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# West Palm Beach Firefighters' Pension Fund

Investment Performance Review  
Period Ending September 30, 2024

MARINER



## **3rd Quarter 2024 Market Environment**

## **The Economy**

- The US Federal Reserve (the Fed) shifted its policy stance during the quarter and cut the fed funds rate by 0.50% for the first time in four years to a range of 4.75%-5.00%. Capital markets celebrated the move after struggling to predict the pace and timing of future Fed actions earlier in the year. In its press release for the September meeting, the Fed continued to assert its stance on fighting inflation, while also inserting that the committee is strongly committed to “supporting maximum employment.” Fed Chairman Jerome Powell signaled to the markets that the expectation is for the committee to shift to a more expansionary policy moving forward.
- The Fed’s September “Dot Plot” showed revised expectations from a single 0.25% rate cut for the remainder of 2024 to a low-end estimate of a 4.25%-4.50% range. The dots also showed the target rate range decreasing below 4.00% in 2025.
- Growth in the US labor market continued in the third quarter, albeit at a slower pace than previous quarters with growth coming in at 527,000 new jobs. However, the strength of the labor market during the previous year was undermined by the large downward revision (818,000) on the trailing one-year statistic.

## **Equity (Domestic and International)**

- US equity results were sharply higher for the quarter, which also saw a significant broadening of returns across both the style and capitalization spectrum. The S&P 500 Index rose a solid 5.9% for the quarter and the small-cap Russell 2000 Index posted a higher gain of 9.3%. This quarter not only saw a significant rotation from large-cap to small-cap stocks but also from growth stocks to value stocks as value indexes outpaced their growth counterparts.
- Large-cap equity benchmarks continue to represent top-heavy concentration among a limited number of stocks. As of quarter end, the top 10 stocks in the S&P 500 Index made up nearly 35% of the index.
- International stocks continued delivering positive results during the third quarter and US Dollar (USD) denominated results were further helped by a weakening USD. USD performance of international stocks surged past local currency (LCL) returns in most regions for the quarter, albeit to varying degrees.

## **Fixed Income**

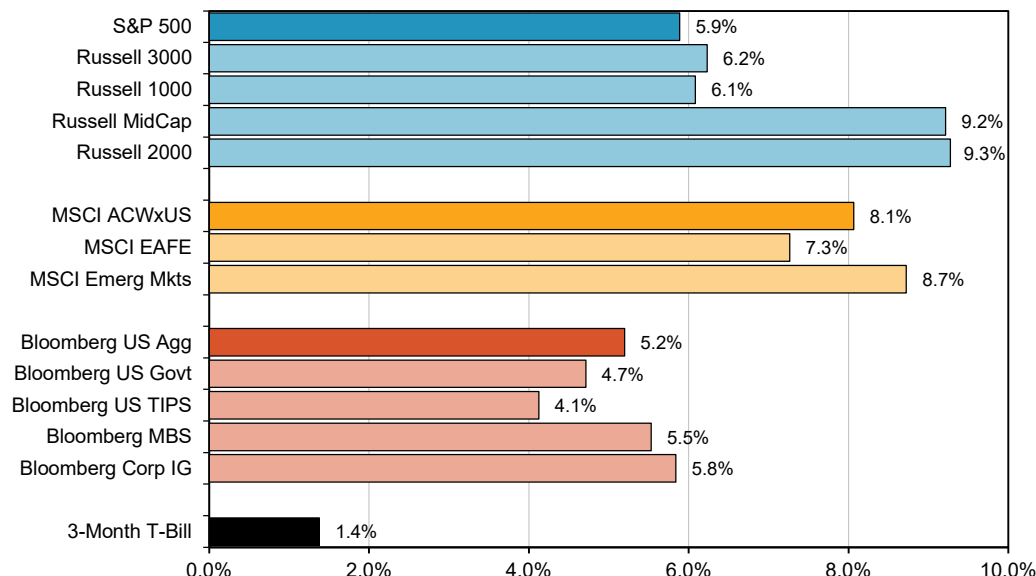
- Fixed-income markets traded higher during the quarter on the back of the Fed’s policy shift as Treasury yields fell. The inverse relationship between prices and yields resulted in the Bloomberg US Aggregate Bond Index advancing 5.2%. The yield on the bellwether 10-year Treasury declined by 0.55% during the quarter.
- High-yield bonds slightly outperformed the Bloomberg US Aggregate Bond Index for the quarter, largely due to higher coupons and partly due to narrowing option-adjusted spreads (OAS) for the Bloomberg US High-Yield index.
- Global bonds outpaced the domestic benchmarks, with the Bloomberg Global Aggregate ex-US returning 8.5% for the quarter in USD terms. Global bond performance was boosted by a weakening USD during the quarter.

## **Market Themes**

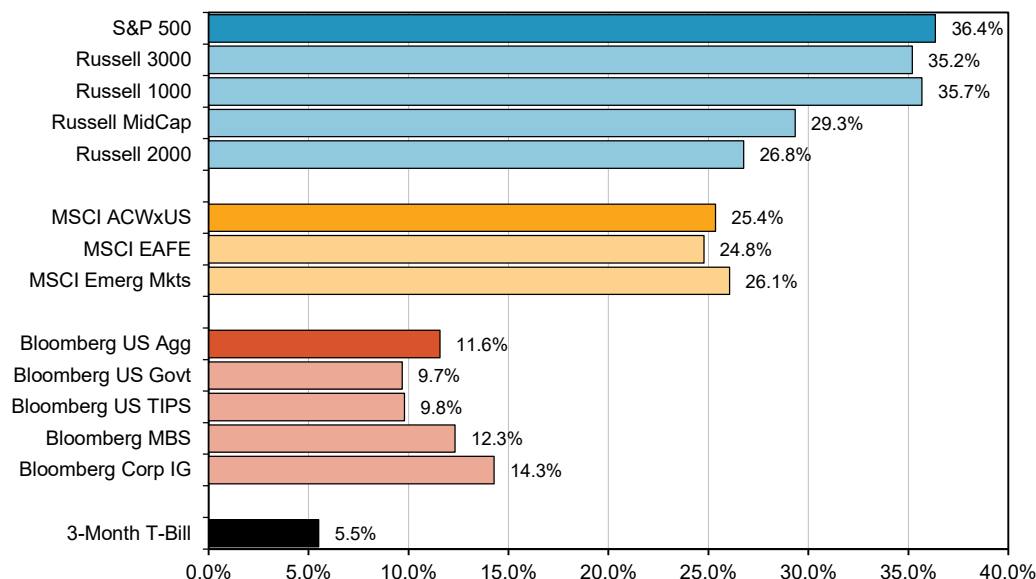
- Divergent monetary policies across regions led to increased volatility during the quarter. Most developed markets across the world kept rates at elevated levels as central banks continued their tight monetary stances. However, the Japanese Central Bank chose to raise its policy rates at the end of July, shortly before the Fed cut its policy rate in September. This divergence led to an unwinding of the systematic Yen carry trade, where investors quickly took action to cover short yen positions by taking down positions in various higher growth investments, including US equities. This subsequently led to a sharp decline in equity markets around the world in early August.
- Ongoing military conflicts in Ukraine and the Middle East, coupled with global economic uncertainty, continue to act as headwinds for international market results but they received a boost from the weakening USD. New escalations to existing conflicts have resulted in anticipated and unanticipated consequences. Domestic Defense companies have tended to trade higher on the news of developing escalations abroad while similarly putting upward pressure on oil prices and downward pressure on energy stocks as a result.

- Performance in the domestic equity markets was broadly positive after markets received a boost from the Fed's first rate cut in four years. Small-cap stocks outperformed their large-cap counterparts, with the Russell 2000 returning 9.3% versus a gain of 5.9% for the S&P 500. The all-cap Russell 3000, which is heavily weighted in its large-cap names, lagged the Russell 2000 Index by 3.1%, returning 6.2% for the quarter.
- International developed market equities realized similar results with both the MSCI ACWI ex US and MSCI EAFE indexes gaining during the quarter. The MSCI ACWI ex US Index posted a strong 8.1% for the quarter, while the MSCI EAFE Index returned a slightly lower 7.3%, both in USD terms. International emerging market (EM) equities were the best performing foreign segment, gaining 8.7% in for the quarter and outpacing their developed market counterparts. Much of the solid USD performance for EM can be attributed to the Far East index countries, particularly China, Taiwan, and Singapore.
- Broad fixed-income indexes added to their year-to-date results during the quarter, thanks in large part to the Fed's 0.50% rate cut on September 18th. The Bloomberg US Aggregate Index returned a solid 5.2% for the quarter. Investment-grade corporate bonds topped other US fixed-income sectors for the quarter, finishing with a return of 5.8%. The TIPS market, which is not part of the Aggregate Index, was the worst-performing bond benchmark during the quarter with a return of 4.1%, lagging the rest of the domestic fixed-income indexes.
- Large-cap US equity indexes built on their already massive returns over the trailing one-year period. The S&P 500 Index has gained 36.4%, while the Russell 1000 Index returned 35.7%. The weakest performing capitalization range of domestic equities for the year has been the small-cap Russell 2000 Index, which still posted a double-digit return of 26.8% over the last 12 months.
- Domestic bond indexes also produced strong, positive results for the year. Investment-grade corporate bonds continued to lead, returning an impressive 14.3% for the trailing one-year. The government bond index lagged for the year, but still returned a solid 9.7%.
- International markets also showcased healthy performance for the trailing one-year period. The MSCI EM Index was the best international performer, returning 26.1%, while the MSCI EAFE and MSCI ACWI ex US indexes posted returns of 24.8% and 25.4%, respectively.

### Quarter Performance



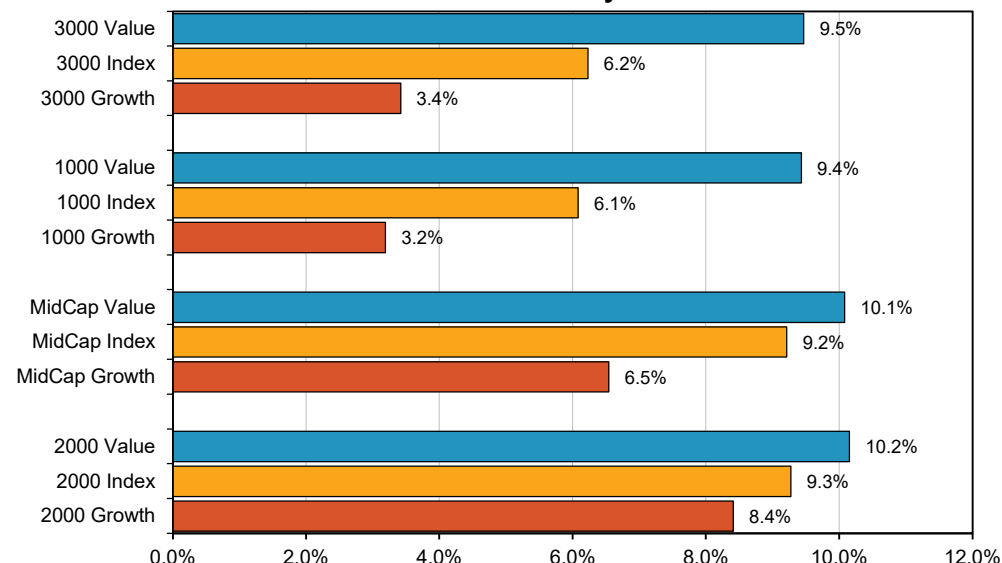
### 1-Year Performance



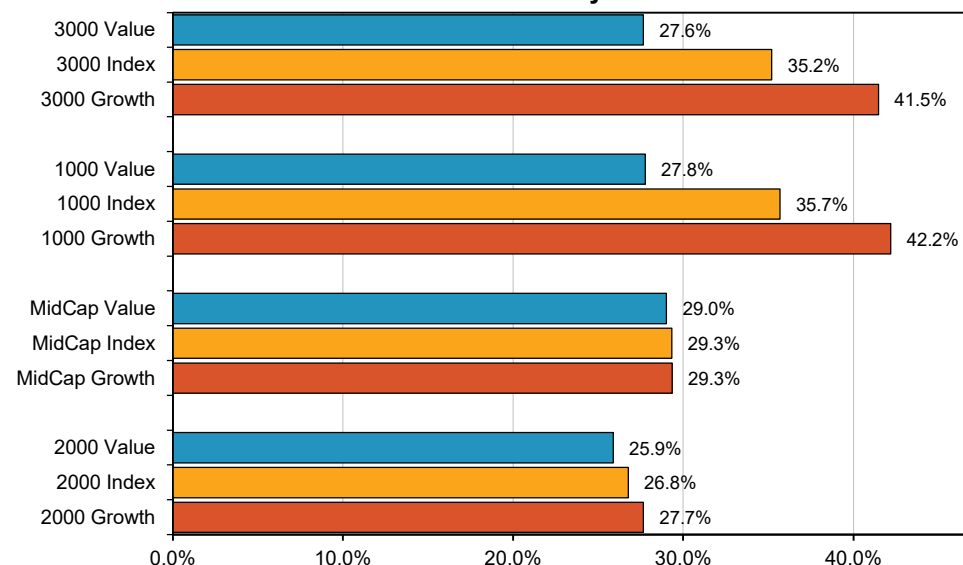
Source: Investment Metrics

- Domestic equity benchmarks posted strong absolute results across styles and market capitalization ranges. During the third quarter, value stocks outpaced their growth counterparts at each capitalization level for the first time since Q4 2022. The best-performing segment of the equity market was small-cap value, with the Russell 2000 Value Index advancing 10.2% for the quarter. Conversely, the large-cap growth Russell 1000 Growth Index produced the weakest relative equity performance, returning just 3.2%.
- The growth-oriented rally took a hiatus during the quarter with the broadest disparity visible in large-cap indexes. The Russell 1000 Value Index return of 9.4% surpassed the Russell 1000 Growth Index return by 6.2%. This quarter's results bucked the trend of large-cap growth stocks being the best-performing segment of the domestic equity market.
- This quarter's resurgence by the value indexes was not enough to bring them above growth indexes on a trailing one-year basis. The Russell 1000 Growth Index amassed a staggering 42.2%, leading the way among style and market capitalization classifications. Much of this strong performance has been attributable to the emergence of the "Magnificent 7" stocks (Alphabet, Amazon, Apple, Meta, Microsoft, Nvidia, and Tesla) which have dominated the large-cap core and growth indexes 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 posted an impressive 25.9%.
- The strength of growth sectors is evident in the chart with the broad-cap, large-cap, and small-cap benchmarks outpacing their value counterparts for the trailing one-year period. The gap between the Russell 1000 Growth Index and the Russell 1000 Value Index was in double-digits for the year, while the gaps for mid- and small-cap indexes were much narrower.

