-1.67	(77)	-2.37	(60)	3.06	(52)	4.21	(61)	6.12	(58)	6.46	(50)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.30	. ,	1.30	. ,	-1.13		-2.22	. ,	3.07	. ,	4.47		6.17	. ,	6.45		
Fotal Alternative Investments	-1.77		-1.77		9.27		1.96		4.14		4.36		4.51		7.61		08/01/2009
PMorgan Income Builder Fund (JNBZX)	-2.67	• •	-2.67	(41)	7.45	· · /	0.86	(62)	3.89	(69)	N/A		N/A		4.70	(69)	04/01/2019
60% MSCI World Ind(Net TR)/40% Bar US Agg Ind	-1.31	(8)	-1.31	(8)	11.45	(16)	2.93	(27)	6.72	(10)	6.72	(9)	6.67	(8)	7.67	(10)	
Global Allocation Median	-2.94		-2.94		8.12		1.45		4.66		4.49		4.77		5.41		
rawford Portfolio	-1.35	(9)	-1.35	(9)	12.54	(10)	N/A		N/A		N/A		N/A		9.80	(49)	03/01/2023
NASDAQ U.S. Multi-Asset Diversified Income Index	-1.17	(8)	-1.17	(8)	10.51	(22)	6.06	(2)	3.70	(74)	4.42	(54)	4.12	(70)	9.96	(47)	
Global Allocation Median	-2.94		-2.94		8.12		1.45		4.66		4.49		4.77		9.70		
BlackRock Multi-Asset Income Fund (BIICX)	-1.72	(15)	-1.72	(15)	7.40	(57)	1.80	(43)	3.77	(73)	4.06	(61)	N/A		4.18	(67)	04/01/2015
50% MSCI World/50% BC Agg	-1.60	(13)	-1.60	(13)	9.70	(30)	2.06	(38)	5.58	(28)	5.80	(14)	5.82	(16)	5.75	(17)	
Global Allocation Median	-2.94		-2.94		8.12		1.45		4.66		4.49		4.77		4.73		

**Comparative Performance Total Fund** 

As of December 31, 2024

Comparative Performance Fiscal Year Returns											
	FYTD	FY2024	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015
Total Fund (Gross)	-0.95 (51)	17.93 (77)	10.82 (50)	-14.75 (49)	23.86 (11)	9.39 (34)	4.35 (37)	12.04 (3)	13.07 (22)	10.14 (27)	2.14 (4)
Total Fund Policy	-0.16 (16)	22.57 (33)	11.58 (36)	-13.66 (38)	20.79 (40)	11.42 (15)	5.00 (22)	10.17 (11)	12.78 (27)	11.93 (3)	0.33 (21)
All Public Plans-Total Fund Median	-0.93	21.23	10.77	-14.86	20.05	7.93	3.99	7.84	11.87	9.42	-0.75
Total Fund (Net)	-1.01	17.42	10.33	-15.03	23.44	9.01	3.99	11.68	12.65	9.55	1.86
Total Fund Policy	-0.16	22.57	11.58	-13.66	20.79	11.42	5.00	10.17	12.78	11.93	0.33
Total Equity	-0.57	25.26	21.03	-21.16	35.16	13.26	3.23	18.02	17.70	12.05	0.56
Total Equity Policy	0.89	33.61	20.66	-18.84	30.62	13.00	2.32	14.88	19.01	14.09	-2.46
Total Domestic Equity	0.54 (57)	25.63 (93)	20.68 (33)	-18.85 (79)	37.27 (28)	12.91 (53)	3.63 (44)	21.54 (16)	17.11 (57)	12.97 (48)	2.04 (32)
Total Domestic Equity Policy	2.63 (27)	35.19 (34)	20.46 (38)	-17.63 (64)	31.88 (46)	15.00 (44)	2.92 (50)	17.58 (42)	18.71 (41)	14.96 (27)	-0.49 (50)
IM U.S. All Cap Core Equity (SA+CF) Median	1.18	32.40	19.56	-16.89	31.51	13.73	2.81	16.83	18.00	12.31	-0.50
Newton LCV	-1.14 (46)	27.77 (60)	21.63 (18)	-1.53 (5)	48.67 (11)	-5.97 (69)	0.65 (65)	14.35 (27)	19.00 (37)	14.30 (43)	-2.55 (40)
Russell 1000 Value Index	-1.98 (66)	27.76 (60)	14.44 (67)	-11.36 (66)	35.01 (60)	-5.03 (66)	4.00 (38)	9.45 (76)	15.12 (76)	16.19 (25)	-4.42 (64)
IM U.S. Large Cap Value Equity (SA+CF) Median	-1.26	28.81	16.70	-9.52	37.14	-3.19	2.49	11.91	17.81	13.34	-3.32
Polen Capital	4.58 (54)	27.50 (93)	22.19 (76)	-34.13 (90)	30.67 (19)	35.41 (41)	9.82 (11)	N/A	N/A	N/A	N/A
Russell 1000 Growth Index	7.07 (17)	42.19 (42)	27.72 (39)	-22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)	13.76 (22)	3.17 (58)
IM U.S. Large Cap Growth Equity (SA+CF) Median	4.91	41.08	25.57	-24.90	27.23	33.75	3.81	24.83	21.06	11.85	3.89
Deprince, Race, Zollo (Equity)	-5.18 (97)	15.41 (97)	16.92 (33)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Value Index	-0.26 (37)	26.59 (37)	11.34 (78)	-15.35 (62)	54.38 (40)	-12.62 (67)	-4.35 (65)	10.24 (47)	15.75 (69)	17.68 (25)	-2.44 (66)
IM U.S. SMID Cap Value Equity (SA+CF) Median	-0.91	25.00	15.02	-14.11	52.20	-8.87	-2.86	9.89	18.46	14.30	-0.08
Vanguard Total Stk Mkt Index (VITSX)	2.63 (21)	35.25 (46)	20.41 (51)	-18.01 (75)	32.10 (20)	15.01 (30)	2.90 (53)	17.62 (29)	18.64 (38)	15.00 (24)	-0.57 (28)
Vanguard Total Stock Market Index	2.63 (20)	35.23 (47)	20.37 (52)	-17.98 (74)	32.11 (20)	14.99 (31)	2.92 (52)	17.62 (29)	18.64 (38)	14.99 (24)	-0.55 (28)
Large Blend Median	2.05	34.94	20.44	-16.16	29.68	13.54	3.10	16.60	18.24	13.18	-1.28
Baron Asset	-1.55 (88)	16.68 (89)	18.70 (9)	-29.50 (55)	33.87 (73)	25.76 (49)	4.04 (7)	26.12 (58)	19.96 (67)	10.48 (56)	5.98 (37)
Russell 2000 Growth Index	1.70 (45)	27.66 (50)	9.59 (64)	-29.27 (54)	33.27 (76)	15.71 (69)	-9.63 (75)	21.06 (79)	20.98 (58)	12.12 (46)	4.04 (51)
IM U.S. Small Cap Growth Equity (SA+CF) Median	1.10	27.28	11.34	-28.80	39.93	25.31	-6.07	27.75	21.70	11.54	4.12