**Quarter Performance - Russell Style Series**



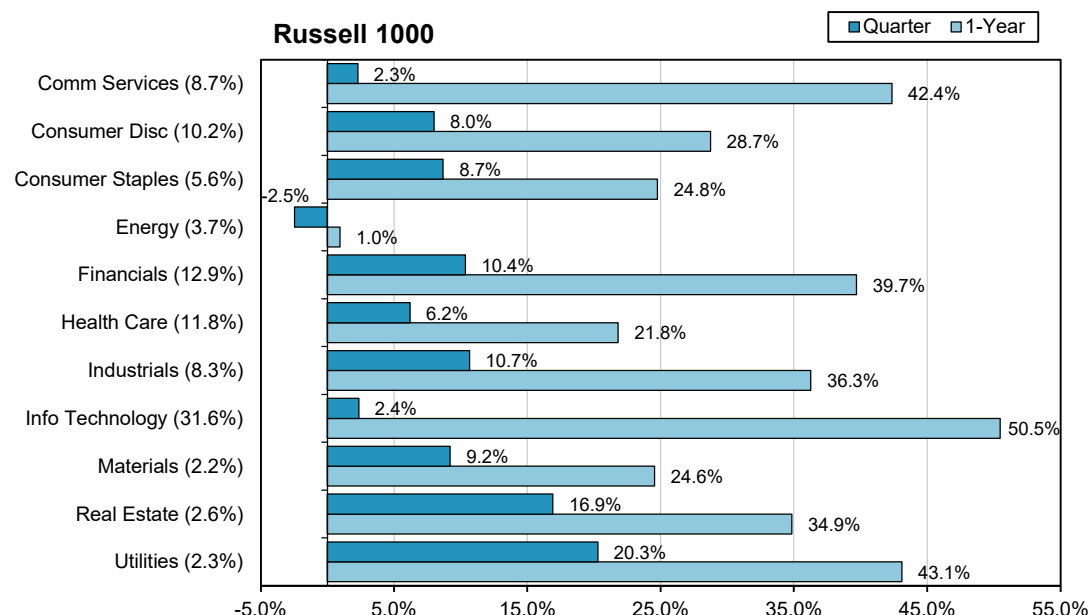
**1-Year Performance - Russell Style Series**



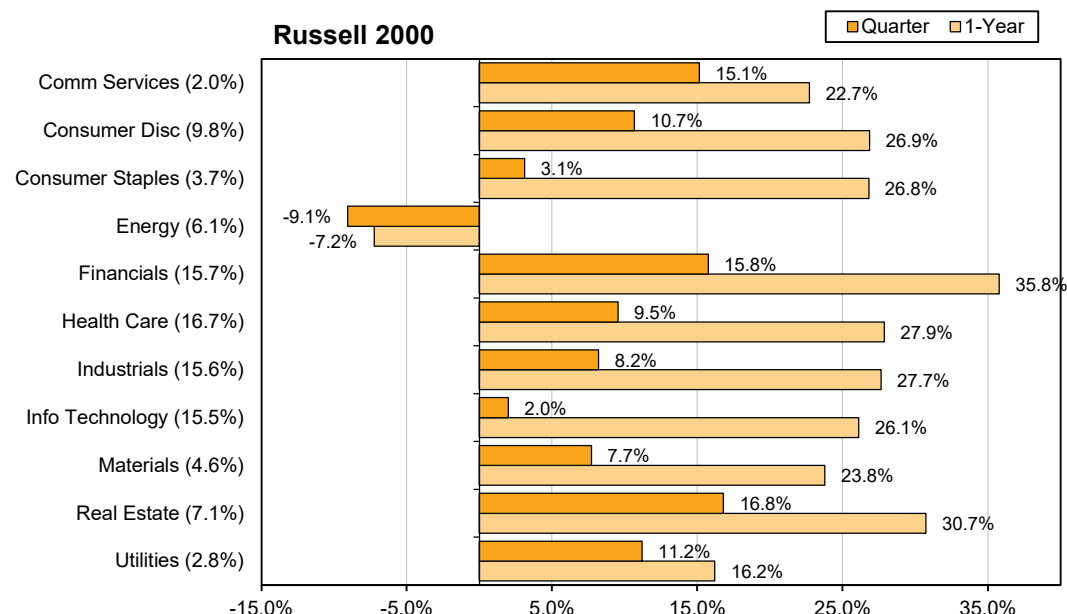
Source: Investment Metrics

- Economic sector performance was mostly positive during the third quarter, with 10 of the 11 economic sectors moving higher in both the large-cap and small-cap indexes. The quarter continued the previous trend in the domestic equities markets of broader participation in companies outside of the technology sector. Energy was the lone sector to slide during the quarter, posting a return of -2.5%.
- Third-quarter results for the large-cap benchmark added to already strong trailing one-year numbers, with all but one sector producing a return of greater than 20%. Similar to the quarter's results, the energy sector was the one to fall short, gaining just 1.0% over the trailing year. Of the 11 sectors, three (communication services, information technology, and utilities) were up by more than 40.0% for the past year. Financials, industrials, and real estate followed closely behind with gains of 39.7%, 36.3%, and 34.9%, respectively. Despite this strong sector performance, only five of the six leading sectors managed to outpace the Russell 1000 Index's return of 35.7%, which was lifted even higher by the strong results in the most heavily weighted sector, information technology.
- Small-cap stocks displayed similar strength, with 10 of the 11 small-cap economic sectors gaining value during the quarter. Real estate, financials, and communication services led the way with gains of more than 15% for the quarter. Similar to the large-cap benchmark, energy was the worst-performing sector for the quarter and produced the sole negative sector return, falling -9.1%.
- Small-cap stocks also had a strong performance for the trailing year. The same 10 small-cap sectors that advanced during the quarter moved higher over the trailing one-year period. Energy remains the weakest performing sector, with the most recent quarterly return dragging the sector's performance to -7.2% for the trailing year. Financials (up 35.8%), and seven other sectors earned more than 20%.

**Russell 1000**



**Russell 2000**



Source: Morningstar Direct

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

**The Market Environment**  
**Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000**  
As of September 30, 2024

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	6.4%	10.8%	36.8%	Information Technology
Microsoft Corp	6.1%	-3.6%	37.3%	Information Technology
NVIDIA Corp	5.4%	-1.7%	179.3%	Information Technology
Amazon.com Inc	3.3%	-3.6%	46.6%	Consumer Discretionary
Meta Platforms Inc Class A	2.4%	13.6%	91.3%	Communication Services
Alphabet Inc Class A	1.8%	-8.8%	27.1%	Communication Services
Berkshire Hathaway Inc Class B	1.6%	13.1%	31.4%	Financials
Alphabet Inc Class C	1.6%	-8.7%	27.1%	Communication Services
Broadcom Inc	1.5%	7.8%	110.9%	Information Technology
Tesla Inc	1.4%	32.2%	4.6%	Consumer Discretionary

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Exact Sciences Corp	0.0%	61.2%	-0.1%	Healthcare
Inspire Medical Systems Inc	0.0%	57.7%	6.4%	Healthcare
AppLovin Corp Ordinary Shares - A	0.1%	56.9%	226.7%	Information Technology
Doximity Inc Class A	0.0%	55.8%	105.3%	Healthcare
Ubiquiti Inc	0.0%	52.7%	55.3%	Information Technology
Vornado Realty Trust	0.0%	49.9%	75.4%	Real Estate
GE Vernova Inc	0.1%	48.7%	N/A	Utilities
VF Corp	0.0%	48.5%	15.5%	Communication Services
Palantir Technologies Inc Ordinary - A	0.1%	46.9%	132.5%	Technology
SharkNinja Inc	0.0%	44.7%	139.9%	Communication Services

Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
New Fortress Energy Inc Class A	0.0%	-58.3%	-71.7%	Utilities
Wolfspeed Inc	0.0%	-57.4%	-74.5%	Information Technology
Trump Media & Technology Group Corp	0.0%	-50.9%	N/A	Communication Services
Super Micro Computer Inc	0.0%	-49.2%	51.8%	Information Technology
e.l.f. Beauty Inc	0.0%	-48.3%	-0.7%	Consumer Staples
Celsius Holdings Inc	0.0%	-45.1%	-45.2%	Consumer Staples
Moderna Inc	0.1%	-43.7%	-35.3%	Health Care
DexCom Inc	0.1%	-40.9%	-28.1%	Health Care
Advance Auto Parts Inc	0.0%	-38.2%	-29.1%	Communication Services
Dollar General Corp	0.0%	-35.7%	-18.6%	Consumer Staples

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Vaxcyte Inc Ordinary Shares	0.5%	51.3%	124.1%	Health Care
FTAI Aviation Ltd	0.5%	29.1%	281.0%	Industrials
Insmed Inc	0.4%	9.0%	189.1%	Health Care
Sprouts Farmers Market Inc	0.4%	32.0%	158.0%	Consumer Staples
Fabrinet	0.3%	-3.4%	41.9%	Information Technology
Applied Industrial Technologies Inc	0.3%	15.2%	45.4%	Industrials
Mueller Industries Inc	0.3%	30.5%	100.0%	Industrials
Fluor Corp	0.3%	9.6%	30.0%	Industrials
Ensign Group Inc	0.3%	16.3%	55.1%	Health Care
UFP Industries Inc	0.3%	17.5%	29.6%	Industrials

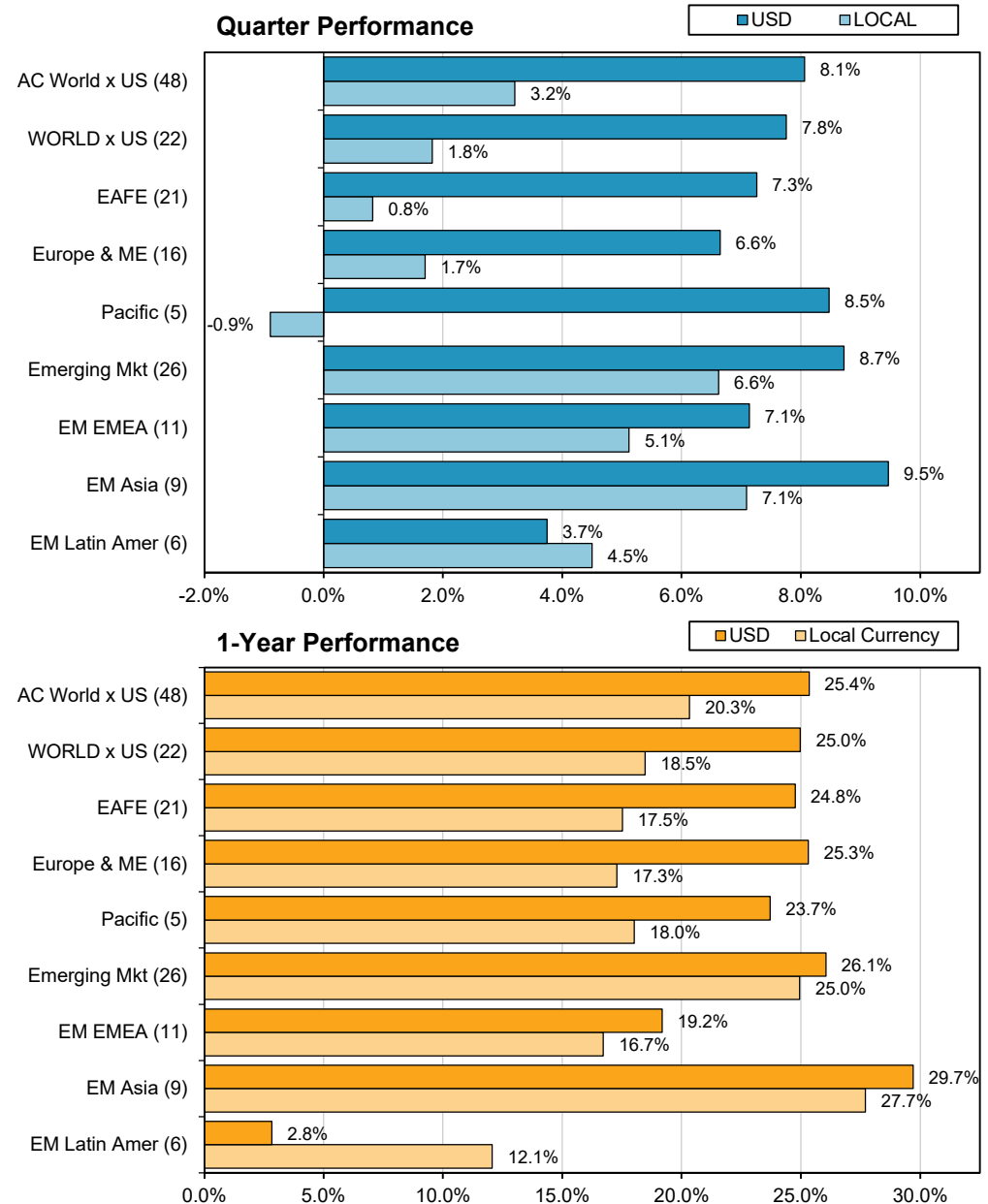
Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Lumen Technologies Inc Ordinary	0.1%	545.5%	400.0%	Communication Services
CommScope Holding Co Inc	0.0%	396.7%	81.8%	Information Technology
Capricor Therapeutics Inc	0.0%	218.9%	344.7%	Health Care
Summit Therapeutics Inc Ordinary	0.0%	180.8%	1071.1%	Health Care
Q32 Bio Inc	0.0%	148.6%	N/A	Health Care
Intuitive Machines Inc Ordinary - A	0.0%	143.9%	120.5%	Industrials
IGM Biosciences Inc Ordinary	0.0%	140.8%	98.1%	Health Care
Cassava Sciences Inc	0.0%	138.3%	76.9%	Health Care
AST SpaceMobile Inc Ordinary - A	0.1%	125.2%	588.2%	Communication Services
Biomea Fusion Inc	0.0%	124.4%	-26.6%	Health Care

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Conduit Pharmaceuticals Inc	0.0%	-88.8%	-98.0%	Health Care
HilleVax Inc	0.0%	-87.8%	-86.9%	Health Care
iLearningEngines Inc	0.0%	-81.6%	N/A	Information Technology
SolarMax Technology Inc	0.0%	-80.8%	N/A	Industrials
Verrica Pharmaceuticals Inc	0.0%	-80.1%	-62.7%	Health Care
Elevation Oncology Inc	0.0%	-77.8%	-9.5%	Health Care
Actinium Pharmaceuticals Inc	0.0%	-74.6%	-68.2%	Health Care
Renovaro Inc	0.0%	-72.4%	-89.2%	Health Care
B. Riley Financial Inc	0.0%	-70.2%	-86.1%	Financials
ALX Oncology Holdings Inc Ordinary	0.0%	-69.8%	-62.1%	Health Care

Source: Morningstar Direct



- Results in USD terms among the headline international equity indexes were sharply higher during the quarter, echoing the performance of major domestic equity benchmarks. The weakening USD relative to many major currencies during the quarter was a tailwind for the USD performance of most regional benchmarks' returns. The developed-market MSCI EAFE Index returned a muted 0.8% in LCL terms but rose 7.3% in USD terms. The MSCI Emerging Markets Index was the best-performing broad index, climbing 8.7% in USD and 6.6% in LCL terms for the quarter.
- Latin America lagged other regions during the quarter in USD terms, posting a return of 3.7%. Weakening currencies in the region put pressure on performance, making it the only region with USD performance that lagged LCL currency performance. The MSCI Pacific benchmark was the only regional benchmark to deliver negative performance in LCL teams (-0.9%), but USD weakness led to an 8.5% positive return in USD terms. Regional LCL currency performance struggles were led by the unwinding of the carry trade in the Japanese equity markets in early August which carried over to neighboring Pacific countries and US markets.
- China, which is the most heavily weighted country in the emerging market index, continued its rebound during the quarter posting a 23.5% gain in USD terms. Recently announced government stimulus for the Chinese economy helped lift equity markets in the country during the quarter. The Chinese economy has yet to expand at its pre-pandemic rate of roughly 5.0% primarily due to troubles in its commercial property and banking sectors, which have created challenges for growth in the region.
- Much like domestic markets, trailing one-year results for international developed and emerging markets benchmarks were strongly positive. Higher USD versus LCL returns for most international benchmarks demonstrate the USD's relative weakness over the trailing one-year period.
- All broad and regional indexes were positive for the trailing 12 months in both USD and LCL terms. The EM Latin America index, where weakening local currencies dragged the region's double-digit LCL performance to a muted 2.8% in USD terms. MSCI Asia Index led the way with a return of 27.7% in LCL terms for the trailing year. The relative weakening of the USD during the period further boosted returns in the region to 29.7% in USD terms.



Source: MSCI Global Index Monitor (Returns are Net)

**The Market Environment**  
**US Dollar International Index Attribution & Country Detail**  
As of September 30, 2024

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	4.3%	11.5%	27.1%
Consumer Discretionary	11.0%	4.8%	14.4%
Consumer Staples	8.7%	10.6%	10.9%
Energy	3.6%	-5.8%	-2.1%
Financials	20.6%	10.4%	36.0%
Health Care	13.3%	4.6%	20.4%
Industrials	17.3%	9.4%	33.8%
Information Technology	8.7%	-2.4%	35.6%
Materials	6.8%	10.7%	24.0%
Real Estate	2.2%	17.3%	27.6%
Utilities	3.4%	14.9%	25.4%
<b>Total</b>	<b>100.0%</b>	<b>7.3%</b>	<b>24.8%</b>

MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.6%	13.6%	26.3%
Consumer Discretionary	11.3%	11.5%	20.4%
Consumer Staples	7.4%	10.5%	11.1%
Energy	5.0%	-1.7%	7.2%
Financials	22.5%	11.4%	33.2%
Health Care	9.4%	6.4%	20.4%
Industrials	13.8%	8.7%	30.5%
Information Technology	12.8%	-1.6%	38.3%
Materials	7.1%	9.4%	18.8%
Real Estate	1.9%	16.9%	23.5%
Utilities	3.2%	13.4%	27.7%
<b>Total</b>	<b>100.0%</b>	<b>8.1%</b>	<b>25.4%</b>

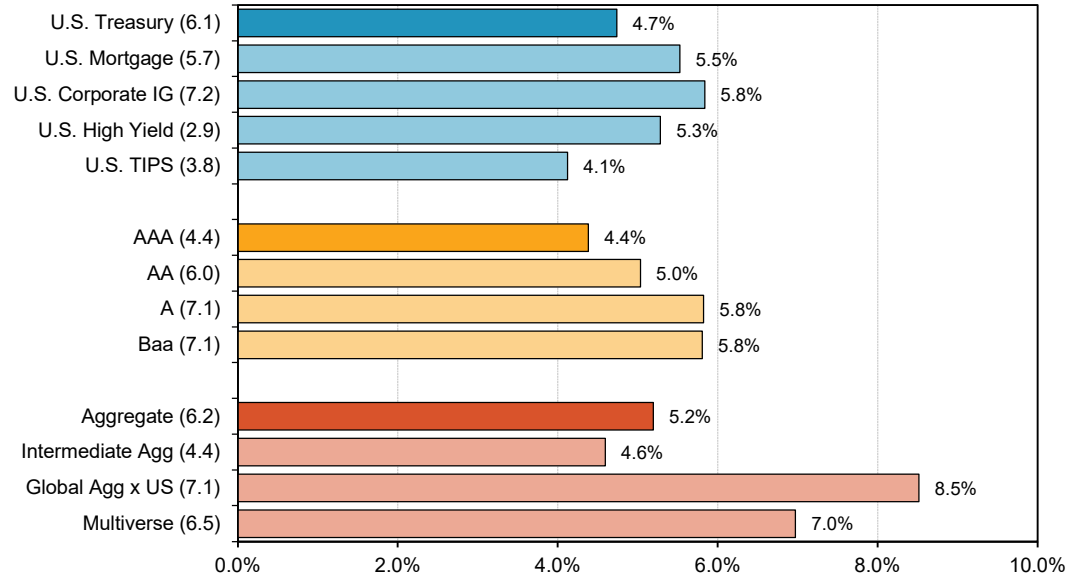
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	9.4%	15.6%	26.2%
Consumer Discretionary	14.0%	25.0%	31.9%
Consumer Staples	5.2%	11.1%	9.6%
Energy	4.8%	-0.4%	17.4%
Financials	22.8%	10.4%	26.5%
Health Care	3.6%	22.9%	20.5%
Industrials	6.8%	7.0%	19.9%
Information Technology	22.2%	-2.6%	40.3%
Materials	6.6%	5.5%	5.5%
Real Estate	1.6%	14.8%	10.8%
Utilities	2.9%	9.3%	35.5%
<b>Total</b>	<b>100.0%</b>	<b>8.7%</b>	<b>26.1%</b>

Country	MSCI-EAFE Weight	MSCI-ACWIXUS Weight	Quarter Return	1- Year Return
Japan	22.3%	14.0%	5.7%	21.6%
United Kingdom	14.7%	9.3%	7.9%	23.3%
France	11.4%	7.1%	7.7%	16.4%
Switzerland	9.9%	6.2%	8.5%	21.6%
Germany	9.0%	5.7%	10.7%	32.1%
Australia	7.8%	4.9%	11.5%	31.6%
Netherlands	4.8%	3.0%	-4.5%	38.7%
Denmark	3.4%	2.1%	-10.3%	24.5%
Sweden	3.4%	2.1%	8.4%	35.8%
Italy	2.7%	1.7%	8.6%	34.4%
Spain	2.8%	1.8%	13.7%	35.9%
Hong Kong	2.0%	1.3%	24.4%	14.8%
Singapore	1.5%	0.9%	17.6%	33.9%
Finland	1.0%	0.7%	8.1%	16.5%
Belgium	1.0%	0.6%	15.3%	25.9%
Israel	0.8%	0.5%	12.4%	32.4%
Norway	0.6%	0.4%	2.1%	4.5%
Ireland	0.3%	0.2%	13.9%	38.6%
Portugal	0.2%	0.1%	8.7%	11.3%
Austria	0.2%	0.1%	8.7%	28.3%
New Zealand	0.2%	0.1%	5.6%	20.1%
<b>Total EAFE Countries</b>	<b>100.0%</b>	<b>62.7%</b>	<b>7.3%</b>	<b>24.8%</b>
Canada		7.7%	12.0%	26.8%
<b>Total Developed Countries</b>		<b>70.4%</b>	<b>7.8%</b>	<b>25.0%</b>
China		8.2%	23.5%	23.9%
India		5.8%	7.3%	40.3%
Taiwan		5.2%	0.5%	52.7%
Korea		3.1%	-5.6%	9.3%
Brazil		1.4%	7.1%	2.6%
Saudi Arabia		1.1%	5.3%	11.2%
South Africa		0.9%	16.1%	36.7%
Mexico		0.6%	-3.4%	-3.4%
Indonesia		0.5%	15.3%	5.2%
Malaysia		0.4%	20.5%	35.6%
Thailand		0.4%	28.9%	17.0%
United Arab Emirates		0.3%	12.0%	6.4%
Poland		0.3%	-3.9%	45.7%
Turkey		0.2%	-12.6%	6.8%
Qatar		0.2%	10.6%	11.2%
Kuwait		0.2%	3.7%	8.9%
Philippines		0.2%	21.7%	22.7%
Greece		0.1%	10.4%	31.3%
Chile		0.1%	5.3%	5.8%
Peru		0.1%	7.9%	57.4%
Hungary		0.1%	6.3%	36.4%
Czech Republic		0.0%	5.1%	7.7%
Colombia		0.0%	-0.9%	25.4%
Egypt		0.0%	12.3%	-7.3%
<b>Total Emerging Countries</b>		<b>29.6%</b>	<b>8.7%</b>	<b>26.1%</b>
<b>Total ACWIXUS Countries</b>		<b>100.0%</b>	<b>8.1%</b>	<b>25.4%</b>

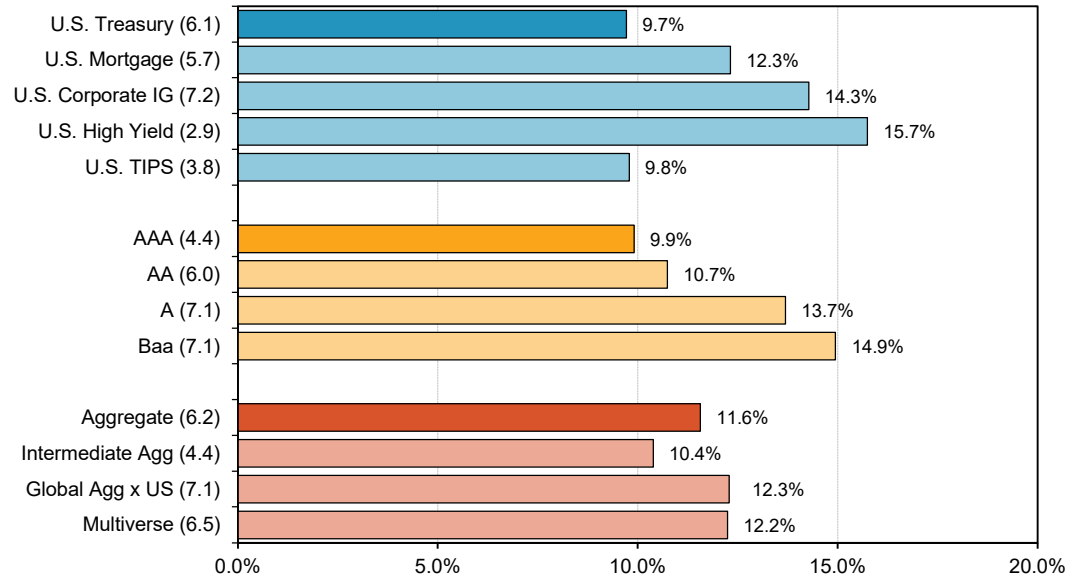
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)  
As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency,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

- Domestic fixed-income markets advanced during the third quarter. Although the Federal Reserve began to unwind its tight monetary policy stance that began in 2022 during the quarter, yields remained elevated. On September 18, the Fed reduced its target policy rate by 0.50%, a move that was celebrated in a performance boost by equity and bond markets alike.
- After a muted first half of 2024, which held the Bloomberg US Aggregate Bond Index slightly negative for the year, the index posted its best quarterly performance year-to-date, climbing 5.2% during the third quarter. Performance across the investment-grade index's segments was more favorable in the credit sectors, with the corporate investment-grade index rising 5.8%, outpacing the government and mortgage-backed-securities sectors. Lower quality issues also performed better, with A and BAA components of the index outpacing higher quality issues during the quarter.
- High Yield bonds underperformed investment grade issues as interest rates declined primarily due to the high-yield benchmark's lower duration. Despite their lower duration, below-investment grade issues continued to rise, posting a return of 5.3% for the quarter. The Bloomberg Global Aggregate ex-US Index outperformed all broad-market domestic indexes with a return of 8.5% for the quarter, aided by a weakening USD.
- Over the trailing one-year period, the Bloomberg US Aggregate Bond Index posted a solid 11.6% return. The benchmark's sub-components also posted positive performance over the trailing 12 months with the Bloomberg US Corporate Investment Grade Index rising a strong 14.3% and the US Mortgage Index returning 12.3%. US TIPS, which are excluded from the Bloomberg US Aggregate Bond Index, returned 9.8% for the trailing year.
- Among credit qualities, lower-quality issues (both within investment grade and below investment grade) have outperformed higher-quality bonds due to higher yields and credit spread compression over the last year. Higher yields mean larger coupon payments as well as greater sensitivity to changes in credit spreads, which narrowed. High-yield bonds have enjoyed a healthy 15.7% gain for the trailing year.
- The Bloomberg Global Aggregate ex-US Index moderately outpaced its domestic counterpart, the Bloomberg US Aggregate Bond Index, by 0.7% during the trailing year.

#### Quarter Performance



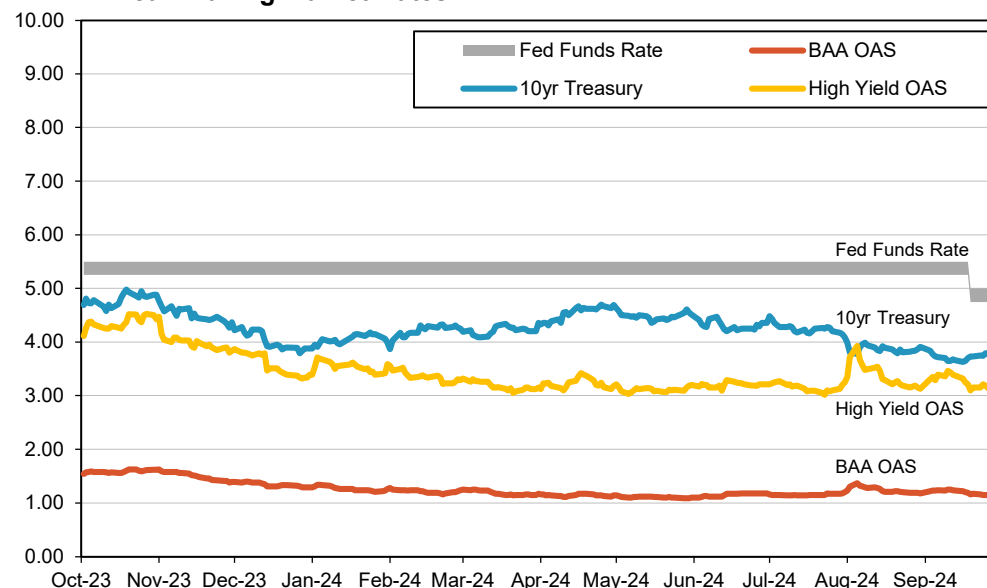
#### 1-Year Performance



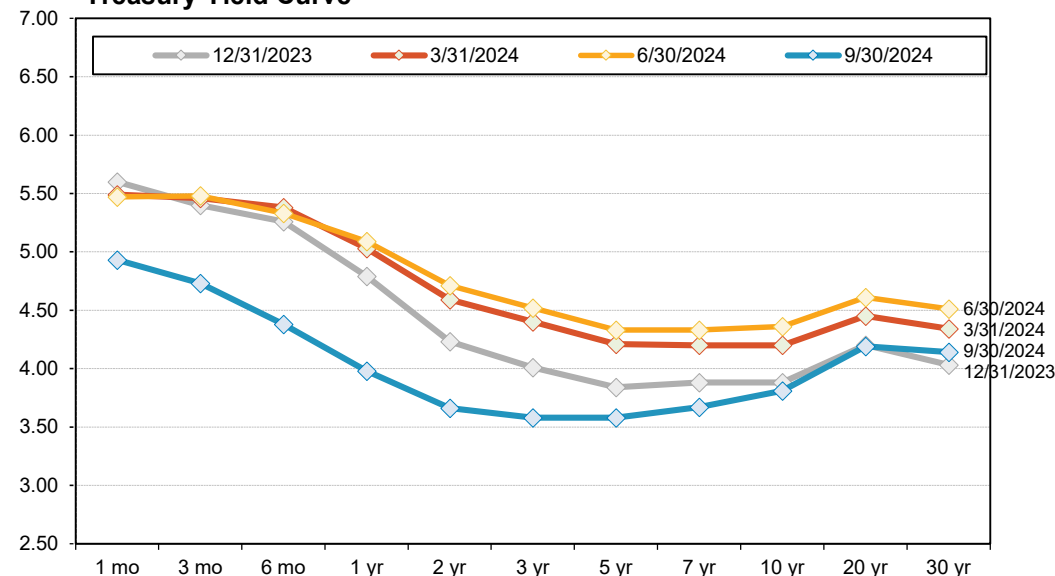
Source: Bloomberg

- The gray band across the graph illustrates the fed funds target rate range over the last 12 months. During the third quarter, the Federal Open Market Committee (FOMC) cut its policy rates by 0.50%, to a range of 4.75-5.00%. The last rate increase occurred at the FOMC's July 2023 meeting, and this was the first rate cut since March of 2020. With inflation declining and unemployment remaining largely stable, the Fed appears to be pivoting from a tight monetary policy stance. The most recent FOMC press release continued to emphasize economic data-dependent outcomes while placing renewed 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 80% probability of a 0.25% rate decrease at the FOMC November 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. However, inflation remains above the FOMC's long-term 2.0% target level.
- The yield on the US 10-year Treasury (blue line of the top chart) fell roughly 0.55% during the quarter, attributable to Fed policy decisions and expectations of future rate actions. The bellwether benchmark rate opened the quarter at a yield of 4.36% and finished September at a yield of 3.81%. The 10-year Treasury benchmark's rate peaked in October 2023, cresting at a yield of just under 5.00% before pulling back during the remainder of the year.
- The red line in the top chart shows the option-adjusted spread (OAS) for BAA-rated corporate bonds. This measure quantifies the additional yield premium investors require to purchase and hold non-US Treasury issues with the lowest investment grade rating. During the quarter, the yield spread was relatively stable, beginning July at 1.18% and finishing September at 1.16%. High-yield OAS spreads (represented by the yellow line in the top chart) have also remained relatively unchanged, despite a sharp spike in early August spurred by an unwinding of the Yen carry trade. The high-yield OAS fell 0.18% over the quarter from 3.21% to 3.03%. 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 July 2022, the quarter-end yield on the 10-year Treasury was higher relative to the two-year Treasury. The yield curve has been inverted for each of the previous three quarter-end readings on the graph and for much of the last two years. This 2-10-year yield curve inversion is a common heuristic used to foretell a pending recession environment.