**Total Fund** 

As of December 31, 2024

	FYTD	FY2024	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015
Total International Equity	-6.61 (21)	23.20 (67)	23.31 (51)	-32.85 (98)	24.76 (46)	14.97 (6)	1.19 (15)	1.47 (51)	20.63 (19)	7.21 (42)	-6.88 (40)
Total International Equity Policy	-7.50 (49)	25.96 (25)	21.02 (68)	-24.79 (23)	24.45 (51)	3.45 (45)	-0.72 (29)	2.25 (31)	20.15 (25)	9.80 (17)	-11.78 (89)
Foreign Large Blend Median	-7.54	24.57	23.46	-26.01	24.46	2.82	-1.89	1.49	18.49	6.37	-7.87
DFA Intl Value (DFIVX)	-5.93 (12)	20.98 (89)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total International Equity Policy	-7.50 (49)	25.96 (25)	21.02 (68)	-24.79 (23)	24.45 (51)	3.45 (45)	-0.72 (29)	2.25 (31)	20.15 (25)	9.80 (17)	-11.78 (89)
Foreign Large Blend Median	-7.54	24.57	23.46	-26.01	24.46	2.82	-1.89	1.49	18.49	6.37	-7.87
EuroPacific Growth Fund (RERGX)	-7.03 (28)	24.71 (48)	19.64 (80)	-32.85 (98)	24.76 (46)	14.97 (6)	1.14 (15)	1.47 (51)	20.63 (19)	8.52 (29)	-4.93 (23)
Total International Equity Policy	-7.50 (49)	25.96 (25)	21.02 (68)	-24.79 (23)	24.45 (51)	3.45 (45)	-0.72 (29)	2.25 (31)	20.15 (25)	9.80 (17)	-11.78 (89)
Foreign Large Blend Median	-7.54	24.57	23.46	-26.01	24.46	2.82	-1.89	1.49	18.49	6.37	-7.87
Total Fixed Income	-2.91	13.96	2.51	-14.37	1.02	4.35	6.85	-0.12	5.16	6.09	0.90
Total Fixed Income Policy	-3.47	11.48	0.72	-15.92	-1.31	6.95	9.93	-1.26	-0.39	5.96	1.77
Total Domestic Fixed Income	-3.98 (98)	13.32 (21)	0.77 (76)	-13.19 (15)	-0.14 (72)	7.12 (63)	8.69 (88)	0.45 (12)	1.07 (50)	6.30 (37)	1.96 (77)
Total Domestic Fixed Income Policy	-3.06 (78)	11.57 (87)	0.64 (81)	-14.60 (57)	-0.90 (89)	6.98 (71)	10.30 (61)	-1.22 (91)	0.07 (90)	5.19 (85)	2.94 (44)
IM U.S. Broad Market Fixed Income (SA+CF) Median	-2.87	12.56	1.36	-14.51	0.75	7.53	10.39	-0.60	1.06	5.92	2.82
Garcia Hamilton & Associates	-4.45 (100)	13.11 (16)	-0.71 (99)	-12.88 (7)	-1.48 (96)	6.80 (80)	8.40 (97)	0.73 (4)	0.28 (67)	5.82 (41)	3.43 (16)
Blmbg. U.S. Aggregate Index	-3.06 (74)	11.57 (89)	0.64 (73)	-14.60 (63)	-0.90 (83)	6.98 (76)	10.30 (69)	-1.22 (88)	0.07 (84)	5.19 (79)	2.94 (62)
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	-2.98	12.30	1.06	-14.50	-0.05	7.48	10.41	-0.74	0.62	5.66	3.01
Dodge & Cox Income (DODIX)	-3.33 (88)	13.53 (4)	3.11 (2)	-13.63 (12)	1.96 (6)	7.70 (23)	9.13 (77)	-0.12 (6)	2.57 (3)	7.09 (3)	N/A
Blmbg. U.S. Aggregate Index	-3.06 (50)	11.57 (58)	0.64 (45)	-14.60 (32)	-0.90 (74)	6.98 (44)	10.30 (21)	-1.22 (38)	0.07 (58)	5.19 (43)	2.94 (14)
Intermediate Core Bond Median	-3.07	11.69	0.57	-14.94	-0.21	6.81	9.79	-1.39	0.26	5.02	2.18
Total Global Fixed Income	-0.64 (12)	15.51 (2)	7.27 (15)	-17.60 (32)	4.81 (6)	-4.28 (96)	1.17 (92)	-1.95 (46)	13.36 (1)	0.84 (95)	-7.57 (69)
Total Global Fixed Income Policy	-5.44 (57)	11.02 (67)	1.04 (88)	-22.14 (60)	-3.33 (93)	6.77 (16)	8.13 (16)	-1.54 (32)	-2.69 (91)	9.71 (33)	-3.83 (30)
Global Bond Median	-5.27	12.04	3.08	-21.11	0.53	5.16	5.90	-2.12	1.28	8.46	-5.13
PIMCO Diversified Income (PDIIX)	-0.64 (12)	15.37 (2)	( )	-17.67 (32)	4.81 (6)	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. Global Multiverse	-4.96 (44)	12.24 (46)	2.69 (57)	-20.35 (43)	-0.45 (73)	5.99 (34)	7.54 (27)	-1.32 (27)	-0.56 (75)	9.23 (39)	-3.56 (23)
Global Bond Median	-5.27	12.04	3.08	-21.11	0.53	5.16	5.90	-2.12	1.28	8.46	-5.13

**Total Fund** 

#### As of December 31, 2024

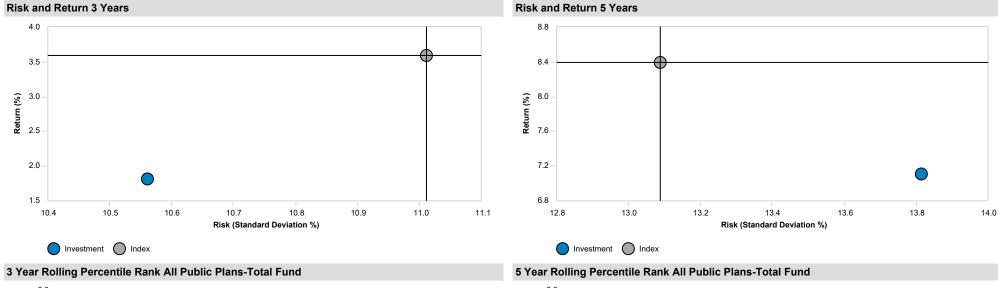
	FYTD	FY2024	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015
Total Private Credit	0.00	N/A									
Morningstar LSTA Leverage Loan Index + 3%	3.03	12.88	16.44	0.34	11.66	4.09	6.20	8.35	8.46	8.63	3.95
Deerpath Capital Advantage VI	0.00	10.50	13.27	N/A							
Morningstar LSTA Leverage Loan Index + 3%	3.03	12.88	16.44	0.34	11.66	4.09	6.20	8.35	8.46	8.63	3.95
PennantPark Credit Opportunities IV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Morningstar LSTA Leverage Loan Index + 3%	3.03	12.88	16.44	0.34	11.66	4.09	6.20	8.35	8.46	8.63	3.95