**1-Year Trailing Market Rates**



**Treasury Yield Curve**



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

[CME FedWatch Tool - CME Group](#)

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

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

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

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

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

[Federal Reserve issues FOMC statement](#)

[Yen drops to 38-year low, U.S. dollar slumps after weak data \(cnbc.com\)](#)

[U.S. job growth revised down by the most since 2009. Why this time is different \(cnbc.com\)](#)

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

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

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

[Fed's Jerome Powell Declares 'Time Has Come' for Interest-Rate Cuts – WSJ](#)

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

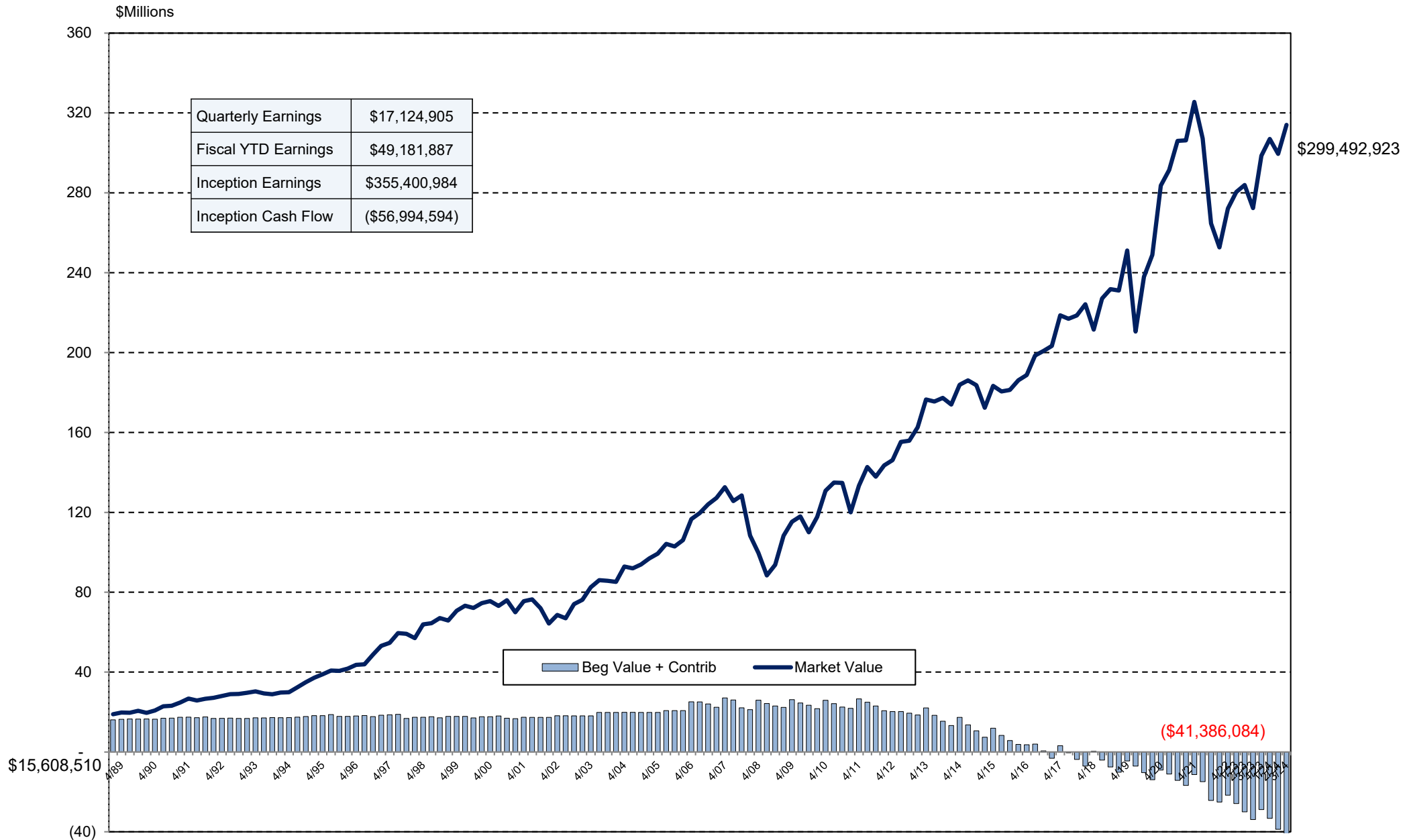
[Fed rate cut: Here's what changed in the central bank's statement \(cnbc.com\)](#)

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

Portfolio Segment	Market Value	Current Allocation	Target Allocation	Difference
Domestic Equity	\$166,109,388	55.5%	49.0%	+6.5%
International Equity	\$31,122,237	10.4%	10.0%	+0.4%
Domestic Fixed Income	\$44,345,279	14.8%	14.0%	+0.8%
Global Fixed Income	\$17,533,182	5.9%	5.0%	+0.9%
Real Estate	\$26,653,970	8.9%	12.0%	(3.1%)
Alternative	\$26,069,119	8.7%	10.0%	(1.3%)
Cash & Equivalents	\$2,181,724	0.7%	0.0%	+0.7%
<b>Total Market Value</b>	<b>\$299,492,923</b>	<b>104.8%</b>	<b>100.0%</b>	

Total Portfolio	Quarter	Fiscal YTD
Portfolio Earnings	\$17,124,905	\$49,181,887
Portfolio Return	5.74%	17.90%
Policy Return	5.56%	22.57%

**West Palm Beach Firefighters' Pension Fund**  
**Total Portfolio Growth & Cash Flow**  
 As of September 30, 2024



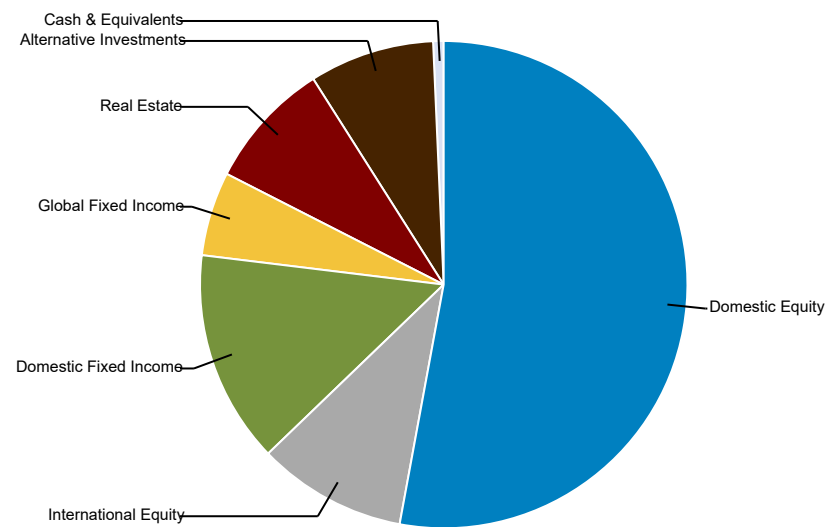
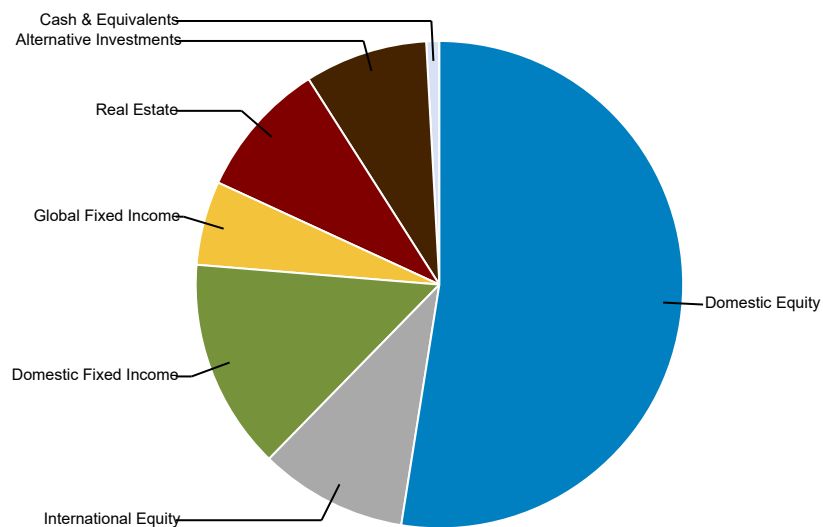
# Asset Allocation by Asset Class

Total Fund

As of September 30, 2024

Jun-2024 : \$299,535,072

Sep-2024 : \$314,014,900



Allocation		
	Market Value	Allocation
Domestic Equity	157,291,645	52.5
International Equity	29,373,173	9.8
Domestic Fixed Income	41,888,217	14.0
Global Fixed Income	16,689,870	5.6
Real Estate	27,254,965	9.1
Alternative Investments	24,436,186	8.2
Cash & Equivalents	2,601,018	0.9

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
Real Estate	26,653,970	8.5
Alternative Investments	26,069,119	8.3
Cash & Equivalents	2,181,724	0.7

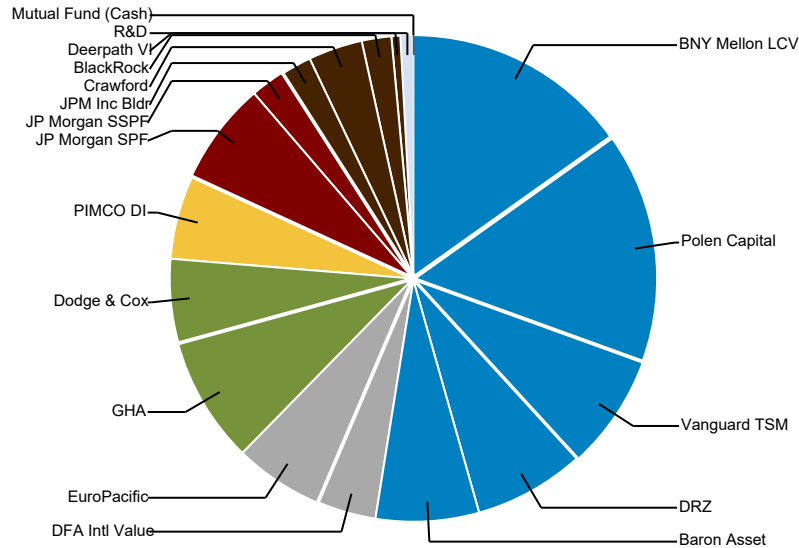


# Asset Allocation by Manager

Total Fund

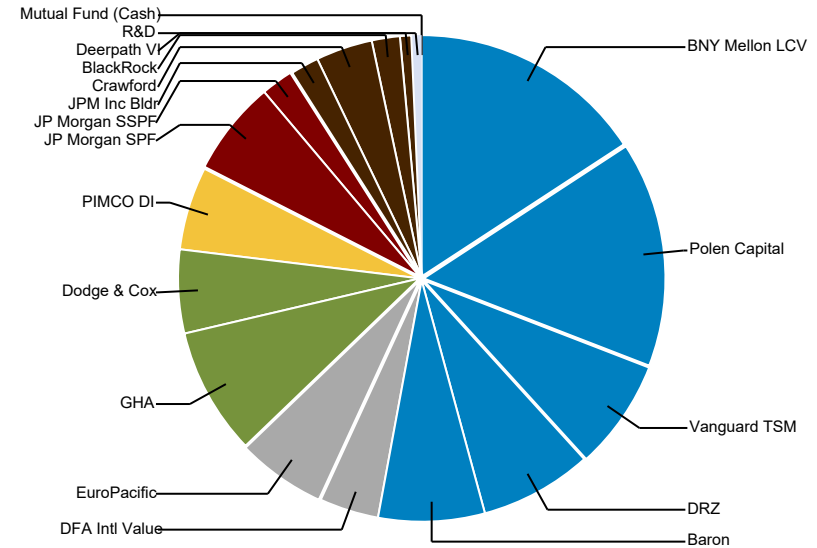
As of September 30, 2024

Jun-2024 : \$299,535,072



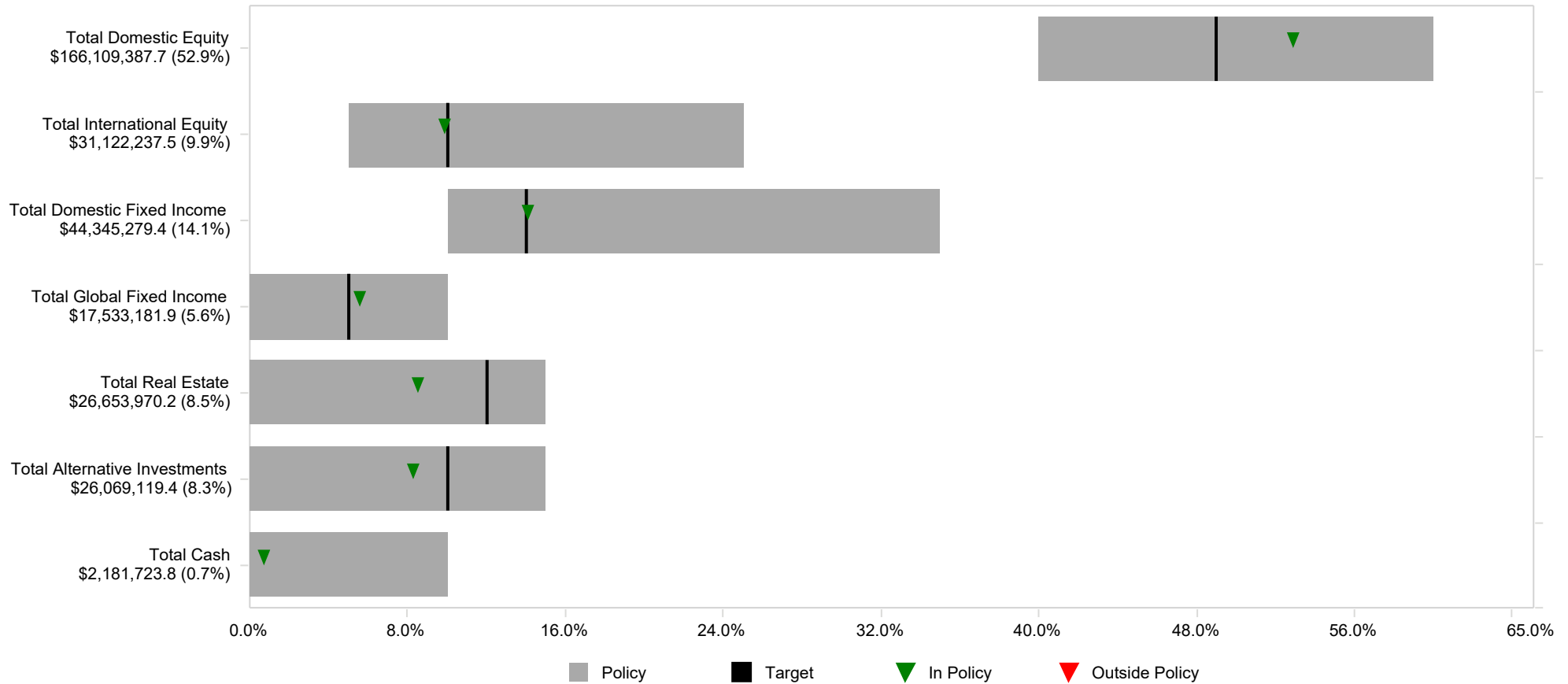
Allocation	Market Value	Allocation
BNY Mellon LCV	45,363,975	15.1
Polen Capital	46,097,349	15.4
Vanguard TSM	23,006,663	7.7
DRZ	22,171,775	7.4
Baron Asset	20,651,883	6.9
DFA Intl Value	11,630,094	3.9
EuroPacific	17,743,079	5.9
GHA	25,222,168	8.4
Dodge & Cox	16,666,049	5.6
PIMCO DI	16,689,870	5.6
JP Morgan SPF	20,487,598	6.8
JP Morgan SSPF	6,767,366	2.3
JPM Inc Bldr	5,862,979	2.0
Crawford	10,875,890	3.6
BlackRock	5,914,405	2.0
PIMCO DISCO III	-	0.0
Deerpath VI	1,782,911	0.6
R&D	2,595,642	0.9
Mutual Fund (Cash)	5,376	0.0

Sep-2024 : \$314,014,900



Allocation	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	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
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	11,877,632	3.8
BlackRock	5,912,771	1.9
PIMCO DISCO III	-	0.0
Deerpath VI	2,356,829	0.8
R&D	2,176,282	0.7
Mutual Fund (Cash)	5,442	0.0

## Executive Summary



## Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Rebal. (\$000)	Min. Rebal. (\$000)	Max. Rebal. (\$000)
<b>Total Fund</b>	<b>314,014,900</b>	<b>100.0</b>	<b>100.0</b>	<b>N/A</b>	<b>N/A</b>	<b>-</b>	<b>-</b>	<b>-</b>
Total Domestic Equity	166,109,388	52.9	49.0	40.0	60.0	-12,242,087	-40,503,428	22,299,552
Total International Equity	31,122,237	9.9	10.0	5.0	25.0	279,253	-15,421,492	47,381,488
Total Domestic Fixed Income	44,345,279	14.1	14.0	10.0	35.0	-383,193	-12,943,789	65,559,936
Total Global Fixed Income	17,533,182	5.6	5.0	0.0	10.0	-1,832,437	-17,533,182	13,868,308
Total Real Estate	26,653,970	8.5	12.0	0.0	15.0	11,027,818	-26,653,970	20,448,265
Total Alternative Investments	26,069,119	8.3	10.0	0.0	15.0	5,332,371	-26,069,119	21,033,116
Total Cash	2,181,724	0.7	0.0	0.0	10.0	-2,181,724	-2,181,724	29,219,766