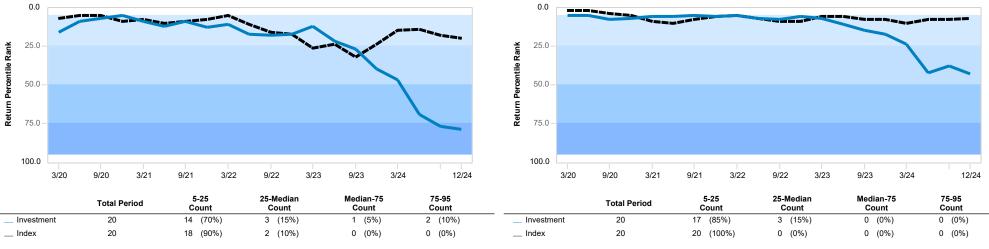
**Total Fund** 

As of December 31, 2024

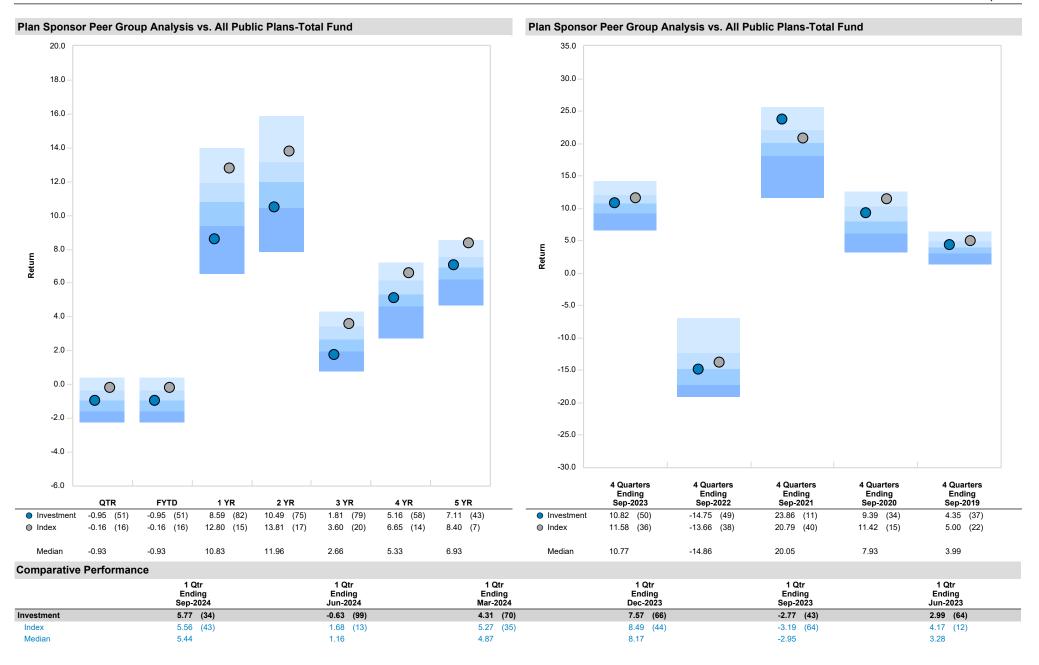
	FYTD	FY2024	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015
Total Real Estate	1.36 (37)	-13.04 (95)	-13.96 (71)	17.96 (64)	15.22 (52)	2.05 (40)	4.97 (78)	8.73 (61)	8.20 (44)	10.30 (78)	16.13 (38)
Total Real Estate Policy	1.03 (55)	-7.75 (63)	-12.40 (48)	22.76 (39)	15.75 (50)	1.74 (43)	6.17 (69)	8.82 (58)	7.81 (51)	10.62 (65)	14.71 (54)
IM U.S. Open End Private Real Estate (SA+CF) Median	1.30	-6.61	-12.47	20.46	15.73	1.62	6.80	8.98	7.83	11.14	15.19
JP Morgan Strategic Property Fund	1.76 (23)	-10.57 (88)	-12.08 (41)	19.17 (62)	14.05 (64)	1.77 (42)	4.01 (89)	7.92 (76)	7.58 (54)	9.67 (83)	14.53 (54)
NCREIF Fund Index-Open End Diversified Core (EW)	1.03 (55)	-7.75 (63)	-12.40 (48)	22.76 (39)	15.75 (50)	1.74 (43)	6.17 (69)	8.82 (58)	7.81 (51)	10.62 (65)	14.71 (54)
IM U.S. Open End Private Real Estate (SA+CF) Median	1.30	-6.61	-12.47	20.46	15.73	1.62	6.80	8.98	7.83	11.14	15.19
JP Morgan Special Situation Property Fund	0.20 (87)	-19.91 (97)	-18.79 (94)	14.84 (77)	18.28 (22)	2.79 (18)	7.57 (30)	10.94 (19)	9.93 (18)	12.10 (31)	20.92 (9)
NCREIF Fund Index-Open End Diversified Core (EW)	1.03 (55)	-7.75 (63)	-12.40 (48)	22.76 (39)	15.75 (50)	1.74 (43)	6.17 (69)	8.82 (58)	7.81 (51)	10.62 (65)	14.71 (54)
IM U.S. Open End Private Real Estate (SA+CF) Median	1.30	-6.61	-12.47	20.46	15.73	1.62	6.80	8.98	7.83	11.14	15.19
Total Alternative Investments	-1.77	19.42	8.20	-14.65	14.09	1.77	5.84	3.76	7.81	8.30	-2.62
JPMorgan Income Builder Fund (JNBZX)	-2.67 (41)	20.03 (67)	7.77 (79)	-14.92 (37)	15.53 (71)	0.69 (58)	N/A	N/A	N/A	N/A	N/A
60% MSCI World Ind(Net TR)/40% Bar US Agg Ind	-1.31 (8)	23.76 (26)	13.16 (28)	-17.42 (47)	16.29 (65)	9.68 (11)	5.54 (17)	6.18 (13)	10.63 (45)	9.08 (38)	-1.79 (11)
Global Allocation Median	-2.94	21.74	10.87	-17.97	17.97	2.56	2.68	3.46	10.27	8.33	-4.66
Crawford Portfolio	-1.35 (9)	22.87 (37)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NASDAQ U.S. Multi-Asset Diversified Income Index	-1.17 (8)	21.92 (49)	8.69 (74)	-5.80 (6)	28.34 (8)	-21.58 (100)	6.36 (13)	3.42 (51)	8.37 (74)	10.60 (19)	-7.82 (81)
Global Allocation Median	-2.94	21.74	10.87	-17.97	17.97	2.56	2.68	3.46	10.27	8.33	-4.66
BlackRock Multi-Asset Income Fund (BIICX)	-1.72 (15)	18.08 (80)	8.21 (77)	-14.39 (35)	11.86 (92)	2.43 (51)	6.24 (14)	2.64 (61)	7.88 (79)	7.39 (63)	N/A
50% MSCI World/50% BC Agg	-1.60 (13)	21.66 (51)	11.02 (48)	-16.91 (43)	13.29 (87)	9.36 (11)	6.40 (13)	4.93 (27)	8.80 (67)	8.47 (48)	-0.98 (8)
Global Allocation Median	-2.94	21.74	10.87	-17.97	17.97	2.56	2.68	3.46	10.27	8.33	-4.66

Historical Statistic	s 3 Years							Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	1.81	10.56	-0.15	85.59	6	101.23	6	Investment	7.11	13.82	0.39	96.28	13	107.10	7
Index	3.60	11.01	0.03	100.00	7	100.00	5	Index	8.40	13.09	0.50	100.00	14	100.00	6





# Strategy Review Total Fund | Total Fund Policy As of December 31, 2024



Total Fund Compliance:										Yes	No	N/A
•										res	NO	N/A
<ol> <li>The total plan return equaled or exceeded the total plan benchmark over the trailing three year period.</li> <li>The total plan return equaled or exceeded the total plan benchmark over the trailing five year period.</li> </ol>											•	
											•	
3. The total plan return ranked within the top 50th percentile of its peer group over the trailing three year period.											v	
4. The total plan return ranked within the top 50th percentile of its peer group over the trailing five year period.										v		
Equity Compliance:										Yes	No	N/A
1. Total domestic equity return equaled or exceeded the benchmark over the trailing three and five year periods.											$\checkmark$	
2. Total domestic equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.											$\checkmark$	
3. The total domestic equity allocation was less than or equal to 60% but greater than or equal to 40% of the total fund value at market	t.									$\checkmark$		
4. Total international equity return equaled or exceeded the benchmark over the trailing three and five year periods.											$\checkmark$	
5. Total international equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.											$\checkmark$	
6. The total international equity allocation was less than or equal to 25% but greater than or equal to 5% of the total fund value at mar	ket.									$\checkmark$		
7. No more than 5% of the market value of a fixed income manager's portfolio was invested in the securities of a single issuer.										$\checkmark$		
8. At a minimum, 80% of the total fixed income portfolio was rated investment grade or higher.										✓		
Fixed Income Compliance:										Yes	No	N/A
1. Total domestic fixed income return equaled or exceed the benchmark over the trailing three and five year periods.										✓		
2. Total domestic fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year period	s.										$\checkmark$	
3. The total domestic fixed income allocation was less than or equal to 35% but greater than or equal to 10% of the total fund value at	marke	et.								$\checkmark$		
4. Total global fixed income return equaled or exceed the benchmark over the trailing three and five year periods.										$\checkmark$		
5. Total global fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.										$\checkmark$		
6. The total global fixed income allocation was less than or equal to 10% of the total fund value at market.										$\checkmark$		
		Newto	n LCV		Polen			DRZ*		Vang	uard	TS**
Manager Compliance:	Ye			Yes	No	N/A	Yes	No	N/A	Yes		N/A
1.Manager outperformed the index over the trailing three and five year periods.	<ul> <li>✓</li> </ul>	/			$\checkmark$				$\checkmark$			$\checkmark$
2.Manager ranked within the top 50th percentile over trailing three and five year periods.	- √	/			$\checkmark$				$\checkmark$			$\checkmark$
3.Less than four consecutive quarters of under performance relative to the index.	- √	/		✓				$\checkmark$				$\checkmark$
4.Three year down-market capture ratio less than the index.	√	/			$\checkmark$				✓			$\checkmark$
	_	Bai	0.0		Intl V	alua*		uroPac	ific		GHA	

Managar Compliance		Baron		DFA	Intl Va	alue*	Eur	roPac	ific		GHA	
Manager Compliance:	Yes	No	N/A	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.		$\checkmark$				$\checkmark$		$\checkmark$		$\checkmark$		
2.Manager ranked within the top 50th percentile over trailing three and five year periods.		$\checkmark$				$\checkmark$		$\checkmark$			$\checkmark$	
3.Less than four consecutive quarters of under performance relative to the index.	✓			✓			$\checkmark$			$\checkmark$		
4.Three year down-market capture ratio less than the index.	✓					$\checkmark$		$\checkmark$			$\checkmark$	

# Compliance Checklist Total Fund

As of December 31, 2024

Manager Compliance:	Dodg	ge & C	ox Inc				JP Morgan SPF			JP Morgan SSI	
Manager Compliance.	Yes	No	N/A	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.	✓			✓				$\checkmark$			$\checkmark$
2. Manager ranked within the top 50th percentile over trailing three and five year periods.	✓			✓				$\checkmark$			$\checkmark$
3.Less than four consecutive quarters of under performance relative to the index.	✓			✓			$\checkmark$				$\checkmark$
4. Three year down-market capture ratio less than the index.	✓			✓				$\checkmark$			$\checkmark$

Managar Compliance	JPM Inc Bldr*	Crawford*	BlackRock MAIF	
Manager Compliance:	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.	$\checkmark$	✓	✓	
2.Manager ranked within the top 50th percentile over trailing three and five year periods.	$\checkmark$	✓	✓	
3.Less than four consecutive quarters of under performance relative to the index.	$\checkmark$	$\checkmark$	✓	
4.Three year down-market capture ratio less than the index.	$\checkmark$	✓	$\checkmark$	

# Fee Analysis **Total Fund** As of December 31, 2024

Estimated Annual Fee (%)* 0.25 0.60 0.04 0.45 1.00 0.43 0.43 0.28 0.49 0.40 0.25	Market Value (\$) 41,141,880 40,126,066 33,487,967 22,382,313 21,991,567 159,129,792 13,541,756 17,388,107 30,929,863 27,346,118	Estimated Annual Fee (\$) 102,855 240,756 13,395 100,720 219,916 677,642 37,917 85,202 123,119	Fee Schedule 0.25 % of Assets 0.60 % of Assets 0.04 % of Assets 0.45 % of Assets 1.00 % of Assets 0.28 % of Assets 0.49 % of Assets
0.60 0.04 0.45 1.00 <b>0.43</b> 0.28 0.49 <b>0.40</b> 0.25	40,126,066 33,487,967 22,382,313 21,991,567 <b>159,129,792</b> 13,541,756 17,388,107 <b>30,929,863</b>	240,756 13,395 100,720 219,916 <b>677,642</b> 37,917 85,202	0.60 % of Assets 0.04 % of Assets 0.45 % of Assets 1.00 % of Assets 0.28 % of Assets
0.04 0.45 1.00 <b>0.43</b> 0.28 0.49 <b>0.40</b> 0.25	33,487,967 22,382,313 21,991,567 <b>159,129,792</b> 13,541,756 17,388,107 <b>30,929,863</b>	13,395 100,720 219,916 <b>677,642</b> 37,917 85,202	0.04 % of Assets 0.45 % of Assets 1.00 % of Assets 0.28 % of Assets
0.04 0.45 1.00 <b>0.43</b> 0.28 0.49 <b>0.40</b> 0.25	33,487,967 22,382,313 21,991,567 <b>159,129,792</b> 13,541,756 17,388,107 <b>30,929,863</b>	13,395 100,720 219,916 <b>677,642</b> 37,917 85,202	0.04 % of Assets 0.45 % of Assets 1.00 % of Assets 0.28 % of Assets
0.45 1.00 <b>0.43</b> 0.28 0.49 <b>0.40</b> 0.25	22,382,313 21,991,567 <b>159,129,792</b> 13,541,756 17,388,107 <b>30,929,863</b>	100,720 219,916 <b>677,642</b> 37,917 85,202	0.45 % of Assets 1.00 % of Assets 0.28 % of Assets
1.00 0.43 0.28 0.49 0.40 0.25	21,991,567 <b>159,129,792</b> 13,541,756 17,388,107 <b>30,929,863</b>	219,916 <b>677,642</b> 37,917 85,202	1.00 % of Assets 0.28 % of Assets
0.43 0.28 0.49 0.40 0.25	<b>159,129,792</b> 13,541,756 17,388,107 <b>30,929,863</b>	677,642 37,917 85,202	0.28 % of Assets
0.49 <b>0.40</b> 0.25	17,388,107 <b>30,929,863</b>	85,202	
0.49 <b>0.40</b> 0.25	17,388,107 <b>30,929,863</b>	85,202	
<b>0.40</b> 0.25	30,929,863		0.49 % of Assets
0.25		123,119	
	27,346,118		
A 1A		67,192	0.25 % of First \$25 M 0.20 % Thereafter
0.43	21,245,098	91,354	0.43 % of Assets
0.33	48,591,217	158,546	
0.75	17,421,535	130,662	0.75 % of Assets
0.75	17,421,535	130,662	
1.00	2,344,321	23,443	1.00 % of Assets
1.50	1,157,870	17,368	1.50 % of Assets
1.17	3,502,191	40,811	1.50 % Of Assets
			1.00 % of Assets
1.60	6,637,319	106,197	1.60 % of Assets
1.15	25,895,760	298,782	
0.52	5 763 480	29 970	0.52 % of Assets
			0.50 % of Assets
	, ,		0.55 % of Assets
	0,010,010	01,000	0.95 % of Assets
	23.331.277	120.714	
	2,061,854		
0.50	310,863,489	1,550,276	
	1.00 1.60 <b>1.15</b> 0.52 0.50 0.55 0.95 <b>0.52</b>	1.60       6,637,319         1.15       25,895,760         0.52       5,763,480         0.50       11,756,984         0.55       5,810,813         0.95       23,331,277         2,061,854	1.60       6,637,319       106,197         1.15       25,895,760       298,782         0.52       5,763,480       29,970         0.50       11,756,984       58,785         0.55       5,810,813       31,959         0.95       23,331,277       120,714

<sup>\*</sup>Excludes incentive fees.

\*\*Manager fees associated with money market or cash accounts are not tracked. \*\*\*Fee information on this page is an illustrative estimate of management fees based on current reported portfolio values. Fee estimates do not reflect actual calculation methodologies or applicable carried interest.