**Asset Allocation**  
**Total Fund**  
As of September 30, 2024

Asset Allocation Attributes									
	Domestic Equity (\$)	International Equity (\$)	Fixed Income (\$)	International Fixed Income (\$)	Global Fixed Income (\$)	Real Estate (\$)	Alternative Investment (\$)	Cash Equivalent (\$)	Total Fund (\$)
<b>Total Domestic Equity</b>	<b>164,499,264</b>	-	-	-	-	-	-	<b>1,610,124</b>	<b>166,109,388</b>
Newton LCV	49,358,947	-	-	-	-	-	-	178,586	49,537,532
Polen Capital	47,190,000	-	-	-	-	-	-	256,511	47,446,510
Vanguard Total Stk Mkt Index (VITSX)	23,180,557	-	-	-	-	-	-	-	23,180,557
Deprince, Race, Zollo (Equity)	23,114,070	-	-	-	-	-	-	491,818	23,605,888
Baron Asset	21,655,691	-	-	-	-	-	-	683,209	22,338,900
<b>Total International Equity</b>	-	<b>31,122,237</b>	-	-	-	-	-	-	<b>31,122,237</b>
DFA Intl Value (DFIVX)	-	12,418,566	-	-	-	-	-	-	12,418,566
EuroPacific Growth Fund (REGX)	-	18,703,671	-	-	-	-	-	-	18,703,671
<b>Total Domestic Fixed Income</b>	-	-	<b>44,169,217</b>	-	-	-	-	<b>176,062</b>	<b>44,345,279</b>
Garcia Hamilton & Associates	-	-	26,571,592	-	-	-	-	176,062	26,747,655
Dodge & Cox Income (DODIX)	-	-	17,597,625	-	-	-	-	-	17,597,625
<b>Total Global Fixed Income</b>	-	-	-	-	<b>17,533,182</b>	-	-	-	<b>17,533,182</b>
PIMCO Diversified Income (PDIIX)	-	-	-	-	17,533,182	-	-	-	17,533,182
<b>Total Real Estate</b>	-	-	-	-	-	<b>26,653,970</b>	-	-	<b>26,653,970</b>
JP Morgan Strategic Property Fund	-	-	-	-	-	19,959,379	-	-	19,959,379
JP Morgan Special Situation Property Fund	-	-	-	-	-	6,694,591	-	-	6,694,591
<b>Total Alternative Investments</b>	<b>8,426,212</b>	<b>353,047</b>	<b>1,877,464</b>	<b>232,688</b>	<b>2,356,829</b>	-	<b>11,834,659</b>	<b>988,221</b>	<b>26,069,119</b>
JPMorgan Income Builder Fund (JNBZX)	-	-	-	-	-	-	5,921,887	-	5,921,887
Crawford Portfolio	8,426,212	353,047	1,877,464	232,688	-	-	-	988,221	11,877,632
BlackRock Multi-Asset Income Fund (BIICX)	-	-	-	-	-	-	5,912,771	-	5,912,771
PIMCO DISCO Fund III	-	-	-	-	-	-	-	-	-
Deerpath Capital Advantage VI	-	-	-	-	2,356,829	-	-	-	2,356,829
<b>Total Cash</b>	-	-	-	-	-	-	-	<b>2,181,724</b>	<b>2,181,724</b>
R&D Account	-	-	-	-	-	-	-	2,176,282	2,176,282
Mutual Fund (Cash)	-	-	-	-	-	-	-	5,442	5,442
<b>Total Fund</b>	<b>172,925,476</b>	<b>31,475,285</b>	<b>46,046,681</b>	<b>232,688</b>	<b>19,890,011</b>	<b>26,653,970</b>	<b>11,834,659</b>	<b>4,956,131</b>	<b>314,014,900</b>

## Financial Reconciliation

## Total Fund

1 Quarter Ending September 30, 2024

Financial Reconciliation Quarter to Date								
	Market Value 07/01/2024	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Return On Investment	Market Value 09/30/2024
<b>Total Domestic Equity</b>	<b>157,291,645</b>	<b>-1,200,000</b>	<b>10,259</b>	<b>-</b>	<b>-148,577</b>	<b>-10,388</b>	<b>10,166,449</b>	<b>166,109,388</b>
Newton LCV	45,363,975	-	4,442	-	-28,200	-4,442	4,201,758	49,537,532
Polen Capital	46,097,349	-	2,647	-	-68,755	-2,776	1,418,046	47,446,510
Vanguard Total Stk Mkt Index (VITSX)	23,006,663	-1,200,000	-	-	-	-	1,373,894	23,180,557
Deprince, Race, Zollo (Equity)	22,171,775	-	2,107	-	-	-2,107	1,434,113	23,605,888
Baron Asset	20,651,883	-	1,063	-	-51,621	-1,063	1,738,638	22,338,900
<b>Total International Equity</b>	<b>29,373,173</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,749,065</b>	<b>31,122,237</b>
DFA Intl Value (DFIVX)	11,630,094	-	-	-	-	-	788,472	12,418,566
EuroPacific Growth Fund (RERGX)	17,743,079	-	-	-	-	-	960,593	18,703,671
<b>Total Domestic Fixed Income</b>	<b>41,888,217</b>	<b>-</b>	<b>1,295</b>	<b>-</b>	<b>-15,734</b>	<b>-1,295</b>	<b>2,472,796</b>	<b>44,345,279</b>
Garcia Hamilton & Associates	25,222,168	-	1,295	-	-15,734	-1,295	1,541,221	26,747,655
Dodge & Cox Income (DODIX)	16,666,049	-	-	-	-	-	931,576	17,597,625
<b>Total Global Fixed Income</b>	<b>16,689,870</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>843,312</b>	<b>17,533,182</b>
PIMCO Diversified Income (PDIIX)	16,689,870	-	-	-	-	-	843,312	17,533,182
<b>Total Real Estate</b>	<b>27,254,965</b>	<b>-683,169</b>	<b>-</b>	<b>-</b>	<b>-80,637</b>	<b>-</b>	<b>162,812</b>	<b>26,653,970</b>
JP Morgan Strategic Property Fund	20,487,598	-638,533	-	-	-52,558	-	162,872	19,959,379
JP Morgan Special Situation Property Fund	6,767,366	-44,636	-	-	-28,079	-	-60	6,694,591
<b>Total Alternative Investments</b>	<b>24,436,186</b>	<b>-58,722</b>	<b>556</b>	<b>-</b>	<b>-</b>	<b>-556</b>	<b>1,691,656</b>	<b>26,069,119</b>
JPMorgan Income Builder Fund (JNBZX)	5,862,979	-306,500	-	-	-	-	365,408	5,921,887
Crawford Portfolio	10,875,890	-	556	-	-	-556	1,001,741	11,877,632
BlackRock Multi-Asset Income Fund (BIICX)	5,914,405	-326,140	-	-	-	-	324,506	5,912,771
PIMCO DISCO Fund III	-	-	-	-	-	-	-	-
Deerpath Capital Advantage VI	1,782,911	573,918	-	-	-	-	-	2,356,829
<b>Total Cash</b>	<b>2,601,018</b>	<b>1,941,891</b>	<b>5,002</b>	<b>-2,400,000</b>	<b>-</b>	<b>-5,002</b>	<b>38,815</b>	<b>2,181,724</b>
R&D Account	2,595,642	1,941,891	129	-2,400,000	-	-129	38,749	2,176,282
Mutual Fund (Cash)	5,376	-	4,873	-	-	-4,873	66	5,442
<b>Total Fund</b>	<b>299,535,072</b>	<b>-</b>	<b>17,113</b>	<b>-2,400,000</b>	<b>-244,948</b>	<b>-17,242</b>	<b>17,124,905</b>	<b>314,014,900</b>

## Financial Reconciliation

## Total Fund

October 1, 2023 To September 30, 2024

Financial Reconciliation Fiscal Year to Date								
	Market Value 10/01/2023	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Return On Investment	Market Value 09/30/2024
<b>Total Domestic Equity</b>	<b>141,878,723</b>	<b>-10,550,000</b>	<b>39,912</b>	<b>-</b>	<b>-862,786</b>	<b>-40,958</b>	<b>35,644,496</b>	<b>166,109,388</b>
Newton LCV	39,117,110	-	17,270	-	-400,076	-17,844	10,821,073	49,537,532
Polen Capital	37,433,684	-	9,719	-	-259,092	-9,979	10,272,178	47,446,510
Vanguard Total Stk Mkt Index (VITSX)	27,567,545	-12,550,000	-	-	-	-	8,163,012	23,180,557
Deprince, Race, Zollo (Equity)	20,454,544	-	8,647	-	-	-8,859	3,151,557	23,605,888
Baron Asset	17,305,841	2,000,000	4,276	-	-203,618	-4,276	3,236,677	22,338,900
<b>Total International Equity</b>	<b>25,262,477</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,859,761</b>	<b>31,122,237</b>
DFA Intl Value (DFIVX)	10,265,083	-	-	-	-	-	2,153,484	12,418,566
EuroPacific Growth Fund (RERGX)	14,997,394	-	-	-	-	-	3,706,277	18,703,671
<b>Total Domestic Fixed Income</b>	<b>35,175,774</b>	<b>4,000,000</b>	<b>5,021</b>	<b>-</b>	<b>-60,630</b>	<b>-5,021</b>	<b>5,230,135</b>	<b>44,345,279</b>
Garcia Hamilton & Associates	21,194,273	2,500,000	5,021	-	-60,630	-5,021	3,114,011	26,747,655
Dodge & Cox Income (DODIX)	13,981,501	1,500,000	-	-	-	-	2,116,124	17,597,625
<b>Total Global Fixed Income</b>	<b>13,675,358</b>	<b>1,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,357,824</b>	<b>17,533,182</b>
PIMCO Diversified Income (PDIIX)	13,675,358	1,500,000	-	-	-	-	2,357,824	17,533,182
<b>Total Real Estate</b>	<b>33,456,060</b>	<b>-2,134,686</b>	<b>-</b>	<b>-</b>	<b>-366,960</b>	<b>-</b>	<b>-4,300,443</b>	<b>26,653,970</b>
JP Morgan Strategic Property Fund	24,660,826	-1,875,813	-	-	-235,107	-	-2,590,528	19,959,379
JP Morgan Special Situation Property Fund	8,795,233	-258,874	-	-	-131,853	-	-1,709,915	6,694,591
<b>Total Alternative Investments</b>	<b>22,100,544</b>	<b>-316,765</b>	<b>2,573</b>	<b>-</b>	<b>-</b>	<b>-2,573</b>	<b>4,285,341</b>	<b>26,069,119</b>
JPMorgan Income Builder Fund (JNBZX)	5,199,618	-306,500	-	-	-	-	1,028,769	5,921,887
Crawford Portfolio	9,699,352	-	2,573	-	-	-2,573	2,178,280	11,877,632
BlackRock Multi-Asset Income Fund (BIICX)	5,293,482	-326,140	-	-	-	-	945,430	5,912,771
PIMCO DISCO Fund III	103,922	-95,125	-	-	-	-	-8,797	-
Deerpath Capital Advantage VI	1,804,171	411,000	-	-	-	-	141,658	2,356,829
<b>Total Cash</b>	<b>824,453</b>	<b>7,501,452</b>	<b>8,720,926</b>	<b>-14,950,000</b>	<b>-</b>	<b>-19,879</b>	<b>104,773</b>	<b>2,181,724</b>
R&D Account	821,556	7,501,452	8,701,361	-14,950,000	-	-315	102,228	2,176,282
Mutual Fund (Cash)	2,897	-	19,564	-	-	-19,564	2,545	5,442
<b>Total Fund</b>	<b>272,373,389</b>	<b>-</b>	<b>8,768,432</b>	<b>-14,950,000</b>	<b>-1,290,376</b>	<b>-68,431</b>	<b>49,181,887</b>	<b>314,014,900</b>

# Comparative Performance

## Total Fund

As of September 30, 2024

### Comparative Performance Trailing Returns

	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR		Inception		Inception Date
<b>Total Fund (Gross)</b>	<b>5.74</b>	<b>(35)</b>	<b>17.90</b>	<b>(78)</b>	<b>17.90</b>	<b>(78)</b>	<b>3.66</b>	<b>(77)</b>	<b>8.58</b>	<b>(39)</b>	<b>8.45</b>	<b>(17)</b>	<b>8.42</b>	<b>(8)</b>	<b>7.71</b>	<b>(5)</b>	<b>10/01/1997</b>
Total Fund Policy	5.56	(43)	22.57	(31)	22.57	(31)	5.70	(19)	9.71	(10)	9.09	(6)	8.82	(3)	7.31	(10)	
All Public Plans-Total Fund Median	5.42		21.21		21.21		4.54		8.31		7.66		7.31		6.52		
<b>Total Fund (Net)</b>	<b>5.65</b>		<b>17.39</b>		<b>17.39</b>		<b>3.24</b>		<b>8.17</b>		<b>8.05</b>		<b>8.01</b>		<b>7.37</b>		<b>04/01/2008</b>
Total Fund Policy	5.56		22.57		22.57		5.70		9.71		9.09		8.82		7.84		
<b>Total Equity</b>	<b>6.41</b>		<b>25.26</b>		<b>25.26</b>		<b>6.12</b>		<b>12.84</b>		<b>12.13</b>		<b>11.45</b>		<b>9.10</b>		<b>10/01/1997</b>
Total Equity Policy	6.56		33.61		33.61		9.37		14.07		12.43		11.64		8.11		
<b>Total Domestic Equity</b>	<b>6.50</b>	<b>(44)</b>	<b>25.63</b>	<b>(92)</b>	<b>25.63</b>	<b>(92)</b>	<b>7.15</b>	<b>(88)</b>	<b>13.78</b>	<b>(59)</b>	<b>13.34</b>	<b>(47)</b>	<b>12.48</b>	<b>(41)</b>	<b>9.44</b>	<b>(64)</b>	<b>10/01/1997</b>
Total Domestic Equity Policy	6.23	(51)	35.19	(32)	35.19	(32)	10.29	(35)	15.26	(30)	13.74	(37)	12.83	(35)	8.86	(94)	
IM U.S. All Cap Core Equity (SA+CF) Median	6.23		31.98		31.98		9.80		14.61		12.92		12.20		9.98		
Newton LCV	9.26	(22)	27.77	(60)	27.77	(60)	15.23	(3)	16.43	(9)	13.74	(11)	12.55	(12)	9.40	(34)	01/01/2001
Russell 1000 Value Index	9.43	(19)	27.76	(60)	27.76	(60)	9.03	(78)	10.69	(85)	9.53	(83)	9.23	(86)	7.55	(94)	
IM U.S. Large Cap Value Equity (SA+CF) Median	7.72		28.85		28.85		10.70		12.89		11.16		10.52		8.95		
Polen Capital	3.08	(57)	27.50	(93)	27.50	(93)	0.86	(96)	12.67	(91)	N/A		N/A		13.48	(86)	07/01/2018
Russell 1000 Growth Index	3.19	(56)	42.19	(42)	42.19	(42)	12.02	(23)	19.74	(18)	18.20	(17)	16.52	(17)	17.82	(14)	
IM U.S. Large Cap Growth Equity (SA+CF) Median	3.45		40.90		40.90		9.73		17.50		16.59		15.33		15.93		
Deprince, Race, Zollo (Equity)	6.47	(86)	15.41	(97)	15.41	(97)	N/A		N/A		N/A		N/A		6.47	(67)	02/01/2022
Russell 2500 Value Index	9.63	(21)	26.59	(34)	26.59	(34)	6.06	(64)	9.99	(73)	7.85	(72)	8.47	(84)	6.46	(67)	
IM U.S. SMID Cap Value Equity (SA+CF) Median	8.79		24.77		24.77		7.15		11.26		9.24		9.83		7.18		
Vanguard Total Stk Mkt Index (VITSX)	6.17	(32)	35.25	(45)	35.25	(45)	10.12	(61)	15.20	(42)	13.69	(36)	12.78	(30)	13.78	(32)	02/01/2013
Vanguard Total Stock Market Index	6.18	(32)	35.23	(46)	35.23	(46)	10.11	(62)	15.19	(42)	13.69	(36)	12.79	(30)	13.78	(32)	
Large Blend Median	5.79		34.79		34.79		10.73		14.87		13.15		12.11		13.21		
Baron Asset	8.42	(37)	16.68	(90)	16.68	(90)	-0.79	(57)	10.45	(64)	11.61	(46)	11.72	(50)	11.99	(17)	01/01/2004
Russell 2000 Growth Index	8.41	(37)	27.66	(51)	27.66	(51)	-0.35	(55)	8.82	(86)	7.59	(96)	8.95	(97)	8.61	(98)	
IM U.S. Small Cap Growth Equity (SA+CF) Median	7.62		27.84		27.84		0.21		11.36		11.46		11.66		10.89		

Returns for periods greater than one year are annualized.