# **Historical Hybrid Composition Total Fund Policy**

As of December 31, 2024

Abcole Multin ConcernationWaget (b)Action LaborWaget (b)27. Waget Application for form50.00Sources50.00Mar.2015Sources50.00Sources50.00Mar.2016Sources50.00Sources50.00Mar.2017SourcesSources50.00Mar.2016Sources50.00Sources50.00Mar.2017Sources50.00Sources50.00Mar.2018Sources50.00Sources50.00MCREF Program50.00Sources50.00SourcesMCREF Program50.00Sources50.00SourcesSources50.00Registrosmice Long50.00SourcesSources50.00Registrosmice Long50.00SourcesSources50.00Registrosmice Long50.00SourcesSources50.00Registrosmice50.00Sources50.00Sources50.00Registrosmice50.00Sources50.00	Total Fund Policy			
ZVan Bash far Todi[0.00Ruerit SCO (void w UKA0.00Mar-2007Birky U.S. Agrospherite Science0.00Maral XOM Inter Xian0.00100Maral XOM Inter Xian0.000.00Maral Xom Inter Xian0.000.00Mara Xom Inter Xian0.000.00Mara Xom Inter Xian0.000.00Mara Xom Inter Xian0.000.00Ma	Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Marcellor         Note:         Note:         Note:         Note:           Ranzellion backs         0.00         PTER Multic Build Backs         0.00           Marcellion backs         0.00         PTER Multic Build Backs         0.00           Marcellion backs         0.00         Marcellion backs         0.00           Marcellion backs         0.0	Oct-1997		Mar-2015	
Marc2007Bing USA Springele locia150Back Mort Lynin Doresist issue i	ZZ -West Palm Beach Fire Total	100.00	Russell 3000 Index	50.00
massesSpaceFFG Work Schement Book IndexSpaceBell Work Lipp A houses100MCBEF Protein Book Schement Book Index Open Eck Downlind Core (EW)100MSCI Eck Transmit Mark100MCBEF Protein Mark Schement Book Index Open Eck Downlind Core (EW)100MSCI Eck Transmit Mark100MCBEF Protein Mark Schement Book Index Open Eck Downlind Core (EW)100Jun 2009Image US Transmit Mark Index Open Eck Downlind Core (EW)100100MSCI Eck Transmit Mark Index Open Eck Downlind Core (EW)100100MSCI Eck Transmit Mark Index Open Eck Downlind Core (EW)100100NCREET Protein Index100MSCI ECK Mark Index100NCREET Protein Index100			MSCI AC World ex USA	10.00
Rueed 2001 looksPFE Work Detained looks 2001 Detained looks0.00MSCI Add Meril profit Detained looks 2001 Detained	Mar-2007		Blmbg. U.S. Aggregate Index	15.00
BitA Section         9.00         CRE Regimes (Section Field Week Body)         9.00           NCRE First Insect Oper Field Week Body (Section Field Week Body)         9.00         9.00           NCRE First Insect Oper Field Week Body (Section Field Week Body)         9.00         9.00           NCRE First Insect Oper Field Week Body (Section Cope Field Week Body)         9.00         9.00           NUMBER Field Week Appendence         9.00         9.00         9.00         9.00           NUMBER Field Week Appendence         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00         9.00		55.00	FTSE World Government Bond Index	5.00
Main Leafe index         1000         Mode in Induce-Opin End Noveling Cong (EW)         1000           Jun-2009         200         200         200           Rases 3000 Index         5.00         300         300         300           Rases 3000 Index         5.00         300         300         300         300           Rases 3000 Index         5.00         300 <t< td=""><td></td><td></td><td>ICE BofA U.S. High Yield Index</td><td>5.00</td></t<>			ICE BofA U.S. High Yield Index	5.00
Dura 2009         EVEN Work (No. Qued Stork (N. Agg)         2.5.0           Trues (No. Qued Stork (N. Agg)         0.00           Revert Stork (N. Agg)         0.00		10.00	NCREIF Fund Index-Open End Diversified Core (EW)	10.00
Jun. 2009         B	NCREIF Property Index	10.00	50% S&P500/50% BC Agg	2.50
Autrast         Science         Apr-2017           MSSI LARS Jacks         20.00         Russel 300 lokes         50.00           MSSI LARS Jacks         10.00         Russel 300 lokes         50.00           FTSE Start Russel 300 lokes         50.00         Bring, U.S. Agangain loke         15.00           FTSE Start Russel 300 lokes         50.00         Bring, U.S. Agangain loke         50.00           Apr-2010         Commont 600 lokes         50.00         10.00           Start Start Russel 300 lokes         50.00         10.00         10.00           Bring, U.S. Aggnegate lokes         50.00         10.00         10.00           Start Start Russel 300 lokes         50.00         10.00         10.00           Russel 300 lokes         50.00         10.00         1			50% MSCI World/50% BC Agg	2.50
Russel 3000 Index600Apr-2017MSIC LAFE Index 10001000Russel 3000 Index00.00MSIC LAFE Index 10001000Russel 3000 Index00.00FTSE Data1000Russel 3000 Index00.00FTSE Share Tell1000Russel 3000 Index00.00Apr-20101000Russel 3000 Index000Apr-20101000State Index 1000 Index000Russel 3000 Index50.005000 Rep Grag Oversides Core (FW)12.00Bineg LA Aggregate Index50.005000 Rep Grag Oversides Core (FW)12.00Bineg LA Aggregate Index50.005000 Rep Grag Oversides Core (FW)12.00Bineg LA Aggregate Index50.005000 Rep Grag Oversides Core (FW)10.00FTSE 3000 Index50.00FTSE States S	Jun-2009		90 Day U.S. Treasury Bill	0.00
Binds QLA Aggregate IndexQ00Anzel 3000 IndexSocial Set Field Work Set VAA0.000NCREI Property Index10.00MSCI AC Work as UAA0.000STES Jakem T-Rait20.00Binds QLS Aggregate Index0.000Apr-2010CEB BAUL Sign Yield Index0.000Russel 3000 Index52.00Social Set		55.00		
MSC jack Endow         Node         Result 3000 Index         40.00           FTRE 3 Month F-Bil         0.00         MSC AC Word av USA         10.00           FTRE 3 Month F-Bil         0.00         TTSE Word Covernment Bond Index         5.00           Apr-2010         CCE BorA U.S. High Yord Bin Soc         0.00           Russell 3000 Index         5.00         0.00           Binds U.S. Aggregate Index         0.00         0.00           Sock AC Word av USA         0.00         0.00           Sock AC Word av USA         0.00         0.00         0.00           Sock AC Word av USA         0.00         0.00         0.00         0.00           PMCC Taf         0.00         0.00         0.00         0.00         0.00           PMCC Taf         Russell 3000 Index         5.00         0.00         0.00         0.00           PMCC Taf         Russell 3000 Index         0.00         NCREE Fragment Foot foot foot foot foot foot foot foo			Apr-2017	
NCREIP Property Index10.00MISCI AC World or USA10.00FTRE 34 dom T-Bil5.00Bindy LLS Aggregate Index5.00FTRE 34 dom T-Bil5.00NCREIF Fruit Index/Cope End Diversified Core (EW)12.00Named U.S. Aggregate Index5.005.00S.00FTRE 34 dom T-Bil5.00S.00S.00S.00FTRE 34 dom T-Bil5.00S.00S.00S.00FTRE 34 dom T-Bil5.00S.00S.00S.00S.00FTRE 34 dom T-Bil5.00S.00 <td>0 00 0</td> <td></td> <td>Russell 3000 Index</td> <td>50.00</td>	0 00 0		Russell 3000 Index	50.00
FTRS 240mb T-Bill         5.00         Binbb U.S. Aggregate Index         15.00           Apr-2010         TSE Void Government Bood Index         0.00           Nexueal 3000 Index         5.00         0.000           Binbb U.S. Aggregate Index         5.00         0.000           Binbb U.S. Aggregate Index         5.00         0.000           NCREIF Progeny Index         5.00         0.000         0.000           NCREIF Progeny Index         5.00         0.000         0.000         0.000           NCREIF Progeny Index         5.00         0.000         0.000         0.000         0.000           TSES 34.0mb T-Bill         5.00         0.00			MSCI AC World ex USA	10.00
Apr-2010         INE World Government Born Index         500           Russell 3000 Index         52 00         NCREIF Fund Index-Coper End Diversified Care (EW)         1200           Binsley US. Agregate Index         52 00         50% MSCI World Sch 20 agr         400           NSCI AC World or USA         100         50% MSCI World Sch 20 agr         400           NSCI AC World or USA         100         50% MSCI World Sch 20 agr         400           NSCI AC World or USA         500         50%			Blmbg. U.S. Aggregate Index	15.00
Resett 300 Index         S2.00         NCREIF Fund Index-Open End Diversified Core (EW)         1.2.00           Binds Lis Aggregate Index         25.00         50% S&PC000/KG EA Agg         4.00           NCREIF Property Index         5.00         90% MSC1 World/60% EC Agg         4.00           NCREIF Property Index         5.00         90% MSC1 World/60% EC Agg         4.00           PIMCO Taf         5.00 <b>Apr.2019</b> 5.00           Jan-2011         Russell 3000 Index         5.00         5.00           Russell 3000 Index         5.00         5.00         5.00           Binds Lis Aggregate Index         5.00         5.00         5.00           String Lis Aggregate Index         5.00         5.00         5.00           Binds Lis Aggregate Index         5.00         FISE World Covernment Bool Index         5.00           String Lis Aggregate Index         5.00         S.00         5.00         5.00           String Lis Aggregate Index         5.00         S.00         5.00         5.00         5.00           String Lis Aggregate Index         5.00         S.00         S.00         5.00         5.00         5.00         5.00         5.00         5.00         S.00         5.00         5.00         5.00		0.00	FTSE World Government Bond Index	5.00
number         Spool         NCREIF Fund Index-Open End Wardled Core (EW)         12.00           MISG LA Words at USA         10.00         50% SSP0000% Re Agg         4.00           MISG LA Words at USA         10.00         50% MSC Word(80% Re Agg         4.00           MISG LA Words at USA         10.00         50% MSC Word(80% Re Agg         4.00           FIRES Anomit T-Bill         500         Apr-2019         500           FIRES Anomit T-Bill         500         MSC LA Word or USA         500           Jan-2011         Russell 3000 Index         500         1500           Russell 3000 Index         50.00         FIRE Word Government Bond Index         500           Bindy U.S. Aggregate Index         50.00         1578 Word Government Bond Index         500           Bindy U.S. Aggregate Index         50.00         1578 Word Government Bond Index         500           Bindy U.S. Aggregate Index         50.00         1578 Word Government Bond Index         500           Bindy U.S. Aggregate Index         50.00         80% SIC Word Index         60.00           RSG LA Word is USA         50.00         80% SIC Word Index         60.00           Bindy U.S. Aggregate Index         50.00         80% SIC Word Index         60.00           SIC Ad Word is USA <td>Apr-2010</td> <td></td> <td>ICE BofA U.S. High Yield Index</td> <td>0.00</td>	Apr-2010		ICE BofA U.S. High Yield Index	0.00
Bindbox         25.00         50% 88P50060% 86.04g         4.00           NCRLAP Work Cu USA         0.00         90 by US. Treasury Bill         0.00           NCRLAP Work Cu USA         5.00         90 by US. Treasury Bill         5.00           Jan.2011         Russell 3000 Index         5.00         5.00           Jan.2011         Russell 3000 Index         5.00         5.00           Jan.2014         S.00         MCRLAP Work SUSA         5.00           String LS. Aggregate Index         5.00         5.00           Bindby US. Aggregate Index         5.00         5.00           String LS. Aggregate Index         5.00		F2 00	NCREIF Fund Index-Open End Diversified Core (EW)	12.00
NSC / A Work are USA         10.00         50% MSC / Work d80% BC Agg         4.00           NCREIP Frequery Index         500         <			50% S&P500/50% BC Agg	4.00
NCREIP Property Index         5.00         Opp US. Treasury Bill         0.00           PINCO Tarl         3.00         Arr-2019         Russell 3000 Index         50.00           Jan-2011         Russell 3000 Index         S0.00         FTSE World Government Bood Index         50.00           Binds, US. Aggregate Index         50.00         FTSE World Government Bood Index         50.00           NCREIP Fragmety Index         50.00         FTSE World Government Bood Index         50.00           NCREIP Fragmety Index         50.00         OPM MSCI AC World ex USA         0.00           NCREIP Fragmety Index         50.00         OPM MSCI AC World ex USA and the Ac Aggregate Index         60.00           NCREIP Fragmety Index         50.00         OPM MSCI AC World Government Bood Index         60.00           NCREIP Fragmety Index         50.00         OPM MSCI AC World Structures Bood         60.00           Russell 3000 Index         50.00         OPM MSCI AC World Structures Bood         60.00           Russell 3000 Index         50.00         OPM MSCI AC World Structures Bood         60.00           Russell 3000 Index         40.00         CE-2023         CE           Russell 3000 Index         50.00         DEInde, U.S. Aggregate Index         60.00           FTSE World Government Bood Ind			50% MSCI World/50% BC Agg	4.00
FTRE SI Avain T-Bill         500         Apr-2019         Russell 3000 Index         5000           Jan-2011         MSCI AC World ax USA         1000         1500           Russell 3000 Index         5000         FTRE Voord Gevernment Bord Index         500           Russell 3000 Index         5000         FTRE Voord Gevernment Bord Index         500           RUSCI AC World ax USA         1000         CCE Bird AL S. High Yield Index         000           RVSCI AC World ax USA         500         00% MSCI World Robes-Open End Diversified Core (EW)         2200           RVSCI AC World ax USA         500         00% MSCI World Robes-Open End Diversified Core (EW)         2200           RVSCI AC World ax USA         500         00% MSCI World Robes-Open End Diversified Core (EW)         200           RVSCI AC World ax USA         500         00% MSCI World Robes-Open End Diversified Core (EW)         200           RVSCI AC World ax USA         600         MSCI AC World ax USA         600           RVSCI AC World ax USA         600         MSCI AC World ax USA         600           RVSCI AC World ax USA         600         MSCI AC World ax USA         600           RVSCI AC World ax USA         600         MSCI AC World ax USA         600           RVSCI AC World ax USA         600 <t< td=""><td></td><td></td><td>90 Day U.S. Treasury Bill</td><td>0.00</td></t<>			90 Day U.S. Treasury Bill	0.00
PikkCo Tail         Apr: 2019         Russell 3000 Index         So.00           Jan-2011         Billing, U.S., Agringate Index         5.00           Russell 3000 Index         50.00         ETSE World Government Bond Index         5.00           NSCI AC World ex USA         10.00         CE Bah U.S. High yrelati Index         5.00           NSCI AC World ex USA         10.00         CE Bah U.S. High yrelati Index         5.00           NSCI AC World ex USA         10.00         NCREIF Frogen Index-Open End Diversified Core (EW)         12.00           NSCI AC World ex USA         5.00         60% MSCI World MS Bac USA gg Ind         4.00           Standay BTOP S0         5.00         50% MSCI World MS Bac LSA gg Ind         4.00           Apr: 2012         Cet-2023         4.00         4.00           Russell 3000 Index         4.60         Russell 3000 Index         4.00           MSCI AC World ex USA         10.00         Billing, U.S. Aggringe Index         10.00           Barchay BTOP S0         5.00         Billing, U.S. Aggringe Index         10.00           Barchay BTOP S0         10.00         Billing, U.S. Aggringe Index         10.00           Barchay BTOP S0         EAG U.S. High Yee Index         5.00         5.00           FTSE World Government Bond Index				
Jan-2011         Russell 3000 Index         50.00           Russell 3000 Index         50.00         Blmbg U.S. Aggregate Index         50.00           Blmbg U.S. Aggregate Index         25.00         ICE Bold U.S. High Yield Index         0.00           NCRLE Property Index         5.00         0.00         0.00           NCREIE Property Index         5.00         0.00         0.00           Russell 3000 Index         5.00         0.00         0.00           NCREIE Property Index         5.00         0.00         0.00           Barcay BTOP 50         5.00         0.00 HUKA TRI/OK BC Agg         4.00           Barcay BTOP 50         5.00         0.00         0.00         0.00           SIGL AC World Ku SLA         10.00         Russell 3000 Index         40.00         0.00           Barcay BTOP 50         5.00         0.00         0.00         0.00         0.00           SIGL AC World Ku SLA         10.00         Russell 3000 Index         40.00         1.00.0         0.00           Barcay BTOP 50         5.00         MSCI AC World ex USA         10.00         1.00.0         1.00.0           Barcay BTOP 50         5.00         MSCI AC World ex USA         1.00.0         1.00.0         1.00.0 <t< td=""><td></td><td></td><td>Apr-2019</td><td></td></t<>			Apr-2019	
Jan-2011         MSCI AC World ex USA         10.00           Russell 3000 Index         50.00         Binbs, U.S. Aggregate Index         50.0           MSCI AC World ex USA         10.00         ICE BOAL U.S. High Yield Index         0.00           NCREIF Fragery Index         5.00         60% MSCI World Ind(Net TVIJA0% Bar US Aggi Ind         4.00           NCREIF Fragery Index         5.00         60% MSCI World Ind(Net TVIJA0% Bar US Aggi Ind         4.00           Barcha JT DEBII         5.00         60% MSCI World Ind(Net TVIJA0% Bar US Aggi Ind         4.00           Barcha JT DEBII         5.00         60% MSCI World Ind(Net TVIJA0% Bar US Aggi Ind         4.00           Barcha JT DEBII         5.00         60% MSCI World Ind(Net TVIJA0% Bar US Aggi Ind         4.00           Barcha JT DEBII         5.00         800 JU U.S. Treasury BiI         0.00           Barcha JT DEBII         5.00         Binbag U.S. Aggregate Index         4.00           Barcha JT DEBII         5.00         Binbag U.S. Aggregate Index         4.00           Binbag U.S. Aggregate Index         5.00         Binbag U.S. Aggregate Index         4.00           Stord Kord ex USA         5.00         Binbag U.S. Aggregate Index         4.00           Stord Kord ex USA         5.00         CEB Kold Govermment Bond Index	FINICO Tali	3:00	Russell 3000 Index	50.00