Returns are expressed as percentages.

\*As of March 2015, PIMCO DiSCO II moved to Other Fixed Income from Alternative Investments.

# Comparative Performance

## Total Fund

As of September 30, 2024

	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR		Inception		Inception Date
<b>Total International Equity</b>	<b>5.95</b>	<b>(75)</b>	<b>23.20</b>	<b>(65)</b>	<b>23.20</b>	<b>(65)</b>	<b>0.66</b>	<b>(95)</b>	<b>7.91</b>	<b>(46)</b>	<b>5.99</b>	<b>(26)</b>	<b>6.11</b>	<b>(20)</b>	<b>7.34</b>	<b>(11)</b>	<b>10/01/1998</b>
Total International Equity Policy	8.17	(23)	25.96	(24)	25.96	(24)	4.67	(43)	8.10	(40)	5.95	(28)	5.72	(35)	5.59	(56)	
Foreign Large Blend Median	7.12		24.46		24.46		4.25		7.78		5.45		5.40		5.75		
 DFA Intl Value (DFIVX)	 6.78	 (60)	 20.98	 (87)	 20.98	 (87)	 N/A		 N/A		 N/A		 N/A		 21.08	 (9)	 06/01/2023
Total International Equity Policy	8.17	(23)	25.96	(24)	25.96	(24)	4.67	(43)	8.10	(40)	5.95	(28)	5.72	(35)	19.52	(17)	
Foreign Large Blend Median	7.12		24.46		24.46		4.25		7.78		5.45		5.40		17.27		
 EuroPacific Growth Fund (RERGX)	 5.41	 (83)	 24.71	 (46)	 24.71	 (46)	 0.06	 (96)	 7.52	 (61)	 5.71	 (38)	 6.26	 (18)	 7.94	 (8)	 10/01/2003
Total International Equity Policy	8.17	(23)	25.96	(24)	25.96	(24)	4.67	(43)	8.10	(40)	5.95	(28)	5.72	(35)	6.74	(47)	
Foreign Large Blend Median	7.12		24.46		24.46		4.25		7.78		5.45		5.40		6.64		
 <b>Total Fixed Income</b>	 <b>5.66</b>		 <b>13.93</b>		 <b>13.93</b>		 <b>0.00</b>		 <b>1.06</b>		 <b>1.70</b>		 <b>2.39</b>		 <b>4.83</b>		 <b>10/01/1997</b>
Total Fixed Income Policy	5.49		11.48		11.48		-1.90		-0.07		1.13		1.51		4.05		
 <b>Total Domestic Fixed Income</b>	 <b>5.91</b>	 <b>(4)</b>	 <b>13.32</b>	 <b>(21)</b>	 <b>13.32</b>	 <b>(21)</b>	 <b>-0.29</b>	 <b>(26)</b>	 <b>1.18</b>	 <b>(49)</b>	 <b>2.11</b>	 <b>(56)</b>	 <b>2.40</b>	 <b>(61)</b>	 <b>3.01</b>	 <b>(70)</b>	 <b>06/01/2010</b>
Total Domestic Fixed Income Policy	5.20	(66)	11.57	(87)	11.57	(87)	-1.39	(91)	0.33	(98)	1.47	(99)	1.84	(99)	2.44	(98)	
IM U.S. Broad Market Fixed Income (SA+CF) Median	5.27		12.57		12.57		-0.82		1.17		2.17		2.52		3.28		
 Garcia Hamilton & Associates	 6.11	 (2)	 13.11	 (16)	 13.11	 (16)	 -0.73	 (23)	 0.58	 (81)	 1.68	 (82)	 2.12	 (74)	 2.22	 (71)	 05/01/2014
Blmbg. U.S. Aggregate Index	5.20	(67)	11.57	(89)	11.57	(89)	-1.39	(89)	0.33	(98)	1.47	(98)	1.84	(98)	1.90	(98)	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	5.24		12.30		12.30		-0.97		0.89		2.00		2.33		2.38		
 Dodge & Cox Income (DODIX)	 5.59	 (7)	 13.53	 (5)	 13.53	 (5)	 0.37	 (2)	 2.11	 (1)	 2.76	 (1)	 N/A		 2.86	 (1)	 11/01/2014
Blmbg. U.S. Aggregate Index	5.20	(38)	11.57	(60)	11.57	(60)	-1.39	(39)	0.33	(55)	1.47	(48)	1.84	(43)	1.76	(44)	
Intermediate Core Bond Median	5.13		11.72		11.72		-1.50		0.39		1.44		1.78		1.70		
 <b>Total Global Fixed Income</b>	 <b>5.05</b>	 <b>(79)</b>	 <b>15.51</b>	 <b>(2)</b>	 <b>15.51</b>	 <b>(2)</b>	 <b>0.70</b>	 <b>(10)</b>	 <b>0.48</b>	 <b>(28)</b>	 <b>0.23</b>	 <b>(45)</b>	 <b>0.71</b>	 <b>(40)</b>	 <b>2.44</b>	 <b>(20)</b>	 <b>07/01/2010</b>
Total Global Fixed Income Policy	6.95	(49)	11.02	(66)	11.02	(66)	-4.41	(90)	-2.05	(86)	-0.59	(72)	-0.15	(71)	0.66	(87)	
Global Bond Median	6.90		12.06		12.06		-2.57		-0.77		0.07		0.47		1.54		
 PIMCO Diversified Income (PDIIX)	 5.05	 (79)	 15.37	 (2)	 15.37	 (2)	 0.63	 (11)	 N/A		 N/A		 N/A		 1.66	 (3)	 10/01/2020
Blmbg. Global Multiverse	6.97	(48)	12.24	(46)	12.24	(46)	-2.81	(53)	-0.63	(45)	0.40	(37)	0.74	(40)	-2.22	(54)	
Global Bond Median	6.90		12.06		12.06		-2.57		-0.77		0.07		0.47		-2.05		

Returns for periods greater than one year are annualized.

Returns are expressed as percentages.

\*As of March 2015, PIMCO DiSCO II moved to Other Fixed Income from Alternative Investments.

# Comparative Performance

## Total Fund

As of September 30, 2024

	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR		Inception		Inception Date
<b>Total Real Estate</b>	<b>0.61</b>	<b>(39)</b>	<b>-13.04</b>	<b>(94)</b>	<b>-13.04</b>	<b>(94)</b>	<b>-4.08</b>	<b>(89)</b>	<b>0.74</b>	<b>(82)</b>	<b>2.45</b>	<b>(83)</b>	<b>5.08</b>	<b>(82)</b>	<b>5.17</b>	<b>(53)</b>	<b>01/01/2007</b>
Total Real Estate Policy	0.13	(63)	-7.75	(59)	-7.75	(59)	-0.27	(53)	3.16	(44)	4.38	(58)	6.32	(58)	6.14	(20)	
IM U.S. Open End Private Real Estate (SA+CF) Median	0.25		-6.78		-6.78		0.17		3.03		4.46		6.57		5.21		
 JP Morgan Strategic Property Fund	0.82	(32)	-10.57	(86)	-10.57	(86)	-2.15	(79)	1.69	(77)	2.89	(82)	5.13	(81)	5.17	(53)	01/01/2007
NCREIF Fund Index-Open End Diversified Core (EW)	0.13	(63)	-7.75	(59)	-7.75	(59)	-0.27	(53)	3.16	(44)	4.38	(58)	6.32	(58)	5.20	(51)	
IM U.S. Open End Private Real Estate (SA+CF) Median	0.25		-6.78		-6.78		0.17		3.03		4.46		6.57		5.21		
 JP Morgan Special Situation Property Fund	0.00	(79)	-19.91	(97)	-19.91	(97)	-9.27	(97)	-1.91	(96)	1.16	(92)	4.91	(84)	5.16	(84)	07/01/2014
NCREIF Fund Index-Open End Diversified Core (EW)	0.13	(63)	-7.75	(59)	-7.75	(59)	-0.27	(53)	3.16	(44)	4.38	(58)	6.32	(58)	6.52	(56)	
IM U.S. Open End Private Real Estate (SA+CF) Median	0.25		-6.78		-6.78		0.17		3.03		4.46		6.57		6.63		
 <b>Total Alternative Investments</b>	<b>6.93</b>		<b>19.06</b>		<b>19.06</b>		<b>3.21</b>		<b>5.01</b>		<b>4.95</b>		<b>4.77</b>		<b>7.85</b>		<b>08/01/2009</b>
 JPMorgan Income Builder Fund (JNBZX)	6.45	(43)	20.03	(67)	20.03	(67)	3.24	(60)	5.06	(78)	N/A		N/A		5.43	(73)	04/01/2019
60% MSCI World Ind(Net TR)/40% Bar US Agg Ind	5.90	(55)	23.76	(26)	23.76	(26)	4.97	(31)	8.08	(13)	7.44	(10)	6.96	(8)	8.29	(11)	
Global Allocation Median	6.08		21.74		21.74		3.73		6.42		5.46		5.16		6.41		
 Crawford Portfolio	9.21	(6)	22.46	(42)	22.46	(42)	N/A		N/A		N/A		N/A		12.15	(62)	03/01/2023
NASDAQ U.S. Multi-Asset Diversified Income Index	7.38	(24)	21.92	(49)	21.92	(49)	7.67	(4)	4.67	(84)	4.73	(70)	4.32	(78)	12.45	(60)	
Global Allocation Median	6.08		21.74		21.74		3.73		6.42		5.46		5.16		13.59		
 BlackRock Multi-Asset Income Fund (BIICX)	5.68	(62)	18.08	(79)	18.08	(79)	3.03	(64)	4.62	(85)	4.56	(73)	N/A		4.48	(74)	04/01/2015
50% MSCI World/50% BC Agg	5.78	(59)	21.66	(51)	21.66	(51)	3.92	(48)	6.82	(41)	6.49	(17)	6.14	(18)	6.09	(19)	
Global Allocation Median	6.08		21.74		21.74		3.73		6.42		5.46		5.16		5.17		
 PIMCO DISCO Fund III (Net)	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		07/01/2020
ICE BofA U.S. High Yield Index	5.28		15.66		15.66		3.08		4.55		4.56		4.95		5.95		
 Deerpath Capital Advantage VI	0.00		8.26		8.26		N/A		N/A		N/A		N/A		10.62		08/01/2022
Cambridge Associates Private Equity Index	0.00		4.62		4.62		4.89		14.16		13.88		12.93		5.61		

Returns for periods greater than one year are annualized.

Returns are expressed as percentages.

\*As of March 2015, PIMCO DiSCO II moved to Other Fixed Income from Alternative Investments.



# Comparative Performance

## Total Fund

As of September 30, 2024

Comparative Performance Fiscal Year Returns												
	FYTD	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015	FY2014	
<b>Total Fund (Gross)</b>	<b>17.90 (78)</b>	<b>10.82 (49)</b>	<b>-14.75 (49)</b>	<b>23.86 (11)</b>	<b>9.39 (35)</b>	<b>4.35 (37)</b>	<b>12.04 (3)</b>	<b>13.07 (21)</b>	<b>10.14 (27)</b>	<b>2.14 (4)</b>	<b>10.17 (39)</b>	
Total Fund Policy	22.57 (31)	11.58 (36)	-13.66 (38)	20.79 (40)	11.42 (15)	5.00 (22)	10.17 (11)	12.78 (26)	11.93 (3)	0.33 (21)	11.21 (16)	
All Public Plans-Total Fund Median	21.21	10.75	-14.88	20.01	8.02	3.99	7.82	11.84	9.41	-0.77	9.61	
<b>Total Fund (Net)</b>	<b>17.39</b>	<b>10.33</b>	<b>-15.03</b>	<b>23.44</b>	<b>9.01</b>	<b>3.99</b>	<b>11.68</b>	<b>12.65</b>	<b>9.55</b>	<b>1.86</b>	<b>10.02</b>	
Total Fund Policy	22.57	11.58	-13.66	20.79	11.42	5.00	10.17	12.78	11.93	0.33	11.21	
<b>Total Equity</b>	<b>25.26</b>	<b>21.03</b>	<b>-21.16</b>	<b>35.16</b>	<b>13.26</b>	<b>3.23</b>	<b>18.02</b>	<b>17.70</b>	<b>12.05</b>	<b>0.56</b>	<b>12.68</b>	
Total Equity Policy	33.61	20.66	-18.84	30.62	13.00	2.32	14.88	19.01	14.09	-2.46	15.56	
<b>Total Domestic Equity</b>	<b>25.63 (92)</b>	<b>20.68 (33)</b>	<b>-18.85 (79)</b>	<b>37.27 (27)</b>	<b>12.91 (54)</b>	<b>3.63 (45)</b>	<b>21.54 (16)</b>	<b>17.11 (57)</b>	<b>12.97 (48)</b>	<b>2.04 (31)</b>	<b>14.18 (76)</b>	
Total Domestic Equity Policy	35.19 (32)	20.46 (39)	-17.63 (65)	31.88 (46)	15.00 (44)	2.92 (50)	17.58 (42)	18.71 (41)	14.96 (27)	-0.49 (50)	17.76 (42)	
IM U.S. All Cap Core Equity (SA+CF) Median	31.98	19.63	-16.81	31.49	13.75	2.87	16.81	18.13	12.48	-0.51	17.15	
Newton LCV	27.77 (60)	21.63 (18)	-1.53 (5)	48.67 (11)	-5.97 (70)	0.65 (65)	14.35 (27)	19.00 (37)	14.30 (43)	-2.55 (40)	18.95 (42)	
Russell 1000 Value Index	27.76 (60)	14.44 (68)	-11.36 (66)	35.01 (59)	-5.03 (66)	4.00 (39)	9.45 (76)	15.12 (76)	16.19 (25)	-4.42 (64)	18.89 (43)	
IM U.S. Large Cap Value Equity (SA+CF) Median	28.85	16.89	-9.54	37.01	-3.19	2.49	11.91	17.82	13.35	-3.32	18.40	
Polen Capital	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	N/A	
Russell 1000 Growth Index	42.19 (42)	27.72 (40)	-22.59 (40)	27.32 (49)	37.53 (31)	3.71 (52)	26.30 (39)	21.94 (39)	13.76 (21)	3.17 (58)	19.15 (39)	
IM U.S. Large Cap Growth Equity (SA+CF) Median	40.90	25.72	-24.90	27.23	33.81	3.80	24.83	21.06	11.84	3.88	18.13	
Deprince, Race, Zollo (Equity)	15.41 (97)	16.92 (33)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Russell 2500 Value Index	26.59 (34)	11.34 (78)	-15.35 (63)	54.38 (41)	-12.62 (66)	-4.35 (65)	10.24 (47)	15.75 (69)	17.68 (25)	-2.44 (65)	9.88 (52)	
IM U.S. SMID Cap Value Equity (SA+CF) Median	24.77	15.02	-13.80	52.21	-8.90	-2.81	9.84	18.44	14.30	-0.29	10.00	
Vanguard Total Stk Mkt Index (VITSX)	35.25 (45)	20.41 (51)	-18.01 (76)	32.10 (21)	15.01 (28)	2.90 (53)	17.62 (28)	18.64 (37)	15.00 (24)	-0.57 (27)	17.73 (53)	
Vanguard Total Stock Market Index	35.23 (46)	20.37 (51)	-17.98 (76)	32.11 (21)	14.99 (29)	2.92 (53)	17.62 (28)	18.64 (37)	14.99 (24)	-0.55 (27)	17.77 (52)	
Large Blend Median	34.79	20.42	-16.05	29.69	13.11	3.15	16.41	18.22	13.15	-1.33	17.88	
Baron Asset	16.68 (90)	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)	8.90 (21)	
Russell 2000 Growth Index	27.66 (51)	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)	3.79 (51)	
IM U.S. Small Cap Growth Equity (SA+CF) Median	27.84	11.34	-28.80	39.93	25.31	-6.07	27.75	21.70	11.54	4.12	3.81	

Returns for periods greater than one year are annualized.

Returns are expressed as percentages.

\*As of March 2015, PIMCO DiSCO II moved to Other Fixed Income from Alternative Investments.