Binbg US Aggregate Index         15.00           Binbg US Aggregate Index         500           NGCI AC World ex USA         500           NCREIF Property Index         500           Barday BTOP S0         500           Apr-2012         Cot-2023           Russell 3000 Index         4600           MSCI AC World ex USA         1000           Bindby US Aggregate Index         400           Bindby US Aggregate Index         400           Bindby US Aggregate Index         4000           MSCI AC World ex USA         1000           Bindby US Aggregate Index         4000           Bindby US Aggregate Index         500           FTSE World Government Bond Index         500           MSCI AC World ex USA         000           IPMCO DISCO II         400           NCREIF Frond Index-Open	lon 0044			
Russell 3000 Index         5000         FTSE World Government Bond Index         5.00           MSCI AC World ex USA         10.00         NCREIF Fund Index.Open End Diversified Core (EW)         12.00           MSCI AC World ex USA         5.00         60% MSCI World Index.Open End Diversified Core (EW)         12.00           FTSE 3 Month T-Bill         5.00         60% MSCI World Index.Open End Diversified Core (EW)         4.00           Barclay BTOP 50         5.00         60% MSCI World Index Copen End Diversified Core (EW)         0.00           Apr-2012         C         0.00         90 Duy U.S. Treasury Bill         0.00           Russell 3000 Index         46.00         Russell 3000 Index         49.00           Barclay BTOP 50         5.00         Bindby U.S. Aggregate Index         10.00           Barclay BTOP 50         5.00         Bindby U.S. Aggregate Index         10.00           Barclay BTOP 50         5.00         Bindby U.S. Aggregate Index         10.00           FTSE World Government Bond Index         5.00         Bindby U.S. Aggregate Index         5.00           FTSE World Government Bond Index         5.00         Bindby U.S. Aggregate Index         5.00           FTSE World Government Bond Index         5.00         CE EofA U.S. High Yield Index         5.00           FTSE Worl				15.00
Binding, U.S. Aggregate Index         25,00         ICE Bork, U.S. High Yinkit Index         0.00           NCREIF Property Index         5,00         NCREIF Fund Index-Open End Diversified Core (EW)         12,00           FTSE 3 Month T-Bill         5,00         60% MSCI World/80% BC Agg         4,00           Barday BTOP 50         5,00         50% MSCI World/80% BC Agg         4,00           Apr-2012         Cet-2023         0           Russall 3000 Index         46,00         MSCI AC World ex USA         10,00           MSCI AC World ex USA         10,00         MSCI AC World ex USA         10,00           Barday BTOP 50         5,00         Bindb US. Aggregate Index         40,00           Barday BTOP 50         5,00         Bindb US. Aggregate Index         40,00           Bindb US. Aggregate Index         2,00         FTSE World Government Bond Index         5,00           PIMCO DISCO II         4,00         ICE Bork US. High Yinkit Index         6,00           PIMCO DISCO II         4,00         ICE Bork US. High Yinkit Index         6,00           PIMCO DISCO II         4,00         ICE Bork US. High Yinkit Index         6,00           PIMCO DISCO II         6,00         Grift Month THUA/MS Bar US Agg Ind         2,38           Dim2OUS Aggregate Index				
NSCA Wondex USA         10.00         NCREIF Fund Index-Open End Diversified Core (EW)         12.00           FTSE 3 Month T-Bill         5.00         60% MSCI World/SN B& Agg Ind         4.00           Barclay BTOP 50         5.00         50% MSCI World/SN B& CAgg         4.00           Apr-2012         Ctreasury Bill         0.00           Russell 3000 Index         46.00         90 Day U.S. Treasury Bill         0.00           Barclay BTOP 50         5.00         Oct-2023         40.00           Barclay BTOP 50         5.00         MSCI AC World ex USA         10.00           Barclay BTOP 50         5.00         Binbg. U.S. Aggregate Index         14.00           Barclay BTOP 50         5.00         Binbg. U.S. Aggregate Index         5.00           Binbg. U.S. Aggregate Index         5.00         Binbg. U.S. Aggregate Index         5.00           PIMC OD ISCO II         4.00         NCREIF Fund Index-Open End Diversified Core (EW)         12.00           FTSE 3 Month T-Bill         5.00         ICE Berd. U.S. High T yield Index         5.00           FTSE 3 Month T-Bill         5.00         NCREIF Fund Index-Open End Diversified Core (EW)         2.38           Jun-2014         Cambridge Associates Private Equily Index         3.00           Russell 3000 Index				
NCREIP Property Index         5.00         60% MSCI World Ind[Net TR;N40% Bar US Agg Ind         4.00           Barclay BTOP 50         500         90 by US. Treasury Bill         0.00           Apr-2012         Cott-2023         000         49.00           Barclay BTOP 50         500         00 by US. Treasury Bill         0.00           MSCI AC World ex USA         60.00         Russell 3000 Index         49.00           Barclay BTOP 50         5.00         MSCI AC World ex USA         49.00           Barclay BTOP 50         5.00         MSCI AC World ex USA         40.00           Birdby JUS. Aggregate Index         10.00         Birdby US. Aggregate Index         10.00           Birdby CO DISCO II         4.00         KSCI AC World Government Bond Index         5.00           FTSE World Government Bond Index         5.00         KSCI AC World Ex USA         2.38           FTSE S Morld Covernment Bond Index         5.00         60% MSCI World Ind[Net TR]/40% Bar US Agg Ind         2.38           FTSE S Morld Covernment Bond Index         5.00         60% MSCI World Ind[Net TR]/40% Bar US Agg Ind         2.38           Jun-2014         Kasell 3000 Index         50.00         90 Day US. Treasury Bill         80           MSCI AC World ex USA         10.00         80 Day US. Treasury Bi				12.00
F152 3 Month 1-Bill       5.00       50% MSCI World/50% BC Agg       4.00         Barclay BTOP 50       90 Day U.S. Treasury Bill       0.00         Apr-2012       Oct-2023       10.00         MSCI AC World & USA       10.00       Russell 3000 Index       49.00         Barclay BTOP 50       5.00       SOL AC World ex USA       10.00         Barclay BTOP 50       5.00       MSCI AC World ex USA       10.00         Barclay BTOP 50       5.00       MSCI AC World ex USA       10.00         Barclay BTOP 50       5.00       MSCI AC World ex USA       10.00         Barclay BTOP 50       5.00       MSCI AC World ex USA       14.00         Barclay BTOP 50       5.00       FTSE World Government Bond Index       5.00         VIMCO DISCO II       4.00       NCREIF FUNd Index-Open End Diversified Core (EW)       12.00         VIMCREI FProperty Index       5.00       60% MSCI World/50% BC Agg       2.38         Jun-2014       NASDAQ U.S. Multi-Asset Diversified Income Index       4.38       38         Russell 3000 Index       5.00       0Day U.S. Treasury Bill       0.00         MSCI AC World ax USA       10.00       0Day U.S. Treasury Bill       0.00         Jun-2014       Cambridge Associates Private Equity Index				4.00
Barcay B104's0         90 Day U.S. Treasury Bill         0.00           Apr-2012         Oct-2023           Russell 3000 Index         46.00         Russell 3000 Index         49.00           MSCI AC World ex USA         10.00         MSCI AC World ex USA         10.00           Bindsy LDS. Aggregate Index         20.00         MSCI AC World ex USA         10.00           Bindsy LDS. Aggregate Index         20.00         MSCI AC World ex USA         10.00           Bindsy LDS. Aggregate Index         20.00         Bindsy LDS. Aggregate Index         0.00           FTSE World Government Bond Index         5.00         ICE Bord US. High Yield Index         0.00           NCREIF Property Index         5.00         NCREIF Fund Index-Open End Diversified Core (EW)         2.38           Jun-2014         60% MSCI World Indivient TRyI40% Bar US Aggi Cag         2.38           Russell 3000 Index         5.00         60% MSCI World Indivient Index         4.38           Russell 3000 Index         5.00         90 Day U.S. Treasury Bill         0.00           Binds, U.S. Aggregate Index         5.00         90 Day U.S. Treasury Bill         0.00           SCI AC World ex USA         10.00         90 Day U.S. Treasury Bill         0.00           Binds, U.S. Aggregate Index         5.00				4.00
Nussell 3000 Index46.00UCH2023MSCI AC World ex USA10.00Russell 3000 Index USA49.00Barclay BTOP 505.00MSCI AC World ex USA10.00Bimbg. U.S. Aggregate Index14.0010.0010.00FTSE World Government Bond Index5.00FTSE World Government Bond Index0.00PIMCO DISCO II4.00NCREIF Fund Index-Open End Diversified Core (EW)12.00NCREIF Properly Index5.0060% MSCI World (Net TR)/40% Bar US Agg Ind2.38Som har T-Bill5.0060% MSCI World/50% BC Agg3.8Sussell 3000 Index5.0060% MSCI World/50% BC Agg3.8Sussell 3000 Index5.000.003.8Sussell 3000 Index5.005.005.00Sussell 3000 Index5.005.00<	Barclay BTOP 50	5.00	•••	0.00
Nussell 3000 Index46.00UCH2023MSCI AC World ex USA10.00Russell 3000 Index USA49.00Barclay BTOP 505.00MSCI AC World ex USA10.00Bimbg. U.S. Aggregate Index14.0010.0010.00FTSE World Government Bond Index5.00FTSE World Government Bond Index0.00PIMCO DISCO II4.00NCREIF Fund Index-Open End Diversified Core (EW)12.00NCREIF Properly Index5.0060% MSCI World (Net TR)/40% Bar US Agg Ind2.38Som har T-Bill5.0060% MSCI World/50% BC Agg3.8Sussell 3000 Index5.0060% MSCI World/50% BC Agg3.8Sussell 3000 Index5.000.003.8Sussell 3000 Index5.005.005.00Sussell 3000 Index5.005.00<	Apr-2012			
MSCI AC World ex USA         10.00         Russell 3000 Index         49.00           Barclay BTOP 50         5.00         MSCI AC World ex USA         10.00           Binbg, U.S. Aggregate Index         10.00         10.00           Binbg, U.S. Aggregate Index         5.00         5.00           FTSE World Government Bond Index         5.00         FTSE World Government Bond Index         5.00           PIMCO DISCO II         4.00         ICE BorA U.S. High Yield Index         0.00           NCREIF Property Index         5.00         ICE BorA U.S. High Yield Index         0.00           NCREIF Property Index         5.00         ICE BorA U.S. High Yield Index         0.00           NCREIF Property Index         5.00         ICE BorA U.S. High Yield Index         0.00           FTSE 3 Month T-Bill         5.00         ICE BorA U.S. Multi-Asset Diversified Core (EW)         2.38           Aussell 3000 Index         50.00         Solow MSCI World/50% BC Agg         0.00           MSCI AC World ex USA         0.00         9.00         0.00           MSCI AC World ex USA         0.00         0.00         0.00           MSCI AC World ex USA         0.00         0.00         0.00           MSCI AC World ex USA         5.00         0.00         0.00		46.00	Oct-2023	
Barclay BTOP 50         5.00         MSCI AC World ex USA         10.00           Bimbg, U.S. Aggregate Index         20.00         Bimbg, U.S. Aggregate Index         14.00           FTSE World Government Bond Index         5.00         5.00         5.00           PIMCO DISCO II         4.00         ICE BofA U.S. High Yield Index         0.00           NCREIF Property Index         5.00         60% MSCI World Ind(ex-Open End Diversified Core (EW)         12.00           FTSE 3 Month T-Bill         5.00         60% MSCI World Ind(ex-Open End Diversified Income Index         2.38           Jun-2014         NASDAQ U.S. Multi-Asset Diversified Income Index         4.38         3.00           MSCI AC World ex USA         10.00         0.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00         0.00         0.00           MSCI AC World ex USA         5.00         0.00         0.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00         0.00         0.00           MSCI AC World ex USA         5.00         0.00         0.00         0.00         0.00           MSCI AC World ex USA         5.00         0.00         0.00         0.00         0.00			Russell 3000 Index	49.00
Binds, U.S. Aggregate Index         14.00           FTSE World Government Bond Index         5.00         FTSE World Government Bond Index         5.00           PIMCO DISCO II         4.00         ICE BofA U.S. High Yield Index         0.00           NCREIF Property Index         5.00         60% MSCI World Index         2.38           FTSE 3 Month T-Bill         5.00         60% MSCI World/50% BC Agg         2.38           Jun-2014         NASDAQ U.S. Multi-Asset Diversified Income Index         4.38           Russell 3000 Index         50.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00           FTSE World Government Bond Index         5.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00           MSCI AC World ex USA         10.00         0.00         0.00           FTSE World Government Bond Index         5.00         0.00         0.00           FTSE World Government Bond Index         5.00         0.00         0.00           FTRE + 2%         5.00         5.00			MSCI AC World ex USA	10.00
FTSE World Government Bond Index5.00FTSE World Government Bond Index5.00PIMCO DISCO II4.00ICE BofA U.S. High Yield Index0.00NCREIF Property Index5.00NCREIF Fund Index-Open End Diversified Core (EW)12.00NCREIF Fund Index5.0060% MSCI World Ind(Net TR)/40% Bar US Agg Ind2.38Jun-20145.0050.0050.00Russell 3000 Index50.0000 Agg regate Index0.00MSCI AC World ex USA50.000.000.00Bing, U.S. Aggregate Index5.000.000.00FTSE World Government Bond Index5.000.000.00NCREIF Fund Index-Open End Diversified Core (EW)10.000.00TPR + 2%5.005.005.00	•			
PIMCO DISCO II         4.00         ICE BofA U.S. High Yield Index         0.00           NCREIF Property Index         5.00         NCREIF Fund Index-Open End Diversified Core (EW)         12.00           FTSE 3 Month T-Bill         5.00         60% MSCI World Ind(Net TR)/40% Bar US Agg Ind         2.38           Jun-2014         50% MSCI World/50% BC Agg         2.38         38           Russell 3000 Index         50.00         0.00         4.38           Russell 3000 Index         50.00         90 Day U.S. Treasury Bill         0.00           MSCI AC World Ex USA         10.00         0.00         10.00           FTSE World Government Bond Index         5.00         90 Day U.S. Treasury Bill         10.00           NCREIF Fund Index-Open End Diversified Core (EW)         10.00         10.00         10.00           TPR + 2%         5.00         5.00         10.00         10.00			FTSE World Government Bond Index	
NCREIF Property Index         5.00         NCREIF Fund Index-Open End Diversified Core (EW)         12.00           FTSE 3 Month T-Bill         5.00         60% MSCI World Ind(Net TR)/40% Bar US Agg Ind         2.38           Jun-2014         50% MSCI World/50% BC Qu S. Multi-Asset Diversified Income Index         4.38           Russell 3000 Index         50.00         90 Day U.S. Treasury Bill         0.00           MSCI AC World ex USA         10.00         0.00           Bindbg. U.S. Aggregate Index         20.00         0.00           FTSE Your Index-Open End Diversified Core (EW)         10.00         10.00           PTR + 2%         5.00         5.00         5.00			5	
FTSE 3 Month T-Bill5.0060% MSCI World Ind(Net TR)/40% Bar US Agg Ind2.3850% MSCI World/50% BC Agg2.38Jun-2014NASDAQ U.S. Multi-Asset Diversified Income Index4.38Russell 3000 Index50.000.08MSCI AC World ex USA10.000.00Binbg. U.S. Aggregate Index20.000.00FTSE World Government Bond Index5.005.00NCREIF Fund Index-Open End Diversified Core (EW)10.0010.00TPR + 2%5.005.00				
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Jun-2014Cambridge Associates Private Equity Index0.88Russell 3000 Index50.0090 Day U.S. Treasury Bill0.00MSCI AC World ex USA10.0077Bimbg. U.S. Aggregate Index20.0077FTSE World Government Bond Index5.0077NCREIF Fund Index-Open End Diversified Core (EW)10.0010.001TPR + 2%5.0010.001				
Russell 3000 Index     50.00     90 Day U.S. Treasury Bill     0.00       MSCI AC World ex USA     10.00     0.00       Binbg. U.S. Aggregate Index     20.00       FTSE World Government Bond Index     5.00       NCREIF Fund Index-Open End Diversified Core (EW)     10.00       TPR + 2%     5.00	.lun-2014			
MSCI AC World ex USA     10.00       Bimbg. U.S. Aggregate Index     20.00       FTSE World Government Bond Index     5.00       NCREIF Fund Index-Open End Diversified Core (EW)     10.00       TPR + 2%     5.00		50.00	• • • •	
Bimbg. U.S. Aggregate Index20.00FTSE World Government Bond Index5.00NCREIF Fund Index-Open End Diversified Core (EW)10.00TPR + 2%5.00			90 Day U.S. Treasury Bill	0.00
FTSE World Government Bond Index     5.00       NCREIF Fund Index-Open End Diversified Core (EW)     10.00       TPR + 2%     5.00				
NCREIF Fund Index-Open End Diversified Core (EW)         10.00           TPR + 2%         5.00				
TPR + 2% 5.00				
		0.00		

Total Equity Policy		Total Fixed Income Policy	
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Oct-1997		Oct-1997	
ZZ- West Palm Beach Fire Total Equity	100.00	BofA Merrill Lynch Domestic Master Bond Index	100.00
Jan-2000		Jan-2006	
Russell 3000 Index	85.00	BofA Merrill Lynch Domestic Master Bond Index	100.00
MSCI EAFE Index	15.00		
		Jun-2009	100.00
Apr-2010	04.00	Blmbg. U.S. Aggregate Index	100.00
Russell 3000 Index	84.00	Jun-2014	
MSCI AC World ex USA	16.00	Blmbg. U.S. Aggregate Index	83.00
Jan-2011		FTSE World Government Bond Index	17.00
Russell 3000 Index	83.00		11.00
MSCI AC World ex USA	17.00	Total Domestic Fixed Income Policy	
		Allocation Mandate	Weight (%)
Total Domostic Equity Dollar		Jun-2010	
Total Domestic Equity Policy	$M_{2} = 100$	Blmbg. U.S. Aggregate Index	100.00
Allocation Mandate	Weight (%)		
Oct-1997 Russell 3000 Index	100.00	Total Global Fixed Income Policy	
	100.00	Allocation Mandate	Weight (%)
		Jul-2010	
Total International Equity Policy		FTSE World Government Bond Index	100.00
Allocation Mandate	Weight (%)		
Oct-1998		Total Real Estate Policy	
MSCI EAFE Index	100.00	Allocation Mandate	Weight (%)
A		Jan-2007	
Apr-2010	100.00	NCREIF Property Index	100.00
MSCI AC World ex USA	100.00		
		Jun-2014	
		NCREIF Fund Index-Open End Diversified Core (EW)	100.00
Vanguard Total Stock Market Index			
Allocation Mandate	Weight (%)		
Jun-2003			
MSCI US Broad Market Index	100.00		
Jun-2013			
CRSP U.S. Total Market TR Index	100.00		