# Comparative Performance

## Total Fund

As of September 30, 2024

	FYTD	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015	FY2014
<b>Total International Equity</b>	<b>23.20 (65)</b>	<b>23.31 (52)</b>	<b>-32.85 (98)</b>	<b>24.76 (47)</b>	<b>14.97 (5)</b>	<b>1.19 (13)</b>	<b>1.47 (51)</b>	<b>20.63 (20)</b>	<b>7.21 (41)</b>	<b>-6.88 (40)</b>	<b>5.26 (30)</b>
Total International Equity Policy	25.96 (24)	21.02 (69)	-24.79 (24)	24.45 (52)	3.45 (44)	-0.72 (28)	2.25 (31)	20.15 (26)	9.80 (16)	-11.78 (90)	5.22 (30)
Foreign Large Blend Median	24.46	23.65	-25.98	24.53	2.59	-2.02	1.48	18.56	6.35	-7.87	4.09
DFA Intl Value (DFIVX)	20.98 (87)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total International Equity Policy	25.96 (24)	21.02 (69)	-24.79 (24)	24.45 (52)	3.45 (44)	-0.72 (28)	2.25 (31)	20.15 (26)	9.80 (16)	-11.78 (90)	5.22 (30)
Foreign Large Blend Median	24.46	23.65	-25.98	24.53	2.59	-2.02	1.48	18.56	6.35	-7.87	4.09
EuroPacific Growth Fund (RERGX)	24.71 (46)	19.64 (80)	-32.85 (98)	24.76 (47)	14.97 (5)	1.14 (14)	1.47 (51)	20.63 (20)	8.52 (28)	-4.93 (22)	6.98 (12)
Total International Equity Policy	25.96 (24)	21.02 (69)	-24.79 (24)	24.45 (52)	3.45 (44)	-0.72 (28)	2.25 (31)	20.15 (26)	9.80 (16)	-11.78 (90)	5.22 (30)
Foreign Large Blend Median	24.46	23.65	-25.98	24.53	2.59	-2.02	1.48	18.56	6.35	-7.87	4.09
<b>Total Fixed Income</b>	<b>13.93</b>	<b>2.51</b>	<b>-14.37</b>	<b>1.02</b>	<b>4.35</b>	<b>6.85</b>	<b>-0.12</b>	<b>5.16</b>	<b>6.09</b>	<b>0.90</b>	<b>4.09</b>
Total Fixed Income Policy	11.48	0.72	-15.92	-1.31	6.95	9.93	-1.26	-0.39	5.96	1.77	3.39
<b>Total Domestic Fixed Income</b>	<b>13.32 (21)</b>	<b>0.77 (76)</b>	<b>-13.19 (15)</b>	<b>-0.14 (71)</b>	<b>7.12 (64)</b>	<b>8.69 (88)</b>	<b>0.45 (11)</b>	<b>1.07 (49)</b>	<b>6.30 (37)</b>	<b>1.96 (77)</b>	<b>3.47 (95)</b>
Total Domestic Fixed Income Policy	11.57 (87)	0.64 (81)	-14.60 (57)	-0.90 (89)	6.98 (71)	10.30 (62)	-1.22 (91)	0.07 (90)	5.19 (85)	2.94 (44)	3.96 (85)
IM U.S. Broad Market Fixed Income (SA+CF) Median	12.57	1.36	-14.51	0.72	7.53	10.39	-0.60	1.06	5.92	2.83	4.81
Garcia Hamilton & Associates	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)	N/A
Blmbg. U.S. Aggregate Index	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)	3.96 (79)
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	12.30	1.06	-14.50	-0.05	7.48	10.41	-0.74	0.62	5.66	3.01	4.41
Dodge & Cox Income (DODIX)	13.53 (5)	3.11 (2)	-13.63 (12)	1.96 (6)	7.70 (22)	9.13 (76)	-0.12 (6)	2.57 (3)	7.09 (4)	N/A	N/A
Blmbg. U.S. Aggregate Index	11.57 (60)	0.64 (47)	-14.60 (31)	-0.90 (73)	6.98 (43)	10.30 (21)	-1.22 (39)	0.07 (59)	5.19 (42)	2.94 (13)	3.96 (51)
Intermediate Core Bond Median	11.72	0.60	-14.95	-0.23	6.80	9.78	-1.38	0.28	5.01	2.18	3.97
<b>Total Global Fixed Income</b>	<b>15.51 (2)</b>	<b>7.27 (15)</b>	<b>-17.60 (31)</b>	<b>4.81 (4)</b>	<b>-4.28 (96)</b>	<b>1.17 (92)</b>	<b>-1.95 (45)</b>	<b>13.36 (1)</b>	<b>0.84 (95)</b>	<b>-7.57 (68)</b>	<b>6.47 (4)</b>
Total Global Fixed Income Policy	11.02 (66)	1.04 (89)	-22.14 (60)	-3.33 (93)	6.77 (16)	8.13 (16)	-1.54 (30)	-2.69 (91)	9.71 (34)	-3.83 (29)	-0.07 (90)
Global Bond Median	12.06	3.06	-21.16	0.50	5.31	5.78	-2.13	1.17	8.48	-5.22	2.91
PIMCO Diversified Income (PDIIX)	15.37 (2)	7.27 (15)	-17.67 (32)	4.81 (4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. Global Multiverse	12.24 (46)	2.69 (57)	-20.35 (43)	-0.45 (73)	5.99 (35)	7.54 (27)	-1.32 (25)	-0.56 (74)	9.23 (40)	-3.56 (22)	1.40 (77)
Global Bond Median	12.06	3.06	-21.16	0.50	5.31	5.78	-2.13	1.17	8.48	-5.22	2.91

Returns for periods greater than one year are annualized.

Returns are expressed as percentages.

\*As of March 2015, PIMCO DiSCO II moved to Other Fixed Income from Alternative Investments.

# Comparative Performance

## Total Fund

As of September 30, 2024

	FYTD	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018	FY2017	FY2016	FY2015	FY2014
<b>Total Real Estate</b>	<b>-13.04 (94)</b>	<b>-13.96 (71)</b>	<b>17.96 (60)</b>	<b>15.22 (52)</b>	<b>2.05 (40)</b>	<b>4.97 (78)</b>	<b>8.73 (61)</b>	<b>8.20 (44)</b>	<b>10.30 (78)</b>	<b>16.13 (38)</b>	<b>12.72 (53)</b>
Total Real Estate Policy	-7.75 (59)	-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)	11.99 (80)
IM U.S. Open End Private Real Estate (SA+CF) Median	-6.78	-12.47	20.19	15.73	1.58	6.80	8.98	7.83	11.14	15.19	12.90
 JP Morgan Strategic Property Fund	 -10.57 (86)	 -12.08 (44)	 19.17 (58)	 14.05 (61)	 1.77 (42)	 4.01 (89)	 7.92 (76)	 7.58 (54)	 9.67 (83)	 14.53 (54)	 12.13 (77)
NCREIF Fund Index-Open End Diversified Core (EW)	-7.75 (59)	-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)	12.39 (69)
IM U.S. Open End Private Real Estate (SA+CF) Median	-6.78	-12.47	20.19	15.73	1.58	6.80	8.98	7.83	11.14	15.19	12.90
 JP Morgan Special Situation Property Fund	 -19.91 (97)	 -18.79 (94)	 14.84 (74)	 18.28 (22)	 2.79 (18)	 7.57 (30)	 10.94 (19)	 9.93 (18)	 12.10 (31)	 20.92 (9)	 N/A
NCREIF Fund Index-Open End Diversified Core (EW)	-7.75 (59)	-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)	12.39 (69)
IM U.S. Open End Private Real Estate (SA+CF) Median	-6.78	-12.47	20.19	15.73	1.58	6.80	8.98	7.83	11.14	15.19	12.90
 <b>Total Alternative Investments</b>	 <b>19.06</b>	 <b>8.20</b>	 <b>-14.65</b>	 <b>14.09</b>	 <b>1.77</b>	 <b>5.84</b>	 <b>3.76</b>	 <b>7.81</b>	 <b>8.30</b>	 <b>-2.62</b>	 <b>10.44</b>
 JPMorgan Income Builder Fund (JNBZX)	 20.03 (67)	 7.77 (80)	 -14.92 (37)	 15.53 (71)	 0.69 (58)	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A
60% MSCI World Ind(Net TR)/40% Bar US Agg Ind	23.76 (26)	13.16 (28)	-17.42 (47)	16.29 (64)	9.68 (11)	5.54 (16)	6.18 (13)	10.63 (45)	9.08 (38)	-1.79 (11)	8.93 (32)
Global Allocation Median	21.74	10.90	-17.91	17.96	2.64	2.65	3.50	10.28	8.35	-4.67	7.65
 Crawford Portfolio	 22.46 (42)	 N/A	 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	21.92 (49)	8.69 (75)	-5.80 (6)	28.34 (8)	-21.58 (100)	6.36 (13)	3.42 (51)	8.37 (74)	10.60 (19)	-7.82 (81)	10.81 (11)
Global Allocation Median	21.74	10.90	-17.91	17.96	2.64	2.65	3.50	10.28	8.35	-4.67	7.65
 BlackRock Multi-Asset Income Fund (BIICX)	 18.08 (79)	 8.21 (78)	 -14.39 (36)	 11.86 (92)	 2.43 (52)	 6.24 (13)	 2.64 (61)	 7.88 (79)	 7.39 (62)	 N/A	 N/A
50% MSCI World/50% BC Agg	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)	8.10 (42)
Global Allocation Median	21.74	10.90	-17.91	17.96	2.64	2.65	3.50	10.28	8.35	-4.67	7.65
 PIMCO DISCO Fund III (Net)	 N/A	 -11.08	 -2.50	 20.38	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A
ICE BofA U.S. High Yield Index	15.66	10.20	-14.06	11.46	2.30	6.30	2.94	9.06	12.82	-3.56	7.23
 Deerpath Capital Advantage VI	 8.26	 13.27	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A	 N/A
Cambridge Associates Private Equity Index	4.62	7.42	2.70	49.06	12.72	7.79	18.83	17.36	8.86	6.35	18.14

Returns for periods greater than one year are annualized.

Returns are expressed as percentages.

\*As of March 2015, PIMCO DiSCO II moved to Other Fixed Income from Alternative Investments.

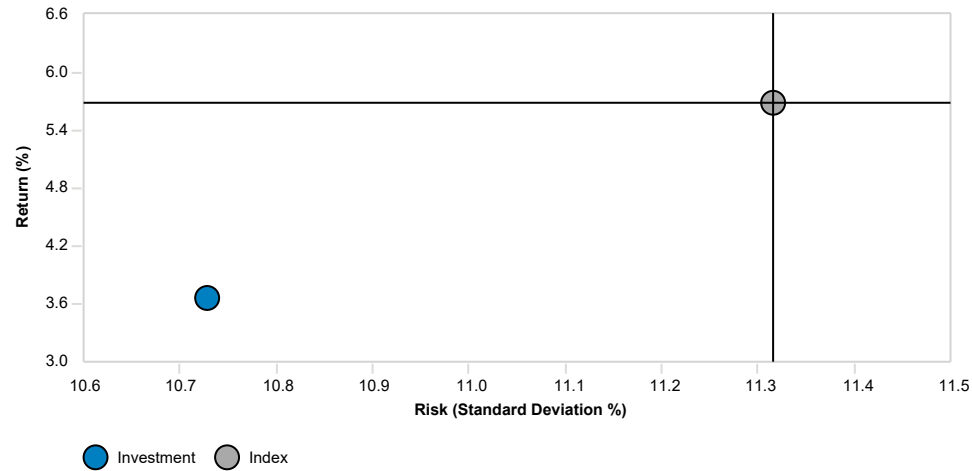
### Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.66	10.73	0.07	84.09	7	97.80	5
Index	5.70	11.32	0.26	100.00	8	100.00	4

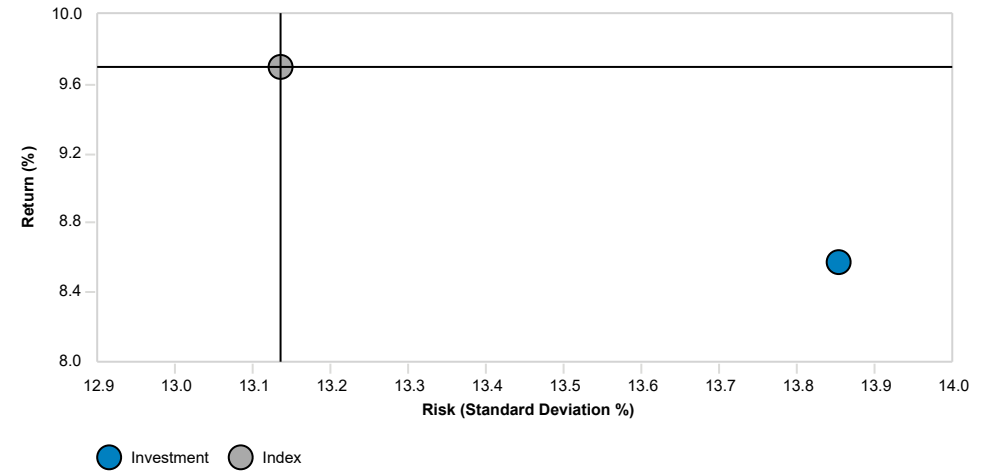
### Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.58	13.85	0.50	96.54	14	104.93	6
Index	9.71	13.14	0.60	100.00	15	100.00	5

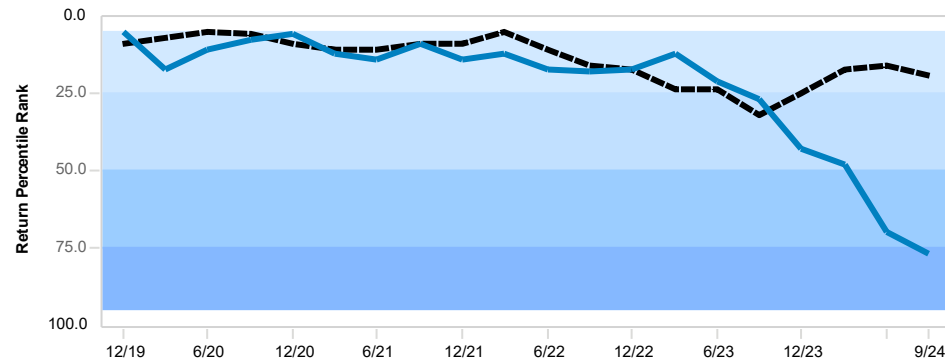
### Risk and Return 3 Years



### Risk and Return 5 Years

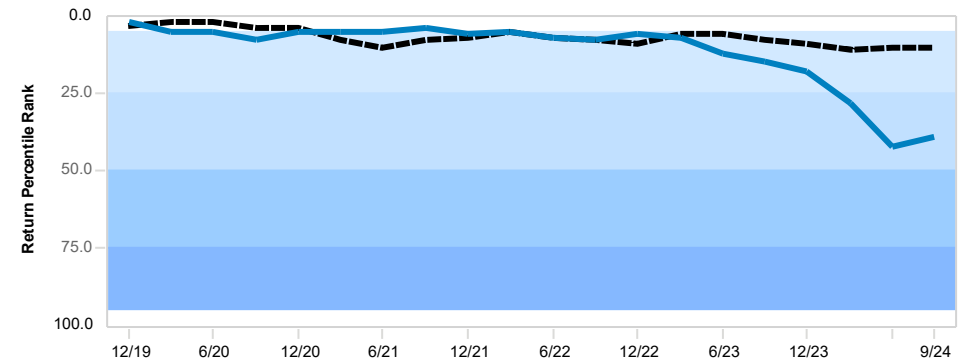


### 3 Year Rolling Percentile Rank All Public Plans-Total Fund



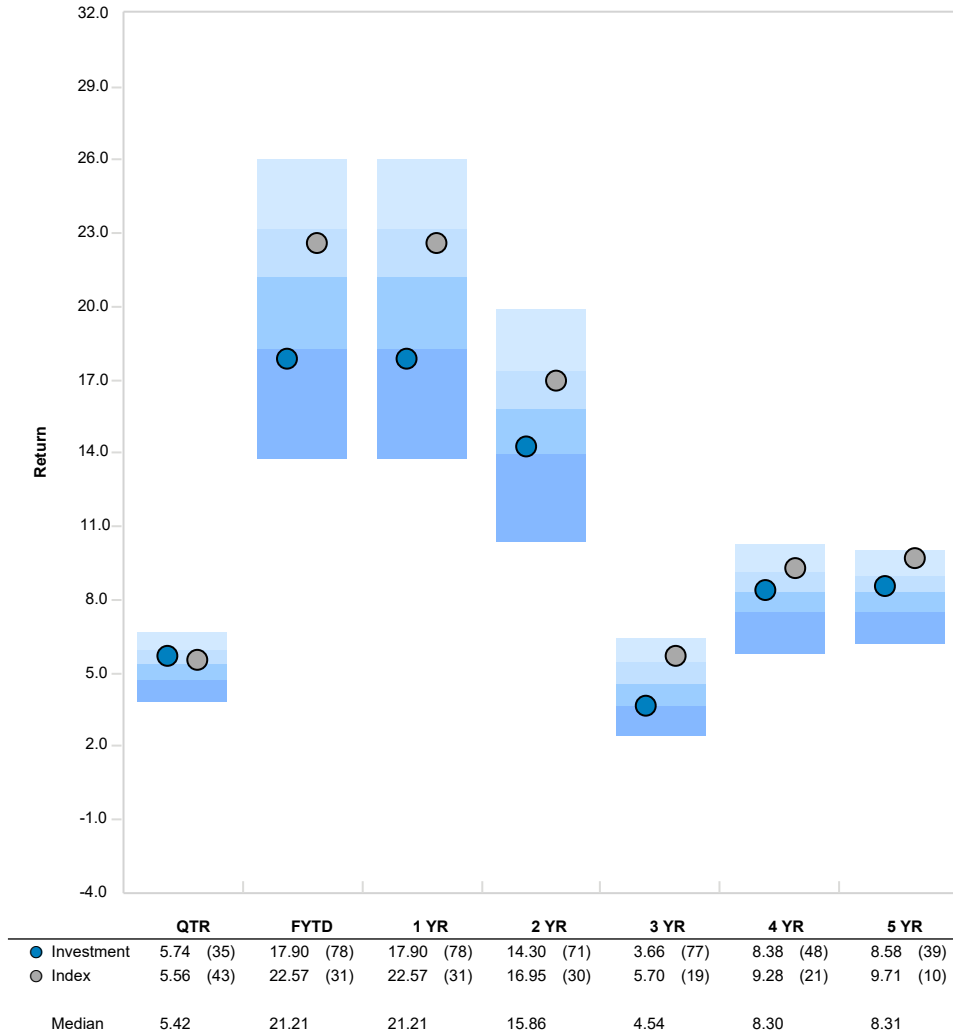
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	15 (75%)	3 (15%)	1 (5%)	1 (5%)
Index	20	19 (95%)	1 (5%)	0 (0%)	0 (0%)

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

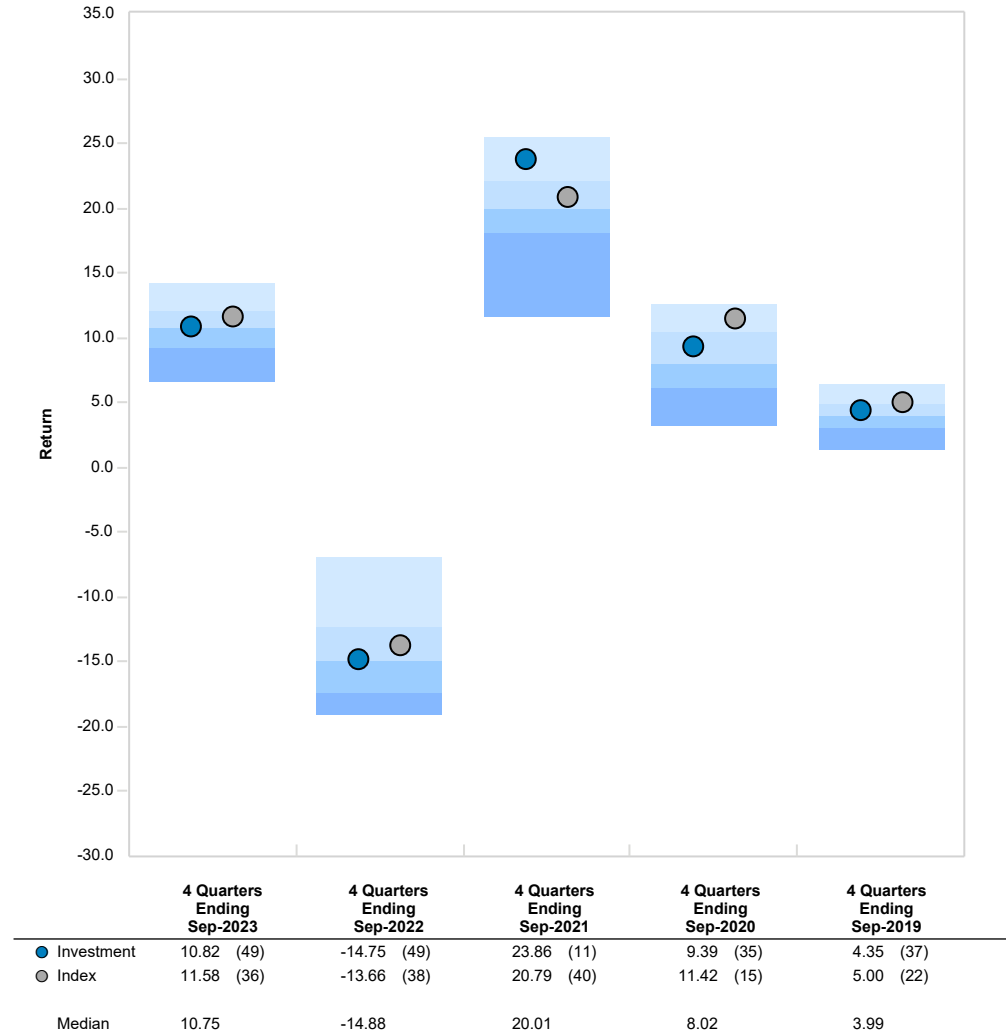


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)

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



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



Comparative Performance

	1 Qtr Ending Jun-2024	1 Qtr Ending Mar-2024	1 Qtr Ending Dec-2023	1 Qtr Ending Sep-2023	1 Qtr Ending Jun-2023	1 Qtr Ending Mar-2023
Investment	-0.63 (99)	4.31 (70)	7.57 (66)	-2.77 (43)	2.99 (64)	4.37 (50)
Index	1.68 (13)	5.27 (35)	8.49 (44)	-3.19 (64)	4.17 (12)	4.96 (19)
Median	1.15	4.88	8.18	-2.96	3.27	4.37

**Total Fund Compliance:**

1. The total plan return equaled or exceeded the total plan benchmark over the trailing three year period.
2. The total plan return equaled or exceeded the total plan benchmark over the trailing five year period.
3. The total plan return ranked within the top 50th percentile of its peer group over the trailing three year period.
4. The total plan return ranked within the top 50th percentile of its peer group over the trailing five year period.

Yes	No	N/A
	✓	
	✓	
	✓	
✓		

**Equity Compliance:**

1. Total domestic equity return equaled or exceeded the benchmark over the trailing three and five year periods.
2. Total domestic equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.
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.
4. Total international equity return equaled or exceeded the benchmark over the trailing three and five year periods.
5. Total international equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.
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 market.
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.
8. At a minimum, 80% of the total fixed income portfolio was rated investment grade or higher.

Yes	No	N/A
	✓	
	✓	
✓		
	✓	
	✓	
✓		
✓		
✓		

**Fixed Income Compliance:**

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 periods.
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 market.
4. Total global fixed income return equaled or exceed the benchmark over the trailing three and five year periods.
5. Total global fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.
6. The total global fixed income allocation was less than or equal to 10% of the total fund value at market.

Yes	No	N/A
✓		
✓		
✓		
✓		
✓		
✓		

**Manager Compliance:**

1. Manager outperformed the index over the trailing three and five year periods.
2. Manager ranked within the top 50th percentile over trailing three and five year periods.
3. Less than four consecutive quarters of under performance relative to the index.
4. Three year down-market capture ratio less than the index.

Newton LCV			Polen			DRZ*			Vanguard TS**		
Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
✓				✓				✓			✓
✓				✓				✓			✓
✓			✓				✓				✓
✓				✓				✓			✓

**Manager Compliance:**

1. Manager outperformed the index over the trailing three and five year periods.
2. Manager ranked within the top 50th percentile over trailing three and five year periods.
3. Less than four consecutive quarters of under performance relative to the index.
4. Three year down-market capture ratio less than the index.

Baron			DFA Intl Value*			EuroPacific			GHA		
Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
	✓				✓		✓		✓		
	✓				✓		✓			✓	
✓			✓			✓			✓		
✓					✓		✓			✓	

\*3 or 5 yr data not available as of report date

\*\*Compliance does not apply on index fund

**Manager Compliance:**

- 1.Manager outperformed the index over the trailing three and five year periods.
- 2.Manager ranked within the top 50th percentile over trailing three and five year periods.
- 3.Less than four consecutive quarters of under performance relative to the index.
- 4.Three year down-market capture ratio less than the index.

Dodge & Cox Inc			PIMCO DI*			JP Morgan SPF			JP Morgan SSPF		
Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
✓			✓				✓			✓	
✓			✓				✓			✓	
✓			✓			✓				✓	
✓			✓				✓			✓	

**Manager Compliance:**

- 1.Manager outperformed the index over the trailing three and five year periods.
- 2.Manager ranked within the top 50th percentile over trailing three and five year periods.
- 3.Less than four consecutive quarters of under performance relative to the index.
- 4.Three year down-market capture ratio less than the index.

JPM Inc Bldr*			Crawford*			BlackRock MAIF					
Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
	✓				✓		✓				
	✓				✓		✓				
✓			✓			✓					
✓					✓	✓					

\*3 or 5 yr data not available as of report date

\*\*Compliance does not apply on index fund

**Fee Analysis**  
**Total Fund**  
**As of September 30, 2024**

	Estimated Annual Fee (%)*	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Newton LCV Base+PBF up to 0.75%	0.25	49,537,532	123,844	0.25 % of Assets
Polen Capital	0.60	47,446,510	284,679	0.60 % of Assets
Vanguard Total Stk Mkt Index (VITSX)	0.04	23,180,557	9,272	0.04 % of Assets
Deprince, Race, Zollo (Equity)	0.45	23,605,888	106,227	0.45 % of Assets
Baron Asset	1.00	22,338,900	223,389	1.00 % of Assets
<b>Total Domestic Equity</b>	<b>0.45</b>	<b>166,109,388</b>	<b>747,411</b>	
DFA Intl Value (DFIVX)	0.28	12,418,566	34,772	0.28 % of Assets
EuroPacific Growth Fund (RERGX)	0.49	18,703,671	91,648	0.49 % of Assets
<b>Total International Equity</b>	<b>0.41</b>	<b>31,122,237</b>	<b>126,420</b>	
Garcia Hamilton & Associates	0.25	26,747,655	65,995	0.25 % of First \$25 M 0.20 % Thereafter
Dodge & Cox Income (DODIX)	0.43	17,597,625	75,670	0.43 % of Assets
<b>Total Domestic Fixed Income</b>	<b>0.32</b>	<b>44,345,279</b>	<b>141,665</b>	
PIMCO Diversified Income (PDIIX)	0.75	17,533,182	131,499	0.75 % of Assets
<b>Total Global Fixed Income</b>	<b>0.75</b>	<b>17,533,182</b>	<b>131,499</b>	
JP Morgan Strategic Property Fund	1.00	19,959,379	199,594	1.00 % of Assets
JP Morgan Special Situation Property Fund Fee reduced by 0.625% on all 3rd party debt & 0.15% with cash over 10%	1.60	6,694,591	107,113	1.60 % of Assets
<b>Total Real Estate</b>	<b>1.15</b>	<b>26,653,970</b>	<b>306,707</b>	
JPMorgan Income Builder Fund (JNBZX)	0.52	5,921,887	30,794	0.52 % of Assets
Crawford Portfolio	0.50	11,877,632	59,388	0.50 % of Assets
BlackRock Multi-Asset Income Fund (BIICX)	0.55	5,912,771	32,520	0.55 % of Assets
PIMCO DISCO Fund III	0.95			0.95 % of Assets
Deerpath Capital Advantage VI	1.00	2,356,829	23,568	1.00 % of Assets
<b>Total Alternative Investments</b>	<b>0.56</b>	<b>26,069,119</b>	<b>146,271</b>	
<b>Total Cash**</b>		<b>2,181,724</b>		
<b>Total Fund</b>	<b>0.51</b>	<b>314,014,900</b>	<b>1,599,972</b>	

\*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 September 30, 2024

### Total Fund Policy

Allocation Mandate	Weight (%)
<b>Oct-1997</b>	
ZZ -West Palm Beach Fire Total	100.00
<b>Mar-2007</b>	
Russell 3000 Index	55.00
BofA Merrill Lynch Domestic Master Bond Index	25.00
MSCI EAFE Index	10.00
NCREIF Property Index	10.00
<b>Jun-2009</b>	
Russell 3000 Index	55.00
Blmbg. U.S. Aggregate Index	20.00
MSCI EAFE Index	10.00
NCREIF Property Index	10.00
FTSE 3 Month T-Bill	5.00
<b>Apr-2010</b>	
Russell 3000 Index	52.00
Blmbg. U.S. Aggregate Index	25.00
MSCI AC World ex USA	10.00
NCREIF Property Index	5.00
FTSE 3 Month T-Bill	5.00
PIMCO Talf	3.00
<b>Jan-2011</b>	
Russell 3000 Index	50.00
Blmbg. U.S. Aggregate Index	25.00
MSCI AC World ex USA	10.00
NCREIF Property Index	5.00
FTSE 3 Month T-Bill	5.00
Barclay BTOP 50	5.00
<b>Apr-2012</b>	
Russell 3000 Index	46.00
MSCI AC World ex USA	10.00
Barclay BTOP 50	5.00
Blmbg. U.S. Aggregate Index	20.00
FTSE World Government Bond Index	5.00
PIMCO DiSCO II	4.00
NCREIF Property Index	5.00
FTSE 3 Month T-Bill	5.00
<b>Jun-2014</b>	
Russell 3000 Index	50.00
MSCI AC World ex USA	10.00
Blmbg. 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
90 Day U.S. Treasury Bill	0.00

Allocation Mandate	Weight (%)
<b>Mar-2015</b>	
Russell 3000 Index	50.00
MSCI AC World ex USA	10.00
Blmbg. U.S. Aggregate Index	15.00
FTSE World Government Bond Index	5.00
ICE BofA U.S. High Yield Index	5.00
NCREIF Fund Index-Open End Diversified Core (EW)	10.00
50% S&P500/50% BC Agg	2.50
50% MSCI World/50% BC Agg	2.50
90 Day U.S. Treasury Bill	0.00
<b>Apr-2017</b>	
Russell 3000 Index	50.00
MSCI AC World ex USA	10.00
Blmbg. U.S. Aggregate Index	15.00
FTSE World Government Bond Index	5.00
ICE BofA U.S. High Yield Index	0.00
NCREIF Fund Index-Open End Diversified Core (EW)	12.00
50% S&P500/50% BC Agg	4.00
50% MSCI World/50% BC Agg	4.00
90 Day U.S. Treasury Bill	0.00
<b>Apr-2019</b>	
Russell 3000 Index	50.00
MSCI AC World ex USA	10.00
Blmbg. U.S. Aggregate Index	15.00
FTSE World Government Bond Index	5.00
ICE BofA U.S. High Yield Index	0.00
NCREIF Fund Index-Open End Diversified Core (EW)	12.00
60% MSCI World Ind(Net TR)/40% Bar US Agg Ind	4.00
50% MSCI World/50% BC Agg	4.00
90 Day U.S. Treasury Bill	0.00
<b>Oct-2023</b>	
Russell 3000 Index	49.00
MSCI AC World ex USA	10.00
Blmbg. U.S. Aggregate Index	14.00
FTSE World Government Bond Index	5.00
ICE BofA U.S. High Yield Index	0.00
NCREIF Fund Index-Open End Diversified Core (EW)	12.00
60% MSCI World Ind(Net TR)/40% Bar US Agg Ind	2.38
50% MSCI World/50% BC Agg	2.38
NASDAQ U.S. Multi-Asset Diversified Income Index	4.38
Cambridge Associates Private Equity Index	0.88
90 Day U.S. Treasury Bill	0.00

**Benchmark History**  
**Investment Policy Benchmarks**  
As of September 30, 2024

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

<b>Active Return</b>	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
<b>Alpha</b>	- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.
<b>Beta</b>	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
<b>Consistency</b>	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.
<b>Distributed to Paid In (DPI)</b>	- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.
<b>Down Market Capture</b>	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
<b>Downside Risk</b>	- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.
<b>Excess Return</b>	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
<b>Excess Risk</b>	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
<b>Information Ratio</b>	- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.
<b>Public Market Equivalent (PME)</b>	- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.
<b>R-Squared</b>	- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.
<b>Return</b>	- Compounded rate of return for the period.
<b>Sharpe Ratio</b>	- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.
<b>Standard Deviation</b>	- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.
<b>Total Value to Paid In (TVPI)</b>	- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life
<b>Tracking Error</b>	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
<b>Treynor Ratio</b>	- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.
<b>Up Market Capture</b>	- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.

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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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