- All returns prior to 3/31/2008 provided by Merrill Lynch.
- Under current and prior structure, fees and disbursements, being paid out of a separate account at The Pension Resource Center.
- Prior data provided by Merrill Lynch was Gross Returns only.
- Mutual Fund Returns are net of Fees.
- EuroPacific is showing A Share returns since they have a longer performance history. The plan is actually invested in R6 share class.
- Neither AndCo, nor any covered associates have made political contributions to any official associated with the West Palm Beach Firefighters' Pension Fund in excess of the permitted amount.

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.

Mariner Institutional compiled this report for the sole use of the client for which it was prepared. Mariner Institutional is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. Mariner Institutional uses the results from this evaluation to make observations and recommendations to the client.

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Methodology for this Award: For the 2022 Greenwich Quality Award for Overall U.S. Investment Consulting – Midsize Consultants – Between February and November 2022, Coalition Greenwich conducted interviews with 727 individuals from 590 of the largest tax-exempt funds in the United States. These U.S.-based institutional investors are corporate and union funds, public funds, and endowment and foundation funds, with either pension or investment pool assets greater than \$150 million. Study participants were asked to provide quantitative and qualitative evaluations of their asset management and investment consulting providers, including qualitative assessments of those firms soliciting their business and detailed information on important market trends.

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